YEAR	CATEGORY	Journal	Subject/ title	Name	doi
2006	ATM	Applied Surface Science	Measurement of sulfur isotope ratios in micrometer-sized samples by NanoSIMS	Winterholler,Baerbel; Hoppe,Peter;Andreae,Meinrat O.;Foley,Stephen;	10.1016/j.apsusc.2006.02.150
2006	ATM	Environ Sci Pollut Res	Facing Hazardous Matter in Atmospheric Particles with NanoSIMS	Krein,Andreas;Audinot,Jean-Nicolas;Migeon,Henry-Noel;Hoffmann,Lucien;	10.1065/espr2006.10.356
2008	ATM	International Journal of mass spectrometry	Sulfur isotope ratio measurements of individual sulfate particles by NanoSIMS. 272, : 63 – 77	Winterholler,Baerbel;Hoppe,Peter;Foley,Stephen;Andreae,Meinrat O.;	10.1016/j.ijms.2008.01.003
2008	ATM	Atmospheric Chemistry and Physics	Sulfur isotope analyses of individual aerosol particles in the urban aerosol at a central European site (Mainz, Germany),8,7217–7238	Sinha,Baerbel W.;Hoppe,Peter.;Huth,J.;Foley,Stephen;Andreae,Meinrat O.;	10.5194/acp-8-7217-2008
2009	ATM	Atmos. Chem. Phys. Discuss	Sulfur isotope analysis of individual aerosol particles – a new tool for studying heterogeneous oxidation processes in the marine environment, 9, 1–59, 2009	Sinha,Baerbel W.;Hoppe,Peter.;Huth,J.;Foley,Stephen;Andreae,Meinrat O.;	10.5194/acpd-9-3307-2009
2012	ATM	Atmospheric Chemistry and Physics,	Fractionation of sulfur isotopes during heterogeneous oxidation of SO2 on sea salt aerosol: A new tool to investigate non-sea salt sulfate production in the marine boundary layer. V12, 4619-4631	Harris,E.;Sinha,Baerbel W.;Hoppe,P.;Foley,Stephen;Borrmann,S.;	10.5194/acp-12-4619-2012
2012	ATM	Science	Biogenic potassium salt particles as seeds for secondary organic aerosol in the amazon, 1075-8.	Pohlker,Christopher;Wiedemann,Kenia T.;Sinha,Baerbel W.;Shiraiwa,Manabu;Gunthe,Sachin S.;Smith,Mackenzie;Su,Hang;Artaxo,Paulo;Chen,Qi;Cheng,Yafang;Elbert,Wolfgang;Gilles,Mary K.;Kilcoyne,Arthur L. D.;Moffet,Ryan C.; Weigand,Markus;Martin,Scot T.;Poschl,Ulrich;Andreae,Meinrat O.;	10.1126/science.1223264
2013	ATM	Science	Enhanced Role of Transition Metal Ion Catalysis During In-Cloud Oxidation of SO2	Harris,Eliza;Sinha,Baerbel W.;van Pinxteren,Dominik;Tilgner,Andreas;Wadinga Fomba,Khanneh;Schneider,Johannes;Roth,Anja;Gnauk,Thomas;Fahlbusch,Benjamin;Mertes,Stephan;Lee,Taehyoung;Collett,Jeffrey;Foley,Stephen;Borrmann,Stephan;Hoppe,Peter;Herrmann,Hartmut;	10.1126/science.1230911
2014	ATM	Atmospheric Chemistry and Physics	In-cloud sulfate addition to single particles resolved with sulfur isotope analysis during HCCT 2010, 14, 4219-4245.	Harris,Eliza;Sinha,Baerbel W.;van Pinxteren,Domonik;Schneider,Johannes;Poulain,Laurent;Collett,Jeff;D'Anna,Barbara;Fahlbusch,Benjamin;Foley,Stephen;Fomba,KhannehW.;George,C.;Gnauk,Thomas;Henning,Silvia;Lee,T.;Mertes,S.;Roth,A.;Stratmann,F.;Borrmann,S.;Hoppe,Peter.;Herrmann,Hartmut;	10.5194/acp-14-4219-2014
2014	ATM	Analytical Methods	Spatially resolved chemical imaging of individual atmospheric particles using nanoscale imaging mass spectrometry: insight into particle origin and chemistry	Ghosal,Sutapa;Weber,Peter K.;Laskin,Alexander;	10.1039/c3ay42012d
2015	ATM	Atmospheric Chemistry and Physics	Sea salt aerosols as a reactive surface for inorganic and organic acidic gases in the Arctic troposphere, 15, 11341–11353	Chi,J.W.;Li,W. J.;Zhang,D. Z.;Zhang,J. C.;Lin,Y. T.;Shen,X. J.;Sun,J. Y.;Chen,J. M. ;Zhang, X. Y.;Zhang,Y. M.;Wang,W. X.	10.5194/acp-15-11341-2015
2016	ATM	Analytical Chemistry	Speciation of nitrogen bearing species using negative and positive secondary ion spectra with Nano Secondary Ion Mass Spectrometry.	Li,Kexue;Sinha,Baerbel W.;Hoppe,Peter	10.1021/acs.analchem.5b04740
2016	ATM	Vac. Sci. Technol. B	Nitrogen isotope analysis of NaNO3 and KNO3 by nano secondary ion mass spectrometry using the 15N16O2- / 14N16O2- ratio, 34(3)	Li,Kexue;Sinha,Baerbel W.;Hoppe,Peter;	10.1116/1.4931983]
2016	ATM	Journal of Geophysical Research	A conceptual framework for mixing structures in individual aerosol particles, V121, Issue 22, Pages 13,784–13,79	Li,Weijun;Sun,Jiaxing;Xu,Liang;Shi,Zongbo;Riemer,Nicole;Sun,Yele;Fu,Pingqing;Zhang,Jianchao;Lin,Yangting;Wang,Xinfeng;Shao,Longyi; Chen,Jianmin;Zhang,Xiaoye;Wang,Zifa;Wang,Wenxing;	10.1002/2016JD025252
2017	ATM	Science Advances	Air pollution-aerosol interactions produce more bioavailable iron for ocean ecosystems, 3, 1601749	Li,Weijun;Xu,Liang;Liu,Xiaohuan;Zhang,Jianchao;Lin,Yangting;Yao,Xiaohong;Gao,Huiwang;Zhang,Daizhou;Chen,Jianmin; Wang,Wenxing;Harrison,Roy M.;Zhang,Xiaoye;Shao,Longyi;Fu,Pingqing;Nenes,Athanasios;Shi,Zongbo;	10.1126/sciadv.1601749
2018	ATM	Journal of Geophysical Research, Atmospheres	Direct observations of fine primary particles from residential coal burning: insights into their morphology, composition, and hygroscopicity	Zhang,Yinxiao;Yuan,Qi;Huang,Dao;Kong,Shaofei;Zhang,Jian;Wang,Xinfeng;Lu,Chunying;Shi,Zongbo;Zhang,Xiaoye;Sun,Yele;Wang,Zifa;Shao,Longyi;Zhu,Jihao;Li,Weijun	10.1029/2018JD028988
2018	ATM	Nature communications	Fungal spores as a source of sodium salt particles in the Amazon basin. V9, 4793	China,Swarup;Burrows,Susannah M.;Wang,Bingbing;Harder,Tristan H.;Weis,Johannes;Tanarhte,Meryem;Rizzo,Luciana V.;Brito,Joel;Cirino, Glauber G.; Ma,Po-Lun;Cliff,John;Artaxo,Paulo;Gilles,Mary K.;Laskin,Alexander	10.1038/s41467-018-07066-4
2019	ATM	Atmospheric Chemistry and Physics	Organic coating on sulfate and soot particles during late summer in the Svalbard Archipelago. . 19, 10433–10446	Yu,Hua;Li,Weijun;Zhang,Yangmei;Tunved,Peter;DallOsto,Manuel;Shen,Xiaojing;Sun,Junying;Zhang,Xiaoye;Zhang,Jianchao;Shi,Zongbo	10.5194/acp-19-10433-2019
2019	ATM	Atmospheric Chemistry and Physics	Organic coating on sulfate and soot particles in summer Arctic atmosphere	Yu,Hua;Li,Weijun;Zhang,Yangmei;Tunved,Peter;DallOsto,Manuel;Shen,Xiaojing;Sun,Junying;Zhang,Xiaoye;Zhang,Jianchao;Shi,Zongbo;	10.5194/acp-2018-1205
2020	ATM	Environmental Science & Technology	Microscopic Evidence for Phase Separation of Organic Species and Inorganic Salts in Fine Ambient Aerosol Particles	Li,Weijun;Liu,Lei;Zhang,Jian;Xu,Liang;Wang,Yuanyuan;Sun,Yele;Shi,Zongbo;	10.1021/acs.est.0c02333
2020	ATM	Environmental Science & Technology Letters	Evidence for Large Amounts of Brown Carbonaceous Tarballs in theHimalayan Atmosphere	Yuan,Qi;Xu,Jianzhong;Liu,Lei;Zhang,Aoxing;Liu,Yanmei;Zhang,Jian;Wan,Xin;Li,Mengmeng;Qin,Kai;Cong,Zhiyuan;Wang,Yuhang;Kang,Shichang;Shi,Zongbo;Posfai,Mihaly;Li,Weijun	10.1021/acs.estlett.0c00735
2020	ATM	Atmospheric Chemistry and Physics	Exploring wintertime regional haze in northeast China: role of coal and biomass burning, 20,9, p5355-5372	Zhang,Jian;Liu,Lei;Xu,Liang;Lin,Qiuhan;Zhao,Hujia;Wang,Zhibin;Guo,Song;Hu,Min;Liu,Dantong;Shi,Zongbo;Huang,Dao;Li,Weijun	10.5194/acp-20-5355-2020
2021	ATM	Environmental Pollution	Mechanism of Pb accumulation in Chinese cabbage leaves: Stomata and trichomes regulate foliar uptake of Pb in atmospheric PM2.5☆	Gao,Pei-Pei;Zhang,Xiao-Meng;Xue,Pei-Ying;Dong,Jun-Wen;Dong,Yan;Zhao,Quan-Li;Geng,Li-Ping;Lu,Yin;Zhao,Jian-Jun;Liu,Wen-Ju	10.1016/j.envpol.2021.118585
2004	BIOMINERALISATION	Geophysical Research Letters	Distribution of magnesium in coral skeleton, v13, L23306, 2004	Meibom,Anders;Cuif,J-P;Hillion,Francois;Constanz,Brent R.;Juillet-Leclerc,A.;Dauphin,Yannicke;Wanatabe,T.;Dunbar,Robert B.;	10.1029/2004GL021313
2005	BIOMINERALISATION	Analytical Sciences	Nano-SIMS Analysis of Mg, Sr, Ba and U in natural calcium carbonate. V.21, p1091-1097	Sano,Yuji;Shirai,Kotaro;Takahata,Naoto;Hirata,Takafumi;Sturchio, Neil C.;	10.2116/analsci.21.1091
2006	BIOMINERALISATION	Applied Surface Science	Study of the mechanism of diatom cell division by means of 29Si isotope tracing. Applied Surface Science 252 (2006) 6813–6815 (SIMS XV proceedings, 2005).	Audinot,Jean-Nicolas;Guignard,Cedric; Migeon,Henri-Noel;Hoffmann,Lucien	10.1016/j.apsusc.2006.02.115
2006	BIOMINERALISATION	Reviews views in fish biology and fisheries	Elemental distribution in cephalopod statoliths: NanoSIMS provides new insights into nano-scale structure.	Zumholz,Karsten;Hansteen,Thor;Hillion,Francois;Horreard,Francois;Piatkowski,Uwe;	10.1007/s11160-006-9036-4
2006	BIOMINERALISATION	Geochemistry Geophysics Geosystems G3	Microdistribution of Mg/Ca, Sr/Ca, and Ba/Ca ratios in Pulleniatina obliquiloculata test by using a NanoSIMS: Implication for the vital effect mechanism, Volume 7, Number 12	Kunioka,Daisuke;Shirai,Kotaro;Takahata,Naoto;Sano,Yuji;Toyofuku,Takashi;Ujiie,Yurika;	10.1029/2006GC001280
2007	BIOMINERALISATION	The Journal of Experimental Biology	Electron and ion microprobe analysis of calcium distribution and transport in coral tissues. 210, 2453-2463	Marshall,Alan T.;Clode,Peta L.;Russell,Robert;Prince,Kathryn;Stern,Richard	10.1242/jeb.003343
2007	BIOMINERALISATION	Geophysical Research Letters	Biological forcing controls the chemistry of reef-buiding coral skeleton, v34, L02601	Meibom,Anders;Mostefaoui,Smail;Cuif, Jean-Pierre;Dauphin,Yannicke;Houlbreque,Fanny;Dunbar,Robert B.;Constantz,Brent R.;	10.1029/2006GL028657
2007	BIOMINERALISATION	Geochimica et Cosmochimica Acta	Light and temperature effects on Sr/Ca and Mg/Ca ratios in the scleractinian coral Acropora sp. 71, 354–362	Reynaud,Stephanie;Ferrier-Pages,Christine;Meibom,Anders;Mostefaoui,Smail;Mortlock,Richard;Fairbanks,Richard;Allemand,Denis	10.1016/j.gca.2006.09.009
2008	BIOMINERALISATION	Analytical and Bioanalytical Chemistry	Structure and composition of the nacre–prisms transition in the shell of Pinctada margaritifera (Mollusca, Bivalvia), 390:1659–1669	Dauphin,Yannicke;Ball,Alexander D.;Cotte,Marine; Cuif,Jean-Pierre;Meibom,Anders;Salome,Murielle;Susini,Jean;Williams,C. Terry	10.1007/s00216-008-1860-z
2008	BIOMINERALISATION	Journal of Structural Biology	Intracellular precipitation of hydroxyapatite mineral and implications for pathologic calcification, 162: 468–479.	Azari,Fereshteh;Vali, Hojatollah;Guerquin-Kern,Jean-Luc;Wu,Ting-Di;Croisy,Alain;Sears,S. Kelly;Tabrizian,Maryam;McKee,Marc D.	10.1016/j.jsb.2008.03.003
2008	BIOMINERALISATION	Geochimica et Cosmochimica Acta	Compositional variations at ultra-structure length scales in coral skeleton, 1555–1569	Meibom,Anders;Cuif,Jean-Pierre;Houlbreque,Fanny;Mostefaoui,Smail;Dauphin,Yannicke;Meibom,Karin L.;Dunbar,Robert B.;	10.1016/j.gca.2008.01.009
2008	BIOMINERALISATION	Geochemical journal	Novel analytical approach to bivalve shell biogeochemistry: A case study of hydrothermal mussel shell, v 42, pp413-420	Shirai,Kotari;Takahata,Naoto; Yamamoto,Hiroyuki;Omata,Tamano;Sasaki,Takenori;Sano,Yuji	10.2343/geochemj.42.413
2008	BIOMINERALISATION	Geochimica et Cosmochimica Acta	Minor and trace element incorporation into branching coral Acropora nobilis skeleton, 72, 5386–5400	Shirai,Kotaro;Kawashima,Tatsunori;Sowa,Kohki;Watanabe,Tsuyoshi;Nakamori,Toru;Takahata,Naoto;Amakawa,Hiroshi;Sano,Yuji	10.1016/j.gca.2008.07.026
2008	BIOMINERALISATION	PNAS	Gigantism in Unique Biogenic Magnetite at the Paleocene-Eocene Thermal Maximum ,105(46):17648-17653	Schumann,Dirk ;Raub,Timothy D.;Kopp,Robert E.;Guerquin-Kern,Jean-Luc;Wu,Ting-Di;Rouiller,Isabelle;Smirnovh,Aleksey V.; Sears,S. Kelly; Lucken,Uwe;Tikoo,Sonia M.;Hesse,Reinhard;Kirschvinkc,Joseph L.;Valia,Hojatollah	10.1073/pnas.0803634105
2009	BIOMINERALISATION	Journal of Structural Biology	Dynamics of sheet nacre formation in bivalves	Rousseau,Marthe;Meibom,Anders;Geze Marc;Bourrat,Xavier;Angellier,Martine;Lopez,Evelyne	10.1029/2008GL036782
2009	BIOMINERALISATION	PNAS	The grinding tip of the sea urchin tooth exhibits exquisite control over calcite crystal orientation and Mg distribution. 6048–6053, , vol. 106, no. 15	Ma,Yurong;Aichmayer,Barbara;Paris,Oskar;Fratzl,Peter;Meibom,Anders;Metzler,Rebecca A.;Politi,Yael;Addadi,Lia;Gilbert,P. U. P. A.;Weiner,Steve	10.1073/pnas.0810300106
2009	BIOMINERALISATION	Geophysical Research Letters	Strontium-86 labeling experiments show spatially heterogeneous skeletal formation in the scleractinian coral Porites porites, Vol. 36, L04604	Houlbreque,Fanny;Meibom,Anders;Cuif,Jean-Pierre;Stolarski,Jaroslaw;Marrocchi,Yves;Ferrier-Pages,Christine;Domart-Coulon,Isabelle;Dunbar,Robert B.	10.1029/2008GL036782
2010	BIOMINERALISATION	ChemBioChem	NanoSIMS: Insights into the Organization of the Proteinaceous Scaffold within Hexactinellid Sponge Spicules, 11, 1077 – 1082	Muller,Werner E. G.;Wang,Xiaohong;Sinha,Baerbel W.;Wiens,Matthias;Schroeder,Heinz-C.;Jochum,Klaus Peter	10.1002/cbic.201000078.
2010	BIOMINERALISATION	Microscopy and Microanalysis	A Layered Structure in the Organic Envelopes of the Prismatic Layer of the Shell of the Pearl Oyster Pinctada margaritifera (Mollusca, Bivalvia), 16, 91–98, 2010	Dauphin,Yannicke;Brunelle,Alain;Cotte,Marine;Cuif,Jean-Pierre;Farre,Bastien;Laprevote,Olivier;Meibom,Anders;Salome,Murielle;Williams,C.Terry	10.1017/S1431927609991115
2010	BIOMINERALISATION	Coral Reefs	Skeletal growth, ultrastructure and composition of the azooxanthellate scleractinian coral Balanophyllia regia, 29, p175–189	Brahmi,Chloe;Meibom,Anders;Smith,D.C.;Stolarski,Jaroslaw;Auzoux-Bordenave,Stephanie;Nouet,J.;Doumen,Dominique;Djediat,Chakib;Domart-Coulon, Isabelle	10.1007/s00338-009-0557-x
2010	BIOMINERALISATION	PNAS	Desulfovibrio magneticus RS-1 contains an iron- and phosphorus-rich organelle distinct from its bulletshaped magnetosomes. PNAS, July 6, 2010, vol. 107, no. 27, pages 12263–12268.	Byrne,Meghan E.;Ball,David A.;Guerquin-Kern,Jean-Luc;Rouillere,Isabelle;Wu,Ting-Di;Downing,Kenneth H.;Vali,Hojatollah;Komeili,Arash	
2011	BIOMINERALISATION	BMC Evolutionary Biology	The ancient evolutionary origins of Scleractinia revealed by azooxanthellate corals	Stolarski,Jaroslaw;Kitahara,Marcelo V.;Miller,David J.;Cairns,Stephen D.;Mazur,Maciej;Meibom,Anders	10.1186/1471-2148-11-316
2011	BIOMINERALISATION	Journal of Structural Biology	26Mg labeling of the sea urchin regenerating spine: Insights into echinoderm biomineralization process, 176, 119–126	Gorzelak,Przemysław;Stolarski,Jarosław;Dubois, Philippe;Kopp,Christophe;Meibom,Anders	10.1016/j.jsb.2011.07.008

2011	BIOMINERALISATION	Journal of Structural Biology	Calcareous sponge biomineralization: Ultrastructural and compositional heterogeneity of spicules in Leuconia johnstoni Carter, 1871. . Journal of Structural Biology 173 (2011) 99–109.	Kopp,Christophe;Meibom,Anders;Beyssac,Olivier; Stolarski,Jarosław;Djediat,Shakib;Szlachetko,Jakub;Domart-Coulon,Isabelle	10.1016/j.jsb.2010.07.006
2012	BIOMINERALISATION	Geochimica et Cosmochimica Acta	Skeletal growth dynamics linked to trace-element composition in the scleractinian coral Pocillopora damicornis. . Geochimica et Cosmochimica Acta 99 (2012) 146–158.	Brahmi,Chloe;Kopp,Christophe,Domart-Coulon,Isabelle;Stolarski,Jarosław;Meibom,Anders	10.1016/j.gca.2012.09.031
2012	BIOMINERALISATION	Geology	Going nano: a new step towards understanding the processes governing freshwater ooid formation, 548-550	Pacton,Muriel;Ariztegui,Daniel;Wacey,David;Kilburn,Matt R.;Rollion-Bard,Claire;Farah,Redha;Vasconcelos,Crisogono	10.1130/G32846.1
2012	BIOMINERALISATION	Geochemistry Geophysics Geosystems G3	Characterizing the microstructure of Arctica islandica shells using NanoSIMS and EBSD, G3, Vol 13	Karney,Graeme B.;Butler,Paul G.;Speller,Susannah;Scourse,James D.;Richardson,Christoper A.;Schroder,Markus;Hughes,Gareth M.;Czernuszka,Jan T.;Grovenor,Chris R.M.	10.1029/2011GC003961
2012	BIOMINERALISATION	Nature communications	Past daily light cycle recorded in the strontium/calcium ratios of giant clam shells,3:761	Sano,Yuji;Kobayashi,Sayumi;Shirai,Kotaro;Takahata,Naoto;Matsumoto,Katsumi;Watanabe,Tsuyoshi;Sowa,Kohki;Iwai,Kenji	10.1038/ncomms1763
2013	BIOMINERALISATION	Biogeosciences	A new model for biomineralization and trace-element signatures of Foraminifera tests. . Biogeosciences, 10, 6759–6767, 2013. DOI	Nehrke,Gernot;Keul,Nina;Langer,Gerald;de Nooijer,Lennart;Bijma,Jelle;Meibom,Anders	10.5194/bg-10-6759-2013
2013	BIOMINERALISATION	Geobiology	Micro- to nanostructure and geochemistry of extant crinoidal echinoderm skeletons	Gorzelak,Przemyslaw;Stolarski,Jarosław;Mazur,Maciej;Meibom,Anders;	10.1111/gbi.12012
2013	BIOMINERALISATION	Microscopy and Microanalysis	Unusual Micrometric Calcite–Aragonite Interface in the Abalone Shell Haliotis (Mollusca, Gastropoda),P1-9	Dauphin,Yannicke;Cuif,Jean-Pierre;Castillo-Michel,Hiram;Chevallard,Corinne;Farre,Bastien;Meibom,Anders	10.1017/S1431927613013718
2013	BIOMINERALISATION	Geochimica et Cosmochimica Acta	Microscale neodymium distribution in sedimentary planktonic foraminiferal tests and associated mineral phases. . Geochimica et Cosmochimica Acta 100 (2013) 11–23.	Tachikawa,Kazuyo;Toyofuku,Takashi;Basile-Doelsch,Isabelle;Delhaye,Thomas	10.1016/j.gca.2012.10.010
2014	BIOMINERALISATION	Journal of Morphology	Ultrascale and Microscale Growth Dynamics of the Cidaroid Spine of Phyllacanthus imperialis Revealed by 26Mg Labeling and NanoSIMS Isotopic Imaging. Journal of Morphology 275:788–796 (2014)	Gorzelak,Przemysław;Stolarski,Jarosław;Dery,Aurelie;Dubois,Philippe;Escrig,Stephane;Meibom,Anders	10.1002/jmor.20260
2014	BIOMINERALISATION	Chemistry of Materials	Templated Biomineralization on Self-Assembled Protein Nanofibers Buried in Calcium Oxalate Raphides of Musa spp., 26, 3862−3869	Li,Xiuli;Zhang,Wenjun;Lu,Jianwei;Huang,Lixue;Nan,Defeng;Webb, Mary Alice;Hillion,Francois;Wang,Lijun	10.1021/cm501613w
2014	BIOMINERALISATION	Scientific Reports	Biomineralization mediated by anaerobic methane-consuming cell consortia,4,5696	Chen,Ying;Li,Yi-Liang;Zhou,Gen-Tao;Li,Han;Lin,Yang-Ting;Xiao,Xiang;Wang,Feng-Ping	10.1038/srep05696
2014	BIOMINERALISATION	Nature communications	Viruses as new agents of organomineralization in the geological record. . Nature Communications, 5: 4298, 3 July 2014	Pacton,Muriel;Wacey,David;Corinaldesi,Cinzia;Tangherlini,Michael; Kilburn,Matt R.;Gorin,Georges E.;Danovaro,Roberto;Vasconcelos,Crisogono	10.1038/ncomms5298
2014	BIOMINERALISATION	Journal of Structural Biology	Simultaneous extension of both basic microstructural components in scleractinian coral skeleton during night and daytime, visualized by in situ 86Sr pulse labeling, 185,79–88.	Domart-Coulon,Isabelle;Stolarski,JJarosław;Brahmi,Chloe;Gutner-Hoch,Eldad;Janiszewska,Katarzyna;Shemesh,Aldo;Meibom,Anders	/10.1016/j.jsb.2013.10.012
2015	BIOMINERALISATION	Frontiers in Microbiology	Fe biomineralization mirrors individual metabolic activity in anitrate-dependent Fe(II)-oxidizer,6 art879	Miot,Jennyfer;Remusat,Laurent;Duprat,Elodie;Gonzalez,Adriana;Pont,Sylvain;Poinsot,Melanie	10.3389/fmicb.2015.00879
2015	BIOMINERALISATION	Scientific Reports	Middle Holocene daily light cycle reconstructed from the strontium/calcium ratios of a fossil giant clam shell. Scientific Reports 5, Article number: 8734 (2015) doi	Hori,Masako;Sano,Yuji;Ishida,Akizumi;Takahata,Naoto;Shirai,Kotaro;Watanabe,Tsuyoshi	10.1038/srep08734
2016	BIOMINERALISATION	Journal of Earth Science	Secondary phosphatization of the earliest Cambrian small shelly fossil Anabarites from southern Shaanxi,v27, Issue 2, p196–203	Chen,Yali;Chu,Xuelei;Zhang,Xingliang;Zhai,Mingguo	
2016	BIOMINERALISATION	PloS One	Fine-Scale Skeletal Banding Can Distinguish Symbiotic from Asymbiotic Species among Modern and Fossil Scleractinian Corals. . Plos One, vol. 11, num. 1, p. e0147066, 2016.	Frankowiak,Katarzyna;Kret,Sławomir;Mazur, Maciej;Meibom, Anders;Kitahara,Marcelo V.;Stolarski,Jarosław	
2016	BIOMINERALISATION	Scientific Reports	Impact of high CO2 on the geochemistry of the coralline algae Lithothamnion glaciale	Ragazzola,Federica;Foster,L.C.;Jones,Christopher J.;Scott,Thomas B.;Fietzke,Jan;Kilburn,Matt R.;Schmidt,Daniela N.	10.1038/srep20572
2016	BIOMINERALISATION	Scientific Reports	Evidence for Rhythmicity Pacemaker in the Calcification Process of Scleractinian Coral	Gutner-Hoch,Eldad;Schneider,Kenneth;Stolarski,Jaroslaw;Domart-Coulon,Isabelle;Yam,Ruth;Meibom,Anders;Shemesh,Aldo;Levy,Oren	10.1038/srep20191
2016	BIOMINERALISATION	Scientific Reports	A unique coral biomineralization pattern has resisted 40 million years of major ocean chemistry change. 10,11	Stolarski,Jarosław;Bosellini,Francesca R.;Wallace,Carden C.;Gothmann,Anne M.;Mazur,Maciej;Domart-Coulon,Isabelle;Gutner-Hoch,Eldad;Neuser,Rolf D.;Levy,Oren;Shemesh,Aldo;Meibom,Anders	10.1038/srep27579
2017	BIOMINERALISATION	Current Biology	Nanoscale Visualization of Biomineral Formation in Coral Proto-Polyps, 27, 1–6	Mass,Tali;Drake,Jeana L.;Heddleston,John M.;Falkowski,Paul G.;	10.1016/j.cub.2017.09.012
2017	BIOMINERALISATION	Marine Micropaleontology	Innovative TEM-coupled approaches to study foraminiferal cells	Nomaki,Hidetaka;LeKieffre,Charlotte;Escrig,Stephane;Meibom,Anders;Yagyu,Shinsuke;Richardson,Elizabeth A.;Matsuzaki,Takuya;Murayama,Masafumi;Geslin,Emmanuelle;Bernhard,Joan M.;	10.1016/j.marmicro.2017.10.002
2017	BIOMINERALISATION	Nature communications	Burial-induced oxygen-isotope re-equilibration of fossil foraminifera explains ocean paleotemperature paradoxes, 8: 1134	Bernard,Sylvain;Daval,D.;Ackerer,P.;Pont,Sylvain;Meibom,Anders	10.1038/s41467-017-01225-9
2017	BIOMINERALISATION	Nature communications	Link between light-triggered Mg-banding and chamber formation in the planktic foraminifera Neogloboquadrina dutertrei, 8:15441	Fehrenbacher,Jennifer S.;Russell,Ann D.;Davis,Catherine V.;Gagnon,Alexander C.;Spero,Howard J.;Cliff,John B.;Zhu,Zihua;Martin,Pamela	10.1038/ncomms15441
2017	BIOMINERALISATION	Geobiology	Intracellular amorphous carbonates uncover a new biomineralization process in eukaryotes, v15, Issue2, p240–253,	Martignier,Agathe;Pacton,M.;Filella, M.;Jaquet, J.-M.;Barja, F.;Pollok, K.;Langenhorst, F.;Lavigne, S.;Guagliardo,Paul;Kilburn,Matt R.;Thomas,C.;Martini,R.;Ariztegui,D.;	
2017	BIOMINERALISATION	Geobiology	Carbonate ooids of the Mesoarchaean Pongola Supergroup, South Africa, 1-17	Siahi,Mehrnaz;Hofmann,A.;Master,S.;Mueller,Carsten.W.;Gerdes,Axel;	
2017	BIOMINERALISATION	Geology	Aragonitic scleractinian corals in the Cretaceous calcitic sea	Janiszewska,Katarzyna;Mazur,Maciej;Escrig,Stephane;Meibom,Anders;Stolarski,Jarosław	10.1130/G38593.1
2017	BIOMINERALISATION	Geochimica et Cosmochimica Acta	Minute co-variations of Sr/Ca ratios and microstructures in the aragonitic shell of Cerastoderma edule (Bivalvia) – Are geochemical variations at the ultra-scale masking potential environmental signals?, v205, Pages 256–271.	Fullenbach,Christoph S.;Schöne,Bernd R.;Shirai,Kotaro;Takahata,Naoto;Ishida,Akizumi;Sano,Yuji	10.1016/j.gca.2017.02.019
2018	BIOMINERALISATION	Marine Micropaleontology	Chamber formation and trace element distribution in the calcite walls of laboratory cultured planktonic foraminifera (Globigerina bulloides and Globigerinoides ruber), v140, p46-55	Hori,Masako;Shirai,Kotaro;Kimoto,Katsunori;Kurasawa,Atsushi;Takagi,Haruka;Ishida,Akizumi;Takahata,Naoto;Sano,Yuji;	10.1016/j.marmicro.2017.12.004
2018	BIOMINERALISATION	Crystal Growth and Design	Occluded Organic Nanofibers Template the Hierarchical Organization of Nanosized Particles in Calcium Oxalate Raphides of Musa spp. . Cryst. CRYSTAL GROWTH & DESIGN., 2018, 18 (2), pp 1155–1161. DOI: 10.1021/acs.cgd.7b01578. Publication Date (Web): December 19, 2017	Zhang,Wenjun;Chi,Jialin;Ma,Lijun;Wang,Lijun	10.1021/acs.cgd.7b01578
2018	BIOMINERALISATION	Chemical Geology	Incorporation and subsequent diagenetic alteration of sulfur in Arctica islandica. . v 482, p72-90	Fichtner,Vanessa;Strauss,Harald;Mavromatis,Vasileios;Dietzel,Martin;Huthwelker,Thomas;Borca,Camelia N.;Guagliardo,Paul;Kilburn,Matt R.;Göttlicher,Jörg;Pederson,Chelsea L.;Griesshaber,Erika;Schmahl, Wolfgang W.;Immenhauser,Adrian	10.1016/j.chemgeo.2018.01.035
2018	BIOMINERALISATION	Rapid Communications in Mass Spectrometry	Assimilation of nitrogen and carbon isotopes from fish diets to otoliths as measured by nanoscale secondary ion mass spectrometry, 32:1250–1256	Shiao,Jen Chieh;Shirai,Kotaro;Tanaka,Kentaro;Takahata,Naoto;Sano,Yuji;Sung Yun Hsiao,Silver;Lee,Der Chuen;Tseng,Yung Che;	10.1002/rcm.8171
2018	BIOMINERALISATION	Journal of Plankton Research	Growth and formation of statoliths in Aurelia coerulea examined by using 34S- and Sr-labels, fby034	Toyokawa,Masaya;Shirai,Kotaro;Takahata,Naoto;Ishida,Akizumi;Sano,Yuji;	10.1093/plankt/fby034
2019	BIOMINERALISATION	Scientific Reports	Architecture of Anoteropora latirostris (Bryozoa, Cheilostomata) and implications for their biomineralization,V9, 11439	Jacob,Dorrit E.;Ruthensteiner,Bernhard;Trimby,Patrick;Henry,H;Martha,Silviu O.;Leitner,Jan;Otter,Laura M.;Scholz,J;	10.1038/s41598-019-47848-4
2019	BIOMINERALISATION	Frontiers in earth science. Biogeoscience.	Endolithic Algae Affect Modern Coral Carbonate Morphology and Chemistry	Krause,Stefan;Liebetrau,Volker;Nehrke,Gernot;Damm,Timo;Busse,Sebastian;Leipe,Thomas;Vogts,Angela;Gorb,Stanislav N.;Eisenhauer,Anton	10.3389/feart.2019.00304
2019	BIOMINERALISATION	Frontiers in Earth Science. Biogeoscience	Chemical heterogeneity of Mg, Mn, Na, S and Sr in benthic foraminiferal calcite	VanDijk,Inge;Mouret,Aurelia;Cotte,Marine;LeHouedec,Sandrine;Reichart,Gert-Jan;Reyes-Herrera,Juan;Filipsson,Helena L.;Barras,Christine	10.3389/feart.2019.00281
2019	BIOMINERALISATION	Frontiers in Earth Science. Biogeoscience	Organic heterogeneities in foraminiferal calcite traced through the distribution of N, S and I measured with NanoSIMS: A new challenge for element ratio based paleo-proxies ?	Glock,Nicolaas;Liebetrau,Volker;Vogts,Angela;Eisenhauer,Anton;	10.3389/feart.2019.00175
2019	BIOMINERALISATION	Earth and Planetary Science Letters	Post-depositional overprinting of chromium in foraminifera, v515,P100-111	Remmelzwaal,Serginio R.C.;Sadekov,Aleksey Yu.;Parkinson,Ian J.;Schmidt,Daniela N.;Titelboim,Danna;Abramovich,Sigal;Roepert,Anne;Kienhuis,Michiel;Polerecky,Lubos;Goring-Harford,Heather;Kimoto,Katsunori;Allen,Katherine A.;Holland,Kate;Stewart,Joseph A.;Middelburg,Jack J.;	10.1016/j.epsl.2019.03.001
2019	BIOMINERALISATION	Scientific Reports	Element banding and organic linings within chamber walls of two benthic foraminifera, V9, 3598	Geerken,Esmee;de Nooijer,Lennart J.;Roepert,Anne;Polerecky,Lubos;King,Helen E.;Reichart,Gert-Jan;	10.1038/s41598-019-40298-y
2019	BIOMINERALISATION	PNAS	The making of natural iron sulfide nanoparticles in a hot vent snail	Okada,Satoshi;Chen,Chong;Watsuji,Tomo-o;Nishizawa,Manabu;Suzuki,Yohey;Sano,Yuji;Bissessur,Dass;Deguchi,Shigeru;Takai,Ken;	10.1073/pnas.1908533116
2019	BIOMINERALISATION	Biogeosciences	Insights into architecture, growth dynamics, and biomineralizationfrom pulsed Sr-labelled Katelysia rhytiphorashells(Mollusca, Bivalvia), 16, 3439–3455, 2019. doi.org/	Otter,Laura M.;Agbaje,Oluwatoosin B.A.;Kilburn,Matt R.;Lenz,Christoph;Henry,Hadrien;Trimby,Patrick;Hoppe,Peter;Jacob,Dorrit E.	10.5194/bg-16-3439-2019
2020	BIOMINERALISATION	PNAS	Extreme weather events recorded by daily to hourly resolution biogeochemical proxies of marine giant clam shells	Yan,Hong;Liu,Chengcheng;An,Zhisheng;Yang,Wei;Yang,Yuanjian;Huang,Ping;Qiu,Shican;Zhou,Pengchao;Zhao,Nanyu;Fei,Haobai;Ma,Xiaolin;Shi,Ge;Dodson,John;Hao,Jialong;Yu,Kefu;Wei,Gangjian;Yang,Yanan;Jin,Zhangdong;Zhou,Weijian	10.1073/pnas.1916784117
2021	BIOMINERALISATION	Marine Chemistry	Imaging of organic signals in individual fossil diatom frustules with nanoSIMS and Raman spectroscopy, 103906	Akse,ShaunP.;Das,Gobind;Agusti,Susana;Pichevin,Laetitia;Polerecky,Lubos;Middelburg,Jack J.;	10.1016/j.marchem.2020.103906
2021	BIOMINERALISATION	Biogeosciences	Distribution of chlorine and fluorine in benthic foraminifera. . Biogeosciences, 17, 4727–4743, 2020 doi.org/	Roepert,Anne;Polerecky,Lubos;Geerken,Esmee;Reichart,Gert-Jan;Middelburg,Jack J.;	10.5194/bg-17-4727-2020
2021	BIOMINERALISATION	Scientific Reports	Infuence of normal tide and theGreat Tsunami as recorded through hourly resolution micro analysis of a mussel shell	Sano,Yuji;Okumura,Tomoyo;Murakami Sugihara,Naoko;Tanaka,Kentaro;Kagoshima,Takanori;Ishida,Akizumi;Hori,Masako;Snyder,GlenT.;Takahata,Naoto;Shirai,Kotaro	10.1038/s41598-021-99361-2
2021	BIOMINERALISATION	Ecological Indicators	Novel methods of resolving daily growth patterns in giant clam (Tridacna spp.) shells	Liu,Chengcheng;Zhao,Liqiang;Zhao,Nanyu;Yang,Wei;Hao,Jialong;Qu,Xiaoli;Liu,Shan;Dodson,John;Yan,Hong;	10.1016/j.ecolind.2021.108480

2021	BIOMINERALISATION	Geochimica et Cosmochimica Acta	High precipitation rates characterize biomineralization in the benthic foraminifer *Ammonia beccarii*	Geerken,Esmee;deNooijer,Lennart;Toyofuku,Takashi;Roepert,Anne;Middelburg,JackJ.;Kienhuis,Michiel V. M.;Nagai,Yukiko;Polerecky,Lubos;Reichar,Gert-Jan	10.1016/j.gca.2021.11.026
2021	BIOMINERALISATION	PNAS	Heat stress destabilizes symbiotic nutrient cycling in corals,V118,No.5,e202265311	Radecker,Nils;Pogoreutz,Claudia;Gegner,Hagen M. Cardenas,Anny;Roth,Florian;Bougoure,Jeremy J.;Guagliardo,Paul;Wild,Christian;Pernice,Mathieu;Raina,Jean-Baptiste;Meibom,Anders;Voolstra,Christian R.;	10.1073/pnas.2022653118
2022	BIOMINERALISATION	Geochemical Perspective	Magnetic foraminifera thrive in the Mariana Trenc	Yang,H. ;Peng,X.;Gooday,A.J.;Jones,B.;Li,J.;Liu,S.;Huang,W.;Sun,Z.;Chen, S.;Dasgupta,S.;Xu,H.;Liu,S.;Xu,W.;Ta,K.;	10.7185/geochemlet.2212
2022	BIOMINERALISATION	Geochimica and Cosmochimica Acta	The influence of sediment diagenesis and aluminium on oxygen isotope exchange of diatom frustules	Akse,ShaunP.;Polerecky,Lubos;Kienhuis,Michiel V.M.;Middleburg,Jack J.;	10.1016/j.gca.2022.07.015
2023	BIOMINERALISATION	Nature Communications	Coral endosymbiont growth is enhanced by metabolic interactions with bacteria	Mattews,JenniferL.;Khalil,Abeeha;Siboni,Nachshon;Bougoure,Jeremy;Guagliardo,Paul;Kuzhiumparambil,Unnikrishnan;DeMaere,Matthew;LeReun,NineM.;Seymour,JustinR.;Suggett,David J.;Raina,Jean-Baptiste;	10.1038/s41467-023-42663-y
2023	BIOMINERALISATION	Scientific Reports	Correlative chemical and elemental nano-imaging of morphology and disorder at the nacre-prismatic region interface in *Pinctada margaritifera*	OCallahan,BrianT.;Larsen,Amy;Leichty,Sarah;Cliff,John;Gagnon,AlexC.;Raschke,Markus B.;	10.1038/s41598-023-47446-5
2024	BIOMINERALISATION	Coral Reefs	Potential environment effect on ultrahigh resolution Sr/Ca of giant clam shells from South China Sea	Liu, Chengcheng;Yan, Hong;Zhao, Liqiang;Zhao, Nanyu;Luo, Fan;Wen, Hanfeng;Yang, Haotian;Yang, Wei;Hao, Jialong;Liang, Chengde;Tanaka, Kentaro;Murakami-Sugihara, Naoko;Shirai, Kotaro;Takahata, Naoto;Dodson, John;Schöne, Bernd R.;	10.1007/s00338-024-02555-z
2024	BIOMINERALISATION	Palaeogeography, Palaeoclimatology, Palaeoecology	Integrating high-resolution Sr/Ca and ultrastructural analyses of the *Tridacna squamosa* shell to reconstruct sub-daily seawater temperature variation	Brosset,Cornelia;Liu,Chengcheng;Yang,Haotian;Yan,Hong;Schine, BerndR.;	10.1016/j.palaeo.2024.112663
2024	BIOMINERALISATION	Geochimica et Cosmochimica Acta	Phosphate uptake is an essential process for rapid bone mineralization during early diagenesis – Evidence from bone alteration experiments	Kral,Anna G.;Geisler,Thorsten;Wiedenbeck,Michael:Guagliardo,Paul;Tutken, Thomas;	10.1016/j.gca.2024.04.004
2025	BIOMINERALISATION	Scientific Reports	Rapid isotopic exchange in mineralogically unaltered coral skeletons	Stolarski,Jaroslaw;Cisneros-Lazaro,Deyanira;Adams,Arthur;Janiszewska,Katarzyna;Meibom,Anders;	10.1038/s41598-025-06327-9
2025	BIOMINERALISATION	Geochimica and Cosmochimica Acta	Coprecipitation of phosphate with calcite: Molecular-scale evidence for incorporation and inclusion mechanisms	Ren,Chao;Li,Yongfang;Wang,Shaofeng;Wang, Jingzhao;Ji,Junfeng;Teng,HenryH.:Phillips,BrianL.;Kwon,KideokD.; Li,Wei;	10.1016/j.gca.2025.04.032
2025	BIOMINERALISATION	Geochimica et Cosmochimica Acta	NanoSIMS mapping of skeletal organic matrix relative to aragonite formation in a scleractinian cold-water coral	Gothmann,A.M.;Daniel, J.;Chan,Y.;Diaz, P.;Cliff, J.B.;Polerecky, L.;Granger, J.;Mottram, J.L.;Prokopenko, M.; Vock, L.Boehm;Logan, A.; Mersy, N.;Smith, T.;Stolarski, J.;	
2026	BIOMINERALISATION	Geoscience Frontiers	The daily growth band patterns of Tridacna derasa – Evidence from culture experiments	Yang,Haotian;Liu,Chengcheng;Yang,Yanan;Liu,Shan;Wang,Guozhen;Li,Jun;Zhou,Pengchao;Wen,Hanfeng;Dodson,John;Li,Xuxiang; Yan,Hong;	10.1016/j.gsf.2026.102265
2026	BIOMINERALISATION	EGUSphere	Tracking sulfate, magnesium, phosphorus and amorphous phases inRosalina-like benthic foraminifera	Paris,Guillaume;Thaler,Caroline;Dellinger,Marc;Aleon,Jerome;Mostefaoui,Smail;Aleon-Toppani,Alice;Rollion-Bard,Claire;Troadec,David;Wyang,GuillaumeYangshu;Bartolini,Annachiara;	10.5194/egusphere-2026-1505
2026	BIOMINERALISATION	Scientific Reports	Sodium and potassium analysis of individual coccoliths by secondary ion mass spectrometry	Roepert,Anne;Middelburg,JackJ.;Weiss,GabriellaM.;vanderMeer,MarceliT.J ;Polerecky,Lubos;	
2004	CELL	Journal of the American Society for Mass Spectrometry	Measure of carbon and nitrogen stable isotope ratios in cultured cells, 15: 478–485	Peteranderl,Ralph;Lechene,Claude P.;	
2004	CELL	Journal of the American Society for Mass Spectrometry	Transport of 13C-oleate in adipocytes measured using multi imaging mass spectrometry	Kleinfeld,Alan M.;Kampf,J. Patrick; Lechene,Claude P.;	10.1016/j.jasms.2004.07.010
2005	CELL	Biophysical Journal	Supported membrane composition analysis by SIMS with high lateral resolution, V88,p2695-2975	Marxer,Carine Galli;Kraft,Mary L.;Weber,Peter K.;Hutcheon,Ian D.;Boxer,Steven G.	10.1529/biophysj.104.057257
2005	CELL	Biochimica et Biophysica Acta	Progress in analytical imaging of the cell by secondary ion mass spectrometry (SIMS microscopy). . 1724 , 228 – 238	Guerquin-Kern,Jean-Luc;Wu,Ting-Di;Quintana,Carmen;Croisy,Alain	10.1016/j.bbagen.2005.05.013
2006	CELL	Journal of Biology	High-resolution quantitative imaging of mammalian and bacterial cells using stable isotope mass spectrometry,v5,20	Lechene,Claude P.;Hillion,Francois;McMahon,Greg;Benson,Douglas;Kleinfeld,Alan M.;Kampf,J. Patrick;Distel,Daniel;Luyten,Yvette;Bonventre,Joseph;Hentschel,Dirk;Park,Kwon Moo;Ito,Susumu;Schwartz,Martin;Benichou,Gilles;Slodzian,Georges;	10.1186/jbiol42
2006	CELL	Applied Surface Science	Quantitative analysis of supported membrane composition using the NanoSIMS, 252: 6950-6956.	Kraft,Mary L.;Foster Fishel,Simon;Galli Marxer,Carine; Weber,Peter K.;Hutcheon,Ian D.;Boxer,Steven G.	10.1016/j.apsusc.2006.02.116
2006	CELL	Journal of Structural Biology	Study of the localization of iron, ferritin and hemosiderin in Alzheimer's disease hippocampus by analytical microscopy at the subcellular level. . Journal of Structural Biology 153, 2006	Quintana,Carmen;Bellefqih,S.;Laval,J.Y.;Guerquin-Kern,Jean-Luc;Wu,Ting-Di;Avila,J.;Ferrer,I.;Arranz,R.;Patino,C.	10.1016/j.jsb.2005.11.001
2006	CELL	Science	Phase separation of lipid membranes analyzed with high-resolution Secondary Ion Mass Spectrometry. Science 313 , 2006 (5795): 1948-1951	Kraft,Mary L.;Weber,Peter K.;Longo,M.L.;Hutcheon,Ian D.;Boxer,Steven G.	10.1126/science.1130279
2007	CELL	Microscopy Research and Technique	Subcellular imaging of isotopically labeled carbon compounds in a biological sample by ion microprobe (NanoSIMS), 70: 220-229	Clode,Peta L.;Stern,Richard A.;Marshall,Alan T.	10.1002/jemt.20409
2007	CELL	Microscopy Research and Technique	Morphological and chemical studies of pathological human and mice brain at the subcellular level: Correlation between light, electron, and nanosims microscopies	Quintana,Carmen;Wu,Ting-Di;Delatour,Benoit;Dhenain,Marc;Guerquin-Kern,Jean-Luc;Croisy,Alain	10.1002/jemt.20403
2008	CELL	Lancet	A man who brought the war home with him. Lancet, 2008, 372: 1926	Ballardie,Francis;Cowley,Richard;Cox,Alan;Denley,Helen;Denton,John;Dick,Jeremy;Guerquin-Kern,Jean-Luc;Redmond,Anthony	
2009	CELL	Journal of neurochemistry	HO-1-mediated macroautophagy: a mechanism for unregulated iron deposition in aging and degenerating neural tissues, 109, 776-791.	Zukor,Hillel;Song,Wei;Liberman,Adrienne;Mui,Jeannie;Vali,Hojatollah;Fillebeen,Carine;Pantopoulos,Kostas;Wu,Ting-Di;Guerquin-Kern,Jean-Luc;Schipper,Hyman M.	
2009	CELL	American Journal of Physiology-Endocrinology and Metabolism	Role of caveolin-1 in thyroid phenotype, cell homeostasis, and hormonesynthesis: in vivo study of caveolin-1 knockout mice	Senou,Maximin;Costa,Maria Jose;Massart,Claude;Thimmesch,Matthieu;Khalifa,Celine;Poncin,Sylvie;Boucquey,Marie;Gerard,Anne-Catherine;Audinot,Jean-Nicolas;Dessy,Chantal;Ruf,Jean;Feron,Olivier;Devuyst,Olivier;Guiot,Yves;Dumont,Jacques Emile;VanSande,Jacqueline;Many,Marie-Christine	10.1152/ajpendo.90784.2008
2011	CELL	Analytical Chemistry	Combed single DNA molecules imaged by secondary ion mass spectrometry. . Analytical Chemistry (2011) 83,6940-6947.	Cabin-Flaman,Armelle;Monnier,Anne-Francoise;Coffinier,Yannick;Audinot,Jean-Nicolas;Gibouin,David;Wirtz,Tom;Boukherroub,Rabah;Migeon,Henri-Noel;Bensimon,Aaron;Janniere,Laurent;Ripoll,Camille;Norris,Vic	
2011	CELL	Biochimica et Biophysica Acta	Correlated AFM and NanoSIMS imaging to probe cholesterol-induced changes in phase behavior and non-ideal mixing in ternary lipid membranes , Biochimica et Biophysica Acta . biomembranes. 1808 (2011) 307–315.	Anderton,Christopher R.;Lou,Kaiyan;Weber,Peter K.;Hutcheon,Ian D.;Kraft,Mary L.	10.1016/j.bbamem.2010.09.016
2011	CELL	Arch Ophthalmol	Aceruloplasminemia: Retinal Histopathologic Manifestations and Iron-Mediated Melanosome Degradation, 129(11):1466-1474	Wolkow,Natalie;Song,Ying;Wu,Ting-Di;Qian,Jiang;Guerquin-Kern,Jean-Luc;Dunaief,Joshua L.	10.1001/archophthalmol.2011.309
2012	CELL	Nature	Mammalian heart renewal by pre-existing cardiomyocytes	Senyo,Samuel E.;Steinhauser,Matthew L.;Pizzimenti,Christie L.;Yang,Vicky. K.;Cai,Lei;Wang,Mei;Wu,Ting-Di;Guerquin-Kern,Jean-Luc;Lechene,Claude P.;Lee,Richard T.;	10.1038/nature11682
2012	CELL	Nature	Multi-isotope imaging mass spectrometry quantifies stem cell division and metabolism	Steinhauser,Matthew L.;Bailey,Andrew P.;Senyo,Samuel E.;Guillermier,Christelle;Perlstein,Todd S.;Gould,Alex P.;Lee,Richard T.;Lechene,Claude P.;	10.1038/nature10734
2012	CELL	Nature	Multi-isotope imaging mass spectrometry reveals slow protein turnover in hair-cell stereocilia, v481	Zhang,Duan-Sun;Piazza,Valeria;Perrin,Benjamin J.;Rzadzinska,Agnieszka K.;Poczatek,J. Collin;Wang,Mei;Prosser,Haydn M.;Ervasti,James M.;Corey,David P.;Lechene,Claude P.;	10.1038/nature10745
2012	CELL	Journal of Neuroscience Research	Early in vivo changes in calcium ions, oxidative stress markers, and ion channel immunoreactivity following partial injury to the optic nerve, 90(3):606-18	Wells,Jonathan;Kilburn,Matt R.;Shaw,Jeremy A.;Bartlett,Carole A.;Harvey,Alan R.;Dunlop,Sarah A.;Fitzgerald,Melinda	
2012	CELL	Journal of neurochemistry	Unregulated brain iron deposition in transgenic mice overexpressing HMOX1 in the astrocytic compartment, 123, 325-336.	Song,Wei;Zukor,Hillel;Lin,Shih-Hsiung;Liberman,Adrienne;Tavitian,Ayda;Mui,Jeannie;Vali,Hojatollah;Fillebeen,Carine;Pantopoulos,Kostas;Wu,Ting-Di;Guerquin-Kern,Jean-Luc;Schipper,Hyman M.	10.1111/j.1471-4159.2012.07914.x
2012	CELL	Bioconjugate Chemistry	Fluorinated colloidal gold immunolabels for imaging select proteins in parallel with lipids using high-resolution secondary ion mass spectrometry, Bioconjugate Chemistry 23:450–460	Wilson,Robert L.;Frisz,Jessica F.;Hanafin,William P.;Carpenter,Kevin J.;Hutcheon,Ian D.;Weber,Peter K.;Kraft,Mary L.	10.1021/bc200482z
2013	CELL	PNAS	Direct chemical evidence for sphingolipid domains in the plasma membranes of fibroblasts	Frisz,Jessica F.;Loua,Kaiyan; Klitzing,Haley A.;Hanafin,William P.;Lizunov,Vladimir;Wilson,Robert L.;Carpenter,Kevin J.;Kima,Raehyun;Hutcheon,Ian D.;Zimmerberg,Joshua;Weber,Peter K.;Kraft,Mary L.	10.1073/pnas.1216585110
2013	CELL	PNAS	Nanoscale imaging reveals laterally expanding antimicrobial pores in lipid bilayers. PNAS, May 28, 2013, vol. 110, no. 22	Rakowska,Paulina D.;Jiang,Haibo;Ray,Santanu;Pyne,Alice;Lamarre,Baptiste;Carr,Mathew;Judge,Peter J.;Ravi,Jascindra;Gerling,Ulla I. M.;Koksch,Beate;Martyna,Glenn J.;Hoogenboom,Bart W.;Watts,Anthony;Crain,Jason;Grovenor,Chris R. M.;Ryadnov,Maxim G.	10.1073/pnas.1222824110
2013	CELL	Journal of the American Chemical Society	Colocalization of the Ganglioside GM1 and Cholesterol Detected by Secondary Ion Mass Spectrometry. . Journal of the American Chemical Society, 2013, 135, 5620−5630	Lozano,Monica M.;Liu,Zhao;Sunnick,Eva Janshoff,Andreas;Kumar,Krishna;Boxer,Steven G.	
2013	CELL	PLoS One	50nm-Scale Localization of Single Unmodified,Isotopically Enriched, Proteins in Cells., Volume 8, Issue 2, e56559	Delaune,Anthony;Cabin-Flaman,A.:Legent,G.;Gibouin,D.;Smet-Nocca,C.;Lefebvre,F.;Benecke,A.;Vasse,M.;Ripoll,Camille	
2013	CELL	Mater Res Soc Symp Proc.	Advanced Characterization Techniques for Nanoparticles for Cancer Research: Applications of SEM and NanoSIMS for Locating Au Nanoparticles in Cells	Kempen,PaulJ.;Hitzman,Chuck;Sasportas,LauraS.;Gambhir,Sanjiv S.;Sinclair,Robert;	
2013	CELL	Journal of Biological Chemistry	Sphingolipid Domains in the Plasma Membranes of Fibroblasts are Not Enriched with Cholesterol, 288, 16855-16861	Frisz,Jessica F.;Klitzing,Haley A.;Lou,Kaiyan;Hutcheon,Ian D.;Weber,Peter K.;Zimmerberg,Joshua;Kraft,Mary L.	10.1074/jbc.M113.473207

2013	CELL	Metallomics	Changes in subtypes of Ca microdomains following partial injury to the central nervous system. . Metallomics, 2014,6, 455-464	Lozic,Ivan;Bartlett,Carole A.;Shaw,Jeremy A.;Iyer,K. Swaminathan;Dunlop,Sarah A.;Kilburn,Matt R.;Fitzgerald,Melinda	10.1039/c3mt00336a
2014	CELL	Surface and Interface Analysis	Quantitative imaging of inositol distribution in yeast using multi-isotope imaging mass spectrometry (MIMS). V46, Issue S1	Saiardi,Adolfo;Guillermier,Christelle;Loss,O.;Poczatek,J.Collin; Lechene,Claude P.;	10.1002/sia.5659
2014	CELL	Cell Metabolism	The GPIHBP1–LPL Complex Is Responsible for the Margination of Triglyceride-Rich Lipoproteins in Capillaries, 19, 849–860	Goulbourne,Chris N.;Gin,Peter;Tatar,Angelica;Nobumori,Chika;Hoenger,Andreas;,Jiang,Haibo;Grovenor,Chris R.M. Adeyo,Oludotun;Esko,Jeffrey D.;Goldberg,Ira J.;Reue,Karen;Tontonoz,Peter;Bensadoun,Andre;Beigneux,Anne P.;Young,Stephen G.;Fong,Loren G.	10.1016/j.cmet.2014.01.017
2014	CELL	Cell Metabolism	Loss of White Adipose Hyperplastic Potential Is Associated with Enhanced Susceptibility to Insulin Resistance, V20, Issue 6,p1049–1058	Kim,Soo M.;Lun,Mingyue;Wang,Mei;Senyo,Samuel E.;Guillermier,Christelle;Patwari,Parth;Steinhauser,Matthew L.;	10.1016/j.cmet.2014.10.010
2014	CELL	NatureCommunications	Correlated optical and isotopic nanoscopy	Saka,Sinem K.;Vogts,Angela;Krohnert,Katharina;Hillion,Francois;Rizzoli,Silvio O.;Wessels,Johannes T.	10.1038/ncomms4664
2014	CELL	Methods	Stable isotope imaging of biological samples with high resolution secondary ion mass spectrometry and complementary techniques. Methods 68 (2014) 317–324	Jiang,Haibo;Favaro,E.;Goulbourne,C.N.;Rakowska,P.D.;Hughes,G. M.;Ryadnov,M.G.;Fong,Loren G.;Young,S.G.,Ferguson,D.J.P.;Harris,A.L.;Grovenor,Chris R.M.	
2014	CELL	Nucleic Acids Research	Free mRNA in excess upon polysome dissociation is a scaffold for protein multimerization to form stress granules,42(13):8678-91.	Bounedjah,Ouissame;Desforges,Benedicte;Wu,Ting-Di;Pioche-Durieu,Catherine;Marco,Sergio;Hamon,Loic;Curmi,Patrick A.;Guerquin-Kern,Jean-Luc;Pietrement,Olivier;Pastre,David	10.1093/nar/gku582
2014	CELL	Nature Medicine	Multiplexed ion beam imaging of human breast tumors	Angelo,Michael;Bendall,Sean C.;Finck,Rachel;Hale,Matthew B.;Hitzman,Chuck;Borowsky,Alexander D.;Levenson,Richard M.; Lowe,John B.; Liu,Scot D.;Zhao,Shuchun;Natkunam,Yasodha;Nolan,Garry P.	10.1038/nm.3488
2014	CELL	Journal of Lipid Research	High-resolution imaging of dietary lipids in cells and tissues by NanoSIMS analysis. . Journal of Lipid Research Volume 55, 2014	Jiang,Haibo;Goulbourne,Chris N.;Tatar,Angelica;Turlo,Kirsten;Wu,Daniel;Beigneux,Anne P.;Grovenor,Chris R. M.;Fong,Loren G.;Young,Stephen G.	10.1194/jlr.M053363
2014	CELL	PLoS One	Probing the Subcellular Localization of Hopanoid Lipids in Bacteria Using NanoSIMS.	Doughty,David M.;Dieterle,Michael;Sessions,Alex L.;Fischer,Woodward W.;Newman,Dianne K.	10.1371/journal.pone.0084455
2014	CELL	PLoS One	Most Human Proteins Made in Both Nucleus and Cytoplasm Turn Over within Minutes, V9, Issue 6	Baboo,Sabyasachi;Bhushan,Bhaskar;Jiang,Haibo;Grovenor,Chris R. M.;Pierre,Philippe;Davis,Benjamin G.;Cook,Peter R.	10.1371/journal.pone.0099346
2014	CELL	Surface and Interface Analysis	Detection of immunolabels with multi-isotope imaging mass spectrometry. . Surface and Interface Analysis Volume 46, Issue S1, pages 147–149, November 2014. Article first published online: 22 JUN 2014. DOI: 10.1002/sia.5596	Thiery-Lavenant,Gwendoline;Guillermier,Christelle;Wang,Mei;Lechene,Claude P.;	10.1002/sia.5596
2014	CELL	Surface and Interface Analysis	Study of protein and RNA in dendritic spines using multi-isotope imaging mass spectrometry, V46, Issue S1, pages 158–160	Brismar,Hjalmar;Aperia,Anita;Westin,Lars;Moy,J.;Wang,Mei;Guillermier,Christelle;Poczatek,J. Collin;Lechene,Claude P.;	10.1002/sia.5617
2014	CELL	Surface and Interface Analysis	Quantitative imaging of selenoprotein with multi-isotope imaging mass spectrometry (MIMS). Surface and Interface Analysis, V46, S1, p154–157	Tang,Shiow-Shih;Guillermier,Christelle;Wang,Mei;Poczatek,Joseph Collin;Suzuki,Noriyuki;Loscalzo,Joseph;Lechene,Claude P.;	10.1002/sia.5625
2014	CELL	Surface and Interface Analysis	Approaches to increasing analytical throughput of human samples with multi-isotope imaging mass spectrometry, V 46,S1, p165-168	Steinhauser,Matthew L.;Guillermier,Christelle;Wang,Mei;Lechene,Claude P.;	10.1002/sia.5580
2014	CELL	Surface and Interface Analysis	Brain stem cell division and maintenance studied using multi-isotope imaging mass spectrometry (MIMS). Surface and Interface Analysis, V46, Issue S1, p140–143	Enikolopov,Grigori;Guillermier,Christelle;Wang,Mei;Trakimas,Louise;Steinhauser,Matthew L.;Lechene,Claude P.;	10.1002/sia.5675
2014	CELL	Surface and Interface Analysis	Effect of an antidepressant on mouse hippocampus protein turnover analyzed by MIMS, V46, S1, p144–146	Filiou,Michael D.;Moy,J.;Wang,Mei;Guillermier,Christelle;Poczatek,J.Collin.;Turck, C.W.;Lechene,Claude P.;	10.1002/sia.5616
2014	CELL	Surface and Interface Analysis	Quantifying cell division with deuterated water and multi-isotope imaging mass spectrometry (MIMS), v46, Issue S1, p161–164	Steinhauser,Matthew L.;Guillermier,Christelle;Wang,Mei;Lechene,Claude P.;	10.1002/sia.5581
2015	CELL	Biophysical journal	Hemagglutinin Clusters in the Plasma Membrane Are Not Enriched with Cholesterol and Sphingolipids	Wilson,Robert L.;Frisz,Jessica F.;Klitzing,Haley A.;Zimmerberg,Joshua;Weber,Peter K.;Kraft,Mary L.	0006-3495/15/04/1652/8
2015	CELL	Cell	Antioxidant Role for Lipid Droplets in a Stem Cell Niche of Drosophila, 163, 340–353	Bailey,Andrew P.;Koster,Grielof;Guillermier,Christelle;Hirst,Elizabeth M.A.;MacRae,James I.;Lechene,Claude P.;Postle,Anthony D.;Gould,Alex P.;	10.1016/j.cell.2015.09.020
2015	CELL	Cell	No Evidence for Cardiomyocyte Number Expansion in Preadolescent Mice,v163, Issue 4, p1026–1036	Alkass,Kanar;Panula,Joni;Westman,Mattias;Wu,Ting-Di;Guerquin-Kern,Jean-Luc;Bergmann,Olaf	10.1016/j.cell.2015.10.035
2015	CELL	Angewandte Chemie International Edition in English	Secondary-ion mass spectrometry of genetically encoded targets,;54(19):5784-8.	Vreja,Ingrid C.;Kabatas,Selda;Saka,Sinem K.;Krohnert,Katharina;Hoschen,Carmen;Opazo,Felipe;Diederichsen,Ulf;Rizzoli,Silvio O.;	10.1002/anie.201411692
2015	CELL	Nanomedicine	Imaging liver and brain glycogen metabolism at the nanometer scale. Nanomedicine. doi:	Takado,Yuhei;Knott,Graham;Humbel,Bruno M.;Escrig,Stephane;Masoodi,Mojgan;Meibom,Anders;Comment,Arnaud	10.1016/j.nano.2014.09.007
2015	CELL	Chemical Communications	A contamination-insensitive probe for imaging specific biomolecules by secondary ion mass spectrometry ,51, 13221-13224	Kabatas,Selda;Vreja,Ingrid C.;Saka,Sinem K.;Hoschen,Carmen;Krohnert,Katharina;Opazo,Felipe;Rizzoli,Silvio O.;Diederichsen,Ulf;	10.1039/c5cc03895b
2015	CELL	Journal of Chemical Neuroanatomy	Imaging the time-integrated cerebral metabolic activity with subcellular resolution through nanometer-scale detection of biosynthetic products deriving from 13C-glucose	Takado,Yuhei;Knott,Graham;Humbel,Bruno M.;Masoodi,Mojgan;Escrig,Stephane;Meibom,Anders;Comment,Arnaud	10.1016/j.nano.2014.09.007
2016	CELL	Data in Brief	Characterization of polymeric nanoparticles for treatment of partial injury to the central nervous system, V7, Pages 152–156.	Lozic,Ivan;Hartz,Richard V.;Bartlett,Carole A.;Shaw,Jeremy A.;Archer,Michael;Naidu,Priya S.R.;Smith,Nicole M.;Dunlop,Sarah A.;Iyer,K. Swaminathan;Kilburn,Matt R.;Fitzgerald,Melinda	
2016	CELL	Molecular Psychiatry	Revisiting adult neurogenesis and the role of erythropoietin for neuronal and oligodendroglial differentiation in the hippocampus,21,1752–1767	Hassouna,Imam;Ott,Christoph;Wustefeld,Liane;Offen,N;Neher,RA; Mitkovski,Milso;Winkler,Daniela;Sperling,Swetlana;Fries,L.;Goebbels,Sandra;Vreja,Ingrid C.;Hagemeyer,N;Dittrich,M.;Rossetti,Maria Florencia;Krohnert,Katharina;Hannke,Kathrin;Boretius,Susann;Zeug,Andre;Hoschen,Carmen;Dandekar,Thomas;Dere,Ekrem;Neher,Erwin;Rizzoli,Silvio O.;Nave,Klaus-Armin;Siren,Anna-Leena;Ehrenreich,Hannelore;	
2016	CELL	Trends in endocrinology and metabolism	GPIHBP1 and Plasma Triglyceride Metabolism,v27	Fong,Loren G.;Young,Stephen G.;Beigneux, Anne P.;Bensadoun,Andre;Oberer,Monika;Jiang,Haibo;Ploug,Michael	
2016	CELL	Journal of the American Chemical Society	Dynamic Reorganization and Correlation among Lipid Raft Components, 138 (31), pp 9996–10001	Lozano,Monica M.;Hovis,Jennifer S.;Moss III,Frank R.;Boxer,Steven G.	10.1021/jacs.6b05540
2016	CELL	Journal of Neurochemistry	Elemental mapping of Neuromelanin organelles of human Subtanctia Nigra: correlative ultrastructural and chemical analysis by analytical transmission electron microscopy and nano-secondary ion mass spectrometry. . Journal of Neurochemistry, 2016	Biesemeier,Antje;Eibl,Olivier;Eswara,Santhana;Audinot,Jean-Nicolas;Wirtz,Tom;Pezzoli,Gianni;Zucca,A.Zucca;Schraemeyer,Ulrich	
2016	CELL	Biointerphases	Three-dimensional imaging of cholesterol and sphingolipids within a Madin-Darby Canine Kidney Cell.Biointerphases, 11 (2), 02A309	Yeager,Ashley N.;Weber,Peter K.;Kraft,Mary L.	10.1116/1.4939681
2016	CELL	Molecular Cell	Zinc-Induced Polymerization of Killer-Cell Ig-like Receptor into Filaments Promotes Its Inhibitory Function at Cytotoxic Immunological Synapses. 62, 21–33	Kumar,Santosh;Rajagopalan,Sumati;Sarkar,Pabak;Dorward,David W.;Peterson,Mary E.; Liao,Hsien-Shun;Guillermier,Christelle;Steinhauser,Matthew L.;Vogel,Steven S.;Long,Eric O.;	elong@nih.gov
2016	CELL	Journal of the American Chemical Society	Atomic Recombination in Dynamic Secondary Ion Mass Spectrometry Probes Distance in Lipid Assemblies: A Nanometer Chemical Ruler, 138 (51), p16737–16744	Moss,Frank R.;Boxer,Steven G.;	10.1021/jacs.6b10655
2016	CELL	Analytical Chemistry	Multimodal Imaging of Chemically Fixed Cells in Preparation for NanoSIMS , 88 (17), pp 8841–8848	Lovric,Jelena;Malmberg,Per;Johansson,Bengt R.;Fletcher,John S.;Ewing,Andrew G.	
2016	CELL	F1000Research	Combining combing and secondary ion mass spectrometry to study DNA on chips using C and N labeling . F1000Research . 2016, :1437 . doi:	Cabin-Flaman,Armelle;Monnier,Anne-Francoise;Coffinier,Yannick;Audinot,Jean-Nicolas;Gibouin,David;Wirtz,Tom;Boukherroub,Rabah;Migeon,Henri-Noel;Bensimon,Aaron;Janniere,Laurent;Ripoll,Camille;Norris,Victor	10.12688/f1000research.8361.1
2017	CELL	Angewandte Chemie International Edition	Binary Encoding of Random Peptide Sequences for Selective and Differential Antimicrobial Mechanisms. , 2017. Angewandte Chemie International Edition, 56(28), pp.8099-8103	Hayouka,Zvi;Bella,Angelo;Stern,Tal;Ray,Santanu;Jiang,Haibo;Grovenor,Chris R.M.;Ryadnov,Maxim G.	10.1002/anie.201702313
2017	CELL	Laboratory Investigation	Multiplexed ion beam imaging analysis for quantitation of protein expression in cancer tissue sections	Rost,Sandra;Giltnane,Jennifer;Bordeaux,Jennifer M.;Hitzman,Chuck;Koeppen,Hartmut;Liu,Scot D.	10.1038/labinvest.2017.50
2017	CELL	ACS Nano	Nano Secondary Ion Mass Spectrometry Imaging of Dopamine Distribution Across Nanometer Vesicles. . ACS Nano, 2017, 11, 3446–3455	Lovric,Jelena;Dunevall,Johan;Larsson,Anna;Ren,Lin;Andersson,Shalini;Meibom,Anders;Malmberg,Per;Kurczy,Michael E.;Ewing,Andrew G.	
2017	CELL	PNAS	High-resolution imaging and quantification of plasma membrane cholesterol by NanoSIMS. . PNAS 2017 114 (8) 2000-2005; published ahead of print February 6, 2017,	He,Cuiwen;Hu,Xuchen;Jung,Rachel S.;Weston,Thomas A.;Sandoval,Norma P.;Tontonoz,Peter;Kilburn,Matt R.;Fong,Loren G.;Young,Stephen G.;Jiang,Haibo	10.1073/pnas.1621432114
2017	CELL	JCI Insight	Imaging mass spectrometry demonstrates age-related decline in human adipose plasticity	Guillermier,Christelle;Fazeli,Pouneh K.;Kim,Soomin;Lun,Mingyue;Zuflacht,Jonah P.;Milian,Jessica;Lee,Hang;Francois-Saint-Cyr,Hugues;Horreard,Francois;Larson,David;Rosen,Evan D.;Lee,Richard T.;Lechene,Claude P.;Steinhauser, Matthew L.;	10.1172/jci.insight.90349.
2017	CELL	Chemical Science	Engineering monolayer poration for rapid exfoliation of microbial membranes,8, 1105-1115	Pyne,Alice;Pfeil,Marc-Philipp;Bennett,Isabel;Ravi,Jascindra;Iavicoli,Patrizia;Lamarre,Baptiste;Roethke, Anita;Ray,Santanu;Jiang,Haibo;Bella,Angelo;Reisinger,Bernd;Yin, Daniel;Little,Benjamin;Munoz-Garcia,Juan C.;Cerasoli,Eleonora;Judge, Peter J.;Faruqui,Nilofar; Calzolai,Luigi;Henrion,Andre;Martyna,Glenn J.;Grovenor,Chris R. M.;Crain,Jason;Hoogenboom,Bart W.; Watts,Anthony;Ryadnov,Maxim G.	10.1039/C6SC02925F
2017	CELL	NeuroToxicology	Time-dependent effects of perfluorinated compounds on viability in cerebellar granule neurons: Dependence on carbon chain length and functional group attached. . NeuroToxicology. Volume 63, December 2017, Pages 70-83.	Berntsen,Hanne Friis;Bjorklund,Cesilie Granum;Audinot,Jean-Nicolas;Hofer,Tim;Verhaegen,Steven;Lentzen,Esther;Gutleb,Arno Christian;Ropstad,Erik	

2017	CELL	Journal of Investigative Medecine	NanoSIMS imaging: an approach for visualizing and quantifying lipids in cells and tissues,0:1–4	He,Cuiwen;Fong,Loren G.;Young,Stephen G.;Jiang,Haibo	10.1136/jim-2016-000239
2017	CELL	Scientific Reports	Formation of a nucleoplasmic reticulum requires de novo assembly of nascent phospholipids and shows preferential incorporation of nascent lamins, 7: 7454	Drozdz,Marek M.;Jiang,Haibo;Pytowski,Lior;Grovenor,Chris;Vaux,David J.	10.1038/s41598-017-07614-w
2017	CELL	International Journal of mass spectrometry	Quantitative imaging of deuterated metabolic tracers in biological tissues with nanoscale secondary ion mass spectrometry	Guillermier,Christelle;Poczatek,J. Collin;Taylor,Walter R.;Steinhauser,Matthew L.;	10.1016/j.ijms.2017.08.004
2018	CELL	Gut Microbes	In vitro and in vivo characterization of Clostridium scindens bile acid transformations	Marion,Solenne;Studer,Nicolas;Desharnais,Lyne;Menin,Laure;Escrig,Stephane;Meibom,Anders;Hapfelmeier,Siegfried;Bernier-Latmani,Rizlan;	10.1080/19490976.2018.1549420
2018	CELL	Cell metabolism	NanoSIMS Analysis of Intravascular Lipolysis and Lipid Movement across Capillaries and into Cardiomyocytes,v 27, Issue 5, 1 May 2018, Pages 1055-1066.e3	He,Cuiwen;Weston,Thomas A.;Jung, Rachel S.;Heizer,Patrick;Larsson,Mikael;Hu,Xuchen;Allan,Christopher M.;Tontonoz,Peter;Reue,Karen;Beigneux,Anne P.;Ploug,Michael;Holme,Andrea;Kilburn,Matt R.;Guagliardo,Paul;Ford,David A.;Fong,Loren G.;Young, Stephen G.;Jiang, Haibo	10.1016/j.cmet.2018.03.017
2018	CELL	Nature Communications	Exercise induces new cardiomyocyte generation in the adult mammalian heart . Nature Communications volume 9, Article number: 1659 (2018) | doi.org/10.1038/s41467-018-04083-1	Vujic,Ana;Lerchenmuller,Carolin;Wu,Ting-Di;Guillermier,Christelle;Rabolli,Charles P.;Gonzalez,Emilia;Senyo,Samuel E.;Liu,Xiaojun;Guerquin-Kern,Jean-Luc;Steinhauser,Matthew L.;Lee,Richard T.;Rosenzweig,Anthony;	10.1038/s41467-018-04083-1
2018	CELL	Journal of Neuroscience	Oligodendroglia are particularly vulnerable to oxidative damage after neurotrauma in vivo, 1898-17	Giacci,Marcus K.;Bartlett,Carole A.;Smith,Nicole M.;Iyer, K. Swaminathan;Toomey, Lillian M.;Jiang,Haibo;Guagliardo,Paul;Kilburn,Matt R.;Fitzgerald,Melinda	10.1523/JNEUROSCI.1898-17.2018
2018	CELL	The EMBO Journal	Newly produced synaptic vesicle proteins are preferentially used in synaptic transmission,e98044	Truckenbrodt,Sven;Viplav,Abhiyan;Jahne,Sebastian;Vogts,Angela;Denker,Annette;Wildhagen,Hanna;Fornasiero,Eugenio F.;Rizzoli,Silvio O.	10.15252/embj.201798044
2018	CELL	Journal of Cell Biology	Visualization of long-lived proteins reveals age mosaicism within nuclei of postmitotic cells	Toyama,Brandon H.;Arrojo e Drigo,Rafael;Lev-Ram,Varda;Ramachandra,Ranjan;Deerinck,Thomas J.;Lechene,Claude P.; Ellisman,Mark H.;Hetzer,Martin W.	10.1083/jcb.201809123
2018	CELL	PNAS	Macrophages release plasma membrane-derived particles rich in accessible cholesterol, vol. 115, 36	He,Cuiwen;Hu,Xuchen;Weston,Thomas A.;Jung,Rachel S.;Sandhu,Jaspreet;Huang,Song;Heizer,Patrick;Kim,Jason;Ellison,Rochelle;Xu,Jiake;Kilburn,Matt R. ;Bensinger,Steven J.;Riezman,Howard;Tontonoz,Peter;Fong,Loren G.;Jiang,Haibo;Young,Stephen G.	10.1073/pnas.1810724115
2018	CELL	Metallomics	Multimodal LA-ICP-MS and nanoSIMS imaging enables copper mapping within photoreceptor megamitochondria in a zebrafish model of Menkes disease. Metallomics, 2018, Advance Article. first published on 06 Mar 2018 . dx.doi.org/10.1039/C7MT00349H	Ackerman,Cheri M.;Weber,Peter K.;Xiao,Tong;Thai,Bao;Kuo,Tiffani J.;Zhang,Emily;Pett-Ridge,Jennifer;Chang,Christopher J.	10.1039/c7mt00349h
2018	CELL	Frontiers in Neurology	Amyloid-β Plaques in Clinical Alzheimer's Disease Brain Incorporate Stable Isotope Tracer In Vivo and Exhibit Nanoscale Heterogeneity. Frontiers in Neurology. 22 March 2018, volume 9, article 169. doi.org/10.3389/fneur.2018.00169	Wildburger,Norelle C.;Gyngard,Frank;Guillermier,Christelle;Patterson,Bruce W.;Elbert,Donald;Mawuenyega,Kwasi G.;Schneider,Theresa;Green, Karen;Roth,Robyn;Schmidt,Robert E.;Cairns,Nigel J.;Benzinger,Tammie L. S.;Steinhauser,Matthew L.;Bateman,Randall J.;	
2018	CELL	Nature Nanotechnology	Intracellular speciation of gold nanorods alters the conformational dynamics of genomic DNA	Ho,Diwei;Kretzmann,Jessica A.;Norret,Marck;Toshniwal,Priyanka;Veder,Jean-Pierre;Jiang,Haibo;Guagliardo,Paul;Munshi,Alaa M.;Chawla,Reena;Evans,Cameron W.;Clemons,Tristan D.;Nguyen,Michelle;Kretzmann,Amy L.;Blythe,Amanda J.;Saunders,Martin;Archer,Michael;Fitzgerald,Melinda;Keelan,Jeffrey A.;Bond,Charles S.;Kilburn,Matt R.;Hurley,Laurence H.;Smith,Nicole M.;Iyer,K. Swaminathan	
2018	CELL	Nature Communications	Myoglobinopathy is an adult-onset autosomal dominant myopathy with characteristic sarcoplasmic inclusions, 10:1396	Olive,Montse;Engvall,Martin; Ravenscroft,Gianina;Cabrera-Serrano,Macarena;Jiao,Hong;Bortolotti,Carlo Augusto;Pignataro,Marcello;Lambrughi,Matteo; Jiang,Haibo;Forrest,Alistair R.R.;Benseny-Cases,Nuria;Hofbauer,Stefan;Obinger,Christian;Battistuzzi,Gianantonio; Bellei,Marzia;Borsari,Marco; Di Rocco,Giulia;Viola,Helena M.; Hool,Livia C.;Cladera, Josep;Lagerstedt-Robinson, Kristina;Xiang,Fengqing;Wredenberg,Anna;Miralles,Francesc;Baiges,Juan Jose;Malfatti,Edoardo;Romero, Norma B.; Streichenberger,Nathalie;Vial,Christophe;Claeys,Kristl G.;Straathof,Chiara S.M.;Goris, An;Freyer,Christoph;Lammens,Martin;Bassez,Guillaume;Kere,Juha ;Clemente,Paula;Sejersen,Thomas;Udd,Bjarne;Vidal,Noemi;Ferrer,Isidre; Edstrom,Lars;Wedell,Anna;Laing,Nigel G.	
2018	CELL	ACS Central Science	In Vitro Tracking of Intracellular Metabolism-Derived Cancer Volatiles via Isotope Labeling. . ACS Central Science, 2018, 4 (8), pp 1037–1044. DOI: 10.1021/acscentsci.8b00296	Lee,Dong-Kyu;Na,Euiyeon;Park,Seongoh;Park,Jeong Hill; Lim,Johan;Kwon,Sung Won	10.1021/acscentsci.8b002
2018	CELL	Stem Cell Research	Single-cell RNA sequencing reveals metallothionein heterogeneity during hESC differentiation to definitive endoderm. 28, 48–55	Lu,Junjie;Baccei,Anna;Lummertz da Rocha,Edroaldo;Guillermier,Christelle;McManus,Sean;Finney,Lydia A.;Zhang,Cheng;Steinhauser,Matthew L.;Li,Hu;Lerou,Paul H.;	10.1016/j.scr.2018.01.015
2018	CELL	Analytical Chemistry	High Initial Sputter Rate Found for Vaccinia Virions Using Isotopic Labeling, NanoSIMS, and AFM. . Analytical Chemistry, DOI:	Gates,Sean D.;Condit,Richard C.;Moussatche,Nissin;Stewart,Benjamin J.;Malkin,Alexander J.;Weber,Peter K.	10.1021/acs.analchem.7b02786
2018	CELL	Metallomics	Transition metals and trace elements in the retinal pigment epithelium and choroid: correlative ultrastructural and chemical analysis by analytical electron microscopy and nano-secondary ion mass spectrometry, 10, 296-308	Biesemeier,Antje;Eibl,Oliver;Eswara,Santhana;Audinot,Jean-Nicolas;Wirtz,Tom;Schraermeyer,Ulrich	10.1039/C7MT00259A
2018	CELL	Biochemical and Biophysical Research Communications	NanoSIMS imaging reveals unexpected heterogeneity in nutrient uptake by brown adipocytes	He,Cuiwen;Hu,Xuchen;Weston,Thomas A.;Jung,Rachel S.;Heizer,Patrick; Tu,Yiping;Ellison,Rochelle;Matsumoto,Ken;Gerhardt,Holger;Tontonoz,Peter;Fong,Loren G.;Young,Stephen G.;Jiang,Haibo	10.1016/j.bbrc.2018.09.051
2018	CELL	Proceedings of Microscopy & Microanalysis	Correlative Electron Microscopy and NanoSIMS Analysis for Lipid Studies, volume 24, Supplement S1, p360-361	Jiang,Haibo;He,Cuiwen;Fong,Loren G.;Young,Stephen G.	10.1017/S1431927618002295
2019	CELL	Journal of Analytical Atomic Spectrometry	Fluorinated Nanobodies for Targeted Molecular Imaging of Biological Samples using Nanoscale Secondary Ion Mass Spectrometry	Kabatas,Selda;Agui-Gonzalez,Paola;Hinrichs,Rena;Jahne,Sebastian;Opazo,Felipe;Dieterichsen,Ulf,Rizzoli,Silvio O.;Phan,Nhu T. N.	10.1039/C9JA00117D
2019	CELL	Cell metabolism	Age Mosaicism across Multiple Scales in Adult Tissues, V30,2, P343-351, e3	Arrojo e Drigo,Rafael;Lev-Ram,Varda;Tyagi,Swati;Ramachandra,Ranjan;Deerinck,Thomas;Bushong,Eric;Phan,Sebastien;Orphan,Victoria;Lechene,Claude P.;Ellisman,Mark H.;Hetzer,Martin W.	10.1016/j.cmet.2019.05.010
2019	CELL	Science Translational Medicine	Control of cytokinesis by β-adrenergic receptors indicates an approach for regulating cardiomyocyte endowment, v11, Issue 513, eaaw6419	Liu,Honghai;Zhang,Cheng-Hai;Ammanamanchi,Niyatie;Suresh,Sangita;Lewarchik,Christopher;Rao,Krithika;Uys,Gerrida M.;Han,Lu;Abrial,Maryline;Yimlamai,Dean;Ganapathy,Balakrishnan;Guillermier,Christelle;Chen,Nathalie;Khaladkar,Mugdha;Spaethling,Jennifer;Eberwine,James H.;Kim,Junhyong;Walsh,Stuart;Choudhury,Sangita;Little,Kathryn;Francis,Kimberly;Sharma,Mahesh;Viegas,Melita; Bais,Abha;Kostka,Dennis;Ding,Jun;Bar-Joseph,Ziv;Wu,Yijen;Yechoor,Vijay;Moulik,Mousumi;Johnson,Jennifer;Weinberg,Jacqueline;Reyes-Mugica,Miguel;Steinhauser,Matthew L.;Kuhn,Bernhard;	10.1126/scitranslmed.aaw6419
2019	CELL	Angewandte Chemie International Edition.	Boron-Containing Probes for Non-optical High-Resolution Imaging of Biological Samples, 58, 3438 –3443	Kabatas,Selda;Agui-Gonzalez,Paola;Saal,Kim-Ann;Jahne,Sebastian;Opazo,Felipe;Rizzoli,Silvio O.;Phan,Nhu T. N.	10.1002/ange.201812032
2019	CELL	eLife	Release of cholesterol-rich particles from the macrophage plasma membrane during movement of filopodia and lamellipodia, eLife 2019;8:e50231	Hu,Xuchen;Weston,Thomas A.;He,Cuiwen;Jung,Rachel S.;Heizer,Patrick J.;Young,Brian D.;Tu,Yiping;Tontonoz,Peter;Wohlschlegel,James A.;Jiang,Haibo;Young,Stephen G.;Fong,Loren G.	10.7554/eLife.50231
2019	CELL	JCI Insight	Imaging mass spectrometry reveals heterogeneity of proliferation and metabolism in atherosclerosis.. First published , Vol 4, Issue 11 ; June 6, 2019, JCI Insight. 2019;4(11):e128528. https://doi.org	Guillermier,Christelle;Doherty,Sean P.;Whitney,Adam G.;Babaev,Vladimir R.;Linton,MacRae F.;Steinhauser,Matthew L.;Brown,Jonathan D.;	10.1172/jci.insight.128528.
2019	CELL	Journal of dental research	Disrupted Iron Storage in Dental Fluorosis	Houari,Sophia.;Picard,Emilie;Wurtz,Tilmann;Vennat,Elsa;Roubier, Nicolas;Wu,Ting-Di;Guerquin-Kern,Jean-Luc;Duttine,Mathieu;Thuy,T.T.;Berdal,A.;Babajko,S.	10.1177/0022034519855650
2019	CELL	eLife	GPIHBP1 expression in gliomas promotes utilization of lipoprotein-derived nutrients. eLife 2019;8:e47178	Hu,Xuchen;Matsumoto,Ken;Jung,Rachel S.;Weston,Thomas A.;Heizer,Patrick J.;He,Cuiwen;Sandoval,Norma P.;Allan,Christopher M.;Tu,Yiping;Vinters,Harry V.;Liau,Linda M.;Ellison,Rochelle M.;Morales,Jazmin E.;Baufeld,Lynn J.;Bayley,Nicholas A.;He,Liqun;Betsholtz,Christer;Beigneux,Anne P.;Nathanson,David A.;Gerhardt,Holger;Young,Stephen G.;Fong, Loren G.;Jiang,Haibo	10.7554/eLife.47178
2019	CELL	Optical Methods for Inspection, Characterization, and Imaging of Biomaterials	Imaging the competition between growth and production of self-assembled lipid droplets at the single-cell level,v11060, IV; 110600E	Vasdekis,A.E.;Alanazi,H.;Silverman,A.M.;Canul,A.J.;Dohnalkova,A.C.;Cliff,J.B.;Stephanopoulos,G.;	10.1117/12.2531007
2020	CELL	Nature Chemistry	CD44 regulates epigenetic plasticity by mediating iron endocytosis	Muller,Sebastian;Sindikubwabo,Fabien;Caneque,Tatiana;Lafon,Anne;Versini,Antoine;Lombard,Berangere;Loew,Damarys;Wu,Ting-Di;Ginestier,Christophe;Charafe-Jauffret,Emmanuelle;Durand,Adeline;Vallot,Celine;Baulande,Sylvain;Servant,Nicolas;Rodriguez,Raphael	10.1038/s41557-020-0513-5

2020	CELL	Nature Immunology	Interferon-mediated reprogramming of membrane cholesterol to evade bacterial toxins	Zhou,Quan D.;Chi,Xun;Lee,Min Sub;Hsieh,Wei Yuan;Mkrtchyan,Jonathan J.;Feng,An-Chieh;He,Cuiwen;York,Autumn G.;Bui,Viet L.;Kronenberger,Eliza B.;Ferrari,Alessandra;Xiao,Xu;Daly,Allison E.;Tarling,Elizabeth J.;Damoiseaux,Robert;Scumpia,Philip O.;Smale,Stephen T.;Williams,Kevin J.;Tontonoz,Peter;Bensinger,Steven J.	10.1038/s41590-020-0695-4
2020	CELL	American Society for Microbiology Journals	Aster proteins regulate the accessible cholesterol pool in the plasma membrane	Ferrari,Alessandra;He,Cuiwen;Kennelly,John Paul;Sandhu,Jaspreet;Xiao,Xu;Chi,Xun;Jiang,Haibo;Young,Stephen G.;Tontonoz,Peter	10.1128/MCB.00255-20
2020	CELL	PNAS	Peroxidasin-mediated Bromine Enrichment of Basement Membranes,13 ,14,,202007749	He,Cuiwen;Song,Wenxin;Weston,Thomas A;Tran,Caitlyn;Kurtz,Ira;Zuckerman,Jonathan E.;Guagliardo,Paul.;Miner,Jeffrey H.;Ivanov,Sergey V.;Bougoure,Jeremy J.;Hudson,Billy G;Colon,Selene;Voziyan,Paul A.;Bhave,Gautam;Fong,Loren G.;Young,Stephen G.;Jiang,Haibo	10.1073/pnas.2007749117.
2020	CELL	eLife	Combined deletion of Glut1 and Glut3 impairs lung adenocarcinoma growth, 9:e53618	Contat,Caroline;Ancey,Pierre-Benoit;Zangger,Nadine;Sabatino,Silvia;Pascual,Justine;Escrig,Stephane;Jensen,Louise;Goepfert,Christine;Lanz,Bernard;Lepore,Mario;Gruetter,Rolf ;Rossier,Anouk;Berezowska,Sabina;Neppl,Christina;Zlobec,Inti;Clerc-Rosset,Stephanie;Knott,Graham William;Rathmell,Jeffrey C;Abel,E Dale;Meibom,Anders;Meylan,Etienne	10.7554/eLife.53618
2020	CELL	PNAS	Cultured macrophages transfer surplus cholesterol into adjacent cells in the absence of serum or high-density lipoproteins	He,Cuiwen;Jiang,Haibo;Song,Wenxin;Riezman,Howard;Tontonoz,Peter;Weston,Thomas A.;Guagliardo,Paul;Kim,Paul H.;Jung,Rachel;Heizer,Patrick;Fong,Loren G.;Young,Stephen G.	10.1073/pnas.1922879117
2020	CELL	iScience	Imaging Mass Spectrometry Reveals Tumor Metabolic Heterogeneity	Zhang,Yang;Guillermier,Christelle;De Raedt,Thomas;Cox,Andrew G.;Maertens,Ophelia;Yimlamai,Dean;Lun,Mingyue;Whitney,Adam;Maas,Richard L;Goessling,Wolfram;Cichowski,Karen;Steinhauser,Matthew L.;	10.1016/j.isci.2020.101355
2020	CELL	Journal of Cell Biology	Coupling APEX labeling to imaging mass spectrometry of single organelles reveals heterogeneity in lysosomal protein turnover, 219 (1): e201901097	Narendra,Derek P.;Guillermier,Christelle;Gyngard,Frank;Huang,Xiaoping;Ward,Michael E.;Steinhauser,Matthew L.;	10.1083/jcb.201901097
2020	CELL	ACS Chemical Biology	Halogenation-Dependent Effects of the Chlorosulfolipids of Ochromonas danica on Lipid Bilayers	Moss III,Frank R.;Cabrera,Gabrielle E.;McKenna,Grace M.;Salerno,Giulio J.;Shuken,Steven R.;Landry,Matthew L.;Weiss,Thomas M.;Burns,Noah Z.;Boxer,Steven G.	10.1021/acschembio.0c00624
2020	CELL	Advanced Materials technologies	Isotopically Encoded Nanotags for Multiplexed Ion Beam Imaging	Harmsen,Stefan;Coskun,Ahmet F.;Ganesh,Shambavi;Nolan,Garry P.;Gambhir,Sanjiv S.	10.1002/admt.202000098
2020	CELL	Nature	Discovery of a druggable copper-signaling pathway that drives cell plasticity and inflammation	Solier,Stephanie;Muller,Sebastian;Caneque,Tatiana;Versini,Antoine;Baron,Leeroy;Gestraud,Pierre;Servant, Nicolas;Emam,Laila;Mansart,Arnaud;Pantos,Dan;Gandon, Vincent;Sencio, Valentin;Robil, Cyril;Trottein,Francois;Begue, Anne-Laure;Salmon,Helene;Durand, Sylvere;Wu, Ting-Di;Manel,Nicolas;Puisieux, Alain;Dawson, Mark;Watson, Sarah;Kroemer, Guido;Annane, Djillali;Rodriguez, Raphael;	10.1101/2022.03.29.486253
2021	CELL	Nature Communicatons	Intracellular localisation of Mycobacterium tuberculosis affects efficacy of the antibioticpyrazinamide	Santucci,Pierre;Greenwood,Daniel J.;Fearns,Antony;Chen,Kai;Jiang,Haibo;Gutierrez,Maximiliano G.;	10.1038/s41467-021-24127
2021	CELL	Cell Systems	Pulse-Chase Proteomics of the App Knockin Mouse Models of Alzheimer's Disease Reveals that Synaptic Dysfunction Originates in Presynaptic Terminals, 12, 1–18	Hark,Timothy J.;Rao,Nalini R.;Castillon,Charlotte;Basta,Tamara;Smukowski,Samuel;Bao,Huan;Upadhyay,Arun;Bomba-Warczak,Ewa;Nomura,Toshihiro;O'Toole,Eileen T.;Morgan,Garry P.;Ali,Laith;Saito,Takashi;Guillermier,Christelle;Saido,Takaomi;Steinhauser,Matthew L.;Stowell,Michael H.B.;Chapman,Edwin R.;Contractor,Ani;Savas,Jeffrey N.;	10.1016/j.cels.2020.11.007
2021	CELL	Nature communications	Subcellular localization of biomolecules and drug distribution by high-definition ion beam imaging	Rovira-Clave,Xavier;Jiang,Sizun;Bai,Yunhao;Zhu,Bokai;Barlow,Graham;Bhate,Salil;Coskun,Ahmet F.;Han,Guojun;Ho,Chin-Min Kimmy;Hitzman,Chuck;Chen,Shih-Yu;Bava,Felice-Alessio;Nolan,Garry P.	10.1038/s41467-021-24822-1
2021	CELL	Nature Communications	Extracellular matrix remodeling through endocytosis and resurfacing of Tenascin-R	Dankovich,Tal M.;Kaushik,Rahul;Olsthoorn,Linda H.M.;Petersen,Gabriel Cassinelli;Giro,Philipp Emanuel;Kluever,Verena;Agui-Gonzalez,Paola;Grewe,Katharina;Bao,Guobin;Beuermann,Sabine;Hadi,Hannah Abdul;Doeren,Jose;Kloppner,Simon;Cooper,Benjamin H.;Dityatev,Alexander;Rizzoli,Silvio O.;	10.1038/s41467-021-27462-7
2021	CELL	Science Advances	Following spatial Abeta aggregation dynamics in evolving Alzheimer's disease pathology by imaging stable isotope labeling kinetics	Michno,Wojciech;Stringer,Katie;Enzlein,Thomas;Passarelli,Melissa K.;Escrig,Stephane;Vitanova,Karina;Wood,Jack;Blennow,Kaj;Zetterberg,Henrik;Meibom,Anders;Hopf, Carsten;Edwards,Frances A.;Hanrieder,Jorg;	10.1126/sciadv.abg4855
2021	CELL	Lab on a Chip	Quantifying nanotherapeutics penetration using hydrogel based 1microsystem as a new 3D in-vitroplatform	Goodarzi,Saba;Prunet,Audrey;Rossetti,Fabien;Tillement,Olivier;Porcel,Erika;Lacombe,Sandrine;Wu,Ting-Di;Guerquin-Kern,Jean-Luc;Delanoe-Ayari,Helene;Lux,Francois;Riviere,Charlotte	10.1101/2021.01.17.427020
2021	CELL	Nature Communications	Nanoscopic subcellular imaging enabled by ion beam tomography	Coskun,Ahmet F.;Han,Guojun;Ganesh,Shambavi;Chen,Shih-Yu;Clave,Xavier Rovira;Harmsen,Stefan;Jiang,Sizun;Schurch,Christian M.;Bai,Yunhao;Hitzman,Chuck;Nolan,Garry P.	10.1038/s41467-020-20753-5
2021	CELL	Cell Reports	Presynaptic activity and protein turnover are correlated at the single-synapse level, V34, I11, 16,, 108841	Jahne,Sebastian;Mikulasch,Fabian;Heuer,Helge G.H.;Truckenbrodt,Sven;Agui-Gonzalez,Paola;Grewe,Katharina;Vogts,Angela;Rizzoli,Silvio O.;Priesemann,Viola;	10.1016/j.celrep.2021.108841
2021	CELL	Plos one	Correlative fluorescence microscopy,transmission electron microscopy and secondary ion mass spectrometry (CLEM-SIMS) for cellular imaging	Lange,Felix;Agui-Gonzalez,Paola;Riedel,Dietmar;Phan,Nhu T. N.;Jakobs,Stefan;Rizzoli,Silvio O.	10.1371/journal.pone.0240768
2021	CELL	Cell Reports	Brain erythropoietin fine-tunes a counterbalance between neurodifferentiation and microglia in the adult hippocampus	Garcia-Agudo,LauraFernandez ;Steixner-Kumar,Agnes A.;Curto,Yasmina;Barnkothe,Nadine;Hassouna,Imam;Jahne,Sebastian;Butt,Umer Javed;Grewe,Katharina;Weber,Martin S.;Green,Kim;Rizzoli,Silvio O.;Nacher,Juan;Nave,Klaus-Armin;Ehrenreich,Hannelore;	10.1016/j.celrep.2021.109548
2021	CELL	Nature Protocols	Use of stable isotope-tagged thymidine and multi-isotope imaging mass spectrometry (MIMS) for quantification of human cardiomyocyte division	Yester,Jessie W.;Liu,Honghai;Gyngard,Frank;Ammanamanchi,Niyatie;Little,Kathryn C.;Thomas,Dawn;Sullivan,Mara L. G.;Lal,Sean;Steinhauser,Matthew L.;Kuhn,Bernhard;	10.1038/s41596-020-00477-y
2021	CELL	International Hournal of Molecular Sciences	Localization and Absolute Quantification of Dopamine in Discrete Intravesicular Compartments Using NanoSIMS Imaging	Rabasco,Stefania;Nguyen,Tho D. K.;Gu,Chaoyi;Kurczy,Michael E.;Phan,Nhu T. N.;Ewing,Andrew G.;	10.3390/ijms23010160
2021	CELL	Nanomaterials	Gold-conjugated Nanobodies for Targeted Imaging using High-resolution Secondary Ion Mass Spectrometry, 2021050687	Agui-Gonzalez,Paola;Dankovich,Tal M.;Rizzoli,Silvio O.;Phan,Nhu T. N.	10.3390/nano11071797
2021	CELL	BMC Molecular and Cell Biology	NanoSIMS observations of mouse retinal cells reveal strict metabolic controls on nitrogen turnover. . V22.5	Bonnin,Elisa A.;Fornasiero,Eugenio F.;Lange,Felix;Turck,Christoph W.;Rizzoli,Silvio O.	10.1186/s12860-020-00339-1
2021	CELL	preprint	PREPRINT: Transduction of gluconeogenic enzymes prolongs cone photoreceptor survival and function in models of retinitis pigmentosa	Chinchore,Yashodhan;Begaj,Tedi;Guillermier,Christelle;Steinhauser,Matthew L.;Punzo,Claudio;Cepko,Constance L.;	10.1101/569665
2022	CELL	Nature Communications	White matter integrity in mice requires continuous myelin synthesis at the inner tongue	Meschkat,Martin;Steyer,Anna M.;Weil,Marie-Theres;Kusch,Kathrin;Jahn,Olaf;Piepkorn,Lars;Agui-Gonzalez,Paola;Phan,Nhu Thi Ngoc ;Ruhwedel,Torben;Sadowski,Boguslawa;Rizzoli,Silvio O.;Werner,Hauke B.;Ehrenreich,Hannelore;Nave,Klaus-Armin;Mobius,Wiebke	10.1038/s41467-022-28720-y
2022	CELL	Circulation	Restoration of Cardiomyogenesis in Aged Mouse Hearts by Voluntary Exercise	Lerchenmuller,Carolin;Vujic,Ana;Mittag,Sonja;Wang,Annie;Rabolli,Charles P.;Hess,Chiara;Betge,Fynn;Rangrez,Ashraf Y.;Chaklader,Malay;Guillermier,Christelle;Gyngard,Frank;Roh,Jason D.;Li,Haobo;Steinhauser,Matthew L.;Frey,Norbert;Rothermel,Beverly;Dieterich,Christoph;Rosenzweig,Anthony;Lee,Richard T.	10.1161/CIRCULATIONAHA.121.057276
2022	CELL	Diabetes	A Cycle of Inflammatory Adipocyte Death and Regeneration in Murine Adipose Tissue,v71,412–423	Monji,Akio;Zhang,Yang;Kumar,G.V Naveen;Guillermier,Christelle;Kim,Soomin;Olenchock,Benjamin;Steinhauser,Matthew L.;	10.2337/db20-1306
2022	CELL	Metallomics	High spatial resolution imaging of subcellular macro and trace element distribution during phagocytosis	Subirana,MariaAngels;Riemschneider,Sina;Hause,Gerd;Dobritzsch;Schaumloffel,Dirk;Herzberg,Martin;	
2022	CELL	Proteomics	Antidepressant treatment effects on hippocampal protein turnover: molecular and spatial insights from mass spectrometry	Turck,Christoph W.;Webhofer,Christian;Reckow,Stefan;Moy,Jeffrey;Wang, Mei;Guillermier,Christelle;Poczatek,J. Collin;Filiou,Michaela D.;	10.1002/pmic.202100244
2022	CELL	International Journal of Molecular Sciences	A Reliable Approach for Revealing Molecular Targets in Secondary Ion Mass Spectrometry	Li,Fengxia;Fornasiero,Eugenio F.;Dankovich,Tal M.;Kluever,Verena;Rizzoli,Silvio O.;	
2022	CELL	Investigative Radiology	Comprehensive Speciation Analysis of Residual Gadolinium in Deep Cerebellar Nuclei in Rats Repeatedly Administered With Gadoterate Meglumine or Gadodiamide	Strzeminska,Izabela;Factor,Cecile;Jimenez-Laman,Javier;Lacomme,Sabrina;Subirana,Maria Angels;LeCoustumer,Philippe;Schaumloffel,Dirk;Robert,Philippe;Szpunar,Joanna;Corot,Claire;Lobinski,Ryszard;	10.1097/RLI.0000000000000846
2022	CELL	Frontiers in Cell and Developmental Biology	Age-dependent structural reorganization of utricular ribbon synapse	Michanski,Susann;Henneck,Timo;Mukhopadhyay,Mohona;Steyer,Anna M.;Gonzalez,Paola Agui;Grewe,Katharina;Ilgen,Peter;Gultas,Mehmet;Fornasiero,Eugenio F.;Jakobs,Stefan;Mobius,Wiebke;Vogl,Christian Pangrsic,Tina;Rizzoli,SilvioO.;Wichmann,Carolin;	10.3389/fcell.2023.1178992

2023	CELL	bioarxiv	Symbiotic nutrient exchange enhances the long□term survival of cassiosomes, the autonomous stinging-cell structures of Cassiopea	Toullec,Gaelle;Heidelberg Lyndby,Niclas;Banc-Prandi,Guilhem;Pogoreutz,Claudia ;Olmos,Martin Cristina;Meibom,Anders ;Radecker,Nils;	10.1101/2023.06.14.544940
2023	CELL	Cell	Glucose dissociates DDX21 dimers to regulate mRNA splicing and tissue differentiation	Miao, WeiliPorter, Douglas F.;Lopez-Pajares, Vanessa;Siprashvili, Zurab;Meyers, Robin M.;Bai, Yunhao;Nguyen, Duy T.;Ko, Lisa A.;Zarnegar, Brian J.;Ferguson, Ian D.;Mills, Matthew M.;Jilly-Rehak, Christie E.;Wu, Cheng-Guo;Yang, Yen-Yu;Meyers, Jordan M.;Hong, Audrey W.;Reynolds, David L.;Ramanathan, Muthukumar;Tao, Shiying;Jiang, Sizun;Flynn, Ryan A.;Wang, Yinsheng;Nolan, Garry P.;Khavari, Paul A.;	10.1016/j.cell.2022.12.004
2023	CELL	JCI Insight	Proline and glucose metabolic reprogramming supports vascular endothelial and medial biomass in pulmonary arterial hypertension	Wertheim,Bradley M.;Wang,Rui-Sheng;Guillermier,Christelle;Hutter,Christiane V.R.;Oldham,William M.;Menche,Jorg;Steinhauser,Matthew L.;Maron,Bradley A.;	10.1172/jci.insight.163932
2023	CELL	ACS Nano	Exploiting Mass Spectrometry to Unlock the Mechanism of Nanoparticle-Induced Inflammasome Activation	Gupta, Govind;Kaur, Jasreen;Bhattacharya, Kunal;Chambers, Benedict J.;Gazzi, Arianna;Furesi, Giulia;Rauner, Martina;Fuoco, Claudia;Orecchioni, Marco;Delogu, Lucia Gemma;Haag, Lars;Stehr, Jan Eric;Thomen, Aurélien;Bordes, Romain;Malmberg, Per;Seisenbaeva, Gulaim A.;Kessler, Vadim G.;Persson, Michael;Fadeel, Bengt	10.1021/acsnano.3c05600
2023	CELL	Acc.Chem.Res	Toward Understanding the Subcellular Distributions of Cholesterol and Sphingolipids Using High-Resolution NanoSIMS Imaging	Brunet,Melanie A.;Kraft, Mary L.;	10.1021/acs.accounts.2c00760
2023	CELL	International Journal of Molecular Sciences	Characterization of Stress Granule Protein Turnover in Neuronal Progenitor Cells Using Correlative STED and NanoSIMS Imaging	Rabasco,Stefania;Lork,Alicia A.;Belin,Emmanuel;Nguyen,Tho D. K.;Ernst,Carl;Locker,Nicolas;Ewing,Andrew G.;Phan,Nhu T. N.;	10.3390/ijms24032546
2023	CELL	Frontiers in Neuroscience	Tracking cell turnover in human brain using 15N-thymidine imaging mass spectrometry	Roeder,Sebastian S.;Bonnin,Elisa A.;Wu,Ting-Di;Guerquin-Kern, Jean-Luc;Jabari,Samir;Brandner,Sebastian ;Eyupoglu,Ilker Y. ;Gollwitzer,Stephanie ;Hamer,Hajo M.;Gerner,Stefan T. ;Doppner,Thorsten R. ;Rummel,Christoph;Englund,Elisabet;Heimke-Brinck,Ralph;Borst,Tobias;Daniel,Christoph ;Amann,Kerstin ;Schlotzer-Schrehardt,Ursula;Tonchev,AntonB.;Roessler,Karl;Schwab,Stefan; Bergmann,Olaf;Rizzoli,Silvio O.;Huttner,HagenB.;	10.3389/fnins.2023.1274607
2023	CELL	PNAS	The lipoprotein lipase that is shuttled into capillaries by GPIHBP1 enters the glycocalyx where it mediates lipoprotein processing	Song,Wenxin;Beigneux,AnneP.;Weston,ThomasA.;Chen,Kai;Yang ,Ye;Nguyen,LePhuong;Guagliardo,Paul;Jung,Hyesoo;Tran,AnhP.; Tu,Yiping;Tran,Caitlyn;Birrane,Gabriel;Miyashita,Kazuya;Nakajima, Katsuyuki;Murakami,Masami;Tontonoz,Peter;Jiang,Haibo;Ploug,Michael;Fong,LorenG.;Young,StephenG.	10.1073/pnas.231382512
2023	CELL	Nanomedicine: nanotechnology, biology, and medicine	Clinical transfer of AGuIX®-based radiation treatments for locally advanced cervical cancer: MR quantification and in vitro insights in the NANOCOL clinical trial framework	Maury,Pauline;Mondini,Michele;Chargari,Cyrus;Darricau,Arthur;Shahin,Mona;Ammari,Samy;Bockel,Sophie;Genestie,Catherine;Wu,Ting-Di;Lux,Francois;Tillement,Olivier;Lacombe,Sandrine;Deutsch,Eric; Robert,Charlotte;Porcel,Erika;	10.1016/j.nano.2023.102676
2023	CELL	Acta Neuropathologica Communications	Stable isotope labeling and ultra-high-resolution NanoSIMS imaging reveal alpha-synuclein-induced changes in neuronal metabolism in vivo	Spataro,Sofa;Maco,Bohumil ;Escrig, Stéphane;Jensen,Louise;Polerecky,Lubos;Knott,Graham;Meibom, Anders;Schneider,BernardL.;	10.1186/s40478-023-01608-8
2023	CELL	Nature	Vitamin B5 supports MYC oncogenic metabolism and tumor progression in breast cancer	Kreuzaler, Peter;Inglese, Paolo;Ghanate, Avinash;Gjelaj, Ersa;Wu, Vincen;Panina, Yulia;Mendez-Lucas, Andres;MacLachlan, Catherine;Patani, Neill;Hubert, Catherine B.;Huang, Helen;Greenidge, Gina;Rueda, Oscar M.;Taylor, Adam J.;Karali, Evdoxia;Kazanc, Emine;Spicer, Amy;Dexter, Alex;Lin, Wei;Thompson, Daria;Silva Dos Santos, Mariana;Calvani, Enrica;Legrave, Nathalie;Ellis, James K.;Greenwood, Wendy;Green, Mary;Nye, Emma;Still, Emma;Kreuzaler, Peter;Barry, Simon;Goodwin, Richard J. A.;Bruna, Alejandra;Caldas, Carlos;MacRae, James;de Carvalho, Luiz Pedro Sório;Poulogiannis, George;McMahon, Greg;Takats, Zoltan;Bunch, Josephine;Yuneva, Mariia;CRUK Rosetta Grand Challenge Consortium	10.1038/s42255-023-00915-7
2023	CELL	Life Science Alliance	High-resolution analysis of bound Ca2+ in neurons and synapses	Bonnin,Elisa A.;Golmohammadi,Arash;Rehm, Ronja ;Tetzlaff,Christian;Rizzoli,SilvioO;	10.26508/lsa.202302030
2024	CELL	Nature	The maintenance of oocytes in the mammalian ovary involves extreme protein longevity	Harasimov, Katarina;Gorry, Rebecca L.;Welp, Luisa M.;Penir, Sarah Mae;Horokhovskyi, Yehor;Cheng, Shiya ;Takaoka, Katsuyoshi;Stützer, Alexandra;Frombach, Ann-Sophie;Taylor Tavares, Ana Lisa;Raabe, Monika;Haag, Sara;Saha, Debojit;Grewe, Katharina;Schipper, Vera;Rizzoli, Silvio O.;Urlaub, Henning;Liepe, Juliane;Schuh, Melina;	10.6084/m9.figshare.25604232.v1
2024	CELL	Life Science Alliance	Nanoscale imaging of DNA-RNA identifies transcriptional plasticity at heterochromatin	Guillermier,Christelle;Kumar,NaveenVG;Bracken,Ronan C ;Alvarez,Diana;O'Keefe,John;Gurkar,Aditi;Brown,JonathanD.;Steinhauser,MatthewL.;	10.26508/lsa.202402849
2024	CELL	Journal of Hazardous Materials	When subcellular chemical imaging enlightens our understanding on intestinal absorption, intracellular fate and toxicity of PFOA in vitro	Stoffels,CharlotteB.A.;Cambier,Sebastien;Subirana,Maria A.;Schaumlöffel,Dirk;Gomez,Gemma;Pittois,Denis;Guignard,Cédric ;Schwamborn,JensC.;Wirtz,Tom;Gutleb,ArnoC.;Mercier-Bonin,Muriel;Audinot,Jean-Nicolas;	10.1016/j.jhazmat.2024.136205
2024	CELL	bioarxiv	Exceptional longevity of mammalian ovarian and oocyte macromolecules throughout the reproductive lifespan	Bomba-Warczak,Ewa K. ;Velez,Karen M. ;Zhou,Luhan T ;Guillermier, Christelle; Edassery,Seby;Steinhauser,Matthew .;Savas,JeffreyN.;Duncan,FrancescaE.;	
2024	CELL	Life Science Alliance	Morphological correlates of synaptic protein turnover in the mouse brain	Li,Fengxia;Bahr,JuliusN.;Bierth,FelicitasA.L.;Reshetniak,Sofiia;Tetzlaff,Christian;Fornasiero,EugenioF.;Wichmann,Carolin;Rizzoli,Silvio O.;	10.26508/lsa.202402793
2024	CELL	Nature Communications	Calorie restriction increases insulin sensitivity to promote beta cell homeostasis and longevity in mice	dos Santos, Cristiane;Cambraia, Amanda;Shrestha, Shristi;Cutler, Melanie;Cottam, Matthew;Perkins, Guy;Lev-Ram, Varda;Roy, Birbickram;Acree, Christopher;Kim, Keun-Young;Deerinck, Thomas;Dean, Danielle;Cartailler, Jean Philippe;MacDonald, Patrick E.;Hetzer, Martin;Ellisman, Mark;Arrojo e Drigo, Rafael;	10.1038/s41467-024-53127-2
2024	CELL	Médecine Nucleaire	Élaboration d'un modèle d'œil de souris pour étudier la relation dose-réponse en RIV après injection d'ICF01012 lors du traitement du mélanome métastatique	Sas,Nicolas;Billoux,T.;RanchonCole,I.;Auzeloux,P.;Levesque,S.;Schmitt,S.;Mazuel,L.;MiotNoirault,E.;Jouberton,E.;Cachin,F.;	10.1016/j.mednuc.2024.12.030
2024	CELL	Molecular Psychiatry	Erythropoietin restrains the inhibitory potential of interneurons in the mouse hippocampus	Curto, Yasmina;Carceller, Héctor;Klimczak, Patrycja;Perez-Rando, Marta;Wang, Qing;Grewe, Katharina;Kawaguchi, Riki;Rizzoli, Silvio;Geschwind, Daniel;Nave, Klaus-Armin;Teruel-Marti, Vicent;Singh, Manvendra;Ehrenreich, Hannelore;Nacher, Juan;	10.1038/s41380-024-02528-2
2024	CELL	Microorganisms	Electrochemical Characterization of Two Gut Microbial Strains Cooperatively Promoting Multiple Sclerosis Pathogenesis	Naradasu,Divya;Miran,Waheed;Okamoto,Akihiro;	10.3390/microorganisms12020257
2024	CELL	Chem Sci	Subcellular protein turnover in human neural progenitor cells revealed by correlative electron microscopy and nanoscale secondary ion mass spectrometry imaging†	Lork,Alicia;Rabasco,Stefania;Ernst,Carl;DuToit,Andre;Rizzoli,Silvio O.;Phan,NhuT.N.;	10.1039/D3SC05629E
2024	CELL	Cell Metabolism	Dietary intake and glutamine-serine metabolism control pathologic vascular stiffness	Rachedi,NesrineS.;Tang,Ying;Tai,Yi-Yin;Zhao,Jingsi;Chauvet,Caroline;Grynblat,Julien;Akoumia,KouaméKanFirmin;Estephan,Leonard;Torrino,Stéphanie;Sbai,Chaima;Ait-Mouffok,Amel;Latoche,JosephD.;AlAaraj,Yassmin;Brau,Frederic;Abélanet,Sophie;Clavel,Stephan;Zhang,Yingze;Guillermier,Christelle; Kumar,NaveenV.G.;Tavakoli,Sina;Mercier,Olaf;Risbano,MichaelG.; Yao,Zhong-Ke;Yang,Guangli;Ouerfelli,Ouathek;Lewis,JasonS.;Montani,David; Humbert,Marc;Steinhauser,MatthewL.;Anderson,CarolynJ.;Oldham ,WilliamM.;Perros,Frédéric;Bertero,Thomas;Chan,StephenY.;	10.1016/j.cmet.2024.04.010
2024	CELL	PNAS	Multicellular magnetotactic bacteria are genetically heterogeneous consortia with metabolically differentiated cells	Schaible, George A.;Jay, Zackary J.;Cliff, John;Schulz, Frederik ;Gauvin, Colin ; Goudeau, Danielle ;Malmstrom, Rex R. ;Ruff, S. Emil ;Edgcomb, Virginia ;Hatzenpichler, Roland;	10.1371/journal.pbio.3002638
2024	CELL	Nature Communications	Skin hepcidin initiates psoriasiform skin inflammation via Fe-driven hyperproliferation and neutrophil recruitment	Abboud, Elise;Chrayteh, Doha;Boussetta, Nadia;Dalle, Héloise;Malerba, Mariangela;Wu, Ting-Di;Le Gall, Morgane;Reelfs, Olivier;Pourzand, Charareh;Mellett, Mark;Assan, Florence;Bachelez, Hervé;Poupon, Joël;Aractingi, Selim;Vaulont, Sophie;Sohier, Pierre;Oules, Bénédicte;Karim, Zoubida;Peyssonnaux, Carole;	10.1038/s41467-024-50993-8
2025	CELL	Nature Communications	Spatial patterns of hepatocyte glucose flux revealed by stable isotope tracing and multi-scale microscopy	Habashy,Aliyah;Acree,Christopher ;Kim, Keun-Young ;Zahraei, Ali ;Dufresne, Martin ;Phan, Sebastien ;Cutler, Melanie ;Patterson, Emilee ;Mulligan, Alexandra G. ;Burkewitz, Kristopher ;Flynn, Charles Robert ;Lantier, Louise ;Deerinck, Thomas ;McGuinness, Owen P. ;Spraggins,Jeffrey M. ;Ellisman,MarkH.;eDrigo,Rafael Arrojo;	10.1038/s41467-025-60994-w
2025	CELL	Nature Protocols	A multimodal imaging pipeline to decipher cell-specific metabolic functions and tissue microenvironment dynamics	Venkateswaran,SharavanVishaan;Kreuzaler,Peter;Maclachlan,Catherine;McMahon,Greg;Greenidge,Gina;Collinson,Lucy;Bunch,Josephine;Yuneva,Mariia;	10.1038/s41596-024-01118-4
2025	CELL	Aging Cell	Large-Scale Clustered Transcriptional Silencing AssociatedWith Cellular Senescence	Gurkar,AditiU.;Okawa,Satoshi;Guillermier,Christelle;Chaddha,Kritika;Steinhauser,MatthewL.;	10.1111/acel.70015
2025	CELL	The Journal of Clinical Investigation	GPIHBP1, lipoprotein lipase, and triglyceride-rich lipoproteins in capillaries of the choroid plexus and circumventricular organs	Song,Wenxin;Hung,Madison;Kozlov,Ellen;Hung,Megan;Tran,AnhP .;Carroll,James;Nguyen,LePhoung;Lowe,TroyL.;Kim,Paul;Jung,Hyesoo;Tu,Yiping;Kim,Joonyoung;Presnell,AshleyM.;Scheithauer,Julia; Koerner,JennaP.;Yang,Ye;Magaki,ShinoD.;Williams,ChristopherK.; Ploug,Michael;Jiang,Haibo;Betsholtz,Christer ;Mae,AndaloussiMaarja;He,Liqun;Beigneux,AnneP.;Fong,LorenG.; Young,StephenG.;	10.1172/JCI191867

2025	CELL	Scientiifc Reports	Multiparametric physicochemical analysis of a type 1 collagen 3D cell culture model using light and electron microscopy and mass spectrometry imaging	Dondi,Camilla;Tsikritsis, Dimitrios ;Vorng, Jean-Luc ;Greenidge, Gina ;Kepiro, Ibolya E. ;Belsey, Natalie A. ;McMahon, Greg ;Gilmore, Ian S. ;Ryadnov, Maxim G. ;Shaw,Michael;	10.1038/s41598-025-93700-3
2025	CELL	PNAS	Inorganic sulfate is critical for *Mycobacterium tuberculosis* lung tissue colonization and redox balance	LeMouellic,Wendy;Levillain,Florence;Wu,Ting-Di;Caouaille,Maxime ;Bousso, Philippe ;Poquet,Yannick;Neyrolles,Olivier;	10.1073/pnas.2503966122
2026	CELL	Cell Reports	Longevity of cardiac and skeletal muscle proteins are dependent on tissue and subcellular compartmentation patterns.	GugelJack;Currie,Jordan;Alamillo,Lorena;Flint,Jason;Kim,Keunyoung;Debliqui,Marc;Ellisman,MarkH.;Lam,MaggieP.Y.;Lau,Edward;ArrojoeDrigo,Rafael;Leinwand,Leslie;	
2007	ENVBIO	SCIENCE	Quantitative imaging of nitrogen fixation by individual bacteria within animal cells	Lechene,Claude P.;Luyten,Yvette;McMahon,Gregory;Distel,Daniel L.;	10.1126/science.1145557
2007	ENVBIO	The ISME journal	Carbon and nitrogen fixation and metabolite exchange in and between individual cells of Anabaena oscillarioides.. The ISME Journal (2007) 1, 354–360	Popa,Radu;Weber,Peter K.;Pett-Ridge,Jennifer;Finzi,Juliette A ;Fallon,Stewart J.;Hutcheon, Ian D.;Nealson,K. H.;Capone,Douglas G.;	
2008	ENVBIO	Applied and Environmental Microbiology	Linking microbial phylogeny to metabolic activity at the single-cell level by using enhanced element labeling-catalyzed reporter deposition Fluorescence In Situ Hybridization and nanometer-scale Secondary-Ion Mass Spectrometry	Behrens,Sebastian;Losekann,Tina;Pett-Ridge,Jennifer;Weber,Peter K.;Ng,Wing-On;Stevenson,Bradley S.;Hutcheon,Ian D.;Relman,David A.;Spormann,Alfred M.;	10.1128/AEM.00191-08
2008	ENVBIO	PNAS	A single-cell view on the ecophysiology of anaerobic phototrophic bacteria, v105, n46 p17861–17866	Musat,Niculina;Halm,H.;Winterholler,B.;Hoppe,Peter;Peduzzi,S.;Hillion,Francois;Horreard,Francois;Amann,Rudolf I.;Jorgensen,B.B.;Kuypers,MarcelM.M.;	
2008	ENVBIO	Environmental Microbiology	Simultaneous analysis of microbial identity and function using NanoSIMS, 10(3):580-588	Li,Tianlun;Wu,Ting-Di;Mazeas,Laurent;Toffin,Laurent;Guerquin-Kern,Jean-Luc;Leblon,G.;Bouchez,Theodore;	
2008	ENVBIO	Analytical Chemistry	Imaging and 3D Elemental Characterization of Intact Bacterial Spores by High-Resolution Secondary Ion Mass Spectrometry,80, 15, 5986-5992	Ghosal,Sutapa;Fallon,Steward J.;Leighton,Terrance J.;Wheeler,Katherine D.;Kristo,Michael J.;Hutcheon,Ian D.;Weber,Peter K.;	10.1021/ac8006279
2009	ENVBIO	Science	Deep-Sea Archaea fix and share nitrogen in methane-consuming microbial consortia, v326	Dekas,Anne E.;Poretsky,Rachel S.;Orphan,Victoria J.;	10.1126/science.1178223
2009	ENVBIO	PNAS	Fixation and fate of C and N in the cyanobacterium Trichodesmium using nanometer-scale secondary ion mass spectrometry. PNAS April 14, 2009, vol. 106 no. 15, p.6345–6350	Finzi-Harta,Juliette A.;Pett-Ridge,Jennifer;Weber,Peter K.;Popa,Radu;Fallon,Stewart J.;Gunderson,Troy;Hutcheon,Ian D.;Nealson,Kenneth H.;Capone,Douglas G.	
2009	ENVBIO	Environmental Microbiology	Co-occurrence of denitrification and nitrogen fixation in a meromictic lake, Lake Cadagno (Switzerland)	Halm,Hannah;Musat,Niculina;Lam,Phyllis;Langlois,Rebecca;Musat,Florin;Peduzzi,Sandro;Lavik,Gaute;Schubert,Carsten J.;Singha,Berbel;LaRoche,Julie;Kuypers,Marcel M.M.;	
2009	ENVBIO	Journal of Microscopy	NanoSIMS imaging of Bacillus spores sectioned by Focused Ion Beam, 238: 189-199	Ghosal,Sutapa;Fallon,Steward J.;Leighton,Terrance J.;Wheeler,Katherine D.;Kristo,Michael J.;Hutcheon,Ian D.;Weber,Peter K.;	
2010	ENVBIO	Science	A Bacterium That Can Grow by Using Arsenic Instead of Phosphorus,1197258	Wolfe-Simon,Felisa;Switzer Blum,Jodi;Kulp,Thomas R.;Gordon,Gwyneth W.;Hoeft,Shelley E.;Pett-Ridge,Jennifer;Stolz,John F.;Webb,Samuel M.;Weber,Peter K.;Davies,Paul C. W.;Anbar,Ariel D.;Oremland,Ronald S.;	10.1126/science.1197258
2010	ENVBIO	The ISME Journal	Carbon and nitrogen fluxes associated with the cyanobacterium Aphanizomenon sp. in the Baltic Sea	Ploug,Hell;Musat,Niculina;Adam,Birgit;Moraru,Christina;Lavik,Gaute;Vagner,Tomas;Bergman,Birgitta;Kuypers,Marcel M.M.;	
2010	ENVBIO	Applied and Environmental Microbiology	Iron sources used by the non pathogenic lactic acid bacterium Lactobacillus sakei revealed by electron energy loss spectroscopy and secondary ion mass spectrometry. Applied and Environmental Microbiology, 2010, 79(2): 560-565 . doi: 10.1128/AEM.02205-09	Duhutrel,Philippe;Bordat,Christian;Wu,Ting-Di;Zagorec,Monique;Guerquin-Kern,Jean-Luc;Champomier-Verge,Marie-Christine;	
2010	ENVBIO	Applied and Environmental Microbiology	Spatially resolved characterization of water and ion incorporation in Bacillus spores,76: 3275–3282. doi:10.1128/AEM.02485-09	Ghosal,Sutapa;Leighton,Terrance J.;Wheeler,Katherine E.;Hutcheon,Ian D.;Weber,Peter K.;	
2011	ENVBIO	PNAS	Carbon and nitrogen assimilation in deep subseafloor microbial cells,v108,no. 45 18295-18300.	Morono,Yuki;Terada,Takeshi;Nishizawa,Manabu;Ito,Motoo;Hillion,Francois;Takahata,Naoto;Sano,Yuji;Inagakia,Fumio;	
2011	ENVBIO	The ISME Journal	Carbon, nitrogen and O2 fluxes associated with the cyanobacterium Nodularia spumigena in the Baltic Sea. . The ISME Journal (2011), 1–10.	Ploug,Helle;Adam,Birgit ;Musat,Niculina;Kalvelage,Tim;Lavik,Gaute;Wolf-Gladrow,Dieter;Kuypers,Marcel M.M.;	
2011	ENVBIO	The ISME Journal	Nitrogen fixation and transfer in open ocean diatom–cyanobacterial symbioses, p1–10.	Foster,Rachel A.;Kuypers, Marcel M.M.;Vagner,Tomas;Paerl,Ryan W.;Musat,Niculina;Zehr,Jonathan P.	10.1038/ismej.2011.26
2011	ENVBIO	PNAS	Nitrososphaera viennensis, an ammonia oxidizing archaeon from soil.	Tourna,Maria;Stieglmeier,Michaela;Spang,Anja;Konneke,Martin;Schintlmeister,Arno;Urich,Tim;Engel,Marion;Schloter,Michael;Wagner,Michael;Richter,Andreas;Schleper,Christa;	10.1073/pnas.1013488108
2011	ENVBIO	Journal of Theoretical Biology	Reaction-diffusion model of nutrient uptake in a biofilm: theory and experiment. Journal of Theoretical Biology, 2011: 289: 90-95. [Epub 2011 Aug 10]. DOI:	Petroff,Alexander P.;Wu,Ting-Di;Liang,Biqing;Mui,Jeannie;Guerquin-Kern,Jean-Luc;Vali,Hojatollah;Rothman,Daniel H.;Bosak,Tanja;	10.1016/j.jtbi.2011.08.004
2011	ENVBIO	New Journal of Physics	NanoSIMS50 analyses of Ar/18O2 plasma-treated Escherichia coli bacteria, v13	Clement,Frederic;Lecoq,E;Duday,David;Belmonte,Thierry;Audinot,Jean-Nicolas;Lentzen,Esther;Penny,Christian;Cauchie,Henry-Michel;Choquet,Patrick;	
2012	ENVBIO	The ISME journal	Anoxic carbon flux in photosynthetic microbial mats as revealed by metatranscriptomics. The ISME Journal (2012), p. 1–13	Burow,Luke C.;Woebken,Dagmar;Marshall,Ian P.G.;Lindquist,Erika A.;Bebout,Brad M.;Prufert-Bebout,Leslie;Hoehler,Tori M.;Tringe,Susnnah G.;Pett-Ridge,Jennifer;Weber,Peter K.;Spormann,Alfred M.;Singer,Steven W.	
2012	ENVBIO	PLoS One	Cell-Specific Thioautotrophic Productivity of Epsilon-Proteobacterial Epibionts Associated with Shinkaia crosnieri, v 7, Issue 10, e46282	Watsuji,Tomo-o;Nishizawa,Manabu;Morono,Yuki;Hirayama,Hisako;Kawagucci,Shinsuke;Takahata,Naoto;Sano,Yuji;Takai,Ken;	
2012	ENVBIO	The ISME journal	High-throughput isotopic analysis of RNA microarrays to quantify microbial resource use	Mayali,Xavier;Weber,Peter K.;Brodie,Eoin L.;Mabery,Shalini;Hoeprich,Paul D.;Pett-Ridge,Jennifer;	
2012	ENVBIO	Science	Unicellular Cyanobacterium Symbiotic with a Single-Celled Eukaryotic alga	Thompson,Anne W.;Foster,Rachel A.;Krupke,Andreas;Carter,Brandon J.;Musat,Niculina;Vaulot,Daniel;Kuypers,Marcel M. M.;Zehr,Jonathan P.;	10.1126/science.1222700
2012	ENVBIO	The ISME Journal	Anaerobic degradation of propane and butane by sulfate-reducing bacteria enriched from marine hydrocarbon cold seeps, 1–11	Jaekel,Ulrike;Musat,Niculina;Adam,Birgit;Kuypers,MarcelM.M.;Grundmann,Olav;Must,Florin;	
2012	ENVBIO	Environmental Microbiology	Viral infection of Phaeocystis globosa impedes release of chitinous star-like structures: quantification using single cell approaches	Sheik,Abdul R.;Brussaard,Corina P.D.;Lavik,Gaute;Foster,Rachel A.;Musat,Niculina;Adam,Birgit;Kuypers,Marcel M.M.;	
2012	ENVBIO	Geobiology	Cyanobacterial diversity and activity in modern conical microbialites, 10, 384–401	Bosak,Tanja;Liang,Biqing;Wu,Ting-Di ,Templer,S. P.; Evans,A. ; Vali,H.;Guerquin-Kern,Jean-Luc; KLEPAC-CERAJ, V.; SIM,M. S.; MUI, J.	
2012	ENVBIO	The ISME Journal	A single-cell view of ammonium assimilation in coral–dinoflagellate symbiosis.	Pernice,Mathieu;Meibom,Anders;Van Den Heuvel,Annamieke;Kopp,Christophe;Domart-Coulon,Isabelle;Hoegh-Guldberg,Ove;Dove,Sophie;	10.1038/ismej.2011.196
2012	ENVBIO	The ISME journal	Identification of a novel cyanobacterial group as active diazotrophs in a coastal microbial mat using NanoSIMS analysis. . The ISME Journal (2012), 1–13	Woebken,Dagmar;Burow, Luke C.;Prufert-Bebout,Leslie;Bebout,Brad M.;Hoehler,Tori M.;Pett-Ridge,Jennifer;Spormann,Alfred M; Weber,Peter K.;Singer,Steven W.	
2012	ENVBIO	Nature	Zero-valent sulphur is a key intermediate in marine methane oxidation. v491, p. 541–546	Milucka,Jana;Ferdelman,Timothy G.;Polerecky,Lubos;Franzke,Daniela;Wegener,Gunter;Schmid,Markus;Lieberwirth,Ingo;Wagner,Michael;Widdel,Friedrich;Kuypers,Marcel M.M.;	10.1038/nature11656
2012	ENVBIO	Systematic and Applied Microbiology	HISH–SIMS analysis of bacterial uptake of algal-derived carbon in the Río de la Plata estuary. (2012). Systematic and Applied Microbiology 35, 8, 541-548. doi.org/10.1016/j.syapm.2012.08.004	Alonso,Cecilia;Musat,Niculina;Adam,Birgit;Kuypers,Marcel M.M.;Amann,Rudolf;	
2012	ENVBIO	Anal Bioanal Chem	NanoSIMS50-a powerful tool to elucidate cellular localization of halogenated organic compounds, 404:2693–2698,	Gutleb,Arno C.;Freitas ,Jaime;Murk,Albertinka J.;Verhaegen,Steven;Ropstad,Erik;Udelhoven,Thomas;Hoffmann,Lucien;Audinot,Jean-Nicolas;	10.1007/s00216-012-6066-8
2013	ENVBIO	PNAS	Host-compound foraging by intestinal microbiota revealed by single-cell stable isotope probing	Berry,David;Stecher,Barbel;Schintlmeister,Arno;Reichert,Jochen;Brugiroux,Sandrine;Wild,Birgit;Wanek,Wolfgang;Richter,Andreas;Rauch,Isabella;Decker,Thomas;Loy,Alexander;Wagner,Michael;	10.1073/pnas.1219247110
2013	ENVBIO	mBio	Highly dynamic cellular-level response of symbiotic coral to a sudden increase in environmental nitrogen	Kopp,Christophe; Pernice,Matthieu;Domart-Coulon,Isabelle;Djediat,Chakib;Spangenberg,Jorge E.;Alexander,DuncanT.L.;Hignette,Michel;Meziane,Tarik;Meibom,Anders;	10.1128/mBio.00052-13
2013	ENVBIO	MicrobiologyOpen	Members of the uncultured bacterial candidate division WWE1 are implicated in anaerobic digestion of cellulose, 3(2): 157–167	Limam,Rim Driss;Chouari,Rakia;Mazeas,Laurent;Wu,Ting-Di;Li,Tianlun;Grossin-Debattista,Julien;Guerquin-Kern,Jean-Luc;Saidi,Mouldi;Landoulsi,Ahmed;Sghir,Abdelghani;Bouchez,Theodore	10.1002/mbo3.144
2013	ENVBIO	Ecology and Evolution	Nutrient cycling in early coral life stages: Pocillopora damicornis larvae provide their algal symbiont (Symbiodinium) with nitrogen acquired from bacterial associates, 3(8): 2393–2400	Ceh,Janja;Kilburn,Matt R.;Cliff,John B.;Raina,Jean-Baptiste;van Keulen,Mike;Bourne,David G.;	
2013	ENVBIO	Nature Chemical Biology	Mycobacterium tuberculosis nitrogen assimilation and host colonization require aspartate. . Nature Chemical Biology. 2013 Nov;9(11):674-6	Gouzy,Alexandre;Larrouy-Maumus,Gerald;Wu,Ting-Di;Peixoto,Antonio;Levillain,Florence;Lugo-Villarino,Geanncarlo;Gerquin-Kern,Jean-Luc;Sorio de Carvalho,Luiz Pedro;Poquet,Yannick;Neyrolles,Olivier;	
2013	ENVBIO	Systematic and Applied Microbiology	In situ identification and N2 and C fixation rates of uncultivated cyanobacteria populations. . Systematic and Applied Microbiology, June, 2013.	Krupke,Andreas;Musat,Niculina;LaRoche,Julie;Mohr,Wiebke;Fuchs,Bernhard M.;Amann,Rudolf I.;Kuypers, Marcel M.M.;Foster,Rachel A.;	10.1016/j.syapm.2013.02.002
2013	ENVBIO	The ISME Journal	Responses of the coastal bacterial community to viral infection of the algae Phaeocystis globosa, 1–14	Sheik,Abdul R.;Brussaard,Corina P.D.;Lavik,Gaute;Lam,Phyllis;Musat,Niculina;Krupke,Andreas;Littmann,Sten;Strous,Marc;Kuypers,Marcel M.M.;	
2013	ENVBIO	Journal of Phycology	Measuring carbon and N2 fixation in field populations of colonial and free-living unicellular cyanobacteria using nanometer-scale secondary ion mass spectrometry,v 49, Issue 3,pp502–516	Foster,Rachel A.;Sztejrenszus,Saar;Kuypers,Marcel M.M.;	
2013	ENVBIO	Microscopy and Microanalysis	Correlated SEM, FIB-SEM, TEM, and NanoSIMS Imaging of Microbes from the Hindgut of a Lower Termite: Methods for In Situ Functional and Ecological Studies of Uncultivable Microbes. . Microscopy and Microanalysis 19, 1490–1501, 2013. DOI:10.1017/S1431927613013482	Carpenter,Kevin J.;Weber,Peter K.;Davisson,M. Lee ; Pett-Ridge, Jennifer; Haverty,Michael I. ; Keeling, Patrick J.;	

2013	ENVBIO	PLoS One	Resolution of conflicting signals at the single-cell level in the regulation of cynobacterial photosynthesis and nitrogen fixation. . Plos One, June 2013, vol. 8, issue 6.	Mohr,Wiebke;Vagner,Tomas;Kuypers,Marcel M.M.;Ackermann,Martin;LaRoche,Julie	
2013	ENVBIO	FEMS Microbiology Ecology	Taxon-specific C/N relative use efficiency for amino acids in an estuarine community, 83: 402-412	Mayali,Xavier;Weber,Peter K.;Pett-Ridge,Jennifer;	10.1111/j.1574-6941.12000.x
2013	ENVBIO	Plasma Processes & Polymers	Study of Reactive Oxygen or/and Nitrogen Species Binding Processes on E. coli Bacteria with Mass Spectrometry Isotopic Nanoimaging	Duday,David;Clement,Franck;Lecoq,Elodie;Penny,Christian;Audinot,Jean-Nicolas;Belmonte,Thierry;Kutasi,Kinga;Cauchie,Henry-Michel;Choquet,Patrick;	
2013	ENVBIO	PLoS One	SIMSISH technique does not alter the apparent isotopic composition of bacterial cells,v8(10) e77522	Chapleur,Olivier;Wu,Ting-Di;Guerquin-Kern,Jean-Luc;Mazeas,Laurent;Bouchez,Theodore;	10.1371/journal.pone.0077522
2014	ENVBIO	Science	Growth of nitrite-oxidizing bacteria by aerobic hydrogen oxidation,v345 issue 6200	Koch,Hanna;Galushko,Alexander;Albertsen,Mads;Schintlmeister,Arno;Gruber-Dorninger,Christiane;Lucker,Sebastian;Pelletier,Eric;Le Paslier,Denis;Spieck,Eva;Richter,Andreas;Nielsen,Per H.;Wagner,Michael;Daims,Holger;	
2014	ENVBIO	Environmental Microbiology	In situ visualization of newly synthesized proteins in environmental microbes using amino acid tagging and click chemistry. Environmental Microbiology (2014) 16(8), 2568–2590	Hatzenpichler,Roland;Scheller,Silvan;Tavormina,Patricia L.;Babin,Brett M.;Tirrell,David A.;Orphan,Victoria J.;	10.1111/1462-2920.12436
2014	ENVBIO	PLoS Pathogens	Mycobacterium tuberculosis Exploits Asparagine to Assimilate Nitrogen and Resist Acid Stress during Infection, 10,2	Gouzy,Alexandre;Larrouy-Maumus,Gerald;Bottai,Daria;Levillain,Florence;Dumas,Alexia;Wallach,Joshua B.;Caire-Brandli,Irene;de Chastellier,Chantal;Wu,Ting-Di;Poincloux,Renaud;Brosch,Roland;Guerquin-Kern,Jean-Lu;Schnappinger,Dirk;Sorio de Carvalho,Louis Pedro;Poquet,Yannick;Neyrolles,Olivier;	
2014	ENVBIO	Nature Communications	Carbonate-hosted methanotrophy represents an unrecognized methane sink in the deep sea,v5,5094	Marlow,Jeffrey J.;Steele,Joshua A.;Ziebis,Wiebke;Thurber,Andrew R.;Levin,Lisa A.;Orphan,Victoria J.;	
2014	ENVBIO	Environmental Microbiology	Spatial distribution of nitrogen fixation in methane seep sediment and the role of the ANME archaea. . Environmental Microbiology (2014) 16(10), 3012–3029. doi:10.1111/1462-2920.12247	Dekas,Anne E.;Chadwick,Grayson L.;Bowles,Marshall W.;Joye,Samantha B.;Orphan,Victoria J.;	10.1111/1462-2920.12247
2014	ENVBIO	Systematic and Applied Microbiology	The effect of FISH and CARD-FISH on the isotopic compositionof 13C-and15N-labeled Pseudomonas putida cells measuredby NanoSIMS	Musat,Niculina;Stryhanyuk,Hryhoriy;Bombach,Petra;Adrian,Lorenz;Audinot,Jean-Nicolas;Richnow,Hans H.;	10.1016/j.syapm.2014.02.002
2014	ENVBIO	Frontiers in Microbiology	Fermentation couples Chloroflexiand sulfate-reducing bacteria to Cyanobacteriain hypersaline microbial mats.Frontiers in Microbiology, v5, 61, 1	Lee,Jackson Z.;Burow,Luke C.;Woebken,Dagmar;Everroad,R. Craig;Kubo,Mike D.;Spormann,Alfred M.;Weber,Peter K.;Pett-Ridge,Jennifer;Bebout,Brad M.;Hoehler,Tori M.;	10.3389/fmicb.2014.00061
2014	ENVBIO	The ISME Journal	Nitrate-based niche differentiation by distinct sulfate-reducing bacteria involved in the anaerobic oxidation of methane. The ISME Journal (2014) 8, 150–163. DOI:10.1038/ismej.2013.147	Green-Saxena,Abigail;Dekas,Anke;Dalleska,Nathan F.;Orphan,Victoria J.;	
2014	ENVBIO	Environmental Microbiology	A nanoscale secondary ion mass spectrometry study of dinoflagellate functional diversity in reef-building corals. . Environmental Microbiology (2014) doi:10.1111/1462-2920.12518	Pernice,Mathieu;Dunn,Simon R.;Tonk,Linda;Dove,Sophie;Domart-Coulon,Isabelle;Hoppe,Peter;Schintlmeister,Arno;Wagner,Michael;Meibom,Anders;	10.1111/1462-2920.12518
2014	ENVBIO	PLoS One	Phylogenetic Patterns in the Microbial Response to Resource Availability: Amino Acid Incorporation in San Francisco Bay,v9, 4	Mayali,Xavier;Weber,Peter K.;Mabery,Shalini;Pett-Ridge,Jennifer;	
2014	ENVBIO	FEMS Microbiology Ecology	Epifluorescence, SEM, TEM and nanoSIMS image analysis of the cold-phenotype of Clostridium psychrophilum at subzero temperatures. (2014) FEMS Microbiology Ecology 90, 3, 869-882, doi: 10.1111/1574-6941.12443	Perfumo,Amedea;Elsaesser,Andreas;Littmann,Sten;Foster,Rachel A.;Kuypers,Marcel M.M.;Cockell,Charles S.; Kminek,Gerhard;	
2014	ENVBIO	FEMS Microbiology Ecology	Identification and activity of acetate-assimilating bacteria in diffuse fluids venting from two deep-sea hydrothermal systems, 90, 3, 731-746	Winkel,Matthias;Pjevac,Petra;Kleiner,Manuel;Littmann,Sten;Meyerdierks,Anke;Amann,Rudolf I.;Mussmann,Marc;	10.1111/1574-6941.12429.
2014	ENVBIO	PLoS One	Cyanophycin mediates the accumulation and storage of fixed carbon in non-heterocystous filamentous cyanobacteria from coniform mats. . PLoS One, 2014, 9(2):e88142. [doi:]	Liang,Bixiong;Wu,Ting-Di;Sun,Hao-Jhe;Vali,Hojatollah;Guerquin-Kern,Jean-Luc;Wang,Chung-Ho;Bosak,Tanja;	10.1371/journal.pone.0088142
2014	ENVBIO	Systematic and Applied Microbiology	Gold-ISH: A nano-size gold particle-based phylogenetic identification compatible with NanoSIMS,v37, 261–266	Kubota,Kengo;Morono,Yuki;Ito,Motoo;Terada,Takeshi;Itezono,Shogo;Harada,Hideki;Inagaki,Fumio;	10.1016/j.syapm.2014.02.003
2014	ENVBIO	Nature communications	Biology of a widespread uncultivated archaeon that contributes to carbon fixation in the subsurface, 5:5497	Probst,Alexander J.;Weinmaier,Thomas;Raymann,Kasie;Perras,Alexandra;Emerson,Joanne B.;Rattei,Thomas;Wanner,Gerhard;Klingl,Andreas;Berg,Ivan A.;Yoshinaga,Marcos;Viehweger,Bernhard;Hinrichs,Kai-Uwe;Thomas,Brian C.;Meck,Sandra;Auerbach,Anna K.;Heise,Matthias;Schintlmeister,Arno;Schmid,Markus;Wagner,Michael;Gribaldo,Simonetta;Banfield ,Jillian F.;Moissl-Eichinger,Christine;	10.1038/ncomms6497
2015	ENVBIO	Nature	Single cell activity reveals direct electron transfer in methanotrophic consortia,526, 531–535	McGlynn,Shawn E.;Chadwick,Grayson L.;Kempes,Christopher P.;Orphan,Victoria J.;	
2015	ENVBIO	Science	Exploring deep microbial life in coal-bearing sediment down to ~2.5 km below the ocean floor, v349, no6246, p420-424	Inagaki,Fumio;Hinrichs,Kai-Uwe;Kubo,Y. ;Bowles,Marshall W.;Heuer,V.B.;Hong,Wei-Li;Hoshino, T. ;Ijiri, A. ;Imachi,Hiroyuki;Ito,Motoo;Kaneko,Masanori;Lever,Mark Alexander;Lin,Yu-Shih;Methe,Barbara;Morita,Sumito;Morono,Yuki;Tanikawa,W.;Bihan,M.;Bowden,S. A.;Elvert,Marcus;Glombitza,Clemens;Gross,Doris;Harrington,G. J.; Hori,Tomoyuki;Li, K. ;Limmer,David;Liu,Char-Shine;Murayama,Masafumi;Ohkouchi,Naohiko;Ono,Shuhei;Park,Y.-S.; Phillips,Stephen C.;Prieto-Mollar, X.; Purkey,M.;Riedinger,N. ;Sanada,Yoshinori;Sauvage,J.;Snyder,G. ;Susilawati,Rita;Takano,Yoshinori; Tasumi,E.; Terada,Takeshi;Tomaru,H. ; Trembath-Reichert,Elisabeth;Wang,D. T.;Yamada,Yasuhiro;	10.1126/science.aaa6882
2015	ENVBIO	PNAS	Tracking heavy water (D2O) incorporation for identifying and sorting active microbial cells. Proc Natl Acad Sci U S A. 2015 Jan 13;112(2):E194-203. doi:. Epub 2014 Dec 30.	Berry, David;Mader, Esther;Lee, Tae Kwon;Woebken, Dagmar;Wang, Yun;Zhu, Di;Palatinszky, Marton;Schintlmeister, Arno;Schmid, Markus C.;Hanson, Buck T.;Shterzer, Naama;Mizrahi, Itzhak;Rauch, Isabella;Decker, Thomas;Bocklitz, Thomas;Popp, Jürgen;Gibson, Christopher M.;Fowler, Patrick W.;Huang, Wei E.;Wagner, Michael	10.1073/pnas.1420406112
2015	ENVBIO	The ISME Journal	Methane oxidation coupled to oxygenic photosynthesis in anoxic waters,9	Milucka,Jana;Kirf,Mathias;Lu,Lu;Krupke,Andreas;Lam,Phyllis;Littmann,Sten;Kuypers,Marcel M.M.;Schubert,Carsten J.;	10.1038/ismej.2015.12
2015	ENVBIO	PLoS One	Light-Dependent Aerobic Methane Oxidation Reduces Methane Emissions From Seasonally Stratified Lakes	Oswald,Kristen;Milucka,Jana;Brand,Andreas;Littmann,Sten;Wehrli,Bernhard;Kuypers,Marcel M.M.;Schubert,Carsten J.;	10.1371/journal.pone.0132574
2015	ENVBIO	The ISME journal	Cyanobacterial reuse of extracellular organic carbon in microbial mats	Stuart,Rhona K.;Mayali,Xavier;Lee,Jackson Z.;Everroad,R. Craig;Hwang,Mona;Bebout,Brad M.;Weber,Peter K.;Pett-Ridge,Jennifer;Thelen,Michael P.;	
2015	ENVBIO	The ISME journal	Microbial carbon metabolism associated with electrogenic sulphur oxidation in coastal sediments,9,9,p1966-1978	Vasquez-Cardenas,Diana;van de Vossenberg,Jack;Polerecky,Lubos;Malkin,Sairah Y.;Schauer,Regina;Hidalgo-Martinez,Silvia;Confurius,Veronique;Middelburg,Jack J.;Meysman,Filip J.R.;Boschker,Henricus T.S.;	10.1038/ismej.2015.10
2015	ENVBIO	mBio	Subcellular Investigation of Photosynthesis-Driven Carbon assimilation in the Symbiotic Reef Coral Pocillopora damicornis,1:e02299-14	Kopp,Christophe;Domart-Coulon,Isabelle;Escrig,Stephane;Humbel,Bruno M.;Hignette,Michel;Meibom,Anders;	10.1128/mBio.02299-14
2015	ENVBIO	The ISME Journal	N2-fixation, ammonium release and N-transfer to the microbial and classical food web within a plankton community, v10	Adam,Birgit;Klawonn,Isabell;Svedén,Jennie B.;Bergkvist,Johanna;Nahar,Nurun;Walve,Jakob;Littmann,Sten;Whitehouse,Martin J.;Lavik,Gaute;Kuypers,Marcel M.M.;Ploug,Helle;	10.1038/ismej.2015.126
2015	ENVBIO	Environmental Microbiology	Heavy water and 15N labelling with NanoSIMS analysis reveals growth rate-dependent metabolic heterogeneity in chemostats,17(7):2542-56	Kopf,Sebastian H.;McGlynn Shawn E.;Green-Saxena,Abigail;Guan,Yunbin;Newman,Dianne K.;Orphan,Victoria J.;	10.1111/1462-2920.12752
2015	ENVBIO	The ISME Journal	The effect of nutrients on carbon and nitrogen fixation by the UCYN-A–haptophyte symbiosis.. The ISME Journal 9, 1635-1647 (July 2015) | doi:	Krupke,Andreas;Mohr,Wiebke;LaRoche,Julie ;Fuchs,Bernhard M.;Amann,Rudolf I.;Kuypers,Marcel M.M.;	10.1038/ismej.2014.253
2015	ENVBIO	Frontiers in Microbiology	Phenotypic heterogeneity in metabolic traits among single cells of a rare bacterial species in its natural environment quantified with a combination of flow cell sorting and NanoSIMS. Frontiers in Microbiology, 1 April 2015|Volume6|Article243	Zimmermann,Matthias;Escrig,Stephane;Hubschmann,Thomas;Kirf,Mathias K.;Brand,Andreas;Inglis,R.Fredrik|Musat,Niculina;Muller,Susann;Meibom,Anders;Ackermann,Martin;Schreiber,Frank;	
2015	ENVBIO	The ISME Journal	Revisiting N fixation in Guerrero Negro intertidal microbial mats with a functional single-cell approach. . The ISME journal 2015 Feb;9(2):485-96	Woebken,Dagmar;Burow,Luke C.;Behnam,Faris;Mayali,Xavier;Schintlmeister,Arno;Fleming,Erich D.;Prufert-Bebout,Leslie;Singer,Steven W.;Lopes Cortes,Alejandro;Hoehler,Tori M.;Pett-Ridge,Jennifer;Spormann,Alfred M.;Wagner,Michal;Weber,Peter K.;Bebout,Brad M.;	10.1038/ismej.2014.144
2015	ENVBIO	The ISME Journal	Activity and interactions of methane seep microorganisms assessed by parallel transcription and FISH-NanoSIMS analyses	Dekas,Anne E;Connon,Stephanie A.;Chadwick,Grayson L.;Trembath-Reichert,Elizabeth;Orphan,Victoria J.;	
2015	ENVBIO	The ISME journal	Light microenvironment and single-cell gradients of carbon fixation in tissues of symbiont-bearing corals	Wangpraseurt,Daniel;Pernice,Mathieu;Guagliardo,Paul ;Kilburn,Matt R.;Clode,Peta L.;Polerecky,Lubos ;Kuhl,Michael;	10.1038/ismej.2015.133
2015	ENVBIO	The ISME journal	In situ phenotypic heterogeneity among single cells of the filamentous bacterium Candidatus Microthrix parvicella	Sheik,Abdul R .;Muller,Emilie E.L.;Audinot,Jean-Nicolas;Lebrun,Laura A .;Grysan,Patrick;Guignard,Cedric;Wilmes,Paul;	10.1038/ismej.2015.181
2015	ENVBIO	The ISME journal	Imaging the uptake of nitrogen-fixing bacteria into larvae of the coral Acropora millepora	Lema,Kimberley A.; Clode,Peta L.;Kilburn,Matt R.;Thornton,Ruth;Willis,Bette L .;Bourne,David G.;	10.1038/ismej.2015.229
2015	ENVBIO	Environmental Microbiology	Use of carbon monoxide and hydrogen by a bacteria–animal symbiosis from seagrass sediments	Kleiner,Manuel;Wentrup,Cecilia;Holler,Thomas;Lavik,Gaute;Harder,Jens;Lott,Christian;Littmann,Sten ;Kuypers,Marcel M.M.;Dubilier,Nicole;	10.1111/1462-2920.12912
2015	ENVBIO	Zoology	MALDI-MS and NanoSIMS imaging techniques to study cnidarian–dinoflagellate symbioses,118, 125–131	Kopp,Christophe;Wisztorski,Maxence;Revel,Johana;Mehirie,Mohammed;Dani,Vincent;Capron,Laure;Carette,Diane;Fournier,Isabelle;Massi,Lionel;Mouajjah,Dounia;Pagnotta,Sophie;Prioux eau,Fabrice;Salzet,Michel;Meibom,Anders;Sabourault,Cecile;	10.1016/j.zool.2014.06.006

2015	ENVBIO	Geochimica et Cosmochimica Acta	Coexistence of Fe(II)- and Mn(II)-oxidizing bacteria govern the formation of deep sea umber deposits, v169,p200–216	Peng,Xiaotong;Ta,Kaiwen;Chen,Shun;Zhang,Lijuan;Xu,Hengchao;	
2016	ENVBIO	Frontiers in Microbiology	Superposition of Individual Activities: Urea-Mediated Suppression of Nitrate Uptake in the Dinoflagellate Prorocentrumminimum Revealed at the Population and Single-Cell Levels.. Frontiers in Microbiology. 1 August 2016, Volume7, Article 1310. doi: 10.3389/fmicb.2016.01310	Matantseva,Olga;Skarlato,Sergei ;Vogts,Angela;Pozdnyakov,Ilya;Liskow,Iris;	10.3389/fmicb.2016.01310
2016	ENVBIO	Applied and Environmental Microbiology	Genome Evolution and Nitrogen Fixation in Bacterial Ectosymbionts of a Protist Inhabiting Wood-Feeding Cockroaches. . Applied and Environmental Microbiology. August 2016 ; 82:4682-4695published ahead of print 27 May 2016 doi:10.1128/AEM.00611-16	Tai,Vera;Carpenter,Kevin J.;Weber,Peter K.;Nalepa,Christine A.;Perlman, Steve J.;Keeling,Patrick J.;	10.1128/AEM.00611-16
2016	ENVBIO	Science	Artificial electron acceptors decouple archaeal methane oxidation from sulfate reduction,v351, Issue 6274, p703-707	Scheller,Silvan;Yu,Hang;Chadwick,Grayson L.;McGlynn,Shawn E.;Orphan,Victoria J.;	10.1126/science.aad7154
2016	ENVBIO	Nature Microbiology	The small unicellular diazotrophic symbiont, UCYN-A, is a key player in the marine nitrogen cycle,16163	Martinez-Perez,Clara;Mohr,Wiebke; Loscher,Carolin R.;Dekaezemacker,julien;Littmann,Sten;Yilmaz,Pelin;Lehnen,Nadine;Fuchs, Bernhard M.;Lavik, Gaute;Schmitz,Ruth A.;LaRoche,Julie;Kuypers,Marcel M.M.;	
2016	ENVBIO	Nature Microbiology	Phenotypic heterogeneity driven by nutrient limitation promotes growth in fluctuating environments. . Nature Microbiology 1, published: 9 May 2016. Article number: 16055 (2016) doi:10.1038/nmicrobiol.2016.55	Schreiber,Frank;Littmann,Sten;Lavik, Gaute ;Escrig,Stephane;Meibom,Anders; Kuypers,Marcel M. M.;Ackermann,Martin;	
2016	ENVBIO	Limnology and Oceanography	Aerobic gammaproteobacterial methanotrophs mitigate methane emissions from oxic and anoxic lake waters. Limnology and Oceanography 61, 2016, S101–S118	Oswald,Kirsten;Milucka,Jana;Brand,Andreas;Hach,Philipp;Littmann ,Sten;Wehrli,Bernhard;Kuypers,Marcel M.M.;Schubert,Carsten J.;	
2016	ENVBIO	Environmental Science & Technology	Cable Bacteria Control Iron–Phosphorus Dynamics in Sediments of a Coastal Hypoxic Basin, 50 (3), pp 1227–1233	Sulu-Gambari,Fatimah;Seitaj,Dorina;Meysman, Filip J. R.;Schauer,Regina;Polerecky,Lubos;Slomp,Caroline P.;	10.1021/acs.est.5b04369
2016	ENVBIO	Scientific Reports	Unearthing the Antibacterial Mechanism of Medicinal Clay: A Geochemical Approach to Combating Antibiotic Resistance v6, 19043	Morrison,Keith D.;Misra,Rajeev;Williams,Lynda B.;	10.1038/srep19043
2016	ENVBIO	PNAS	Trace incorporation of heavy water reveals slow and heterogeneous pathogen growth rates in cystic fibrosis sputum, 113 (2) E110-E116	Kopf,Sebastian H.;Sessions,Alex L.;Cowley,Elise S.;Reyes,Carmen;Van Sambeek,Lindsey;Hu,Yang;Orphan,Victoria J. ;Kato,Roberta;Newman,Dianne K.;	
2016	ENVBIO	Environ. Sci. Technol	Antibacterial Activity of Aluminum in Clay from the Colombian Amazon, 51 (4), pp 2401–2408	Londono,Carolina;Hartnett,Hilairy E.;Williams,Lynda B.;	10.1021/acs.est.6b04670
2016	ENVBIO	Limnology and Oceanography	Diazotroph derived nitrogen supports diatom growth in the South West Pacific: A quantitative study using nanoSIMS, v61, Issue 5, September 2016, Pages: 1549–1562, DOI :	Bonnet,Sophie;Berthelot,Hugo;Turk-Kubo,Kendra;Cornet-Barthaux,Veronique;Fawcett,Sarah;Berman-Frank,Ilana;Barani,Aude;Gregori,Gerald;Dekaezemacker,Julien;Benavides,Mar;Capone,Douglas G.;	10.1002/lno.10300
2016	ENVBIO	Algal Research	Establishment of stable synthetic mutualism without co-evolution between microalgae and bacteria demonstrated by mutual transfer of metabolites (NanoSIMS isotopic imaging) and persistent physical association (Fluorescent in situ hybridization),15:179-186	De-Bashan,Luz E.;Mayali,Xavier ;Bebout,Brad M.;Weber,Peter K.;Detweiler,Angela M.;Hernandez,Juan-Pablo;Prufert-Bebout,Leslie;Bashan,Yoav;	10.1016/j.algal.2016.02.019
2016	ENVBIO	Environmental Microbiology	Cell-specific nitrogen- and carbon-fixation of cyanobacteria in a temperate marine system (Baltic Sea),v18, Issue 12, P596-4609	Klawonn,Isabell;Nahar,N.;Walve,Jakob;Andersson,B.;Olofsson,Malin;Sveden,J. B.;Littmann,Sten;Whitehouse,Martin J.;Kuypers,Marcel M. M.;Ploug,Helle;	10.1111/1462-2920.13557
2016	ENVBIO	The ISME journal	Elevated temperature increases carbon and nitrogen fluxes between phytoplankton and heterotrophic bacteria through physical attachment. . The ISME Journal , (6 December 2016)	doi	Arandia-Gorostidi,Nestor;Weber,Peter K.;Alonso-Saez,Laura;Moran,Xose Anxelu G.;Mayali,Xavier;	10.1038/ismej.2016.156
2016	ENVBIO	Science Advances	Nutritional input from dinoflagellate symbionts in reef-building corals is minimal during planula larval life stage, v. 2, no. 3, e1500681	Kopp,Christophe;Domart-Coulon,Isabelle;Barthelemy, Dominique;Meibom,Anders;	
2016	ENVBIO	npj Biofilms and Microbiomes	Biofilms on glacial surfaces: hotspots for biological activity	Smith,Heidi J.;Schmit,Amber;Foster,Rachel;Littman,Sten;Kuypers,Marcel M.M.;Foreman,Christine M.;	
2016	ENVBIO	Environmental Microbiology Reports	Deep Microbial Life in High-Quality Granitic Groundwater from Geochemically and Geographically Distinct Underground Boreholes. Environmental Microbiology reports Accepted manuscript online: 7 JAN 2016. doi.org/10.1111/1758-2229.12379	Ino, Kohei;Konno,Uta;Kouduka,Mariko;Hirota,Akinari;Togo,Yoko;Fukuda,Akari;Komatsu,Daisuke;Tsunogai,Urumu;Tanabe,Akihumi S.;Yamamoto,Satoshi;Iwatsuki, Teruki;Mizuno,Takashi;Ito,Kazumasa;Suzuki,Yohey;	
2016	ENVBIO	Nature Communications	The in vivo hydrocarbon formation by vanadium nitrogenase follows a secondary metabolic pathway	Rebelein,Johannes G.;Lee,Chi Chung;Hu,Yilin;Ribbe,Markus W.;	10.1038/ncomms13641
2016	ENVBIO	Environmental Microbiology Reports	Temporal succession in carbon incorporation from macromolecules by particle-attached bacteria in marine microcosms. . Environmental Microbiology Reports .Article first published online : 21 DEC 2015, DOI: 10.1111/1758-2229.12352	Mayali,Xavier;Stewart,Benjamin;Mabery,Shalini;Weber,Peter K.;	10.1111/1758-2229.12352
2016	ENVBIO	mBio	Light Regimes Shape Utilization of Extracellular Organic C and N in a Cyanobacterial Biofilm. mBio May/June 2016; 7:doi:	Stuart,Rhona K.;Mayali,Xavier;Boaro,Amy A.;Zemla,Adam;Everroad,R. Craig ;Nilson,Daniel;Weber,Peter K.;Lipton,Mary;Bebout,Brad M.;Pett-Ridge,Jennifer;Thelen,Michael P.;	10.1128/mBio.00650-16
2016	ENVBIO	Frontiers in Marine Science	A Bioreactor Approach to Investigate the Linkage between Methane Oxidation and Nitrate/Nitrite Reduction in the Pelagic Oxic-Anoxic Transition Zone of the Central Baltic Sea. Gunnar Jakobs1*†, Matthias Labrenz1, Gregor Rehder1, Susanna Hietanen2, Katrin Kießlich1, Angela Vogts1, Martin Blumenberg3† and Oliver Schmale1*. Frontiers in Marine Science, 23 August 2016 . doi.org/10.3389/fmars.2016.00145	Jakobs,Gunnar;Labrenz,Matthias;Rehder,Gregor;Hietanen,Susanna;Kießlich,Katrin;Vogts,Angela;Blumenberg,Martin; Schmale,Oliver;	
2017	ENVBIO	The ISME Journal	Crenothrix are major methane consumers in stratified lakes, 11, 2124–2140	Oswald,Kirsten;Graf,Jon S.;Littmann,Sten ;Tienken,Daniela;Brand,Andreas;Wehrli,Bernhard;Albertsen,Mads;Daims,Holger;Wagner,Michael;Kuypers,Marcel M.M.;Schubert,Carsten J.;Milucka,Jana;	10.1038/ismej.2017.77
2017	ENVBIO	Nature Geoscience	Microbial formation of labile organic carbon in Antarctic glacial environments. Nature Geoscience (2017) doi:. Published online 03 April 2017	Smith,H. J. ;Foster, Rachel A.;McKnight, D. M. ;Lisle,J. T. ;Littmann,Sten;Kuypers, Marcel M.M.;Foreman,C. M.;	10.1038/ngeo2925
2017	ENVBIO	Royal Society Open Science	Common reef-building coral in the Northern Red Sea resistant to elevated temperature and acidification	Krueger,Thomas;Horwitz,Noa;Bodin,Julia;Giovani,Maria-Evangelia;Escrig,Stephane;Meibom,Anders;Fine,Maoz;	10.1098/rsos.170038
2017	ENVBIO	Scientific Reports	Dissolved organic matter uptake by Trichodesmium in the Southwest Pacific. . 7:41315	Benavides,Mar;Berthelot,Hugo;Duhamel,Solange;Raimbault,Patrick ;Bonnet,Sophie;	10.1038/srep41315
2017	ENVBIO	eLife	Subcellular tracking reveals the location of dimethylsulfoniopropionate in microalgae and visualises its uptake by marine bacteria. eLife 2017;6:e23008. DOI: 10.7554/eLife.23008	Raina,Jean-Baptiste;Clode,Peta L.;Cheong, Soshan;Bougoure,Jeremy J.;Kilburn,Matt R ;Reeder,Anthony ;Fore,Sylvain;Stat,Michael;Beltran,Victor;Thomas-Hall,Peter;Tapiolas,Dianne;Motti,Cherie M ;Gong,Bill;Pernice,Mathieu;Marjo,Christopher E ;Seymour,Justin R;Willis,Bette L.;Bourne,David G.;	10.7554/eLife.23008
2017	ENVBIO	PNAS	Methyl-compound use and slow growth characterize microbial life in 2-km-deep subseafloor coal and shale beds, 114 (44) E9206-E9215	Trembath-Reichert,Elizabeth;Morono,Yuki;Ijiri,Akira;Hoshino,Tatsuhiko;Dawson,Katherine S. ;Inagaki,Fumio;Orphan,Victoria J.;	10.1073/pnas.1707525114
2017	ENVBIO	Cell metabolism	Diet-Microbiome Interactions in Health Are Controlled by Intestinal Nitrogen Source Constraints. . -25 _10jan2017	Holmes,Andrew J. ;Chew,Yi Vee;Colakoglu,Feyza;Cliff,John B.;Klaassens,Eline;Read,Mark N.;Solon-Biet,Samantha M.;McMahon,Aisling C.;Cogger,Victoria C.;Ruohonen,Kari;Raubenheimer,David ;Le Couteur,David G.;Simpson,Stephen J.;	10.1016/j.cmet.2016.10.021
2017	ENVBIO	Science Advances	Adaptability as the key to success for the ubiquitous marine nitrite oxidizer Nitrococcus. . Science Advances 01 Nov 2017: Vol. 3, no. 11, e1700807 DOI:	Fussel,Jessika;Lucker,Sebastian;Yilmaz,Pelin;Nowka,Boris;van Kessel,Maartje A. H. J.;Bourceau,Patric;Hach,Philipp F.;Littmann,Sten;Berg,Jasmine;Spieck,Eva;Daims,Holger;Kuypers, Marcel M.M.;Lam,Phyllis;	10.1126/sciadv.1700807
2017	ENVBIO	PLoS One	Surviving anoxia in marine sediments: The metabolic response of ubiquitous benthic foraminifera (Ammonia tepida)PLoS One, vol. 12, num. 5, p. e0177604, 2017.	LeKieffre,Charlotte;Spangenberg,Jorge E.;Mabilleau,Guillaume;Escrig,Stephane;Meibom,Anders;Geslin,Emmanuelle	10.1371/journal.pone.0177604
2017	ENVBIO	The ISME Journal	Autotrophic and heterotrophic acquisition of carbon and nitrogen by a mixotrophic chrysophyte established through stable isotope analysis	Terrado,Ramon;Pasulka,Alexis L.;Lie,Alle A.-Y.;Orphan,Victoria J.;Heidelberg,Karla B.;Caron,David A.;	10.1038/ismej.2017.68
2017	ENVBIO	Environmental Microbiology	Interrogating marine virus-host interactions and elemental transfer with BONCAT and nanoSIMS-based methods. . Environmental Microbiology. online: 21 NOV 2017. DOI:	Pasulka,Alexis L.;Thamatrakoln,Kimberlee;Kopf,Sebastian H.;Guan,Yunbin;Poulos,Bonnie;Moradian,Annie;Sweredoski,Michael J.;Hess,Sonja;Sullivan,Mathew B.;Bidle,Kay D.;Orphan,Victoria J.;	10.1111/1462-2920.13996
2017	ENVBIO	PLoS Genetics	Cell-to-cell variation and specialization in sugar metabolism in clonal bacterial populations, 13:1-24.	Nikolic,Nela;Schreiber,Frank;Co,Alma Dal;Kiviet,Daniel J.;Bergmiller,Tobias;Littmann,Sten;Kuypers,Marcel M.M.;Ackermann,Martin;	10.1371/journal.pgen.1007122
2017	ENVBIO	The ISME Journal	Chemical microenvironments and single-cell carbon and nitrogen uptake in field-collected colonies of Trichodesmium under different pCO2.	Eichner,Meri J.;Klawonn,Isabell;Wilson,Samuel T.;Littmann,Sten;Whitehouse,Martin J.;Church,Matthew J.;Kuypers,Marcel M.M.;Karl,David M.;Ploug,Helle;	10.1038/ismej.2017.15
2017	ENVBIO	The ISME journal	Phylogenetically conserved resource partitioning in the coastal microbial loop. . The ISME journal 1-12, Aug 2017	Bryson,Samuel;Li,Zhou;Chavez,Francisco;Weber,Peter K.;Pett-Ridge,Jennifer;Hettich,Robert L.;Pan,Chongle;Mayali,Xavier;Mueller,Ryan S.;	
2017	ENVBIO	Environmental Microbiology	Success of chemolithoautotrophic SUP05 and Sulfurimonas GD17 cells in pelagic Baltic Sea redox zones is facilitated by their lifestyles as K- and r-strategists,v 19, Issue 6, June 2017, p2495–2506	Rogge,Andreas;Vogts,Angela;Voss,Maren;Jurgens,Klaus;Jost,Gunter;Labrenz,Matthias;	10.1111/1462-2920.13783
2017	ENVBIO	Nature Communications	Carbon fixation from mineral carbonates. . Nature Communications 8, Article number: 1025	Guida,Brandon S.;Bose,Maitrayee;Garcia-Pichel,Ferran;	
2017	ENVBIO	Electrochemistry	Nanoscale Secondary Ion Mass Spectrometry Analysis of Individual Bacterial Cells Reveals Feedback from Extracellular Electron Transport to Upstream Reactions.. Electrochemistry. 2017 Volume 85 Issue 8 Pages 444-446. DOI https://doi.org/10.5796/electrochemistry.85.444	Saito,Junki;Hashimoto,Kazuhito;Okamoto,Akihiro;	10.5796/electrochemistry.85.444
2017	ENVBIO	Systematic and Applied Microbiology	Managing the excessive proliferation of glycogen accumulating organisms in industrial activated sludge by nitrogen supplementation: A FISH-NanoSIMS approach. . Systematic and Applied Microbiology Volume 40, Issue 8, December 2017, Pages 500-507	Onetto,Cristobal A.;Eales,Kathryn L.;Guagliardo,Paul ;Kilburn,Matt R.;Gambetta,Joanna M.;Grbin,Paul R.;	
2018	ENVBIO	The ISME journal	NanoSIMS single cell analyses reveal the contrasting nitrogen sources for small phytoplankton	Berthelot,Hugo;Duhamel,Solange;LHelguen,Stephane;Maguer,Jean-Francois;Wang,Seaver;Cetinic,Ivona;Cassar,Nicolas;	10.1038/s41396-018-0285-8
2018	ENVBIO	Environmental Microbiology	Attachment between heterotrophic bacteria and microalgae influences symbiotic microscale interactions. Environmental Microbiology	Samo,Ty J.;Kimbrel,Jeffrey A.;Nilson,Daniel J.;Pett Ridge,Jennifer;Weber,Peter K.; Mayali,Xavier;	10.1111/1462-2920.14357
2018	ENVBIO	FEMS Microbiology Ecology	Quantitative isotope incorporation reveals substrate partitioning in a coastal microbial community, FEMS Microbiology Ecology 94 (5), fiy047	Mayali,Xavier;Weber,Peter K.;	

2018	ENVBIO	Environmental Microbiology	Kleptoplastidic benthic foraminifera from aphotic habitats: Insights into assimilation of inorganic C, N, and S studied with sub cellular resolution. . Environmental Microbiology. First published: 02 October 2018. https://doi.org/10.1111/1462-2920.14433	Jauffrais,Thierry;LeKieffre, Charlotte ;Schweizer, Magali ;Geslin, Emmanuelle ;Metzger, Edouard ; Bernhard, Joan M.;Jesus, Bruno ; Filipsson, Helena L.;Maire, Olivier ;Meibom, Anders	10.1111/1462-2920.14433
2018	ENVBIO	Environmental Microbiology Reports	Substrate and electron donor limitation induce phenotypic heterogeneity in different metabolic activities in a green sulphur bacterium	Zimmermann,Matthias;Escrig,Stephane,Lavik,Gaute;Kuypers,Marcel M.M.;Meibom,Anders;Ackermann,Martin;Schreiber,Frank.;	10.1111/1758-2229.12616
2018	ENVBIO	PNAS	Symbiotic unicellular cyanobacteria fix nitrogen in the Arctic Ocean	Harding,Katie;Turk-Kubo,Kendra A.;Sipler,Rachel E. ;Mills,Matthew M.;Bronk,Deborah A.;Zehr,Jonathan P.;	10.1073/pnas.1813658115
2018	ENVBIO	Nature Microbiology	DSYB catalyses the key step of dimethylsulfoniopropionate biosynthesis in many phytoplankton	Curson,Andrew R. J.;Williams,Beth T.;Pinchbeck,Benjamin J.;Sims,Leanne P.;Martinez,Ana Bermejo;Rivera,Peter Paolo L.;Kumaresan,Deepak;Mercade,Elena;Spurgin,Lewis G.;Carrion,Ornella;Moxon,Simon;Cattolico,Rose Ann;Kuzhiumparambil,Unnikrishnan;Guagliardo,Paul;Clode,Peta L.;Raina,Jean-Baptiste;Todd,Jonathan D.;	10.1038/s41564-018-0119-5
2018	ENVBIO	Nature Microbiology	Microbial nitrogen limitation in the mammalian large intestine	Reese,Aspen T.;Pereira,Fatima C.;Schintlmeister,Arno;Berry,David;Wagner,Michael;Hale,Laura P.;Wu, Anchi;Jiang, Sharon;Durand, Heather K.;Zhou, Xiyou;Premont, Richard T.;Diehl,Anna Mae;OConnell,Thomas M.;Alberts,Susan C.;Kartzinel,Tyler R.;Pringle,Robert M.;Dunn,Robert R.;Wright,Justin P.;David,Lawrence A.;	10.1038/s41564-018-0267-7
2018	ENVBIO	Nature Microbiology	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. . Nature Microbiology December 2018 . DOI: 10.1038/s41564-018-0316-2.	Kitzinger,Katharina;Padilla,Cory C.;Marchant,Hannah;Hach,Philip F.;Herbold,Craig W.;Kidane,Abiel T.;KOnneke,Martin;Littmann,Sten;Mooshammer,Maria;Niggemann, Jutta;Petrov,Sandra;Richter,Andreas;Stewart,Frank J.;Wagner,Michael;Kuypers,Marcel M.M.;Bristow,Laura A.;	
2018	ENVBIO	PNAS	Primary productivity below the seafloor at deep-sea hot springs. . PNAS June 2018.doi/	McNichol,Jesse;Stryhanyuk,Hryhoriy;Sylva,Sean P.;Thomas,Francois;Musat,Niculina;Seewald,Jeffrey S.;Sievert,Stefan M.;	10.1073/pnas.1804351115
2018	ENVBIO	Nature Communications	Oxygen minimum zone cryptic sulfur cycling sustained by offshore transport of key sulfur oxidizing bacteria. Nature Communications volume 9, Article number: 1729 (2018). doi.org/10.1038/s41467-018-04041-x	Callbeck,Cameron M.;Lavik,Gaute;Ferdelman,Timothy G.;Fuchs,Bernhard;Gruber-Vodicka,Harald R.;Hach,Philipp F.;Littmann,Sten;Schoffelen,Niels J.;Kalvelage,Tim;Thomsen,Soren;Schunck,Harald;Loscher,Carolin R.;Schmitz,Ruth A.;Kuypers,Marcel M. M.;	10.1038/s41467-018-04041-x
2018	ENVBIO	Biogeosciences	In-depth characterization of diazotroph activity across the western tropical South Pacific hotspot of N2 fixation (OUTPACE cruise). Biogeosciences, 15, 4215–4232, 2018. https://doi.org/10.5194/bg-15-4215-2018.	Bonnet,Sophie;Caffin,Mathieu;Berthelot,Hugo;Grosso,Olivier;Benavides,Mar;Helias-Nunige,Sandra;Guieu,Cecile;Stenegren,Marcus;Foster,Rachel Ann;	
2018	ENVBIO	Scientific Reports	Single-cell imaging of phosphorus uptake shows that key harmful algae rely on different phosphorus sources for growth, 8:17182	Schoffelen,Niels J.;Mohr,Wiebke;Ferdelman,Timothy G.;Littmann,Sten;Duerschlag,Julia;Zubkov,Mikhail V.;Ploug,Helle;Kuypers,Marcel M.M.;	10.1038/s41598-018-35310-w
2018	ENVBIO	Scientific Reports	Temperature and feeding induce tissue level changes in autotrophic and heterotrophic nutrient allocation in the coral symbiosis – A NanoSIMS study, 8:12710 | DOI:	Krueger,Thomas;Bodin,Julia;Horwitz,Noa;Loussert-Fonta,Celine;Sakr,Adrian;Escrig,Stephane;Fine,Maoz;Meibom,Anders;	10.1038/s41598-018-31094-1
2018	ENVBIO	The ISME journal	Microorganisms facilitate uptake of dissolved organic nitrogen by seagrass leaves	Tarquinio,Flavia;Bourgoure,Jeremy;Koenders,Annette;Laverock,Bonnie;Sawstrom,Christin;Hyndes,Glenn A.;	10.1038/s41396-018-0218-6
2018	ENVBIO	Frontiers in Marine Science	Short-Term Thermal Acclimation Modifies the Metabolic Condition of the Coral Holobiont	Gibbin,Emma M.;Krueger,Thomas;Putnam,Hollie M.;Barott,Katie L.;Bodin,Julia;Gates,Ruth D.;Meibom,Anders;	10.3389/fmars.2018.00010
2018	ENVBIO	The ISME journal	NanoSIMS and tissue autoradiography reveal symbiont carbon fixation and organic carbon transfer to giant ciliate host. . The ISME Journal. February 2018. /doi.org/	Volland,Jean-Marie;Schintlmeister,Arno;Zambalos,Helena;Reipert,Siegfried;Mozetic,Patricija;	10.1038/s41396-018-0069-1
2018	ENVBIO	Environmental Microbiology	Metabolic versatility of a novel N2-fixing Alphaproteobacterium isolated from a marine oxygen minimum zone,v20, issue 2.	Martinez-Perez,Clara;Mohr,Wiebke;Schwedt,Anne;Duerschlag,Julia;Callbeck,Cameron M.;Schunck,Harald;Dekaezemacker,Julien;Buckner,Caroline R. T.;Lavik,Gaute;Fuchs,Bernhard M.;Kuypers,Marcel M.M.;	10.1111/1462-2920.14008
2018	ENVBIO	FEMS Microbiology Ecology	NanoSIMS imaging of extracellular electron transport processes during microbial iron(III) reduction. . FEMS Microbiology Ecology, 94, 2018, doi:	Newsome,Laura;Lopez Adams,Rebeca;Downie,Helen F.;Moore,Katie L.;Lloyd,Jonathan R.;	10.1093/femsec/fiy104
2018	ENVBIO	The ISME journal	Vibrio coralliilyticus infection triggers a behavioural response and perturbs nutritional exchange and tissue integrity in a symbiotic coral	Gibbin,Emma M.;Gavish,Assaf;Krueger,Thomas;Kramarsky-Winter,Esti;Shapiro, Orr H.;Guiet,R.;Jensen,L.;Vardi,Assaf.;Meibom,Anders;	
2018	ENVBIO	Frontiers in Microbiology	Division-Based, Growth Rate Diversity in Bacteria	Gangwe Nana,Ghislain Y.;Ripoll,Camille;Cabin-Flaman,Armelle;Gibouin,David;Delaune,Anthony;Janniere,Laurent;Grancher,Gerard;Chagny,Gaelle;Loutelier-Bourhis,Corinne;Lentzen,Esther;Grysan,Patrick;Audinot,Jean-Nicolas;Norris,Vic;	10.3389/fmicb.2018.00849
2018	ENVBIO	Marine Biology	Assimilation, translocation, and utilization of carbon between photosynthetic symbiotic dinoflagellates and their planktic foraminifera host, 165:104 .	LeKieffre,Charlotte;Spero,Howard J.;Russell,Ann D.;Fehrenbacher,Jennifer S.;Geslin,Emmanuelle;Meibom,Anders;	
2018	ENVBIO	Biogeosciences	Transfer of diazotroph-derived nitrogen to the planktonic food web across gradients of N2 fixation activity and diversity in the Western Tropical South Pacific. 2018 . Biogeosciences , 15 : 3795–3810 . V	Caffin,Mathieu;Berthelot,Hugo;Cornet-Barthaux,Veronique;Barani,Aude;Bonne;Sophie;	10.5194/bg-15-3795-2018
2018	ENVBIO	The ISME journal	Single-cell measurement of ammonium and bicarbonate uptake within a photosymbiotic bioeroding sponge	Achlatis,Michelle;Pernice,Mathieu;Green,Kathryn;Guagliardo,Paul;Kilburn,Matthew R.;Hoegh-Guldberg,Ove;Dove,Sophie;	10.1038/s41396-017-0044-2
2018	ENVBIO	Applied and Environmental Microbiology	Insights into the fundamental physiology of the uncultured Fe-oxidizing bacterium Leptothrix ochracea. Applied and Environmental Microbiology. published ahead of print 16 February 2018 doi:10.1128/AEM.02239-17	Fleming,Emily J.;Woyke,Tanja;Donatello,Robin;Kuypers,Marcel M.M.;Sczyrba,Alexander;Littmann,Sten;Emerson,David;	
2018	ENVBIO	Applied and Environmental Microbiology	Insights into Carbon Metabolism Provided by Fluorescence In Situ Hybridization-Secondary Ion Mass Spectrometry Imaging of an Autotrophic, Nitrate-Reducing, Fe(II)-Oxidizing Enrichment Culture. 84:e02166-17	Tominski,Claudia;Losekann-Behrens,Tina;Ruecker,Alexander;Hagemann,Nikolas ;Kleindienst,Sara;Mueller,Carsten W. ;Hoschen,Carmen;Kogel-Knabner,Ingrid;Kappler,Andreas;Behrens,Sebastian;	10.1128/AEM.02166-17
2018	ENVBIO	BMC Microbiology	Using NanoSIMS coupled with microfluidics to visualize the early stages of coral infection by Vibrio coralliilyticus. BMC Microbiology. Dec 2018. doi.org/10.1186/s12866-018-1173-0	Gibbin,Emma M.;Gavish,Assaf;Domart-Coulon,Isabelle;Kramarsky-Winter,Esti;Shapiro,Orr H.;Meibom,Anders;Vardi,Assaf;	10.1186/s12866-018-1173-0
2018	ENVBIO	Frontiers in Microbiology	Calculation of single cell assimilation rates from SIP-nanoSIMS-derived isotope ratios: a comprehensive approach	Stryhanyuk, Hryhoriy;Calabrese,Federica;Kuemmel,Steffen;Musat,Florin;Richnow,Hans H.;Musat,Niculina;	10.3389/fmicb.2018.02342
2018	ENVBIO	Frontiers in Marine Science	Single-Cell View of Carbon and Nitrogen Acquisition in the Mixotrophic Alga Prymnesium parvum (Haptophyta) Inferred From Stable Isotope Tracers and NanoSIMS. .	Carpenter,Kevin J.;Bose,Maitrayee;Polerecky,Lubos;Lie,Alle A. Y.;Heidelberg,Karla B.;Caron,David A.;	10.3389/fmars.2018.00157
2018	ENVBIO	Scientific Reports	Differences in the accumulation of phosphorus between vegetative cells and heterocysts in the cyanobacterium Nodularia spumigena.	Braun,Philipp D.;Schulz-Vogt,Heide N.;Vogts,Angela;Nausch,Monika;	10.1038/s41598-018-23992-1
2018	ENVBIO	Frontiers in Microbiology	Stable isotope phenotyping via cluster analysis of NanoSIMS data as a method for characterizing distinct microbial ecophysiologies and sulfur-cycling in the environment, V9, Sulfate isotopes in methane rich environments	Dawson,Katherine S.;Schneller,Silvan;Dillon,Jesse G.;Orphan,Victoria J.;	10.3389/fmicb.2016.00774
2018	ENVBIO	mSPHERE	Simultaneous Visualization of Enzymatic Activity in the Cytoplasm and at Polyphosphate Inclusions in Beggiatoa sp. Strain 35Flor Incubated with 18O-Labeled Water,3:e00489-18	Langer,Simon;Vogts,Angela;Schulz-Vogt,Heide N.;	10.1128/mSphere
2018	ENVBIO	Frontiers in Microbiology	Quantifying inorganic nitrogen assimilation by Synechococcus using bulk and single-cell mass spectrometry: a comparative study	Giardina,Marco;Cheong,Soshan;Marjo,Christopher E.;Clode,Peta L.;Guagliardo,Paul;Pickford,Russell;Pernice,Mathieu;Seymour,Justin R.;Raina,Jean-Baptiste;	10.3389/fmicb.2018.02847
2019	ENVBIO	The ISME journal	Forfeiting the priority effect: turnover defines biofilm community succession	Brislawn,Colin J.;Graham,Emily B.;Dana,Karl;Ihardt,Peter;Fansler,Sarah J.;Chrisler,William B.;Cliff,John B.;Stegen,James C.;Moran,James J.;Bernstein,Hans C.;	10.1038/s41396-019-0396-x
2019	ENVBIO	Plant, cell and environment	Pyrenoidal sequestration of cadmium impairs carbon dioxide fixation in a microalga. Plant, cell and environment	Penen,Florent;Isaure,Marie Pierre;Dobritzsch, Dirk;Castillo Michel,Hiram;Gontier,Etienne;Le Coustumer,Philippe;Malherbe,Julien;Schaumloffel,Dirk;	10.1111/pce.13674
2019	ENVBIO	The ISME Journal	Untangling hidden nutrient dynamics: rapid ammonium cycling and single-cell ammonium assimilation in marine plankton communities	Klawonn,Isabell;Bonaglia,Stefano;Whitehouse,Martin J.;Littmann,Sten;Tienken,Daniela;Kuypers,Marcel M.M.;Bruchert,Volker;Ploug,Helle;	10.1038/s41396-019-0386-z
2019	ENVBIO	PNAS	Widespread soil bacterium that oxidizes atmospheric methane	Tveit,Alexander T.;Grethe Hestnes,Anne;Robinson,Serina L.;Schintlmeister,Arno;Dedysh,Svetlana N.;Jehmlich,Nico;von Bergen,Martin;Herbold,Craig;Wagner,Michael;Richter,Andreas;Svenning,Mette M.;	10.1073/pnas.1817812116
2019	ENVBIO	Nature	Anaerobic oxidation of ethane by archaea from a marine hydrocarbon seep. . NATURE. Published: 27 March 2019	Chen,Song-Can;Musat,Niculina;Lechtenfeld,Oliver J.;Paschke,Heidrun;Schmidt,Matthias;Said,Nedal;Popp,Denny;Calabrese,Federica;Stryhanyuk,Hryhoriy;Jaekel,Ulrike;Zhu,Yong-Guan;Joye,Samantha B.;Richnow,Hans-Hermann;Widdel,Friedrich;Musat,Florin;	10.1038/s41586-019-1063-0
2019	ENVBIO	Frontiers in Microbiology	Rapid transfer of plant photosynthates to soil bacteria via ectomycorrhizal hyphae and its interaction with nitrogen availability	Gorka,Stefan;Dietrich,Marlies; Mayerhofer,Werner;Gabriel,Raphael;Wiesenbauer,Julia;Martin, Victoria ;Zheng, Qing;Imai, Bruna ;Prommer, Judith ;Weidinger, Marieluise; Schweiger,Peter;Eichorst,Stephanie A.;Wagner,Michael;Richter,Andreas;Schintlmeister,Arno;Woebken, Dagmar;Kaiser,Christina;	10.3389/fmicb.2019.00168
2019	ENVBIO	PNAS	NanoSIMS imaging reveals metabolic stratification within current-producing biofilms	Chadwick,Grayson L.,Jimenez Otero,Fernanda,Gralnick,Jeffrey A.;Bond,Daniel R.;Orphan,Victoria J.;	10.1073/pnas.1912498116
2019	ENVBIO	Angewandte Chemie International Edition	Biogenic Iron Sulfide Nanoparticles Enable Extracellular Electron Uptake in Sulfate Reducing Bacteria	Deng,Xiao;Dohmae,Naoshi;Kaksonen,Anna;Okamoto,Akihiro;	10.1002/ange.201915196
2019	ENVBIO	Journal of Biological Chemistry	Manganese co-localizes with calcium and phosphorus in Chlamydomonas acidocalcisomes and is mobilized in Mn-deficient conditions	Tsednee,Munkhtsetseg;Castruita,Madeli;Salome,Patrice A.;Sharma,Ajay;Lewis,Brianne Elizabeth;Schmollinger,Stefan R.;Strenkert,Daniela;Holbrook,Kristen;Otegui,Marisa S.;Khatua, Kaustav;Das,Sayani;Datta,Ankona;Chen,Si;Ramon,Christina;Rallej ,Martina;Weber,Peter K.;Stemmler,Timothy L.;Pett-Ridge,Jennifer;Hoffman,Brian M. ;Merchant,Sabeeha S.;	10.1074/jbc.RA119.009130

2019	ENVBIO	Current Biology	Algal Remodeling in a Ubiquitous Planktonic Photosymbiosis,v29, 1–11	Decelle,Johan;Stryhanyuk,Hryhoriy;Gallet,Benoit;Veronesi,Giulia;Schmidt,Matthias;Balzano,Sergio;Marro,Sophie;Uwizeye,Clarisse;Jouneau,Pierre-Henri;Lupette,Josselin;Jouhet,Juliette;Marechal,Eric;Schwab,Yannick;Schieber,Nicole L.;Tucoulou,Remi;Richnow,Hans;Finazzi,Giovanni;Musat,Niculina;	
2019	ENVBIO	Microbiome	Metagenomic, phylogenetic, and functional characterization of predominant endolithic green sulfur bacteria in the coral *Isopora palifera*	Yang,Shan-Hua;Tandon,Kshitij;Lu,Chih-Ying;Wada,Naohisa;Shih,Chao-Jen;Hsiao,Silver Sung-Yun;Jane,Wann-Neng;Lee,Tzan-Chain;Yang,Chi-Ming;Liu,Chi-Te;Denis,Vianney;Wu,Yu-Ting;Wang,Li-Ting;Huang,Lina;Lee, Der-Chuen;Wu, Yu-Wei;Yamashiro, Hideyuki;Tang, Sen-Lin;	10.1186/s40168-018-0616-z
2019	ENVBIO	Ecology Letters	Angiosperm symbioses with non-mycorrhizal fungal partners enhance N acquisition from ancient organic matter in awarming maritime Antarctic	Hill,Paul W.;Broughton,Richard;Bougoure,Jeremy J.;Havelange,William;Newsham,Kevin K.;Grant,Helen;Murphy,Daniel V.;Clode,Peta;Ramayah,Soshila;Marsden,Karina A.;Quilliam,Richard S.;Roberts,Paula;Brown,Caley;Read,David J.;Deluca,Thomas H.;Bardgett,Richard D.;Hopkins,David W.;Jones,Davey L.;	10.1111/ele.13399
2019	ENVBIO	Applied Environmental Microbiology	Arcobacter peruensis sp.nov., a chemolithoheterotroph isolated from sulfide and organic rich coastal waters off Peru	Callbeck Cameron M.;Pelzer Chris;Lavik Gaute;Ferdelman Timothy G.;Graf Jon S.;Vekeman Bram;Schunck Harald;Littmann Sten;Fuchs Bernhard M.;Hach Philipp F.;Kalvelage Tim;Schmitz Ruth A.;Kuypers Marcel M. M.;Drake Harold L.;	10.1128/AEM.01344-19
2019	ENVBIO	Water Research	NanoSIMS reveals unusual enrichment of acetate and propionate by an anammox consortium dominated by Jettenia asiatica. Water Research. Volume 159, 1 August 2019, Pages 223-232. DOI:	Tao,Yu;Huang,Xiaoli;Gao,Dawen;Wang,Xiaolong;Chen,Chunhong;Liang,Hong;van Loosdrecht,Mark C.M.;	10.1016/j.watres.2019.05.006
2019	ENVBIO	The ISME journal	Active subseafloor microbial communities from Mariana back-arc venting fluids share metabolic strategies across different thermal niches and taxa. . The ISME Journal Published: 09 May 2019. https://doi.org/10.1038/s41396-019-0431-y	Trembath-Reichert,Elizabeth;Butterfield,David A.;Huber,Julie A.;	10.1038/s41396-019-0431-y
2019	ENVBIO	Frontiers in Microbiology	Characterizing Chemoautotrophy and Heterotrophy in Marine Archaea and Bacteria With Single-Cell Multi-isotope NanoSIP,v10,2682	Dekas,Anne E.;Parada,Alma E.;Mayali,Xavier;Fuhrman,Jed A.;Wollard,Jessica;Weber,Peter K.;Pett-Ridge,Jennifer;	10.3389/fmicb.2019.02682
2019	ENVBIO	The ISME journal	Selective collection of iron-rich dust particles by natural Trichodesmium colonies	Kessler,Nivi;Armoza-Zvuloni,Rachel;Wang,Siyuan;Basu,Subhajit;Weber,Peter K.;Stuart,Rhona K.;Shaked,Yeala;	10.1038/s41396-019-0505-x
2019	ENVBIO	Frontiers in Microbiology	Influence of light on particulate organic matter utilization by attached and free-living marine bacteria,	Gomez-Consarnau,Laura;Needham,DM;Weber,Peter K.;Fuhrman,Jed A.;Mayali,Xavier;	10.3389/fmicb.2019.01204
2019	ENVBIO	Environmental Microbiology	Dark aerobic sulfide oxidation by anoxygenic phototrophs in anoxic waters	Berg,Jasmine S.;Pjevac,Petra;Sommer,Tobias;Buckner,Caroline R.T.;Philippi,Miriam ;Hach,Philipp F.;Liebeke,Manuel;Holtappels,Moritz;Danza,Francesco;Tonolla,Mauro;Sengupta,Anupam;Schubert,Carsten J.;Milucka,Jana;Kuypers,Marcel M.M.;	10.1111/1462-2920.14543
2019	ENVBIO	Environmental Science & Technology	Mechanisms of Enhanced Antibacterial Activityby Reduced Chitosan-intercalated Nontronite. Environmental Science & Technology. Publication Date (Web): 26 Feb 2020 DOI: 10.1021/acs.est.9b07185 •	Xia,Qingyin;Wang,Xi ;Zeng,Qiang;Guo,Dongyi;Zhu,Zihua;Chen,Hongyu;Dong,Hailiang;	10.1021/acs.est.9b07185
2019	ENVBIO	Frontiers in Microbiology	Quantitation and comparison of phenotypic heterogeneity among single cells of monoclonal microbial populations	Calabrese,Federica;Voloshynovska,Iryna;Musat,Florin;Thullner,Martin;Schlomann,Michael ;Richnow,Hans H.;Lambrecht,Johannes;Muller,Susann;Wick,Lukas Y. ;Musat,Niculina;Stryhanyuk,Hryhoriy;	10.3389/fmicb.2019.02814
2019	ENVBIO	PNAS	Generalized size scaling of metabolic rates based on single-cell measurements with freshwater phytoplankton.PNAS . July 2019. doi/	Zaoli,Silvia;Giometto,Andrea;Maranon,Emilio;Escrig,Stephane;Meibom,Anders;Ahluwalia,Arti;Stocker,Roman;Maritan,Amos;Rinaldo,Andrea;	10.1073/pnas.1906762116
2019	ENVBIO	Frontiers in Microbiology	Microbial Metabolism and Community Dynamics in Hydraulic Fracturing Fluids Recovered from Deep Hydrocarbon-Rich Shale	Morono,Yuki;Wishart,Jessie;Ito,Motoo;Ijiri,Akira;Hoshino,Tatsuhiko;Torres,Marta;Verba,Circe;Terada,Takeshi;Inagaki,Fumio;Colwell,Frederick;	10.3389/fmicb.2019.00376
2019	ENVBIO	Frontiers in Microbiology	Novel Mechanism for Surface Layer Shedding and Regenerating in Bacteria Exposed to Metal-Contaminated Conditions,v9,3210	Chandramohan,Archjana;Duprat,Elodie;Remusat,Laurent;Zirah,Severine;Lombard,Carine;Kish,Adrienne;	10.3389/fmicb.2018.03210
2019	ENVBIO	The ISME Journal	Phosphate availability affects fixed nitrogen transfer from diazotrophs to their epibionts. . The ISME Journal (2019). 27 June 2019.	Schoffelen,Niels J.;Mohr,Wiebke;Ferdelman,Timothy G.;Duerschlag,Julia;Littmann,Sten;Ploug,Helle;Kuypers,Marcel M. M.;	10.1038/s41396-019-0453-5
2019	ENVBIO	Infection and Immunity	A link between heterotrophic carbon fixation and virulence in the porcine lung pathogen Actinobacillus pleuropneumoniae	Konze, Sarah A.;Wolf-Rainer,Abraham;Goethe,Elke;Surges,Esther;Kuypers,Marcel M. M.;Hoeltig,Doris;Meens,Jochen;Vogel,Charlotte;Stiesch,Meike;Valentin-Weigand,Peter;Gerlach,Gerald-F.;Buettner,Falk F.R.;	10.1128/IAI.00768-18
2019	ENVBIO	Marine Environmental Research	Effect of reduced irradiance on 13C uptake, gene expression and protein activity of the seagrass Zostera muelleri,v149, p80-89	Kim, Mikael;Pernice,Mathieu;Watson-Lazowski,Alexander;Guagliardo,Paul;Kilburn,Matt R.;Larkum,Anthony W.D.;Raven,John A.;Ralph,Peter J.;	10.1016/j.marenvres.2019.06.004
2019	ENVBIO	Science of The Total Environment	Amino acids promote black carbon aggregation and microbial colonization in coastal waters off Vietnam. Science of The Total Environment. Available online 13 May 2019. DOI 10.1016/j.scitotenv.2019.05.141	Benavides,Mar;Van Thuoc,Chu;Mari,Xavier;	
2019	ENVBIO	Corrosion Science	Biocorrosion detection by sulphur isotopic fractionation measurements. Corrosion Science. Available online 14 December 2019, 108386. doi.org/10.1016/j.corsci.2019.108386	Grousset,Sophie;Urios,L.;Mostefaoui,Smail;Dauzeres,Alexandre;Crusset,Didier;Didier;Maillot,Valerie;Linard,Yannick;Dillmann,Philippe;Mercier-Bion,F.;Neff,D.;	
2020	ENVBIO	Nature	Isolation of an archaeon at the prokaryote–eukaryote interface	Imachi,Hiroyuki;Nobu,Masaru K.;Nakahara,Nozomi;Morono,Yuki;Ogawara,Miyuki;Takaki,Yoshihiro;Takano,Yoshinori;Uematsu,Katsuyuki;Ikuta,Tetsuro;Ito,Motoo;Matsui,Yohei;Miyazaki,Masayuki;Murata,Kazuyoshi;Saito,Yumi;Sakai, Sanae;Song,Chihong;Tasumi,Eiji ;Yamanaka,Yuko;Yamaguchi,Takashi;Kamagata,Yoichi;Tamaki,Hideyuki;Takai,Ken;	10.1038/s41586-019-1916-6
2020	ENVBIO	Nature	Bacterial chemolithoautotrophy via manganese oxidation,583(7816), 453–458	Yu,Hang;Leadbetter,Jared R. ;	10.1038/s41586-020-2468-5
2020	ENVBIO	Nature Communications	Aerobic microbial life persists in oxic marine sediment as old as 101.5 million years. . Nature Communications. (2020) 11:3626 . doi.org/10.1038/s41467-020-17330-1	Morono,Yuki;Ito,Motoo;Hoshino,Tatsuhiko;Terada,Takeshi;Hori,Tomoyuki;Ikehara,Minoru;DHondt,Steven;Inagaki,Fumio;	
2020	ENVBIO	The ISME journal	Heterotrophy in the earliest gut: a single-cell view of heterotrophic carbon and nitrogen assimilation in sponge-microbe symbioses. . The ISME Journal. 2020. https://doi.org/10.1038/s41396-020-0706-3	Rix,Laura;Ribes,Marta;Coma,Rafel;Jahn,Martin T.;de Goeij,Jasper M.;van Oevelen,Dick;Escrig,Stephane;Meibom,Anders;Hentschel,Ute;	
2020	ENVBIO	Nature communications	Single cell analyses reveal contrasting life strategies of the two main nitrifiers in the ocean. NATURE COMMUNICATIONS (2020) 11:767 doi.org/10.1038/s41467-020-1	Kitzinger,Katharina;Marchant,Hannah K.;Bristow,Laura A.;Herbold,Craig W.;Padilla,Cory C.;Kidane,Abiel T.;Littmann,Sten;Daims,Holger;Pjevac,Petra;Stewart,Frank J.;Wagner,Michael;Kuypers,Marcel M.M.;	
2020	ENVBIO	PNAS	Division of labor and growth during electrical cooperation in multicellular cable bacteria	Geerlings,Nicole M.J.;Karman,Cheryl;Trashin,Stanislav;Asa,Karel S.;Kienhuis,Michiel V. M.;Hidalgo-Martinez,Silvia,Vasquez-Cardenas,Diana;Boschker,Henricus T. S.;De Wael,Karolien;Middelburg,Jack J.;Polerecky,Lubos;Meysman,Filip J. R.;	10.1073/pnas.1916244117
2020	ENVBIO	Proceedings of the Royal Society B	Intracellular competition for nitrogen controls dinoflagellate population density in corals. . Proceedings of the Royal society B. 4 March 2020 . https://doi.org/10.1098/rspb.2020.0049	Krueger,Thomas;Horwitz,Noa;Bodin,Julia;Giovani,Maria-Evangelia;Escrig,Stephane;Fine,Maoz;Meibom,Anders;	
2020	ENVBIO	Limnology and Oceanography	Latitudinal constraints on the abundance and activityof the cyanobacterium UCYN-A and other marine diazotrophsin the North Pacific. Limnology and Oceanography. 2020. doi: 10.1002/lno.11423.	Gradoville,Mary R.;Farnelid,Hanna;White,Angelicque E.;Turk-Kubo,Kendra A.;Stewart,Brittany;Ribalet,Francois;Ferron,Sara;Pinedo-Gonzalez,Paulina;Armbrust,Virginia;Karl,David M.;John,Seth;Zehr,Jonathan P.;	
2020	ENVBIO	Communications biology	Deep microbial proliferation at the basalt interface in 33.5–104 million-year-old oceanic crust. . COMMUNICATIONS BIOLOGY . (2020) 3:136 . https://doi.org/10.1038/s42003-020-0860-1	Suzuki,Yohey;Yamashita,Seiya;Kouduka,Mariko;Ao,Yutaro;Mukai,Hiroki;Mitsunobu,Satoshi;Kagi,Hiroyuki;DHondt,Steven;Inagaki,Fumio;Morono,Yuki;Hoshino,Tatsuhiko;Tomioka,Naotaka;Ito,Motoo;	
2020	ENVBIO	Proceedings of the Royal Society B	Single-cell visualization indicates direct role of sponge host in uptake of dissolved organic matter. Proceedings of the Royal Society B. 286: 20192153. http://dx.doi.org/10.1098/rspb.2019.2153	Achlatis,Michelle;Pernice,Mathieu;Green,Kathryn;de Goeij,Jasper M.;Guagliardo,Paul;Kilburn,Matthew R.;Hoegh-Guldberg,Ove;Dove,Sophie;	
2020	ENVBIO	mBio	Prochlorococcus Cells Rely on Microbial Interactions Rather than on Chlorotic Resting Stages To Survive Long-Term Nutrient Starvation	Roth-Rosenberg,Dalit;Aharonovich,Dikla;Luzzatto-Knaan,Tal;Vogts,Angela;Zoccarato,Luca;Eigemann,Falk;Nago,Noam;Grossart,Hans-Peter;Voss,Maren;Sher,Daniel;Moran,Mary Ann;	10.1128/mBio.01846-20
2020	ENVBIO	Limnology and Oceanography	Nitrate promotes the transfer of methane-derived carbon from the methanotroph Methylobacter sp. to the methylotroph Methylotenera sp. in eutrophic lake water. Limnology and Oceanography. 2020, 1–14 doi: 10.1002/lno.11648	van Grinsven,Sigrid;Sinninghe Damste,Jaap S.;Harrison,John;Polerecky,Lubos;Villanueva,Laura;	
2020	ENVBIO	Environmental Microbiology	NanoSIMS sample preparation decreases isotope enrichment: magnitude, variability and implications for single cell rates of microbial activity	Meyer,Nicolette R.;Fortney,Julian;Dekas,Anke E.;	10.1111/1462-2920.15264
2020	ENVBIO	Environmental Microbiology	Sub cellular imaging shows reduced photosynthetic carbon and increased nitrogen assimilation by the non native endosymbiont Durusdinium trenchii in the model cnidarian Aiptasia	Sproles,Ashley E.;Oakley,Clinton A.,Krueger,Thomas;Grossman,Arthur R.;Weis,Virginia M.;Meibom,Anders;Davy,Simon K.;	10.1111/1462-2920.15142
2020	ENVBIO	Biosensors and Bioelectronics	Microbial current production from Streptococcus mutans correlates with biofilm metabolic activity. Biosensors and Bioelectronics (2020), doi: https://doi.org/10.1016/j.bios.2020.112236.	Naradasu,Divya;Guionet,Alexis;Miran,Waheed;Okamoto,Akihiro;	
2020	ENVBIO	Proceedings of the Royal Society B	Ammonium is the preferred source of nitrogen for planktonic foraminifer and their dinoflagellate symbionts	LeKieffre,Charlotte;Spero,Howard J.;Fehrenbacher,Jennifer S.;Russell,Ann D.;Ren,Haojia;Geslin,Emmanuelle;Meibom,Anders;	10.1098/rspb.2020.062
2020	ENVBIO	The ISME journal	Bidirectional C and N transfer and a potential role for sulfur in an epiphytic diazotrophic mutualism	Stuart,Rhona K;Pederson,Eric R.A.;Weyman,Philip D.;Weber,Peter K.;Rassmussen,Ulla;Dupont,Christopher L .;	10.1038/s41396-020-00738-4
2020	ENVBIO	Environmental Microbiology	Intrinsic enzyme like activity of magnetite particles is enhanced by cultivation with Trichoderma guizhouense	Chi, Zhi-Lai ;Zhao, Xiang-Yang ;Chen,Ya-Ling ;Hao,Jia-Long;Yu,Guang-Hui;Goodman,Bernard A.;Gadd,Geoffrey Michael;	10.1111/1462-2920.15193

2020	ENVBIO	Environmental Microbiology	Warming the phycosphere: differential effect of temperature on the use of diatom-derived carbon by two copiotrophic bacterial taxa	Arandia-Gorostidi,Nestor;Alonso-Saez,Laura;Stryhanyuk,Hryhoriy;Richnow,Hans H.;Moran,Xose Anxelu G.;Musat,Niculina;	10.1111/1462-2920.14954
2020	ENVBIO	The ISME Journal	Flow-through stable isotope probing (Flow-SIP) minimizes cross-feeding in complex microbial communities	Mooshammer,Maria;Kitzinger,Katharina;Schintlmeister,Arno;Ahmerkamp,Soeren;Nielsen,Jeppe Lund;Nielsen,Per Halkjaer;Wagner,Michael;	10.1038/s41396-020-00761-5
2020	ENVBIO	COMMUNICATIONS BIOLOGY	Heterogeneous nitrogen fixation rates confer energetic advantage and expanded ecological niche of unicellular diazotroph population,3:172	Masuda,Takako;Inomura,Keisuke;Takahata,Naoto;Shiozaki,Takuhei;Sano,Yuji;Deutsch,Curtis;Prasil,Ondrej;Furuya,Ken;	10.1038/s42003-020-0894-4
2020	ENVBIO	Frontiers in Microbiology	Enhancement of cell growth by uncoupling extracellular electron uptake and oxidative stress production in sediment sulfate-reducing bacteria,v144,106006	Deng,Xiao;Saito,Junki;Kaksonen,Anna;Okamoto,Akihiro;	10.1016/j.envint.2020.106006
2020	ENVBIO	Scientific Reports	Functional kleptoplasts intermediate incorporation of carbon and nitrogen in cells of the Sacoglossa sea slug Elysia viridis, 10:10548	Cruz,Sonia;LeKieffre,Charlotte;Cartaxana,Paulo;Hubas,Cedric;Thiney,Najet;Jakobsen,Sofie;Escrig,Stephane;Jesus,Bruno;Kühl,Michael;Calado,Ricardo;Meibom,Anders;	10.1038/s41598-020-66909-7
2020	ENVBIO	Systematic and Applied Microbiology	Candidatus Sulfurimonas marisnigri sp. nov. and Candidatus Sulfurimonas baltica sp.nov., thiotrophic manganese oxide reducing chemolithoautotrophs of the class Campylobacteria isolated from the pelagic redoxclines of the Black Sea and the Baltic Sea	Henkel, Jan V.;Vogts,Angela;Werner,Johannes;Neu,Thomas R.;Sproer,Cathrine;Bunk,Boykec;Schulz-Vogt,Heide N.;	10.1016/j.syapm.2020.126155
2020	ENVBIO	PLoS One	Distinctive tasks of different cyanobacteria and associated bacteria in carbon as well as nitrogen fixation and cycling in a late stage Baltic Sea bloom. PLoS ONE 14(12):e0223294. 12 Dec 2019 DOI: 10.1371/journal.pone.0223294	Eigemann,Falk;Vogts,Angela;Voss,Maren;Zoccarato,Luca;Schulz-Vog,Heide;	
2020	ENVBIO	Proceedings of the Royal Society B	Amoebocytes facilitate efficient carbonand nitrogen assimilation in the Cassiopea-Symbiodiniaceae symbiosis,287,20202393	Heidelberg Lyndby,Niclas;Radecker,Nils;Bessette,Sandrine;Sogaard,Jensen Louise Helene;Escrig,Stephane;Trampe,Erik;Kuhl,Michael;Meibom,Anders;	10.1098/rspb.2020.2393
2020	ENVBIO	Communications biology	A method to disentangle and quantify host anabolic turnover in photosymbiotic holobionts with subcellular resolution	Gibbin,Emma;Banc-Prandi,Guilhem;Fine,Maoz;Comment,Arnaud;Meibom,Anders;	10.1038/s42003-019-0742-6
2020	ENVBIO	Frontiers in Microbiology	Nitrogen Flow in Diazotrophic Cyanobacterium Aphanizomenon flos-aquae Is Altered by Cyanophage Infection,v11	Kuznecova,Jolita;Sulcius,Sigitas;Vogts,Angela;Voss,Maren;Jurgens,Klaus;Simoliunas,Eugenijus;	10.3389/fmicb.2020.02010/full
2020	ENVBIO	Cellular Microbiology	Tracking the cargo of extracellular symbionts into host tissues with correlated electron microscopy and nanoscale secondary ion mass spectrometry imaging	Cohen,Stephanie K.;Aschtgen,Marie-Stephanie;Lynch,Jonathan B.;Koehler,Sabrina;Chen,Fangmin;Escrig,Stephane;Daraspe,Jean;Ruby,Edward G.;Meibom,Anders;McFall-Ngai,Margaret;	10.1111/cmi.13177
2020	ENVBIO	Environmental Microbiology Reports	Sulfur assimilation in corals with aposymbiotic and symbiotic zooxanthellae	Higuchi,Tomihiko;Tanaka,Kentaro;Shirai,Kotaro;Yuyama,Ikuko;Mezaki,Takuma;Takahata,Naoto;Sano,Yuji;	10.1111/1758-2229.12908
2020	ENVBIO	Systematic and Applied Microbiology	An intracellular silver deposition method for targeted detection and chemical analysis of uncultured microorganisms	Berg,Jasmine S.;Khachikyan,Alexander;Tienken,Daniela;Littmann,Sten;Kuypers,Marcel M.M.;Milucka,Jana;	10.1016/j.syapm.2020.126086
2021	ENVBIO	PNAS	Characterizing the “fungal shunt”: Parasitic fungi on diatoms affect carbon flow and bacterial communities in aquatic microbial food webs. ,2劳.PNAS 2021 Vol 118 No. 23 e2102225118	Klawonn,Isabell;Van den Wyngaert,Silke;Parada,Alma E.;Arandia-Gorostidi,Nestor;Whitehouse,Martin J.;Grossart,Hans-Peter;Dekas,Anne E.;	10.1073/pnas.2102225118
2021	ENVBIO	Microbiome	Subcellular view of host–microbiomenutrient exchange in sponges: insights intothe ecological success of an early metazoan–microbe symbiosis , V9:44,	Hudspith,Meggie;Rix,Laura;Achlatis,Michelle;Bougoure,Jeremy J.;Guagliardo,Paul;Clode,Peta L.;Webster,Nicole S.;Muyzer,Gerard;Pernice,Mathieu;de Goeij,Jasper M.;	10.1186/s40168-020-00984-w
2021	ENVBIO	Coral Reefs	Symbiont shuffling across environmental gradients aligns with changes in carbon uptake and translocation in the reef-building coral Pocillopora acuta	Ros,Mickael;Suggett,David J.;Edmondson,John;Haydon,Trent;Hughes,David J.;Kim,Mikael;Guagliardo,Paul;Bougoure,Jeremy J.;Pernice,Mathieu;Raina,Jean-Baptiste;Camp,Emma F.;	10.1007/s00338-021-02066-1
2021	ENVBIO	Environmental Science and Technology	Anaerobic Neutrophilic Pyrite Oxidation by a Chemolithoautotrophic Nitrate-Reducing Iron(II)-Oxidizing Culture Enriched from a Fractured Aquifer	Jakus,Natalia;Mellage,Adrian;Hoschen,Carmen;Maisch,Markus;Byrne,James M.;Mueller,Carsten W.;Grathwohl,Peter;Kappler,Andreas;	10.1021/acs.est.1c02049
2021	ENVBIO	NatureCommunications	Purple sulfur bacteria fix N2 via molybdenum-nitrogenase in a low molybdenum Proterozoic ocean analogue	Philippi,Miriam;Kitzinger,Katharina;Berg,Jasmine S.;Tschitschko,Bernhard;Kidane,Abiel T.;Littmann,Sten;Marchant,Hannah K.;Storelli,Nicola;Winkel,Lenny H. E.;Schubert,Carsten J.;Mohr,Wiebke;Kuypers,Marcel M.M.;	10.1038/s41467-021-25000-z
2021	ENVBIO	The ISME Journal	Small phytoplankton contribute greatly to CO2-fixation after the diatom bloom in the Southern Ocean	Irion,Solene;Christaki,Urania;Berthelot,Hugo;LHelguen,Stephane;Jardillier,Ludwig;	10.1038/s41396-021-00915-z
2021	ENVBIO	The ISME Journal	Isotopic tracing reveals single-cell assimilation of a macroalgal polysaccharide by a few marine Flavobacteria and Gammaproteobacteria, V849	Thomas,Francois;Le Duff,Nolwen;Wu,Ting-Di;Cebron,Aurelie;Uroz,Stephane;Riera,Pascal;Leroux,Cedric;Tanguy,Gwenn;Legeay,Erwan;Guerquin-Kern,Jean-Luc;	10.1038/s41396-021-00987-x
2021	ENVBIO	Water research	Gradual development of ammonia-induced syntrophic acetate-oxidizing activities under mesophilic and thermophilic conditions quantitatively tracked using multiple isotopic approaches	Hao,Liping;Fan,Lu;Chapleur,Olivier;Guenne,Angeline;Bize,Ariane;Bureau,Chrystelle;Lu,Fan;He,Pinjing;Bouchez,Theodore;Mazeas,Laurent;	10.1016/j.watres.2021.117586
2021	ENVBIO	Water research	Gradual development of ammonia-induced syntrophic acetate-oxidizing activities under mesophilic and thermophilic conditions quantitatively tracked using multiple isotopic approaches	Liping,Hao;Fan,Lu;Chapleur,Olivier;Guenne,Angeline;Bize,Ariane;Bureau,Chrystelle;Lu,Fa;He,Pinjing;Bouchez,Theodore;Mazeas,Laurent;	10.1016/j.watres.2021.117586
2021	ENVBIO	Proceedings of the Royal Society B	Photosynthesis from stolen chloroplasts can support sea slug reproductive fitness	Cartaxana,Paulo; Rey,Felisa; LeKieffre,Charlotte;Lopes,Diana;Hubas,Cedric;Spangenberg,Jorge E.;Escrig,Stephane;Jesus,Bruno;Calado,Goncalo;Domingues,Rosario;Kuhl,Michael;Calado,Ricardo;Meibom,Anders;Cruz,Sonia;	10.1098/rspb.2021.1779
2021	ENVBIO	Frontiers in Microbiology	Dissimilatory Fe(III) reduction controls on arsenic mobilisation: a combined biogeochemical and NanoSIMS imaging approach.	Lopez-Adams,Rebecca; Newsome,Laura;Moore,Katie L.;Lyon,Ian C.;Lloyd,Jonathan R.;	10.3389/fmicb.2021.640734
2021	ENVBIO	ISME	Heat stress reduces the contribution of diazotrophs to coral holobiont nitrogen cycling	Radecker,Nils;Pogoreutz,Claudia;Gegner,Hagen M.,Cardenas,Anny;Perna,Gabriela;Geissler,Laura;Roth,Florian;Bougoure,Jeremy J.;Guagliardo,Paul;Struck,Ulrich;Wild,Christian;Pernice,Mathieu;Raina,Jean-Baptiste;Meibom,Anders;Voolstra,Christian R.;	10.1038/s41396-021-01158-8
2021	ENVBIO	Science advances	Multiple carbon incorporation strategies support microbial survival in cold subseafloor crustal fluids, V7, eabg0153	Trembath-Reichert,Elizabeth;Walter,Sunita R. Shah,Fontanez Ortiz,Marc Alec;Carter,Patrick D.;Girguis,Peter R.;Huber, Julie A..	10.1126/sciadv.abg0153
2021	ENVBIO	Frontiers in Microbiology	Temporal Patterns and Intra- and Inter-Cellular Variability in Carbon and Nitrogen Assimilation by the Unicellular Cyanobacterium *Cyanothece* sp. ATCC 51142	Polerecky,Lubos;Masuda,Takako;Eichner,Meri;Rabouille,Sophie;Vancova,Marie;Kienhuis,Michiel V. M.;Bernat,Gabor;Bonomi-Barufi,Jose;Campbell,Douglas Andrew;Claquin,Pascal;Cerveny,Jan;Giordano,Mario;Kotabova,Eva;Kromkamp,Jacco;Lombardi,Ana Teresa;Lukes,Martin;Prasil,Ondrej;Stephan,Susanne;Suggett,David;Zavrel,Tomas;Halsey,Kimberly H.;	10.3389/fmicb.2021.620915
2021	ENVBIO	Nature	Niche partitioning by photosynthetic plankton as a driver of CO2-fixation across the oligotrophic South Pacific Subtropical Ocean.	Duerschlag,Julia;Wiebke,Mohr;Ferdelman,Timothy G.;LaRoche,Julie;Desai,Dhwani;Croot,Peter L.;Voss,Daniela;Zielinski,Oliver;Lavik, Gaute;Littmann,Sten;Martinez-Perez,Clara;Tschitschko,Bernhard;Bartlau,Nina;Osterholz,Helena;Dittmar,Thorsten;Kuypers,Marcel M.M.;	10.1038/s41396-021-01072-z
2021	ENVBIO	ChemElectroChem	Spatially Resolved Electron Transport through Anode-Respiring Geobacter sulfurreducensBiofilms: Controls and Constraints,10.1002/celc.202100111	He,Xiaojia;Chadwick,Grayson L.;Jimenez Otero,Fernanda;Orphan,Victoria J.;Meile,Christof;	10.1002/celc.202100111.
2021	ENVBIO	mBio	Controls on Interspecies Electron Transport and Size Limitation of Anaerobically Methane-Oxidizing Microbial Consortia, V12,I3, e03620-20	He,Xiaojia;Chadwick,Grayson L.;Kempes,Christopher P.;Orphan,Victoria J.;Meile,Christof;	10.1128/mBio.03620-20
2021	ENVBIO	mBio	Controls on Interspecies Electron Transport and Size Limitation of Anaerobically Methane-Oxidizing Microbial Consortia	He,Xiaojia;Chadwick,Grayson L.;Kempes,Christopher P.;Orphan,Victoria J.;Meile,Christof;	10.1128/mBio.03620-20.
2021	ENVBIO	Analytical Chemistry	Single-Cell Mass Spectroscopic Analysis for Quantifying Active Metabolic Pathway Heterogeneity in a Bacterial Population on an Electrode	Saito,Junki;Deng,Xiao;Okamoto,Akihiro;	10.1021/acs.analchem.0c03869
2021	ENVBIO	Frontiers in Microbiololgy	Calculation and Interpretation of Substrate Assimilation Rates in Microbial Cells Based on Isotopic Composition Data Obtained by nanoSIMS	Polerecky,Lubos;Eichner,Meri;Masuda,Takako;Zavřel,Tomáš;Rabouille,Sophie;Campbell,Douglas A.;Halsey,Kimberly;	10.3389/fmicb.2021.621634
2021	ENVBIO	Analyst	Structure illumination microscopy imaging of lipid vesicles in live bacteria with naphthalimide-appended organometallic complexes	Ranieri,Anna-Maria;Leslie,Kathryn;Huang,Song;Stagni,Stefano;Jacquemin,Denis;Jiang,Haibo;Hubbard,Alysia;Watkin,Elizabeth;Ogden,Mark;New,Elizabeth;Massi,Massimiliano;	10.1039/D1AN00363A
2021	ENVBIO	mBio	Single-cell measurements of fixation and intercellular exchange of C and N 2 in the filaments of the heterocyst-forming cyanobacterium Anabaena sp. 3 strain PCC 7120	Nieves-Morion,Mercedes;Flores,Enrique;Whitehouse,Martin J.;Thomen,Aurelien;Foster,Rachel A.;	10.1128/mBio.01314-21
2021	ENVBIO	Life	Use of NanoSIMS to Identify the Lower Limits of of Metabolic Activity and Growth by Serratia liquefaciens Exposed to Sub-Zero Temperatures, 11, 459	Schwendner,Petra;Nguyen,Ann N.;Schuerger,Andrew C.;	10.3390/life11050459
2022	ENVBIO	ISME	High-resolution spatial and genomic characterization of coral-associated microbial aggregates in the coral Stylophora pistillata	Wada,Naohisa;Hsu,Ming-Tsung;Tandon,Kshitij;Sung-Yun Hsiao,Silver;Chen,Hsing-Ju;Chen,Yu-Hsiang;Chiang,Pei-Wen;Yu,Sheng-Ping;Lu,Chih-Ying;Chiou ,Yu-Jing;Tu ,Yung-Chi;Tian,Xuejiao;Chen,Bi-Chang;Lee,Der-Chuen;Yamashiro,Hideyuki ;Bourne,David G.;Tang,Sen-Lin;	
2022	ENVBIO	ISME	Greater functional diversity and redundancy of coral endolithic microbiomes align with lower coral bleaching susceptibility,1751-7370	Cardenas,Anny;Raina,Jean-Baptiste;Pogoreutz,Claudia;Radecker,Nils;Bougoure,Jeremy J.;Guagliardo,Paul;Pernice,Mathieu;Voolstra,Christian R.;	10.1038/s41396-022-01283-y
2022	ENVBIO	ISME	An essential role for tungsten in the ecology and evolution of a previously uncultivated lineage of anaerobic, thermophilic Archaea	Buessecker,Steffen;Palmer,Marike;Lai,Dengxun;Dimapilis,Joshua;Mayali,Xavier;Mosier,Damon;Jiao,Jian-Yu;Colman,Daniel R.;Keller,Lisa M.;St. John,Emily;Miranda,Michelle;Gonzalez,Cristina;Gonzalez,Lizett;Sam,Christian;Villa,Christopher;Zhuo,Madeline;Bodman,Nicholas;Robles,Fernando;Boyd,Eric S.;Cox,Alysia D.;St.Clair,Brian;Hua,Zheng-Shuang;Li,Wen-Jun;Reysenbach,Anna-Louise;Stott,Matthew B.;Weber,Peter K.;Pett-Ridge,Jennifer;Dekas,Anne E.;Hedlund,Brian P.;Dodsworth,Jeremy A.;	10.1038/s41467-022-31452-8
2022	ENVBIO	ISME	Correlative SIP-FISH-Raman-SEM-NanoSIMS links identity, morphology, biochemistry, and physiology of environmental microbes	Schaible,George A.;Kohtz,Anthony;Cliff,John;Hatzenpichler,Roland;	

2022	ENVBIO	Limnology and Oceanography	Quantification of microcystin production and biodegradation rates in the western basin of Lake Erie	Chaffin,Justin D.;Westrick,Judy A.;Birbeck,Elliot Furr Johnna A.;Reitz,Laura A.;Stanislawczyk,Keara ;Li,Wei;Weber,Peter K.;Bridgeman,Thomas B.;Davis,Timothy W.;Mayali,Xavier	10.1002/lno.12096
2022	ENVBIO	ISME	Harnessing solar power: photoautotrophy supplements the diet of a low-light dwelling sponge	Hudspith,Meggie;de Goeij,Jasper M.,Streekstra,Mischa;Kornder,Niklas A.;Bougoure,Jeremy J.;Guagliardo,Paul;Campana,Sara;van der Wel,Nicole N.;Muyzer,Gerard;Rix,Laura;	10.1038/s41396-022-01254-3
2022	ENVBIO	Nature	Single-cell measurements and modelling reveal substantial organic carbon acquisition by *Prochlorococcus*	Wu,Zhen;Aharonovich,Dikla;Roth-Rosenberg,Dalit;Weissberg,Osnat;Luzzatto-Knaan,Tal;Vogts,Angela;Zoccarato,Luca;Eigemann,Falk;Grossart,Hans-Peter;Voss,Maren;Follows,Michael J.;Sher,Daniel;	10.1038/s41564-022-01250-5
2022	ENVBIO	Scientific Reports	Efficient carbon and nitrogen transfer from marine diatom aggregates to colonizing bacterial groups,12, 14949	Arandia-Gorostidi, Nestor;Berthelot, Hugo;Calabrese, Federica;Stryhanyuk, Hryhoriy;Klawonn, Isabell;Iversen, Morten;Nahar, Nurun;Grossart, Hans-Peter;Ploug, Helle;Musat, Niculina;	10.1038/s41598-022-18915-0
2022	ENVBIO	ISME	Intracellular development and impact of a marine eukaryotic parasite on its zombified microalgal host,1751-7370	Decelle,Johan;Kayal,Ehsan;Bigeard,Estelle;Gallet,Benoit;Bougoure,Jeremy J.;Clode,Peta;Schieber,Nicole;Templin,Rachel;Hehenberger,Elisabeth;Prensier,Gerard;Chevalier,Fabien;Schwab,Yannick;Guillou,Laure;	10.1038/s41396-022-01274-z
2022	ENVBIO	FEMS Microbiology Letters	Anomalously high abundance of Crocosphaera in the South Pacific Gyre	Benavides,Mar;Caffin,Mathieu;Duhamel,Solange;Foster,Rachel Ann;Grosso,Olivier;Guieu,Cecile;VanWambeke,France;Bonnet,Sophie	
2022	ENVBIO	mBio	In Vivo Evidence of Single 13C and 15N Isotope–Labeled Methanotrophic Nitrogen-Fixing Bacterial Cells in Rice Roots	Hara,Shintaro;Wada,Naohisa;Sung-Yun,Sliver;Zhang,Meng;Bao,Zhihua;Iizuka,Yoshiyuki;Lee,Der-Chuen;Sato,Shusei;Tang,Sen-Lin;Minamisawa,Kiwamu;	
2022	ENVBIO	preprint	Significant organic carbon acquisition by Prochlorococcus in the 2 oceans	Wu,Zhen;Aharonovich,Dikla;Roth-Rosenberg,Dalit;Weissberg,Osnat;Luzzatto-Knaan,Tal;Vogts,Angela;Zoccarato,Luca;Eigemann,Falk;Grossart,Hans-Peter;Voss,Maren;Follows,Michael J.;Sher,Daniel;	10.1101/2022.01.14.476346
2022	ENVBIO	PNAS	Biogeochemical fingerprinting of magnetotactic bacterial magnetite	Perez-Huerta,Alberto;Cappelli, Chiara ;Jabalera,Ylenia ;Prozorov, Tanya ;Jimenez-Lopez,Concepcion ;Bazylinski, Dennis A. ;	10.1073/pnas.2203758119
2022	ENVBIO	Frontiers in microbiology	Polyphosphate Dynamics in Cable Bacteria	Geerlings,Nicole M. J.;Kienhuis,Michiel V. M.;Hidalgo-Martinez,Silvia;Hageman,Renee;Vasquez-Cardenas,Diana;Middelburg,Jack J.;Meysman,Filip J.R.;Polerecky,Lubos;□	10.3389/fmicb.2022.883807
2022	ENVBIO	preprint	Multimodal registration of FISH and nanoSIMS images using convolutional neural network models	He,Xiaojia;Meile,Christof;Bhandarkar,Suchendra M.	
2022	ENVBIO	BioRxiv	Non-invasive investigation of the morphology and optical properties of the upside-down jellyfish Cassiopea with optical coherence tomography	Heidelberg Lyndby,Niclas;Murthy,Swathi;Bessette,Sandrine;Lindegaard Jakobsen,Sofie;Meibom,Anders;Kuhl,Michael;	
2023	ENVBIO	Science of The Total Environment	First insight in element localisation in different body parts of the acanthocephalan Dentitruncus truttae using TEM and NanoSIMS	Filipovic,MarljicVlatka;Subirana,MariaAngels;Schaumloffel,Dirk;Barisic,Josip;Gontier,Etienne;Krasnici,Nesrete;Mijosek,Tatjana;Hernandez-Orts,JesusS.;Scholz,Tomas;Erk,Marijana;	
2023	ENVBIO	Nature Microbiology	Chemotaxis increases metabolic exchanges between marine picophytoplankton and heterotrophic bacteria	Raina, Jean-Baptiste;Giardina, Marco;Brumley, Douglas R.;Clode, Peta L.;Pernice, Mathieu;Guagliardo, Paul;Bougoure, Jeremy;Mendis, Himasha;Smriga, Steven;Sonnenschein, Eva C.;Ullrich, Matthias S.;Stocker, Roman;Seymour, Justin R.	10.1038/s41564-023-01327-9
2023	ENVBIO	arxiv	Foraging on host synthesized metabolites enables the bacterial symbiont Snodgrassella alvi to colonize the honey bee gut	Quinn,Andrew;ElChazli,Yassine;Escrig,Stephane;Daraspe,Jean;Neuschwander,Nicolas;McNally,Aoife;Genoud,Christel;Meibom,Anders;Engel,Philipp;	10.1101/2023.01.23.524906
2023	ENVBIO	Water research	Combined Effects of Microplastics and Warming Enhance Algal Carbon and Nitrogen Storage	Sun,Shan;Hu,Xiangang;Kang,Weilu;Yao,Mingqi;	10.1016/j.watres.2023.119815
2023	ENVBIO	bioarxiv	Symbiotic nutrient cycling enables the long-term survival of Aiptasia in the absence of heterotrophic food sources	Radecker,Nils;Meibom,Anders;	
2023	ENVBIO	Water research	Microplastics trigger the Matthew effect on nitrogen assimilation in marine diatoms at an environmentally relevant concentration	Kang,Weilu;Sun,Shan;Hu,Xiangang;	10.1016/j.watres.2023.119762
2023	ENVBIO	ISME	Trophic interactions shape the spatial organization of medium-chain carboxylic acid producing granular biofilm communities	Candry,Pieter;Chadwick, Grayson L.;Caravajal-Arroyo, José Maria;Lacoere, Tim;Winkler, Mari-Karoliina Henriikka;Ganigué, Ramon;Orphan, Victoria J.;Rabaey, Korneel;	10.1038/s41396-023-01508-8
2023	ENVBIO	Science Advances	Similar but different: characterization of dddD gene mediated dimethylsulfoniopropionatemetabolism among Coral-Associated Endozoicomonas	Chiou,YuJing;Chan,Ya-Fan;Yu,Sheng-Ping;Lu,Chih-Ying;Shung-Yun,Silver;Chiang,Pei-Wen:Hsu,Ting-Chang;Liu,Po-Yu;Wada,Naohisa;Lee,Yu;Wann-Ng,Jane;Lee,Der-Chuen;Huang,Yu-Wen;Tang,Sen-lin;	10.1126/sciadv.adk1910
2023	ENVBIO	ISME	Single cell dynamics and nitrogen transformations in the chain forming diatom Chaetoceros affinis	Stenow,Rickard;obertson, Elisabeth K.;Whitehouse,Martin J.;Ploug,Helle;	10.1038/s41396-023-01511-z
2023	ENVBIO	inpress	Microbial catabolic and anabolic utilization of hydrocarbons in deep 2 subseafloor sediments of Guaymas Basin	Nagakura,Toshiki;Morono,Yuki;Ito,Motoo;Kallmeyer,Jens;	
2023	ENVBIO	Research Square	Metabolic Basis for the Microbial Oxidation of Atmospheric Methane	Schmider,Tilman;Hestnes,Anne Grethe;Brzykcy,Julia;Schmidt,Hannes;Schintlmeister,Arno;Roller,Benjamin;Sollinger,Andrea;Schmidt,Oliver;Polz,Martin;Richter,Andreas;Svenning,Mette;Tveit,Alexander;	
2023	ENVBIO	ISME	Polyethylene degradation and assimilation by the marine yeast Rhodotorula mucilaginosa	Vaksmaa,Annika;Polerecky,Lubos;Dombrowski,Nina;Kienhuis,Michiel V.M.;Posthuma,Ilsa;Gerritse,Jan;Boekhout,Teun;Niemann,Helge;	10.1038/s43705-023-00267-z
2023	ENVBIO	Nature Communications	Single-cell isotope tracing reveals functional guilds of bacteria associated with the diatom Phaeodactylum tricornutum	Mayali,Xavier;Samo,TyJ.;Kimbrel,Jeff A.;Morris,Megan M.;Rolison,Kristina;Swink,Courtney;Ramon,Christina;Kim,Young-Mo;Munoz-Munoz,Nathalie;Nicora,Carrie;Purvine,Sam;Lipton,Mary;Stuart,Rhona K.;Weber,Peter K.;	10.1038/s41467-023-41179-9
2023	ENVBIO	Nature Communications	Coupled carbon and nitrogen cycling regulates the cnidarian–algal symbiosis	Radecker,Nils;Escrig,Stephane;Spangenberg,Jorge E.;Voolstra,Crhistian R.;Meibom, Anders;	10.1038/s41467-023-42579-7
2023	ENVBIO	ISME	Thermophilic Dehalococcoidia with unusual traits shed light on an unexpected past	Palmer,Marike;Covington, Jonathan K ;Zhou, En-Min;Thomas,Scott C.;Habib, Neeli ; Seymour, Cale O ; Lai, Dengxun ; Johnston, Juliet ; Hashimi, Ameena ; Jiao, Jian-Yu ; Muok, Alise R ; Liu, Lan ; Xian, Wen-Dong ; Zhi, Xiao-Yang ; Li, Meng-Meng ; Silva, Leslie P ; Bowen, Benjamin P ; Louie, Katherine ; Briegel, Ariane ; Pett-Ridge, Jennifer ; Weber, Peter K ; Tocheva, Elitza I ; Woyke, Tanja ; Northen, Trent R ; Mayali, Xavier ; Li, Wen-Jun ; Hedlund, Brian P	10.1038/s41396-023-01405-0
2023	ENVBIO	PNAS	Microbially induced precipitation of silica by anaerobic methane-oxidizing consortia and implications for microbial fossil preservation	Osorio-Rodriguez,Daniela,Metcalfe,KyleS.;McGlynn,ShawnE.;Yu,Hang;Dekas,Anne E.;Ellisman,Mark;Deerinck,Tom;Aristilde,Ludmilla;Grotzinger,John P.;Orphan,Victoria J.;	10.1073/pnas.2302156120
2024	ENVBIO	Current Biology	Alkaloids are associated with increased microbial diversity and metabolic function in poison frogs	Caty,StephanieN.;Alvarez-Buylla,Aurora;Vasek,Cooper;Tapia,Elicio E.;Martin,Nora A.;McLaughlin,Theresa;Weber,PeterK.;Mayali,Xavier;Coloma,Luis A.;Morris,Megan M.;, Lauren A. O'Connell1	10.1101/2024.01.10.574901
2024	ENVBIO	Soil Biology and Biochemistry	Getting to the root of the problem: soil carbon and microbial responses to root inputs within a buried paleosol along an eroding hillslope in southwestern Nebraska, USA	McMurtry, Abbygail R.;Kasmerchak, Chase S.;Vaughan, Elliot A.;Dolui, Manisha;Phillips, Laura M.;Mueller, Carsten W.;Pett-Ridge, Jennifer;Berhe, Asmeret Asefaw;Mason, Joseph A.;Marín-Spiotta, Erika;de Graaff, Marie-Anne;	10.1016/j.soilbio.2024.109549
2024	ENVBIO	bioarxiv	Hijacking and Integration of Algal Plastids and 2 Mitochondria in a Polar Planktonic Host	Kedige,AnanyaRao;Yee,Daniel;Chevalier,Fabien;LeKieffre,Charlotte;Pavie,Marie;Olivetta,Marine;Dudin,Omaya;Gallet,Benoit;Hehenberger,Elisabeth;Seifi,Mehdi;Jug,Florian;Deschamps,Joran;Wu,Ting-Di;Gast,Rebecca;Jouneau,Pierre-Henri;Decelle,Johan;	10.1101/2024.10.20.619283
2024	ENVBIO	Limnology and Oceanography	Colony-forming and single-cell picocyanobacteria nitrogen acquisition strategies and carbon fixation in the brackish Baltic Sea	Laber,Christien P.;Zufia,Javier Alegria;Legrand,Catherine;Lindehoff,Elin;Farnelid,Hanna;	10.1002/lno.12636
2024	ENVBIO	Microbiome	Linking morphology, genome, and metabolic activity of uncultured magnetotactic Nitrospirota at the single-cell level	Ji,Runjia;Wan,Juan;Liu,Jia;Zheng,Jinbo;Xiao,Tian;Pan,Yongxin;Lin,Wei;	
2024	ENVBIO	bioarxiv	A nitrogen siphoning ectoparasite targeting a marine diatom represents a new cosmopolitan clade of uncultivated Rickettsiales	Morris,MeganM.;Kimbrel,Jeffrey A.;vanTol,Helena;Baker,Lydia;Parkey,Genevieve;Morales,Diana;Truong,Teresa;Rolison,Kristina;Dhaeseleer,Patrik;Navid,Ali;Weber,PeterK.;Stuart,RhonaK.;Mayali,Xavier;	
2024	ENVBIO	Frontiers of Environmental Science & Engineering	Unraveling the role of formate in improving nitrogen removal via coupled partial denitrification-anammox	Zhu, Wanlu;Xiao, Rui;Xu, Min;Chai, Wenbo;Liu, Wenlong;Jin, Zhengyu;Ikumi, David;Lu, Huijie	10.1007/s11783-024-1872-8
2024	ENVBIO	ISME Communications	Increasing aggregate size reduces single-cell organic carbon incorporation by hydrogel□embedded wetland microbes	Johnston,Juliet T., Nguyen Quoc,Bao;Abrahamson,Britt;Candry,Pieter;Ramon,Christina;Cash,KevinJ.;Saccomano,SamC.;Samo,TyJ.;Ye,Congwang;Weber,PeterK.;Winkler,MariKarolinaHenriikka;Mayali,Xavier;	10.1093/ismeco/ycae086
2024	ENVBIO	Nature	Growth of complete ammonia oxidizers on guanidine	Palatinszky,Marton;Herbold,CraigW.;Sedlacek,ChristopherJ.;Pühringer,Dominic;Kitzinger,Katharina;Giguere,AndrewT.;Wasmund,Kenneth;Nielsen,PerH.;Dueholm,MortenK.D.;Jehmlich,Nico;Gruseck,Richard;Legin,Anton;Kostan,Julius;Krasnici,Nesrete;Schreiner,Claudia;Palmetzhofer,Johanna;Hofmann,Thilo;Zumstein,Michael;Djinovic-Carugo,Kristina;Daims,Holger;Wagner,Michael;	10.1038/s41586-024-07832-z
2024	ENVBIO	ISME	Scarcity of fixed carbon transfer in a model microbial phototroph-heterotroph interaction	Dupuis,Sunnyjoy;Lingappa,Usha;Mayali,Xavier;Sindermann,EveS..;Chastain,JordanL.;Weber,PeterK.;, Rhona Stuart3 , Sabeeha S. Merchant1	10.1101/2024.01.26.577492

2024	ENVBIO	Nature Communications	Genome-guided isolation of the hyperthermophilic aerobe *Fervidibacter sacchari* reveals conserved polysaccharide metabolism in the *Armatimonadota*	Nou, Nancy O.;Covington, Jonathan K.;Lai, Dengxun;Mayali, Xavier;Seymour, Cale O.;Johnston, Juliet;Jiao, Jian-Yu;Buessecker, Steffen;Mosier, Damon;Muok, Alise R.;Torosian, Nicole;Cook, Allison M.;Briegel, Ariane;Woyke, Tanja;Eloe-Fadrosh, Emiley;Shapiro, Nicole;Bryan, Scott G.;Sleezer, Savannah;Dimapilis, Joshua;Gonzalez, Cristina;Gonzalez, Lizett;Noriega, Marlene;Hess, Matthias;Carlson, Ross P.;Liu, Lan;Li, Meng-Meng;Lian, Zheng-Han;Zhu, Siqi;Liu, Fan;Sun, Xian;Gao, Beile;Mewalal, Ritesh;Harmon-Smith, Miranda;Blaby, Ian K.;Cheng, Jan-Fang;Weber, Peter K.;Grigorean, Gabriela;Li, Wen-Jun;Dekas, Anne E.;Pett-Ridge, Jennifer;Dodsworth, Jeremy A.;Palmer, Marike;Hedlund, Brian P.;	10.1038/s41467-024-53784-3
2024	ENVBIO	Nature	Rhizobia–diatom symbiosis fixes missing nitrogen in the ocean	TschitschKo,BernhardEsti,Mertcan;Philippi,Miriam;Kidane,AbielT.;Littmann,Sten;Kitzinger,Katharina;Speth,DaanR.;Li,Shengjie;Kraberg,Alexandra;Tienken,Daniela;Marchant,HannahK.;Kartal,Boran;Milucka,Jana;Mohr,Wiebke;Kuypers,MarcelM.M.;	10.1038/s41586-024-07495-w
2024	ENVBIO	FEMS Microbiology Ecology	Fronts divide diazotroph communities in the Southern Indian Ocean	Chowdhury,Subhadeep;Berthelot,Hugo;Baudet,Corentin;Gonzalez-Santana,David;Reeder,ChristianFurbo;LHelguen,Stephane;Maguer,Jean-François;Loscher,CarolinR;Singh,Arvind;Blain,Stephane;Cassar,Nicolas;Bonnet,Sophie;Planquette,Helene;Benavides,Mar;	10.1093/femsec/fiae095
2024	ENVBIO	Journal of Environmental Sciences	Characteristics of phosphorus transformation from vivianite mediated by sulphide	Song, Zijun;Yang, Jing;Hua, Yumei;Liu, Guanglong;Yu, Guanghui;Zhao, Jianwei;Hu, Jinlong;Wan, Xiaoqiong	10.1016/j.jes.2024.08.005
2024	ENVBIO	Applied and Environmental Microbiology	Competition of Cd(II) and Pb(II) on the bacterial cells: a new insight from bioaccumulation based on NanoSIMS imaging	Wang,Zhijun;Zhang,Ying;Chen,Yunhui;Han,Feiyu;Shi,Yixiao;Pan,Shang;Li,Zhen;	10.1128/aem.01453-23
2024	ENVBIO	Science Advances	Single-cell analysis in hypersaline brines predicts a water-activity limit of microbial anabolic activity	Paris, Emily R.;Arandia-Gorostidi, Nestor;Klempay, Benjamin;Bowman, Jeff S.;Pontefract, Alexandra;Elbon, Claire E.;Glass, Jennifer B.;Ingall, Ellery D.;Doran, Peter T.;Som, Sanjoy M.;Schmidt, Britney E.;Dekas, Anne E.	10.1126/sciadv.adj3594
2024	ENVBIO	Nature	Host-derived organic acids enable gut colonization of the honey bee symbiont Snodgrassella alvi	Quinn,Andrew;ElChazli,Yassine;Escrig,Stéphane;Daraspe,Jean;Neuschwander,Nicolas;McNally,Aoife;Genoud,Christel;Meibom,Anders;Engel,Philipp;	10.1038/s41564-023-01572-y
2024	ENVBIO	Environmental Pollution	Stable isotopes and nanoSIMS single-cell imaging reveals soil plastisphere colonizers able to assimilate sulfamethoxazole	Xiang,Qian;Stryhanyuk,Hryhoriy;Schmidt,Matthias;Richnow,Hans H.;Zhu,Yong-Guan;Cui,Li;Musat,Niculina;	10.1101/2024.01.11.575183
2024	ENVBIO	Nature Microbiology	Inactive hydrothermal vent microbial communities are important contributors to deep ocean primary productivity	Achberger,Amanda M.;Jones, Rose;Jamieson, John;Holmes, Charles P.;Schubotz, Florence;Meyer, Nicolette R.;Dekas, Anne E.;Moriarty, Sarah;Reeves, Eoghan P.;Manthey, Alex;Brunjes, Jonas;Fornari, Daniel J.;Tivey, Margaret K.;Toner, Brandy M.;Sylvan, Jason B.;	10.1038/s41564-024-01599-9
2024	ENVBIO	bioarxiv	Single-cell trait diversity explains niche and fitness differences in aquatic microbial communities	Fontana,Simone;Schmitz,Desiree A.;Daniels, Michael;Danza,Francesco;Röösli, Thomas;Brudererd,Hannah;Walserh, Jean-Claude;Dekaezemackeri,Julien;Escrig,Stephane;Meibom,Anders;Pomatia,Francesco;Schreiber,Frank;	10.1101/2024.02.07.579265
2024	ENVBIO	Frontiers in Biology	Multi-wavelength Raman microscopy of nickel-based electron transport in cable bacteria	Smets,Bent;Boschker,HenricusT.;Wetheringto,MaxwellT.;Lelong,Gerald;Hidalgo-Martinez,Silvia;Nuyts,Gert;DeWael,Karollen;Meysman,FilipJ.;	
2024	ENVBIO	Nature	Survival and rapid resuscitation permit limited productivity in desert microbial communities	Imminger,Stefanie;Meier, Dimitri V.;Schintlmeister, Arno;Legin, Anton;Schnecker, Jörg;Richter, Andreas;Gillor, Osnat;Eichorst, Stephanie A.;Woebken, Dagmar	10.1038/s41467-024-46920-6
2024	ENVBIO	Science of the Total Environment	Biodegradation of polyethylene by the marine fungus Parengyodontium album	Vaksmaa,Annika;Vielfaure,Hortense;Polerecky,Lubos.;Kienhuis,M. V M;vanderMeer,M.T.J; Pfluger,T.; Egger, M.;Niemann,Helge;	10.1016/j.scitotenv.2024.172819
2024	ENVBIO	Applied and Environmental Microbiology	Single-cell analysis reveals an active and heterotrophic microbiome in the Guaymas Basin deep subsurface with significant inorganic carbon fixation by heterotrophs	Meyer,Nicolette R.;Morono,Yuki;Dekas,AnneE.;	10.1128/aem.00446-24
2024	ENVBIO	Nature Communications	Physiological basis for atmospheric methane oxidation and methanotrophic growth on air	Schmider, Tilman;Hestnes, Anne Grethe;Brzykcy, Julia;Schmidt, Hannes;Schintlmeister, Arno;Roller, Benjamin R. K.;Teran, Ezequiel Jesús;Söllinger, Andrea;Schmidt, Oliver;Polz, Martin F.;Richter, Andreas;Svenning, Mette M.;Tveit, Alexander T.;	10.1038/s41467-024-48197-1
2024	ENVBIO	Frontiers in Marine Science	Uptake of dissolved inorganic nitrogen and N2 fixation by Crocosphaera watsonii under climate change scenarios Provisionally Accepted	Umbricht,Jacqueline;DeLamadrid,Lopez;Filella,Alba;Klett,Angelina;Vogts,Angela;Benavides,Mar;Voss,Maren;	
2024	ENVBIO	bioarxiv	Coastal bacteria and protists assimilate viral carbon and nitrogen	Martinez,JoaquimMartinez;Talmy,David;Kimbrel,JeffreyA.;Weber,PeterK.;Mayali,Xavier;	10.1101/2024.06.14.598912
2024	ENVBIO	Journal of Hazardous Materials	Phosphorous accumulation associated with mitochondrial *PHT3*-mediated enhanced arsenate tolerance in *Chlamydomonas reinhardtii*	Tao,Leyuan;Wang,Llong;Liu,Laihua;Cheng,Xianguo;Zhang,Qianru;	10.1016/j.jhazmat.2024.135460
2024	ENVBIO	bioarxiv	Multicellular magnetotactic bacterial consortia are 1 metabolically differentiated and not clonal	Schaible,GeorgeA.;Jay,ZackaryJ.;Cliff,John;Schulz,Frederik;Gauvin,Colin;Goudeau,Danielle;Malmstrom,RexR.;Ruff,S.Emil;Edgcomb,Virginia;Hatzenpichler,Roland;	
2024	ENVBIO	ISME	Microbiome processing of organic nitrogen input supports growth and cyanotoxin production of Microcystis aeruginosa cultures	Li, Wei ;Baliu-Rodriguez, David ;Premathilaka, Sanduni H ;Thenuwara, Sharmila I ;Kimbrel, Jeffrey A ;Samo, Ty J ;Ramon, Christina ;Kiledal, E Anders ;Rivera, Sara R ;Kharbush, Jenan ;Isailovic, Dragan ;Weber, Peter K ;Dick, Gregory J ;Mayali, Xavier	
2024	ENVBIO	Nature	Persistent activity of aerobic methane-oxidizing bacteria in anoxic lake waters due to metabolic versatility	Schorn,Sina;Graf,JonS.;Littmann,Sten;Hach,PhilippF.;Lavik,Gaute;Speth,DaanR.;Schubert,CarstenJ.;Kuypers,MarcelM.M.;Milucka,Jana;	10.1038/s41467-024-49602-5
2024	ENVBIO	Nature Microbiology	The Parkinson's disease drug entacapone disrupts gut microbiome homoeostasis via iron sequestration	Pereira,FatimaC.;Ge,Xiaowei;Kristensen,JannieM.;Kirkegaard,RasmusH.;Maritsch,Klara;Szamosvari,David;Imminger,Stefanie;Seki,David;Shazzad,JuwairiyahB.;Zhu,Yifan;Decorte,Marie;Hausmann,Bela;Berry,David;Wasmund,Kenneth;Schintlmeister,Arno;Bottcher,Thomas;Cheng,Ji-Xin;Wagner,Michael;	10.1038/s41564-024-01853-0
2025	ENVBIO	Scientific Reports	Biogenic filamentous fabrics in green colored moss agates within miocene volcanic rocks in Japan and the associated formation of celadonite	Akahane,Hisatada;Shimizu,Masaaki;Ogawara,Takahiko;Ito,Motoo;Yoshioka,Tasuku;Sawada,Hikaru;Miyajima,Hiroshi;Momma,Koichi;Imai,Hiroyuki;	10.1038/s41598-025-09178-6
2025	ENVBIO	Total Environment Microbiology	Mineralization of photodegraded polyethylene by the marine-derived fungus Aspergillus terreus	Lesuis,Chiara.;Niemann,Helge.;Kienhuis,MichielV.M.;vanderMeer,MarcelTJ.;Vielfaure,Hortense;Polerecky,Lubos;Vaksmaa,Annika;	10.1016/j.temicr.2025.100027
2025	ENVBIO	ResearchSquare	Isolation of two species of Caldatribacterium(Atribacterota) and the importance of folate for theirculturability	Hedlund,Brian;Alvaredo,Toshio;Murphy,Trevor;Blocker,Amanda;Levon,Erin;Phoenix,John;Mazdra,Katherine;Sons,Tyler;Torres,Ariel;Ledesma,Jennifer;Jiries,Janette;Manriquez,Adrian;Camacho,Alberto;Owerkowicz,Zofia;Lacy,Jacob;Seymour,Cale;Lai,Dengxun;Mayali,Xavier;Weber,Peter;Pett-Ridge,Jennifer;Dodsworth,Jeremy;Hamilton-brehm,Scott;Muok,Alise;Briegel,Ariane;Xiao,Rui;Moser,Duan;	10.21203/rs.3.rs-6739887/v1
2025	ENVBIO	Communications Biology	Unveiling the contribution of particle-associated non-cyanobacterial diazotrophs to N2 fixation in the upper mesopelagic North Pacific Gyre	Reeder,ChristianF.;Filella,Alba;Voznyuk,Anna;Coet,Arthur;James, ReeceC.;Rohrer,Tully;White,AngelicqueE.;Berline, Leo;Grosso,Olivier;vanDijken,Gert;Arrigo,Kevin R.;Mills,MatthewM.;Turk-Kubo,KendraA.;Benavides,Mar;	10.1038/s42003-025-07542-w
2025	ENVBIO	Nature	Branched-chain amino acid specialization drove diversification within Calditenuaceae (Caldarchaeia) and enables their cultivation	Lai,Dengxun;Mosier,Damon ;Palmer,Marike ;Mayali,Xavier ;Johnston, Juliet ; Saldivar,Walter ;Covington, Jonathan K. ;Jiao, Jian-Yu ;Murali,Ranjani;Seymour, Cale O. ;Liu, Lan ; Hua,Zheng-Shuang ;Li, Wen-Jun ;Weber, Peter K. ;Pett-Ridge,Jennifer ;Colman,Daniel R. ;Boyd, Eric S. ;Nunoura, Takuro ;Dodsworth, Jeremy A.;Hedlund, & Brian P. ;	10.21203/rs.3.rs-6038074/v1
2025	ENVBIO	PNAS	Methane-powered sea spiders: Diverse, epibiotic methanotrophs serve as a source of nutrition for deep-sea methane seep Sericosura	DalBo,Bianca;Guo,Yongzhao;Mayr,MagdalenaJ.;Pereira,OliviaS.;Levin,LisaA.;Orphan,VictoriaJ.;Goffredi,ShanaK.;	10.1073/pnas.2501422122
2025	ENVBIO	Electrochimica Acta	Conductive Matrix Architecture of Sulfate-Reducing Bacteria Boosts Coculture Electrical Output	Murugan,Muralidharan;Okamoto,Akihiro;	10.1016/j.electacta.2025.146826
2025	ENVBIO	Nature Communications	A family of tubular pili from harmful algal bloom forming cyanobacterium *Microcystis aeruginosa*	Ricca,JohnG.;Petersen,HollyA.;Grosvirt-Dramen,Adam;Mayali,Xavier;Naylon,SarahH.;Duersch,BobbyG.;Dufresne,CraigP.;Weber,PeterK.;Sonani,RaviR.;Prevelige,PeterE.;Hochbaum,AllonI.;Merk,Vivian;Louda,J.W.;Wang,Fengbin;	10.1038/s41467-025-63379-1
2025	ENVBIO	Proceedings of the National Academy of Sciences	Ecosystem consequences of a nitrogen-fixing proto-organelle	Marks,JaneC.;Zampini,MichaelC.;Fitzpatrick,Raina;Kariunga,Saeed H.;Sitati,Augustine;Samo,Ty.J.;Weber,PeterK.;Thomas,Steven;Hungate,BruceA.;Ramon,ChristinaE.;Wulf,Michael;Leshyk,VictorO.;Schwartz,Egbert;Pett-Ridge,Jennifer;Power,MaryE.;	10.1073/pnas.2503108122
2025	ENVBIO	arxiv	Diverse community of Rhizobia-diatom symbioses fixes nitrogen in the South PacificGyre	Esti,Mertcan;Philippi,Miriam;Duerschlag,Julia;Ferdelman,TimothyG.;Tolman,Jennifer;LaRoche,Julie;Martinez-Perez,Clara;Lavik,Gaute;Tschitschko,Bernhard;Wong,HonLun;Kraberg,Alexandra;Littmann,Sten;Kidane,AbielT.;Mohr,Wiebke;Kuypers,MarcelMM;	
2025	ENVBIO	Environmental Microbiology	Inactive "Ghost" Cells Do Not Affect Motility and Long-Range Electron Transport in Filamentous Cable Bacteria	van Dijk ,Jesper R. ;Geelhoed,Jeanine S. ;Geerlings,Nicole ;Choyikutty,AlingapoyilJiji;Boschker,HenricusT.S.;Verbruggen,Erik;Meysman,FilipJ.R.;	10.1111/1462-2920.70117
2025	ENVBIO	Environmental Microbiology	In Situ Metabolic Rates of Alkane-Degrading Sulphate-Reducing Bacteria in Hydrocarbon Seep Sediments Revealed by Combining CARD-FISH, NanoSIMS,and Mathematical Modelling	Kleindienst,Sara ;Polerecky,Lubos;Amann,Rudolf ;Musat,Florin;Knittel,Katrin;	10.1111/1462-2920.70151
2025	ENVBIO	Water Research X	Compartment-specific effect of sulfamethoxazole at low μg/L concentrations on microbial nitrogen assimilation in a river system	Haenelt,Sarah;Akay,Caglar;Richnow,Hans-Hermann;Kummel,Steffen;Stryhanyuk,Hryhoriy;Muller,Jochen A.;Musat,Niculina;	10.1016/j.wroa.2025.100390
2025	ENVBIO	Science Advances	Heterologous synthesis of a simplified nitrogenase analog in Escherichia coli	Liu,YilingA.;Lee,ChiChung;Gorecki,Kamil;Stiebritz,MartinT.;Duffin, Calder;Solomon,JosephB.;Ribbe,MarkusW.;Hu,Yilin;	10.1126/sciadv.adw6785
2025	ENVBIO	Limnology and Oceanography	Impact of nutritional history, prey quality, and quantity on grazing and photophysiological responses in the mixoplanktonic dinoflagellate *Karenia brevis*	Ahn,SoHyun;Mayali,Xavier;Weber,PeterK.;Glibert,Patricia M.;	10.1002/lno.70158

2025	ENVBIO	Limnology and Oceanography	Impact of nutritional history, prey quality, and quantity on grazing and photophysiological responses in the mixoplanktonic dinoflagellateKarenia brevis	Ahn,SoHyun;Mayali,Xavier;Weber,PeterK.;Glibert,PatriciaM.;	10.1002/lno.70158
2025	ENVBIO	anxiv	Spatiotemporal and temperature-dependent disconnect between ammoniaoxidation and dark DIC fixation in deep oligotrophic Lake Constance	Bosviel,Jade;Kitzinger,Katharina;Vulcano,Francesca;Klotz,Franziska;Legin,Anton;Busing,Petra;Rennebarth,Thorsten;Stuehrenberg,Jordis;Marchant,Hannah;Wagner,Michael;Wessels,Martin;Schlehecker,David;Kuypers,MarcelM.M.;Pester,Michael;	
2025	ENVBIO	ResearchSquare	Thermophilic Dehalococcoidia with unusual traitsshed light on an unexpected past	Palmer,Marike;Covington ,Jonathan;Zhou,En-Min;Thomas,Scott;Habib,Neeli;Seymour,Cale;Lai,Dengxun;,Johnston,Juliet;Hashimi,Ameena;,Jiao,Jian-Yu;Liu,Lan;Xian,Wen-Dong;Zhi,Xiao-Yang;Li,Meng-Meng;Silva,Leslie;Bowen,Benjamin;Louie,Katharine;Briegel,Ariane;Pett-Ridge,Jennifer;Weber,PEter;Tocheva,Elitza;Woyke,Tanja;Northen,Trent;Mayali,Xavier;Li,Wen-Jun;Hedlund,Brian;	
2025	ENVBIO	Nature Communications	Urea use drives niche separation between dominant marine ammonia oxidizing archaea	Stuehrenberg,Joerdis;Kitzinger,Katharina;vonArx,JanN.;Graf,JonS.;Lavik,Gaute;Littmann,Sten;Milucka,Jana;Orsi,WilliamD.;Schorn,Sina;Speth,DaanR.;Vuillemin,Aurele;Wu,Siqi;Marchant,HannahK.;Kuypers,MarcelM.M.;	10.1038/s41467-025-67048-1
2026	ENVBIO	Nature Communications	Fungal parasites infecting N2-fixing cyanobacteria reshape carbon and N2 fixation and trophic transfer	Feuring,Anna;Lawrence,ConnorD.;Salcedo,Jessica;Whitehouse,MartinJ.;Voqts,Angela;Zoccarato,Luca;Klawonn,Isabell;	10.1038/s41467-025-67818-x
2026	ENVBIO	Science	High-efficiency methane consumption by atmospheric methanotrophs in subsurface karst caves: The irrefutable methane sink	Liu,Xiaoyan ;Cheng,Xiaoyu ;Zhang, , Yiming;, Zhao,Rui ; Wang, Weiqi ;Li, Yang ;, Chen, Zhong-Qiang ;Qiu,Xincheng ;Tuovinen,Olli H. ;Bull2 , , Ian D. ;Evershed, Richard P. ;Wang,Hongmei ;	
2026	ENVBIO	Nature Geoscience	Distinct contributions of suspended and sinking prokaryotes to mesopelagic carbon budget	LeCoq,Pauline;Christaki,Urania;VanWambeke,France;Chevillon,Elisabeth;Zakardjian,Bruno;Garel,Marc;Guasco,Sophie;Baumas,ChloeM.J.;Dekas,AnneE.;Bonin,Patricia;Ali,BadrAl;Gesson,Maeva;LeMoigne, Frederic;Pujo-Pay,Mireille;Crispi,Olivier;Grosso,Olivier;Moutin,Thierry;Bhairy,Nagib;deSaint Leger,Emmanuel;Memery,Laurent;Guidi,Lionel;Armougom,Fabrice;Grossart,Hans-Peter;Tamburini,Christian;	10.1038/s41561-025-01888-w
2026	ENVBIO	Science Advances	Single-cell analysis in hypersaline brines predicts a water-activity limit of microbial anabolic activity	Paris,Emily R.;Arandia-Gorostidi,Nestor ;Klempay, Benjamin ;Bowman,Jeff S. ;Pontefract, Alexandra ;Elbon,ClaireE.;Glass,JenniferB.;Ingall,ElleryD.;Doran,PeterT.;Som,SanjoyM.;Schmidt,BritneyE.;Dekas,AnneE.;	10.1126/sciadv.adj3594
2026	GEOCHRONOLOGY	Meteoritics and Planetary Science	In situ U–Pb chronology and chemistry of zirconolite in the andesitic meteorite Erg Chech 002	Sakuma,Jun;Asanuma, Hisashi ;Takahata, Naoto ;Yamaguchi,Akira ;Iizuka,Tsuyoshi;	
2005	GEOLOGY	International Journal of Mass Spectrometry	Ion Microprobe (NanoSIMS 50) Pb-isotope geochronology at < 5µm scale	Stern,Richard A.;Fletcher,Ian;Rasmussen,Birger;McNaughton,Neal J.;Griffin,Brendan;	
2005	GEOLOGY	Contributions to Mineralogy and Petrology	Trace element distribution between orthopyroxene and clinopyroxene in peridotites from the Gakkel Ridge: a SIMS and NanoSIMS study .. Contributions to Mineralogy and Petrology (2005) 150: 486–504	Hellebrand,Eric;Snow,Jonathan E.;Mostefaoui,Smail;Hoppe,Peter;	10.1007/s00410-005-0036-5
2005	GEOLOGY	Canadian Mineralogist 43:1631-1641 (2005	The application of HRTEM techniques and NanoSIMS to chemically and isotopically characterize Geobacter sulfurreducens surfaces.	Fayek,Mostafa,Utsunomiya,Satoshi;Pfiffner,Susan M.;White,David C.;Riciputi,Lee R.,Ewing,Rodney C.;Anovitz,Lawrence M.,Stadermann,Frank J.;	
2006	GEOLOGY	Geochemical journal	Ion microprobe U-Pb dating of monazite with about five micrometer spatial resolution, v40, pp597-608	Sano,Yuji;Takahata,Naoto;Tsutsumi,Yukiyasu;Miyamoto,Tomoharu ;	
2007	GEOLOGY	Earth and Planetary Science Letters	Chemical imaging with NanoSIMS: A window into deep-Earth geochemical processes	Badro,James;Ryerson,F.;Weber,Peter K.;Ricolleau,A.;Fallon, S.J.;Hutcheon,Ian D.;Albarede,Francis;	10.1016/j.epsl.2007.08.007
2008	GEOLOGY	Nature	Reassessing the first appearance of eukaryotes and cyanobacteria,vol 455,pp1101-1105	Rasmussen,Birger;Fletcher,Ian R.;Brocks,Jochen J.;Kilburn,Matt R.;	10.1038/nature07381
2008	GEOLOGY	Earth and Planetary Science Letters	Element partitioning between magnesium silicate perovskite and ferropericlase: New insights into bulk lower-mantle geochemistry. . Earth and Planetary Science Letters. Volume 269, Issues 1–2, 15 May 2008, Pages 164-174. DOI: 10.1016/j.epsl.2008.02.001	Auzende,Anne-Line;Badro,James;Ryerson,Frederick J.;Weber,Peter K.;Fallon,Stewart J.;Addad,Ahmed;Siebert,Julien;Fiquet,Guillaume;	
2008	GEOLOGY	Journal of the Geological Society	Use of NanoSIMS in the search for early life on Earth: ambient inclusion trails in a c. 3400 Ma sandstone . Journal of the Geological Society, London, Vol. 165, 2008, pp. 43–53.	Wacey,David; Kilburn,Matt R.;Mcloughlin,Nicola;Parnell,John;Stoakes,Crispin A.;Grovenor,Chris R. M. ;Brasier,Martin D.;	
2008	GEOLOGY	Gondwana Research	Internal structures and U–Pb ages of zircons from a tuff layer in the Meishucunian formation, Yunnan Province, South China,v14,148–158.	Sawaki,Yusuke;Nishizawa,Manabu;Suo,Takeshi;Komiya,Tsuyoshi;Hirata,Takafumi;Takahata,Naoto;Sano,Yuji ;Han,Jian;Kon,Yoshiaki;Maruyama,Shigenori;	
2008	GEOLOGY	Gondwana Research	Ion microprobe U–Pb dating of zircon with a 15 micrometer spatial resolution using NanoSIMS,v14,587–596.	Takahata,Naoto;Tsutsumi,Yukiyasu;Sano,Yuji;	
2008	GEOLOGY	International Journal of Mass Spectrometry	NanoSIMS micron-scale in situ measurement of 13C/12C in early precambrian organic matter, with permil precision. . International Journal of Mass Spectrometry, 2008	Fletcher,Ian R.;Kilburn,Matt R.;Rasmussen,B.;	10.1016/j.ijms.2008.08.010
2009	GEOLOGY	Economic Geology	Uncloaking invisible gold: Use of NanoSIMS to evaluate gold, trace elements, and sulfur isotopes in pyrite from carlin-type gold deposits. . Economic Geology, v. 104, no. 7, (Nov 2009) 897-904	Barker,Shaun L.L.;Hickey,Kenneth A.;Cline,Jean S.;Dipple,Gregory M.;Kilburn,Matt R.;Vaughan,Jeremy R.;Longo,Anthony A.;	
2009	GEOLOGY	PNAS	High-pressure highly reduced nitrides and oxides from chromitite of a Tibetan ophiolite. PNAS, November 17, 2009, vol. 106, no. 46	Dobrzhinetskaya,Larissa F.;Wirth,v;Yang,Jingsui;Hutcheon,Ian D.;Weber,Peter K.;Green II,Larry W.;	
2009	GEOLOGY	Contributions to Mineralogy and Petrology	Sub-micron scale distributions of trace elements in zircon,158, pages 317–335	Hofmann,Amy E.;Valley,John W.;Watson,E. Bruce;Cavosie,Aaron J.;Eiler,John M.;	10.1007/s00410-009-0385-6
2009	GEOLOGY	Precambrian Research	NanoSIMS: insights to biogenecity and syngeneity of Archaen carboneceous structures. . Precambrian Research. Volume 173, Issues 1–4, September 2009, Pages 70-78	Oehler,Dorothy Z.;Robert,Francois;Walter, Malcolm R.;Sugitani,Kenichiro;Allwood,Abigail C.;Meibom,Anders;Mostefaoui,Smail;Selo, Madeleine;Thomen,Aurelien;Gibson,Everett K;	
2009	GEOLOGY	Geology	Evidence for microbial life in synsedimentary cavities from 2.75 Ga terrestrial environments. . GEOLOGY vol37 nb5 , May 2009.	Rasmussen,Birger;Blake,Tim S.;Fletcher,Ian R.;Kilburn,Matt R.;	
2010	GEOLOGY	Astrobiology	Diversity in the Archean Biosphere: New Insights from NanoSIMS. . Astrobiology vol 10, number 4, 2010, p. 413 - 424	Oehler,Dorothy Z.;Robert,Francois;Walter,Malcolm R.;Sugitani,Kenichiro;Meibom,Anders;Mostefaoui,Smail;Gibson,Everett K.;	
2011	GEOLOGY	Nature Geoscience	Microfossils of sulphur-metabolizing cells in 3.4-billion-year-old rocks of Western Australia	Wacey,David;Kilburn, Matt R.;Saunders,Martin;Cliff,John;Brasier,Martin D.;	10.1038/ngeo1238
2011	GEOLOGY	Earth and Planetary Science Letters	Earliest microbially-mediated pyrite oxidation in ~3.4 billion-year-old sediments. Earth and Planetary Science Letters, 301 (2011) 293-402.	Wacey,David;Saunders,Martin;Brasier,Martin D.;Kilburn,Matt R.;	
2011	GEOLOGY	Geobiology	Microbialite taphonomy and biogenicity: new insights from NanoSIMS	Wacey,David;Gleeson,D;Kilburn,Matt R.;	10.1111/j.1472-4669.2010.00251.x
2012	GEOLOGY	Lithos	Two-stage partial melting and contrasting cooling history within the Higher Himalayan Crystalline Sequence in the far-eastern Nepal Himalaya, 134-135,1–22	Imayama,Takeshi;Takeshita,Toru;Yi,Keewook;Cho,Deung-Lyong;Kitajima,Kouki;Tsutsumi,Yukiyasu;Kayama,Masahiro;Nishido,Hirotsugu;Okumura,Tasuku;Yagi, Koshi;Itaya,Tetsumaru;Sano,Yuji;	
2012	GEOLOGY	PNAS	Sulfur isotopes of organic matter preserved in 3.45-billion-year-old stromatolites reveal microbial metabolism. . PNAS September 18, 2012 vol. 109 no. 38	Bontognali,Tomaso R. R.;Sessions,Alex L.;Allwood,Abigail C.;Fischer,Woodward W.;Grotzinger,John P.;Summons,Roger E.;Eiler,John M.;	
2012	GEOLOGY	JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY	Precise micrometre-sized Pb-Pb and U-Pb dating with NanoSIMS	Yang,Wei;Lin,Yang-Ting;Zhang,Jian-Chao;Hao,Jia-Long;Shen,Wen-Jie;Hu,Sen;	
2013	GEOLOGY	Journal of Petrology	High-Mg Adakite and Low-Ca Boninite from a Bonin Fore-arc Seamount: Implications for the Reaction between Slab Melts and Depleted Mantle, v54, number 6, p1149-1175	Li,Yi-Bing;Kimura,Jun-Ichi;Machida,Shiki ;Ishii,Teruaki;Ishiwatari,Akira;Maruyama,Shigenori ;Qiu,Hua-Ning;Ishikawa,Tsuyoshi;Kato,Yasuhiro;Haraguchi,Satoru;Takahata,Naoto;Hirahara,Yuka;Miyazaki,Takashi;	10.1093/petrology/egt008
2013	GEOLOGY	PNAS	Nanoscale analysis of pyritized microfossils reveals differential heterotrophic consumption in the 1.9-Ga Gun flint chert. . PNAS, May 14, 2013 , vol. 110 no. 20	Wacey,David;McLoughlin,Nicola;Kilburn,Matt R.;Saunders,Martin ;Cliff,John B.;Kong, Charlie;Barley,Mark E.;Brasier,Martin D.;	
2014	GEOLOGY	Earth and Planetary Science Letters	The H2O content of granite embryos	Bartoli,Omar;Cesare,Bernardo;Remusat,Laurent;Acosta-Vigil,Antonio;Poli, Stefano;	10.1016/j.epsl.2014.03.031
2014	GEOLOGY	Journal of Volcanology and Geothermal Research	NanoSIMS results from olivine-hosted melt embayments: Magma ascent rate during explosive basaltic eruptions., v283, p1-18	Lloyd,Alexander S.;Ruprecht,Philipp;Hauri,Erik H.;Rose,William;Gonnermann,Helge M.;Plank,Terry;	
2014	GEOLOGY	Gondwana Research	New chronological constraints for Cryogenian to Cambrian rocks in the Three Gorges, Weng'an and Chengjiang areas, South China. . Gondwana Research 25 (2014) 1027–1044	Okada,Yoshihiro;Sawaki,Yusuke;Komiya,Tsuyoshi;Hirata,Takafumi ;Takahata,Naoto;Sano,Yuji;Han,Jian;Maruyama,Shigenori;	
2014	GEOLOGY	Contributions to Mineralogy and Petrology	Sub-micron-scale trace-element distributions in natural zircons of known provenance: implications for Ti-in-zircon thermometry, v168,1057	Hofmann,Amy E.;Baker,Michael B.;Eiler,John M.;	10.1007/s00410-014-1057-8
2014	GEOLOGY	Geochemistry, Geophysics, Geosystems G3	Empirical evidence for the fractionation of carbon isotopes between diamond and iron carbide from the Earth's mantle. ,v15, Issue 4, P855–866	Mikhail,S.;Guillermier,Christelle;Franchi,Ian A.;Beard,A. D.;Crispin,K.;Verchovsky,A. B.;Jones,A. P.;Milledge,H. J.;	10.1002/2013GC005138
2014	GEOLOGY	International Geology Review	Dating thin zircon rims by NanoSIMS: the Fengtien nephrite (Taiwan) is the youngest jade on Earth. International Geology Review, 2014	Yui,Tzen-Fu;Usuki,Tadashi;Chen,Chun-Yen;Ishida,Akizumi Sano,Yuji ;Suga,Kenshi;Iizuka,Yoshiyuki Chen,Chih-Tung;	10.1080/00206814.2014.972994
2014	GEOLOGY	Precambrian Research	Geochemistry and nano-structure of a putative 3240 million-year-old black smoker biota, Sulphur Springs Group, Western Australia. Precambrian Research 249 (2014) 1–12	Wacey,David;Saunders,Martin;Cliff,John;Kilburn,Matt R.;Kong,Charlie;Barley,Mark E.;Brasier,Martin;	10.1016/j.precamres.2014.04.016
2014	GEOLOGY	Journal of Asian Earth Sciences	Ion microprobe U–Pb dating and Sr isotope measurement of a protoconodont. , Journal of Asian Earth Sciences 10/2014; 92:10–17.	Sano,Yuji;Toyoshima,Kosaku;Ishida,Akizumi;Shirai,Kotaro;Takahata,Naoto;Sato,Tomohiko;Komiya,Tsuyoshi;	
2015	GEOLOGY	Nature Geoscience	Slab melting beneath the Cascade Arc driven by dehydration of altered oceanic peridotite. Nature Geoscience 8, 404–408 (2015) doi:10.1038/ngeo2417	Walowski,Kristina J.;Wallace,Paul J.;Hauri,Erik H.;Wada,Ikuko;Clynne,Michael A.;	
2015	GEOLOGY	Geology	Months between rejuvenation and volcanic eruption at Yellowstone caldera, Wyoming,43 (8): 695-698	Till,Christy B;Vazquez, Jorge A.;Boyce, Jeremy W.	10.1130/G36862.1
2015	GEOLOGY	Geology	Uncovering framboidal pyrite biogenicity using nano-scale CN. org mapping. . GEOLOGY. Volume 43. Number 1.	Wacey,David;Kilburn,Matt R.;Saunders,Martin;Cliff,John B.;Kong,Charlie;Liu,Alexander G.;Matthews,Jack J.;Brasier,M.D.;	
2015	GEOLOGY	Scientific Reports	Sulphur geodynamic cycle. . Scientific Reports 5, Article number: 8330 (2015) doi:10.1038/srep08330	Kagoshima,Takanori;Sano,Yuji;Takahata,Naoto;Maruoka,Teruyuki;Fischer,Tobias P.;Hattori,Keiko;	

2015	GEOLOGY	Precambrian Research	Diagenetic xenotime dating to constrain the initial depositional time of the Yan-Liao Rift.. Precambrian Research Volume 271, December 2015, Pages 20–32.	Zhang,Yan-Bin;Li,Qiu-Li;Lan,Zhong-Wu;Wu,Fu-Yuan;Li,Xian-Hua;Yang,Jin-Hui;Zhai,Ming-Guo;	
2015	GEOLOGY	Journal of Geophysical Research: Solid Earth	Comparative compressibility of hydrous wadsleyite and ringwoodite: Effect of H2O and implications for detecting water in the transition zone. . Journal of Geophysical Research: Solid Earth. Volume 120, Issue 12, December 2015, Pages: 8259–8280, 10.1002/2015JB012123	Chang,Yun-Yuan;Jacobsen,Steven D.;Bina, Craig R.;Thomas,Sylvia-Monique;Smyth,Joseph R.;Frost,Daniel J.;Boffa Ballaran, Tiziana;McCammon,Catherine A.;Hauri,Erik H.;Inoue,Toru;Yurimoto,Hisayoshi;Meng,Yue;Dera,Przemyslaw;	
2015	GEOLOGY	Chemical Geology	Carbon and oxygen isotope analysis of hydrate-associated Oligocene authigenic carbonates using NanoSIMS and IRMS,v416, Pages 51–64	Bojanowski,Maciej J.;Baginski,Boguslaw;Guillermier,Christelle;Franchi,Ian A.,	
2015	GEOLOGY	Contributions to Mineralogy and Petrology	NanoSIMS mapping and LA-ICP-MS chemical and U–Th–Pb data in monazite from a xenolith enclosed in andesite (Central Slovakia Volcanic Field). . Contributions to Mineralogy and Petrology December 2015, 170:45 First online: 31 October 2015 DOI 10.1007/s00410-015-1200-1	Didier,Amelie;Bosse,Valerie;Bouloton,Jacky;Mostefaoui,Smail;Viala ,Mickael;Paquette,Jean- Louis;Devidal,Jean-Louis;Duhamel,Remi;	
2016	GEOLOGY	Contributions to Mineralogy and Petrology	The composition of nanogranitoids in migmatites overlying the Ronda peridotites (Betic Cordillera, S Spain): the anatectic history of a polymetamorphic basement CONTRIBUTIONS TO MINERALOGY AND PETROLOGY (2016) 171:24 DOI 10.1007/s00410-016-1230-3	Acosta-Vigil,Antonio;Barich,Amel;Bartoli,Omar;Garrido,Carlos J.;Cesare,Bernardo;Remusat,Laurent;Poli,Stefano;Raepsaet,Caroline;	
2016	GEOLOGY	Geochimica et Cosmochimica Acta	Gold remobilisation and formation of high grade ore shoots driven by dissolution-reprecipitation replacement and Ni substitution into auriferous arsenopyrite. Geochimica et Cosmochimica Acta. Volume 178, 1 April 2016, Pages 143–159.	Fougerouse,Denis;Micklethwaite, Steven;Tomkins,Andrew G.;Mei,Yuan;Kilburn,Matt;Guagliardo,Paul;Fisher,Louise A.;Halfpenny,Angela;Gee,Mary;Paterson,David ;Howard,Daryl L.;	
2016	GEOLOGY	Nature Geoscience	Biological role in the transformation of platinum-group mineral grains	Reith,Frank;Zammit,Carla M.;Shar,Sahar S.;Etschmann,Barbara;Bottrill,Ralph;Southam,Gordon;Ta,Christine;Kilburn, Matt R.;Oberthur,Thomas;Ball,Andrew S.;Brugger,Joel;	10.1038/ngeo2679
2016	GEOLOGY	PLoS One	A Rare Glimpse of Paleoarchean Life: Geobiology of an Exceptionally Preserved Microbial Mat Facies from the 3.4 Ga Strelley Pool Formation, Western Australia. ,2 PLOS one 25 January 2016	Duda,Jan-Peter;VanKranendonk,Martin J.;Thiel,Volker;Ionescu,Danny;Strauss,Harald;Schafer,Nadine;Reitner,Joachim;	10.1371/journal.pone.0147629
2016	GEOLOGY	Chemical Geology	High-precision analysis of multiple sulfur isotopes using NanoSIMS. . Chemical Geology, Volume 420, 20 January 2016, Pages 148–161	Hauri,Erik H.;Papineau,Dominic,Wang,Jianhua;Hillion,Francois;	
2016	GEOLOGY	Contributions to Mineralogy and Petrology	Phosphorus-controlled trace element distribution in zircon revealed by NanoSIMS. Contributions to Mineralogy and Petrology. March 2016, 171:28. DOI 10.1007/s00410-016-1242-z	Yang,Wei;Lin,Yangting ;Hao,Jialong;Zhang,Jianchao;Hu,Sen;Ni,Huaiwei;	
2016	GEOLOGY	Terra Nova	The golden ark: arsenopyrite crystal plasticity and the retention of gold through high strain and metamorphism. . Terra Nova. Volume 28, Issue 3, June 2016, Pages: 181–187 . doi: 10.1111/ter.12206	Fougerouse,Denis;Micklethwaite,Steven;Halfpenny,Angela;Reddy, Steven M.;Cliff,John B.;Martin,Laure A. J.;Kilburn,Matt;Guagliardo,Paul;Ulrich,Stanislav;	
2016	GEOLOGY	Precambrian Research	Carbonaceous microstructures from sedimentary laminated chert within the 3.46 Ga Apex Basalt, Chinaman Creek locality, Pilbara, Western Australia,v278,pp161–178	Hickman-Lewis,Keyron;Garwood,Russell J.;Brasier,Martin D.;Goral,Tomasz;Jiang,Haibo;McLoughlin,Nicola;Wacey,David;	10.1016/j.precamres.2016.03.013
2016	GEOLOGY	Lithos	Highly CO2-supersaturated melts in the Pannonian lithospheric mantle – A transient carbon reservoir? . Lithos. Available online 16 December 2016.	Creon,Laura;Rouchon, Virgile;Youssef,Souhail;Rosenberg,Elisabeth;Delpech,Guillaume;Szabo,Csaba;Remusat,Laurent;Mostefaoui,Smail;Asimow,Paul D.;Antoshechkina, Paula M.;Ghiorso,Mark S.;Boller, Elodie;Guyot,Francois;	
2016	GEOLOGY	Geology	Short magmatic residence times of quartz phenocrysts in Patagonian rhyolites associated with Gondwana breakup. . Geology, vol. 44, num. 1, p. 67-70, 2016.	Seitz,Susanne;Putlitz,Benita;Baumgartner,Lukas P.;Escrig ,Stephane;Meibom,Anders;Bouvier,Anne-Sophie;	
2016	GEOLOGY	Chemical Geology	SIMS and NanoSIMS analyses of well-preserved microfossils imply oxygen-producing photosynthesis in the Mesoproterozoic anoxic ocean Chemical Geology. Volume 441, 21 November 2016, Pages 24–34	Peng,Xiaotong;Guoa,Zixiao;House,Christopher H.;Chen,Shun;Ta,Kaiwen;	
2016	GEOLOGY	Precambrian Research	Tubular microfossils from 2.8 to 2.7 Ga-old lacustrine deposits of South Africa: A sign for early origin of eukaryotes? . Precambrian Research, Volume 286, November 2016, Pages 180-194.	Kazmierczak,Jozef;Kremer,Barbara;Altermann,Wladyslaw;Franchi,Ian;	
2016	GEOLOGY	Lithos	Instantaneous healing of micro-fractures during coseismic slip: Evidence from microstructure and Ti in quartz geochemistry within an exhumed pseudotachylyte-bearing fault in tonalite. . Lithos, Volumes 254–255, June 2016, Pages 84–93. https://doi.org/10.1016/j.lithos.2016.03.011	Bestmann,Michel;Pennacchioni,Giorgio;Mostefaoui,Smail;Goken,Mathias;deWall,Helga;	
2016	GEOLOGY	JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY	NanoSIMS measurements of trace elements at the micron scale interface between zircon and silicate glass, 31, 2399-2409. DOI:	Hao,JiaLong;Yang,Wei;Luo,Yan;Hu,Sen;Yin,Qing-Zhu;Lin,Yang-Ting;	10.1039/C6JA00279J
2016	GEOLOGY	Science China Earth Sciences	NanoSIMS imaging method of zircon U-Pb dating. . Science China Earth Sciences. November 2016, Volume 59, Issue 11, pp 2155–2164.	Hu,Sen;Lin,YangTing;Yang,Wei;Wang,Wei-RZ;Zhang,JianChao;Hao,JiaLong;Xing,WeiFan;	
2016	GEOLOGY	Mineralogy and Petrology	Isotopic fractionation of oxygen and carbon in decomposed lower-mantle inclusions in diamond. . Mineralogy and Petrology. April 2016, Volume 110, Issue 2, pp 379–385. 10.1007/s00710-015-0401-7	Kaminsky,Felix;Matzel,Jennifer E.P.;Jacobsen,Ben;Hutcheon,Ian;Wirth,Richard;	
2016	GEOLOGY	International Journal of Mass Spectrometry	Micro-scale (10μm) analyses of rare earth elements in silicate glass, zircon and apatite with NanoSIMS. International Journal of Mass Spectrometry 406 (2016) 48–54	Zhang,Jianchao;Lin,Yangting;Yang,Wei;Hao,Jialong;Hu,Sen;	
2016	GEOLOGY	Geobiology	A new occurrence of ambient inclusion trails from the ~1900-million-year-old Gunflint Formation, Ontario: nanocharacterization and testing of potential formation mechanisms,v14, Issue 5,pp440–456,	Wacey,David;Saunders,M.;Kong,C.;Kilburn,Matt R.;	
2016	GEOLOGY	Geophysical Research Letters	Intense biological phosphate uptake onto particles in subeuphotic continental margin waters. Geophysical Research Letters. online : 22 MAR 2017, DOI: 10.1002/2016GL072183.	Sokoll,Sarah;Ferdelman,Timothy G.;Holtappels,Moritz;Goldhammer,Tobias.;Littmann,Sten; Hvitfeldt Iversen,Morten;Kuypers,Marcel M.M.;	
2017	GEOLOGY	Nature	Early trace of life from 3.95 Ga sedimentary rocks in Labrador, Canada. . NATURE, vol 549, 2 8 september 2017	Tashiro,Takayuki;Ishida,Akizumi;Hori,Masako;Igisu,Motoko;Koike, Mizuho;Mejean,Pauline;Takahata,Naoto;Sano,Yuji ;Komiya,Tsuyoshi;	10.1038/nature24019
2017	GEOLOGY	Science	Rapid cooling and cold storage in a silicic magma reservoir recorded in individual crystals. . Science 356, 16June 2017	Rubin,Allison E.;Cooper,Kari M.;Till,Christy B.;Kent,Adam J. R.;Costa,Fidel;Bose,Maitrayee;Gravley,Darren;Deering,Chad;Cole, Jim;	10.1126/science.aam8720
2017	GEOLOGY	Environmental Science & Technology Letters	Field Validation of Supercritical CO2 Reactivity with Basalts. Environmental Science & Technology Letters. 2017, 4, 6−10. DOI: 10.1021/acs.estlett.6b00387	McGrail,B. Peter;Schaef,Herbert T.;Spane,Frank A.;Cliff,John B.;Qafoku,Odeta;Horner,Jake A.;Thompson,Christopher J.;Owen,Antoinette T.;Sullivan,Charlotte E.;	10.1021/acs.estlett.6b00387
2017	GEOLOGY	Nature Communications	Heterogeneity in mantle carbon content from CO2-undersaturated basalts Nature communications 13 Jan 2017	Le Voyer,Marion;Kelley,Katherine A.;Cottrell,Elisabeth;Hauri,Erik H.;	
2017	GEOLOGY	Earth and Planetary Science Letters	A sulfur-poor terrestrial core inferred from metal–silicate partitioning experiments,v469 (2017) 84–97	Suer,Terry-Ann;Siebert,Julien;Remusat,Laurent;Menguy,Nicolas;Fiquet,Guillaume;	
2017	GEOLOGY	SCIENCE	Experimental constraints on the damp peridotite solidus and oceanic mantle potential temperature, V355,6328, pp942-945	Sarafian,Emily;Gaetani,Glenn A.;Hauri,Erik H.;Sarafian,Adam R.	
2017	GEOLOGY	Energy Procedia	Wallula Basalt Pilot Demonstration Project: Post-Injection Results and Conclusions, v114,5783-5790	McGrail,B.P.;Schaef,Todd;Spane,Frank A.;Horner,Jake A.;Owen,A. T.;Cliff,John B.;Qafoku,Odeta;Thompson,Charlotte J.;Sullivan,E. C.;	
2017	GEOLOGY	Geochimica et Cosmochimica Acta	Formation of carbonate pipes in the northern Okinawa Trough linked to strong sulfate exhaustion and iron supply. . Geochimica et Cosmochimica Acta. online 20 February 2017.	Peng,Xiaotong;Guo,Zixiao;Chen,Shun;Sun,Zhilei;Xu,Hengchao;Ta,Kaiwen;Zhang,Jianchao;Zhang,Lijuan;Li,Jiwei;Du,Mengran	
2017	GEOLOGY	Chemical Geology	Mass transport and fractionation during monazite alteration by anisotropic replacement.. Chemical Geology, 2017. doi: 10.1016/j.chemgeo.2017.10.008.	Grand'Homme,A.;Janots,E.;Seydoux-Guillaume,A.M.;Guillaume,D.;Magnin, V.;Hovelmann, J.;Hoschen,Carmen;Boiron,M.C.;	
2017	GEOLOGY	Scientific Reports	Hydrogen self-diffusion in single crystal olivine and electrical conductivity of the Earth's mantle	Novella,Davide;Jacobsen,Benjamin;Weber,Peter K.;Tyburczy,James A.;Ryerson,Frederick J.;Du Frane,Wyatt L.;	10.1038/s41598-017-05113-6
2017	GEOLOGY	Earth and Planetary Science Letters	Multi-mode Li diffusion in natural zircons: Evidence for diffusion in the presence of step-function concentration boundaries. . Earth and Planetary Science Letters, Volume 474, 15 September 2017, Pages 110-119,	Tang,Ming;Rudnick,Roberta L.;McDonough,William F.;Bose,Maitrayee;Goreva,Yulia;	10.1016/j.epsl.2017.06.034
2017	GEOLOGY	American Mineralogist	New SIMS reference materials for measuring water in mantle minerals, vol. 102, pp. 537-547.	Kumamoto,Kathryn M.;Warren, Jessica M.;Hauri,Erik H.;	
2017	GEOLOGY	Ore Geology Reviews	Evidence of local sourcing of sulfur and gold in an Archaean sediment-hosted gold deposit, v 89, P909-930.	Selvaraja,Vikraman;Fiorentini,Marco. L.;Savard,Dany D.;LaFlamme,Crystal K.;Guagliardo,Paul;Bui,Thi-Hao;	10.1016/j.oregeorev.2017.07.021
2017	GEOLOGY	Geochimica et Cosmochimica Acta	Dynamics of altered surface layer formation on dissolving silicates	Daval,Damien;Bernard,Sylvain;Remusat,Laurent;Wild,Bastien;Guyot,Francois;Michac, Jean Sebastien;Rieutord,Francois;Magnin, Valerie;Fernandez-Martinez,Alejandro;	10.1016/j.gca.2017.04.010
2017	GEOLOGY	Journal of Metamorphic Geology	Symplectite formation in the presence of a reactive fluid: insights from hydrothermal experiments. Journal of Metamorphic Geology. Volume 35, Issue 3, April 2017, Pages: 281–299. Version of Record online : 7 DEC 2016, DOI: 10.1111/jmg.12231	Spruzeniece,L. ;Piazolo, S. ;Daczko, N. R. ;Kilburn, Matt R.;Putnis,A. ;	
2017	GEOLOGY	Geology	Weekly to monthly time scale of melt inclusion entrapment prior to eruption recorded by phosphorus distribution in olivine from mid-ocean ridges. . Geology, Published: 03 October 2017. Geology (2017) 45 (12): 1059-1062. DOI: https://doi.org/10.1130/G39463.1	Manzini,Melina;Bouvier,Anne-Sophie;Baumgartner,Lukas P.;Muntener,Othmar;Rose-Koga,Estelle F.;Schiano,Pierre;Escrig,Stephane;Meibom,Anders;Shimizu,Nobumichi;	
2017	GEOLOGY	Lithos	The volatile content of mafic-to-intermediate magmas from San Cristóbal volcano, Nicaragua. 2017. Lithos 272–273, 147–163. http://dx.doi.org/10.1016/j.lithos.2016.12.002	Robidoux,Philippe;Aiuppa,Alessandro; Rotolo, Silvio G.;Rizzo, Andrea Luca;Hauri,Erik H.;Frezotti,M.L.;	
2017	GEOLOGY	Tectonophysics	The Triassic reworking of the Yunkai massif (South China): EMP monazite and U-Pb zircon geochronologic evidence, V694, P1-22	Chen,Cheng-Hong;Liu,Yung-Hsin;Lee,Chi-Yu ;Sano,Yuji;Zhou,Han-Wen;Xiang,Hua;Takahata,Naoto;	10.1016/j.tecto.2016.11.022
2017	GEOLOGY	American Mineralogist	The origin of needle-like rutile inclusions in natural gem corundum: a combined EPMA, LA-ICP-MS, and nanoSIMS investigation, v 102 (7) 1451-1461. htts://doi.org/10.2138/am-2017-5965	Palke,Aaron C;Breeding,Christopher M.;	
2017	GEOLOGY	Chemical Geology	The effect of crystal-plastic deformation on isotope and trace element distribution in zircon: Combined BSE, CL, EBSD, FEG-EMPA and NanoSIMS study, V450, P183–198	Kovaleva,Elizaveta;Klotzli,Urs;Habler,Gerlinde;Huet,Benjamin;Guan,Yunbin;Rhede,Dieter;	10.1016/j.chemgeo.2016.12.030
2017	GEOLOGY	Scientific Reports	Dissecting the Re-Os molybdenite geochronometer, v7, 16054	Barra,Fernando;Deditius,Artur;Reich,Martin;Kilburn, Matt R.;Guagliardo,Paul;Roberts,Malcolm P.;	10.1038/s41598-017-16380-8
2017	GEOLOGY	Earth and Planetary Science Letters	Remarkably preserved tephra from the 3430 Ma Strelley Pool Formation, Western Australia: Implications for the interpretation of Precambrian microfossils. . Earth and Planetary Science Letters, Volume 487, 1 April 2018, Pages 33-43 doi.org/10.1016/j.epsl.2018.01.021	Wacey,David,Saunders,Martin;Kong,Charlie;	10.1016/j.epsl.2018.01.021 0012-821

2017	GEOLOGY	Precambrian Research	Cellular taphonomy of well-preserved Gaoyuzhuang microfossils: a window into the preservation of ancient cyanobacteria. Precambrian Research. On-line 16 Nov 2017	Guo,Zixiao;Peng,Xiaotong;Czaja,Andrew D.;Chen,Shun ;Ta,Kaiwen;	
2017	GEOLOGY	Precambrian Research	Prolonged anatexis of Paleoproterozoic metasedimentary basement: First evidence from the Yinchuan Basin and new constraints on the evolution of the Khondalite Belt, North China Craton. . Precambrian Research. Volume 302, November 2017, Pages 74-93.	Wang,Wei-(RZ);Gao,Shanlin;Liu,Xiaochun;Hua,Jianmin;Zhao,Yue;Wei,Chunjing;Xiao,Wenjiao;Guo,Hu;Gong,Wangbin;	
2017	GEOLOGY	Journal of Geophysical Research: Biogeosciences	Hydrothermal nontronite formation associated with microbes from low-temperature diffuse hydrothermal vents at the South Mid-Atlantic Ridge	Ta,Kaiwen;Peng,Xiaotong;Chen,Shun;Xu,Hengchao;Li,Jiwei ;Du,Mengran;Hao, Jialong;Lin,Ying;	10.1002/2017JG003852
2017	GEOLOGY	Geochimica et Cosmochimica Acta	D/H diffusion in serpentine	Pilorge,Helene;Reynard,Bruno;Remusat,Laurent LeFloch,Sylvie;Montagnac,Gilles;Cardon,Herve;	
2017	GEOLOGY	Geochemistry, Geophysics, Geosystems G3	High Pressure Experiments on Metal-Silicate Partitioning of Chlorine in a Magma Ocean: Implications for Terrestrial Chlorine Depletion. . Geochemistry, Geophysics, Geosystems G3. Record online : 14 NOV 2017, DOI: 10.1002/2017GC007159	Kuwahara,Hideharu;Gotou,Hirotada;Shinmei,Toru;Ogawa,Nobuhiro ;Yamaguchi,Asuka;Takahata,Naoto;Sano,Yuji;Yagi,Takehiko;Sugita ,Seiji;	
2017	GEOLOGY	Journal of Volcanology and Geothermal Research	Geochemistry and volatile content of magmas feeding explosive eruptions at Telica volcano (Nicaragua). Journal of Volcanology and Geothermal Research . Volume 341, 15 July 2017, Pages 131-148. doi.org/10.1016/j.jvolgeores.2017.05.007	Robidoux,Philippe;Rotolo,Silvio G.;Aiuppa,Alessandro;Lanzo,Giovanno;Hauri,Erik H.;	
2018	GEOLOGY	Contributions to Mineralogy and Petrology	Pyrite textures and compositions from the Zhuangzi Au deposit, southeastern North China Craton: implication for ore-forming processes,173:73.	Li,Xing-Hui;Fan,Hong-Rui;Yang,Kui-Feng;Hollings,Pete;Liu,Xuan;Hu,Fang-Fang;Cai,Ya-Chun;	10.1007/s00410-018-1501-2
2018	GEOLOGY	Nature	Soft-tissue evidence for homeothermy and crypsis in a Jurassic ichthyosaur	Lindgren,Johan;Sjovall, Peter ;Thiel, Volker ;Zheng, Wenxia ;Ito, Shosuke ;Wakamatsu, Kazumasa ;Haufff, Rolf ;Kear, Benjamin P. ;Engdahl, Anders ;Alwmark, Carl ;Eriksson, Mats E. ;Jarenmark,Martin ;Sachs, Sven ;Ahlberg, Per E.;Marone,Federica;Kuriyama, Takeo;Gustafsson,Ola;Malmberg, Per;Thomen,Aurelien;Rodriguez-Meizoso,Irene;Uvdal, Per;Ojika,Makot;Schweitzer,Mary H.;	10.1038/s41586-018-0775-x
2018	GEOLOGY	Journal of Asian Earth Sciences	The giant Upper Yangtze Pb–Zn province in SW China: Reviews, new advances and a new genetic model, v154, P280-315. DOI:	Zhou,Jia-Xi;Xiang,Zhen-Zhong;Zhou,Mei-Fu;Feng,Yue-Xing;Luo,Kai;Huang,Zhi-Long;Wu,Tao;	10.1016/j.jseaes.2017.12.032
2018	GEOLOGY	Ore Geology Reviews	NanoSIMS element mapping and sulfur isotope analysis of Au-bearing pyrite from Lannigou Carlin-type Au deposit in SW China: New insights into the origin and evolution of Au-bearing fluids,v92,pp29-41,	Yan,Jun;Hu,Ruizhong ;Liu,Shen;Lin,Yangting;Zhang,Jianchao;Fua,Shanling;	10.1016/j.oregeorev.2017.10.015
2018	GEOLOGY	Geochimica et Cosmochimica Acta	Metal remobilization and ore-fluid perturbation during episodic replacement of auriferous pyrite from an epizonal orogenic gold deposit.. Geochimica et Cosmochimica Acta. Available online 3 November 2018. DOI: 10.1016/j.gca.2018.10.031	Wu, Ya-Fei;Evans,Katy;Li,Jian-Wei;Fougerouse,Denis;Large,Ross R.;Guagliardo,Paul;	10.1016/j.gca.2018.10.031
2018	GEOLOGY	Gondwana Research	Ore genesis of the Fule PbZn deposit and its relationship with the Emeishan Large Igneous Province: Evidence from mineralogy, bulk COS and in situ SPb isotopes. . Gondwana Research, Volume 54, February 2018, Pages 161-179.	Zhou,Jia-Xi;Luo,Kai;Wang,Xuan-Ce;Wilde,Simon A.;Wu ,Tao;Huang,Zhi-Long;Cui,Yin-Liang ;Zhao,Jian-Xin;	10.1016/j.gr.2017.11.004
2018	GEOLOGY	Nature Communications	Mineral dissolution and reprecipitation mediated by an amorphous phase,v9, Article number: 1637 (2018). doi.org/10.1038/s41467-018-03944-z	Konrad-Schmolke,Matthias;Halama,Ralf;Wirth,Richard;Thomen,Aurelien;Klitscher,Nico;Morales,Luiz;Schreiber,Anja;Wilke,Franziska D. H.;	
2018	GEOLOGY	Geochimica et Cosmochimica Acta	Rates of dehydration of olivines from San Carlos and Kilauea Iki. . Geochimica et Cosmochimica Acta. Available online 11 September 2018. doi.org/10.1016/j.gca.2018.08.050	Ferriss,Elizabeth;Plank,Terry;Newcombe,Megan;Walker,Dave;Hauri,Erik;	10.1016/j.gca.2018.08.050
2018	GEOLOGY	Ore Geology Reviews	Mineralogy, geochemistry and fluid inclusions of the Qinglong Sb-(Au) deposit, Youjiang basin (Guizhou, SW China). . Ore Geology Reviews. Volume 92, January 2018, Pages 1-18.	Chen,Jun;Yang,Rui-Dong;Du,Li-Juan;Zhen,Lu-Lin;Gao,Jun-Bo;Lai,Chun-Kit;Wei,Huai-Rui;Yuan,Ming-Gang;	
2018	GEOLOGY	Earth and Planetary Science Letters	Timescales between mantle metasomatism and kimberlite ascent indicated by diffusion profiles in garnet crystals from peridotite xenoliths, v481, P143-153	Jollands,Michael C.;Hanger,Brendan J.;Yaxley,Gregory M.;Hermann,Jorg;Kilburn,Matthew R.;	10.1016/j.epsl.2017.10.021
2018	GEOLOGY	Geobiology	Sulfur isotope's signal of nanopyrites enclosed in 2.7 Ga stromatolitic organic remains reveal microbial sulfate reduction. Geobiology. Volume 16, Issue 2, March 2018, Pages: 121–138, Version of Record online : 30 JAN 2018, DOI: 10.1111/gbi.12275	Marin-Carbonne,Johanna;Remusat,Laurent;Sforna,Marie Catherine;Thomazo,Christophe;Cartigny,Patrick;Philippot,Pascal;	10.1111/gbi.12275
2018	GEOLOGY	Journal of Petrology	Shrinkage bubbles: the C-O-H-S magmatic fluid system at San Cristóbal volcano,egy092	Robidoux,Philippe;Frezzotti,Maria Luce;Hauri,Erik H.;Aiuppa,Alessandro;	10.1093/petrology/egy092
2018	GEOLOGY	Reviews in Mineralogy and Geochemistry	Unravelling the Consequences of SO2–Basalt Reactions for Geochemical Fractionation and Mineral Formation, 84 (1), 257-283	Palm,Andrew B.;King,Penelope L.;Renggli,Christian J.;Hervig,Richard L.;Dalby,Kim N.;Herring,Anna;Mernagh,Terrence P.;Eggins,Stephen M.;Troitzsch,Ulrike;Beeching,Levi;Kinsley,Leslie;Guagliardo,Paul	10.2138/rmg.2018.84.7
2018	GEOLOGY	Geoscience Frontiers	The role of aluminium in the preservation of microbial biosignatures. . Geoscience Frontiers xxx (2018) 1-12	Levett,Alan;Gagen,Emma J.;Diao,Hui;Guagliardo,Paul;Rintoul,Llew;Paz,Anat;Vasconcelos, Paulo M.;Southam,Gordon;	
2018	GEOLOGY	Ore Geology Reviews	New constraints on the origin of the Maozu carbonate-hosted epigenetic Zn-Pb deposit in NE Yunnan Province, SW China. . Ore Geology Reviews. Available online 11 August 2018.	Wang,Lin-Jun;Mi,Mei;Zhou,Jia-Xi;Luo,Kai;	10.1016/j.oregeorev.2018.08.012
2018	GEOLOGY	Science Advances	The growth of lithospheric diamonds. . Science Advances 06 Jun 2018: Vol. 4, no. 6, eaat1602. DOI: 10.1126/sciadv.aat1602	Bureau,Helene;Remusat,Laurent;Esteve,Imene;Pinti,Daniele L.;Cartigny,Pierre;	
2018	GEOLOGY	Geochemistry: Exploration, Environment, Analysis	In situ spatial distribution mapping of radionuclides in minerals by nanoSIMS. . Geochemistry: Exploration, Environment, Analysis. https://doi.org/10.1144/geochem2018-038	Rollog,Mark;Cook,Nigel J.;Guagliardo,Paul;Ehrig,Kathy;Kilburn,Matt	10.1144/geochem2018-038
2018	GEOLOGY	Chemical Geology	New method for initial composition determination of crystallized silicate melt inclusions, 483, 162-173	Creon ,Laura;Levresse,Gilles ;Remusat,Laurent;Bureau,Helene;Carrasco-Nunez,Gerard;	10.1016/j.chemgeo.2018.02.038
2018	GEOLOGY	Frontiers in Earth Science. Volcanology	A NanoSIMS Investigation on Timescales Recorded in Volcanic Quartz From the Silicic Chon Aike Province (Patagonia). . Frontiers in Earth Science_24 July 2018. https://doi.org/10.3389/feart.2018.00095	Seitz,Susann;Putlitz,Benita;Baumgartner,Lukas;Meibom,Anders;Escrig,Stephane;Bouvier,Anne-Sophie;	
2018	GEOLOGY	Journal of Geochemical Exploration	Sulfur and lead isotopic variations in the giant Yulong porphyry Cu (MoAu) deposit from the eastern Tibetan Plateau: Implications for origins of S and Pb, and metal precipitation. . Journal of Geochemical Exploration. Available online 29 November 2018. DOI: 10.1016/j.gexplo.2018.11.019	Huang,Ming-Liang;Bi,Xian-Wu;Gao,Jian-Feng;Xu,Lei-Luo;Xiao,Jia-Fei;Liu,Shen-Tai;Wang,Xin-Song;Zhou,Ting;	
2018	GEOLOGY	Geochimica et Cosmochimica Acta	Sequestration of Zn into mixed pyrite-zinc sulfide framboids: A key to Zn cycling in the ocean? . Geochimica et Cosmochimica Acta. Available online 1 September 2018. https://doi.org/10.1016/j.gca.2018.08.039	Hu,Si-Yu;Evans,Katy;Rempel,Kirsten;Guagliardo,Paul;Kilburn, Matt;Craw,Dave;Grice,Kliti;Dick,Jeffrey;	10.1016/j.gca.2018.08.039
2018	GEOLOGY	Precambrian Research	Can NanoSIMS probe quantitatively the geochemical composition of ancient organic-walled microfossils? A case study from the early Neoproterozoic Liulaobei Formation Precambrian Research. Available online 6 March 2018. https://doi.org/10.1016/j.precamres.2018.03.003	Delarue,Frederic;Robert,Francois;Tartese,Romain;Sugitani,Kenichiro;Tang,Qing;Duhamel,Remi;Pont,Sylvain;Xiao,Shuhai;	10.1016/j.precamres.2018.03.003
2018	GEOLOGY	Organic Geochemistry	What is the meaning of hydrogen-to-carbon ratio determined in Archean organic matter? . Organic Geochemistry 122 (2018) 140–146.	Delarue,Frederic;Derenne,Sylvie;Sugitani,Kenichiro;Baudin,Francois;Westall,Frances;Kremer,Barbara;Tartese,Romain;Gonzalez,Adriana;Robert,Francois;	
2018	GEOLOGY	Chemical Geology	Diffusion and solubilities of Rh, Ru and Ir in olivine and spinel, v494, P19-29.	Zhukova,Irina;O'Neill,Hugh;Campbell,Ian H.;Fiorentini,Marco;Kilburn,Matt;Guagliardo,Paul;	10.1016/j.chemgeo.2018.07.009
2018	GEOLOGY	Contributions to Mineralogy and Petrology	An experimental study of SO2 reactions with silicate glasses and supercooled melts in the system anorthite–diopside–albite at high temperature. . Contributions to Mineralogy and Petrology. January 2019, 174:3.	Renggli,Christian;King,Peneloppe L.;Henley, R. W. ;Guagliardo,Paul;McMorrow, L. ;Middleton, J. P. ;Turner,M.;	
2018	GEOLOGY	Geochemical journal	Beryllium-boron relative sensitivity factors for melilitic glasses measured with a NanoSIMS ion microprobe. . Geochemical journal GJ 52(3):255-262. May 2018 DOI: 10.2343/geochemj.2.0510	Fukuda,Kohei;Fujiya,Wataru;Hiyagon,Hajime;Makino,Yoshiki;Sugiura,Naoji;Takahata,Naoto;Hirata Takafumi;Sano,Yuji;	
2018	GEOLOGY	Journal of Asian Earth Sciences	Two kinds of authigenic xenotime overgrowths in response to an Early Paleozoic tectonothermal event in South China. . Journal of Asian Earth Sciences. Available online 11 October 2018. https://doi.org/10.1016/j.jseaes.2018.10.005	Lan,Zhongwu;Li,Xian-Hua ;Sano,Yuji;Takahata,Naoto;Kagoshima,Takanori;Zhang,Shujing;Zhang,Gangyang;Liao,Xin;Tang,Xu;Gu,Lixin;Ma,Qian;	
2018	GEOLOGY	Journal of South American Earth Sciences	Evidence of a shallow magma reservoir below Los Humeros volcanic complex: Insights from the geochemistry of silicate melt inclusions,v88,pp446-458	Creon,Laura;Levresse,Gilles;Carrasco-Nunez,Gerard;Remusat,Laurent ;	10.1016/j.jsames.2018.09.017
2018	GEOLOGY	Geochemical journal	Hydrogen isotope analysis of micro-scale apatite inclusions in Archaean zircon grains,v52, pp457-466	Ishida,Akizumi;Ishida,Akizumi;Koike,Mizuho;Takahata,Naoto;Sano, Yuji;	10.2343/geochemj.2.0534
2019	GEOLOGY	Contributions to Mineralogy and Petrology	Geochemistry of Eocene-Early Oligocene low-temperature crustal melts from Greater Himalayan Sequence (Nepal): a nanogranitoid perspective, 174:82. First Online: 03 October 2019	Bartoli,Omar;Acosta-Vigil,Antonio;Cesare,Bernardo;Remusat,Laurent;Gonzalez-Cano,Adriana;Wälle, Markus;Tajčmanová,Lucie;Langone,Antonio;	10.1007/s00410-019-1622-2
2019	GEOLOGY	Geology	Gold, arsenic, and copper zoning in pyrite: A record of fluid chemistry and growth kinetics	Wu,Ya-Fei;Fougerouse,Denis;Evans,Katy;Reddy,Steven M.;Saxey,David W.;Guagliardo,Paul;Li,Jian-Wei;	10.1130/G46114.1
2019	GEOLOGY	Geology	Nano–porous pyrite and organic matter in 3.5-billion-year-old stromatolites record primordial life	Baumgartner,Raphael J.;Van Kranendonk,Martin J.;Wacey,David;Fiorentini,Marco L.;Saunders,Martin;Caruso,Stefano;Pages,Anais;Homann,Martin;Guagliardo,Paul;	10.1130/G46365.1
2019	GEOLOGY	Journal of Volcanology and Geothermal Research	Magma decompression rate correlates with explosivity at basaltic volcanoes — Constraints from water diffusion in olivine. Journal of Volcanology and Geothermal Research. online 28 August 2019, 106664. doi.org/10.1016/j.jvolgeores.2019.106664	Barth,Anna;Newcombe,Megan;Plank,Terry;Gonnermann,Helge;Hajimirza, Sahand;Sotoc,Gerardo;Saballos,Armando;Hauri,Erik H.;	10.1016/j.jvolgeores.2019.106664
2019	GEOLOGY	Geochimica et Cosmochimica Acta	The formation mechanisms of sedimentary pyrite nodules determined by trace element and sulfur isotope microanalysis,v259, p53-68	Gregory,Daniel;Mukherjee,Indrani ;Olson,Stephanie L.;Large,Ross R.;Danyushevsky,Leonid V.;Stepanov,Aleksandr S.;Avila,Janaina N.;Cliff,John;Ireland,Trevor R.;Raiswell,Robert;Olin, Paul H.;Maslennikov,Valeriy V.;Lyons,Timothy W.;	
2019	GEOLOGY	Contributions to Mineralogy and Petrology	Decadal transition from quiescence to supereruption: petrologic investigation of the Lava Creek Tuff, Yellowstone Caldera, Contributions to Mineralogy and Petrology. April 2019, 174:32	Shamloo,Hannah I.;Till,Christy B.	10.1007/s00410-019-1570-x
2019	GEOLOGY	Geophysical Research Letters	Water concentration in single crystal (Al,Fe) bearing bridgmanite grown from the hydrous melt: implications for dehydration melting at the topmost lower mantle	Fu,Suyu;Yang,Jing;Karato,Shun ichiro;Vasiliev,Alexander ;Presniakov, Mikhail Yu ;Gavriliuk, Alexander G. ;Ivanova, Anna G. ;Hauri, Erik H. ;Okuchi, Takuo ;Purevjav, Narangoo ;Lin,Jung-Fu ;	/10.1029/2019GL084630

2019	GEOLOGY	Sedimentology	Formation, diagenesis and palaeoenvironmental significance of upper Ediacaran fibrous dolomite cements. . Sedimentology. First published: 01 November 2019. doi.org	Hu,Yongjie;Cai,Chunfang;Liu,Dawei;Pederson,Chelsea L.;Jiang,Lei;Shen,Anjiang;Immenhauser,Adrian;	10.1111/sed.12683
2019	GEOLOGY	Ore Geology Reviews	Trace-elements and sulfur isotopic compositions for pyrite across the mineralization zones of a sulfide chimney from the East Pacific Rise (1-2°S). . Ore Geology Reviews. Available online 1 November 2019, 103209. doi.org/10.1016/j.oregeorev.2019.103209	Meng,Xingwei;Li, Xiaohu ;Chu, Fengyou ;Zhu,Jihao;Lei,Jijiang;Li,Zhenggang;Wang,Hao;Chen,Ling;Zhu,Zhimin;	10.1016/j.oregeorev.2019.103209
2019	GEOLOGY	Ore Geology Reviews	Geology and He-Ar-S-Pb Isotope Constraints on the Genesis of the Sidaogou Gold Deposit in Liaodong Peninsula, Northeastern North China Craton. . Ore Geology Reviews. Available online 21 August 2019, 103080. 10.1016/j.oregeorev.2019.103080	Feng,Haoxuan;Shen,Ping;Zhu,Rixiang;Li,Changhao;Ma,Ge;Pan,Hongdi;	10.1016/j.oregeorev.2019.103080
2019	GEOLOGY	Chemical Geology	Hydrothermal metal supplies enhance the benthic methane filter in oceans: An example from the Okinawa Trough. Chemical Geology. Volume 525, 20 October 2019, Pages 190-209. doi.org/10.1016/j.chemgeo.2019.07.025	Sun,Zhilei;Wu, Nengyou ;Cao, Hong ;Xu,Cuiling;Liu,Liping;Yin,Xijie;Zhang,Xianrong;Geng, Wei;Zhang,Xilin;	10.1016/j.chemgeo.2019.07.025
2019	GEOLOGY	Mineralium Deposita	Sulfur isotope and trace element compositions of pyrite determined by NanoSIMS and LA-ICP-MS: new constraints on the genesis of the Shuiyindong Carlin-like gold deposit in SW China.. Mineralium Deposita. First Online: 03 December 2019 . doi: 10.1007/s00126-019-00929-w	Li,Jin-xiang;Hu,Rui-zhong;Zhao,Cheng-hai;Zhu,Jing-jing;Huang,Yong;Gao,Wei;Li,Jin-wei;Zhuo,Yu-zhou;	10.1007/s00126-019-00929-w
2019	GEOLOGY	Ore Geology Reviews	Source of ore-forming fluids of the Yangshan gold field, western Qinling orogen, China: evidences from microthermometry, noble gas isotopes and in situ sulfur isotopes of Au-carrying pyrite. Ore Geology Reviews. Available online 2 January 2019. DOI:10.1016/j.oregeorev.2018.12.029	Liang,Jinlong;Li,Jie;Sun,Weidong;Zhao,Jing;Zhai,Wei;Huang,Yi;Song,Mingchun;Ni,Shijun;Xiang,Qirong;Zhang,Jianchao;Hao,Jialong;Nan, Zhenglu;Li,Jianzhong;	
2019	GEOLOGY	American Mineralogist	REE-, Sr-, Ca-aluminum-phosphate-sulfate minerals of the alunite supergroup and their role as hosts for radionuclides,v104,12, p1806–1819	Owen,Nicholas D.;Cook,Nigel J.;Rollog,Mark;Ehrig,Kathy J.;Schmandt,Danielle S.;Ram,Rahul;Brugger,Joel;Ciobanu,Cristiana L.;Wade,Benjamin;Guagliardo,Paul;	10.2138/am-2019-7116
2019	GEOLOGY	Precambrian Research	Out of rock: a new look at the morphological and geochemical preservation of microfossils from the 3.46 Gyr-old Strelley Pool Formation. . Precambrian Research. Online 21 September 2019, 105472. doi.org/10.1016/j.precamres.2019.105472	Delarue,Frederic;Robert,Francois;Derenne,Sylvie;Tartese,Romain;Jauvion,Clement;Bernard, Sylvain;Pont,Sylvain;Gonzalez-Cano,Adriana;Duhamel,Remi;Sugitani,Kenichiro;	10.1016/j.precamres.2019.105472
2019	GEOLOGY	Scientific Reports	Pb nanospheres in ancient zircon yield model ages for zircon formation and Pb mobilization. . Scientific reports, 9, 13702, 23 Sept 2019	Lyon,Ian C.;Kusiak, Monika A. ;Wirth,Richard ;Whitehouse, Martin J. ;Dunkley,Daniel J. ;Wilde, Simon A. ; Schaumloffel,Dirk ;Malherbe, Julien ;Moore, Katie L. ;	
2019	GEOLOGY	Ore Geology Reviews	Ore genesis of Axi post-collisional epithermal gold deposit, western Tianshan, NW China: constraints from U–Pb dating, Hf isotopes, and pyrite in situ sulfur isotopes. . Ore Geology Reviews (2019), Accepted Date: 14 December 2019. doi: 10.1016/j.oregeorev.2019.103290	Zheng,Jiahao;Shen,Ping;Li,Changhao;	10.1016/j.oregeorev.2019.103290
2019	GEOLOGY	Chemical Geology	Identifying volatile mantle trend with the water–fluorine–cerium systematics of basaltic glass. . Chemical Geology. Available online 14 June 2019.	Shimizu,Kenji;Ito,Motoo;Chang,Qing;Miyazaki,Takashi;Ueki,Kenta;Toyama,Chiaki;Senda,Ryoko;Vaglarov,Bogdan S.;Ishikawa,Tsuyoshi;Kimura,Jun-Ichi;	
2019	GEOLOGY	Ore Geology Reviews	Gold and sulfur sources of the Taipingdong Carlin-type gold deposit: Constraints from simultaneous determination of sulfur isotopes and trace elements in pyrite using nanoscale secondary ion mass spectroscopy. . Ore Geology Reviews. Available online 24 December 2019, 103299. doi: 10.1016/j.oregeorev.2019.103299	Zhao,Jing;Liang,Jinlong;Li,Jie;Huang,Yi;Liu,Xuemin;Zhang,Jianchao;Hao,Jialong;Sunde,Weidong;Li,Jianzhong:Xie,Jieqiao;	10.1016/j.oregeorev.2019.103299
2019	GEOLOGY	Minerals	Detection of Trace Elements/Isotopes in Olympic Dam Copper Concentrates by nanoSIMS. . Minerals 2019, 9(6), 336	Rollog,Mark;Cook,Nigel J.;Guagliardo,Paul;Ehrig,Kathy;Ciobanu;Cristiana L.;Kilburn,Matt	10.3390/min9060336
2019	GEOLOGY	Precambrian Research	Metamorphism of diverse basement gneisses of the Ordos Basin: Record of multistage Paleoproterozoic orogenesis and constraints on the evolution of the western North China Craton . . Precambrian Research. Available online 30 March 2019. https://doi.org/10.1016/j.precamres.2019.03.012	Wang,Wei-(RZ);Zhao,Yue;Liu,Xiaochun;Hu,Jianmin;Wei,Chunjing;Xiao,Wenjiao;Du,Jinxue;Wang,Shilin;Zhan,Liqing;	
2019	GEOLOGY	Acta Geochimica	In-situ sulfur isotope and trace element of pyrite constraints on the formation and evolution of the Nibao Carlin-type gold deposit in SW China. Acta Geochimica, first on-line: 16 April 2019. doi.org/10.1007/s11631-019-00342-0	Li,Jinxiang;Zhao,Chenghai;Huang,Yong;Zhuo,Yuzhou;Li,Jinwei;	10.1007/s11631-019-00342-0
2019	GEOLOGY	Economic Geology	Magmatic-Hydrothermal Gold Mineralization at the Lone Tree Mine, Battle Mountain District, Nevada. . Economic Geology (2019) 114 (5): 811-856. https://doi.org/10.5382/econgeo.4665	Holley,Elizabeth A.;Lowe,Justin A.;Johnson,Craig A.;Pribil,Michael J.;	10.5382/econgeo.4665
2019	GEOLOGY	Ore Geology Reviews	The mineralization process of the Lanuoma Pb-Zn-Sb deposit in the Sanjiang Tethys region: Constraints from in situ sulfur isotopes and trace element compositions. . Ore Geology Reviews. Available online 22 May 2019, 102941 DOI : 10.1016/j.oregeorev.2019.102941	Sheng,Xiangyuan;Bi,Xianwu;Hu,Ruizhong ;Tang,Yongyong;Lan,Qing;Xiao,Jiafei;Tao,Yan;Huang,Mingliang;Peng,Jiantang;Xua,Leiluo;	
2019	GEOLOGY	GSA Bulletin	Generation of Late Cretaceous Ji'an basalts through asthenosphere-slab interaction in South China. . GSA Bulletin (2019) November 01, 2019. doi.org/10.1130/B35196.1	Wu,Yangming;Guo,Feng;Wang,Xuan-Ce;Zhang,Bo;Zhang,Xiaobing;Alemayehu,Melesse;Wang,Guoqing;	
2019	GEOLOGY	Hydrometallurgy	Radionuclide-bearing minerals in Olympic Dam copper concentrates.Hydrometallurgy. online 15 September 2019, 105153. doi.org/10.1016/j.hydromet.2019.105153	Rollog,Mark;Cook,Nigel J.;Guagliardo,Paul;Ehrig,Kathy J.;Kilburn,Matt	10.1016/j.hydromet.2019.105153
2019	GEOLOGY	Journal of Analytical Atomic Spectrometry	Submicron spatial resolution Pb-Pb and U-Pb Dating by NanoSIMS equipped with the new Radio-Frequency Ion Source. . Journal of Analytical Atomic Spectrometry. First published: 22 May 2021	Hao,Jialong;Yang,Wei;Hu,Sen;Li,Ruiying;Ji,Jianglong;Changela,Hitesh;Lin,Yangting;	10.1039/D1JA00085C
2019	GEOLOGY	Gondwana Research	Unravelling the formation histories of placer gold and platinum-group mineral particles from Corrego Bom Successo, Brazil: A window into noble metal cycling,v76,p246-259	Reith,Frank;Nolze,Gert;Saliwan-Neumann,Romeo;Etschmann,Barbara;Kilburn,Matt R.;Brugger,Joel;	10.1016/j.gr.2019.07.003
2019	GEOLOGY	Ore Geology Reviews	In-situ S and Pb isotope constraints on an evolving hydrothermal system, Tianbaoshan Pb-Zn-(Cu) deposit in South China. Ore Geology Reviews. Volume 115, December 2019, 103177. doi.org/10.1016/j.oregeorev.2019.103177	Tan,Shu-Cheng;Zhou,Jia-Xi;Zhou,Mei-Fu ;Ye, Lin;	10.1016/j.oregeorev.2019.103177
2019	GEOLOGY	Resource Geology	Two Stage Sulfide Mineral Assemblages in the Mineralized Ultramafic Rocks of the Laowangzhai Gold Deposit (Yunnan, SW China): Implications for Metallogenic Evolution. . Resource Geology. First published: 03 April 2019, https://doi.org/10.1111/rge.12201	Zhang,Huichao;Chai,Peng;Zhang,Hongrui;Hou,Zengqian;Chen,Shouming;Sun,Yanbin;Peng,Qing;	10.1111/rge.12201
2019	GEOLOGY	Journal of Geophysical Research: Planets	Implications of reactions between SO2 and basaltic glasses for the mineralogy of planetary crusts. Journal of Geophysical Research: Planets. First published: 03 September 2019. doi.org/10.1029/2019JE006045	Renggli,Christian J.;Palm,Andrew B.;King,Penelope L.;Guagliardo,Paul;	
2019	GEOLOGY	Precambrian Research	In-situ U–Pb dating of monazite, xenotime, and zircon from the Lantian black shales: time constraints on provenances, deposition and fluid flow events. Precambrian Research. Available online 6 November 2019. doi.org/10.1016/j.precamres.2019.105528	Liu,Yung-Hsin;Lee,Der-Chuen;You,Chen-Feng;Takahata,Naoto;Iizuka,Yoshiyuki;Sano, Yuji;Zhou,Chuanming;	10.1016/j.precamres.2019.105528
2019	GEOLOGY	Precambrian Research	Sub-micron trace elemental distributions and U-Pb dating of zircon from the oldest rock in the Anshan area, North China Craton. . Precambrian Research . Volume 322, March 2019, Pages 1-17 DOI: 10.1016/j.precamres.2018.12.023	Long,Yi-Jie; Yang,Wei; Lin,Yang-Ting; Yang,Jin-Hui ; Hao,Jia-Long; Zhang,Jian-Chao	10.1016/j.precamres.2018.12.023
2019	GEOLOGY	Journal of the Geological Society	Fossil biomass preserved as graphitic carbon in a late Paleoproterozoic banded iron formation metamorphosed at more than 550°C	Papineau, Dominic;De Gregorio,Bradley T.;Sagar,James;Thorogate,Richard;Wang,Jianhua;Nittler,Larry;Kilcoyne,David A.;Marbach,Hubertus;Drost,Martin;Thornton,Geoff;	10.1144/jgs2018-097
2019	GEOLOGY	Geochemical Transactions	Intermobility of barium, strontium, and lead in chloride and sulfate leach solutions. Geochemical Transactions (2019) 20:4. doi.org/10.1186/s12932-019-0064-0	Rollog,Mark;Cook,Nigel J.;Guagliardo,Paul;Ehrig,Kathy;Gilbert,Sarah E.;Kilburn,Matt	10.1186/s12932-019-0064-0
2019	GEOLOGY	Geological Magazine	Origin of the Fule Pb–Zn deposit, Yunnan Province, SW China: insight from in situ S isotope analysis by NanoSIMS	Li,Zhenli;Ye,Lin;Hu,Yusi;Huang,Zhilong;Wei,Chen;Wu,Tao	10.1017/S0016756819000852
2019	GEOLOGY	Earth and Planetary Science Letters	Evidence for early asteroidal collisions prior to 4.15 Ga from basaltic eucrite phosphate U–Pb chronology. . Earth and Planetary Science Letters. Available online 26 August 2020, 116497. doi.org/10.1016/j.epsl.2020.116497	Koike,Mizuho;Sano,Yuji;Takahata,Naoto;Iizuka,Tsuyoshi;Onode,Haruka;Mikouchi,Takashi;	
2019	GEOLOGY	Geomorphology	Stable isotope evidence for a Paleogene high-altitude setting of the Sikeshu drainage basin in the northern Tianshan, western China. Geomorphology. Available online 1 June 2019. doi.org/10.1016/j.geomorph.2019.05.025	Zhang,Wengao;Chen, Zhengle ;Han,Fengbin ;Zhang, Qing ;Pan,Jiayong;Ma,Ji;Yang,Bin;	10.1016/j.geomorph.2019.05.025
2019	GEOLOGY	Arabian Journal of Geosciences	Paleogeography of South China in the Early Paleozoic: evidence from U–Pb geochronology of detrital monazite. Arabian Journal of Geosciences 13, 544 (2020). https://doi.org/10.1007/s12517-020-05541-1	Yang, Xiong;Pi,Qiaohui;Lu,Di;Yu,Huidong	10.1007/s12517-020-05541-1
2019	GEOLOGY	Geoscience Frontiers	Distribution of selenium and arsenic in differentiated multicellular eukaryotic fossilsand their significance	Long,Jie; Zhang, Shixi ; Luo,Kunli	10.1016/j.gsf.2019.08.005
2019	GEOLOGY	Precambrian Research	NanoSIMS U-Pb dating of fossil-associated apatite crystals from Ediacaran (570 Ma) Doushantuo Formation	Chung,Chuan-Hsing;You,Chen-Feng;Schopf,James William;Takahata,Naoto;Sano,Yuji;	
2020	GEOLOGY	PNAS	The carbon content of Earth and its core. PNAS. first published March 30, 2020 https://doi.org/10.1073/pnas.1919930117	Fischer,Rebecca A.;Cottrell,Elizabeth;Hauri,Erik;Lee,Kanani K. M.;Le Voyer,Marion;	
2020	GEOLOGY	Economic Geology	Aseismic Refinement of Orogenic Gold Systems, 115 (1): 33-50	Voisey,Christopher R.; Willis,David;Tomkins, Andrew G.;Wilson,Christopher J.L.; Micklethwaite,Steven; Salvemini,Filomena;Bougoure,Jeremy J.;Rickard,William D.A.;	10.5382/econgeo.4692
2020	GEOLOGY	Nature Communications	Deep CO2 in the end-Triassic Central Atlantic Magmatic Province, 11:1670 https://doi.org/10.1038/s41467-020-15325-6	Capriolo,Manfredo;Marzoli,Andrea; Aradi,Laszlo E.;Callegaro, Sara;Dal Corso, Jacopo ;Newton, Robert J. ;Mills, Benjamin J.W. ;Wignall, Paul B. ;Bartoli, Omar ;Baker, Don R. ; Youbi,Nasrddine;Remusat, Laurent ;Spiess, Richard ; Szabo,Csaba;	
2020	GEOLOGY	Nature Communications	Cryptic terrestrial fungus-like fossils of the early Ediacaran Period	Gan,Tian;Luo,Taiyi;Pang,Ke;Zhou,Chuanming;Zhou,Guanghong;Wan,Bin;Li,Gang;Yi,Qiru;Czaja,Andrew D.;Xiao, Shuhai;	10.1038/s41467-021-20975-1
2020	GEOLOGY	Geochimica et Cosmochimica Acta	Distribution of trace elements between carbonaceous matter and sulfides in a sediment-hosted orogenic gold system. Geochimica et Cosmochimica Acta. Available online 16 March 2020. doi.org/10.1016/j.gca.2020.03.006	Wu,Ya-Fei;Evans,Katy;Fisher,Louise A.;Zhou,Mei-Fu;Hu,Si-Yu;Fougerouse,Denis;Large,Ross R.;Li,Jian-Wei;	10.1016/j.gca.2020.03.006
2020	GEOLOGY	Ore Geology Reviews	Multiple element mapping and in-situ S isotopes of Au-carrying pyrite of Shuiyindong gold deposit, southwestern China using NanoSIMS: Constraints on Au sources, ore fluids, and mineralization processes. Ore Geology Reviews. Available online 8 May 2020, 103576. https://doi.org/10.1016/j.oregeorev.2020.103576	Liang,Jinlong;Li,Jie;Liu, Xuemin;Zhai,Wei;Huang,Yi;Zhao,Jing;Sun,Weidong;Song,Mingchun;Li,Jianzhong;	10.1016/j.oregeorev.2020.103576

2020	GEOLOGY	Ore Geology Reviews	Two-stage gold deposition in response to H2S loss from a single fluid in theSizhuang deposit (Jiaodong, China). . Ore Geology Reviews, 2020. doi.org/10.1016/j.oregeorev.2020.103450	Hu,Huan-Long;Fan,Hong-Rui;Liu,Xuan;Cai,Ya-Chun;Yang,Kui-Feng;Ma,Wei-Dong;	/10.1016/j.oregeorev.2020.103450
2020	GEOLOGY	American Mineralogist	New insights into the evolution of Mississippi Valley-Type hydrothermal system: A case study of the Wusihe Pb-Zn deposit, South China, using quartz in-situ trace elements and sulfides in situ S-Pb isotopes.. American Mineralogist. vol105, issue 1. Online: 2019-12-30 | DOI: https://doi.org/10.2138/am-2020-7021	Luo,Kai;Zhou,Jia-Xi;Huang,Zhi-Long;Caulfield,John;Zhao,Jian-Xin;Feng,Yue-Xing;Ouyang,Hegen ;	
2020	GEOLOGY	Ore Geology Reviews	New insights into the multi-layer metallogenesis of carbonated-hosted epige netic Pb-Zn deposits: A case study of the Maoping Pb-Zn deposit, South China. . Ore Geology Reviews (2020). doi.org/10.1016/j.oregeorev.2020.103538	Xiang,Zheng-Zhong;Zhou,Jia-Xi;Luo,Kai;	10.1016/j.oregeorev.2020.103538
2020	GEOLOGY	Journal of Metamorphic Geology	Anatectic melt inclusions in ultra high temperature granulites. Journal of Metamorphic Geology. August 2020. DOI: 10.1111/jmg.12567	Gianola,Omar;Bartoli,Omar;Ferri,Fabio;Galli,Andrea;Ferrero,Silvio;Capizzi,Luca S.;Liebske,Christian;Remusat,Laurent;Poli,Stefano;Cesare,Bernardo;	
2020	GEOLOGY	Scientific Reports	Microscopic analyses of weathered granite in ion-adsorption rare earth deposit of Jianxi Province, China. . Scientific Reports volume 10, Article number: 20194 (2020). https://doi.org/10.1038/s41598-020-76981-8	Mukai,Hiroki;Kon,Yoshiaki;Sanematsu,Kenzo;Takahashi,Yoshio;Ito,Motoo;	
2020	GEOLOGY	Journal of Geochemical Exploration	Fluid evolution and gold precipitation in the Muping gold deposit (Jiaodong, China): Insights from in-situ trace elements and sulfur isotope of sulfides. (2020). Journal of Geochemical Exploration, 106617. doi:10.1016/j.gexplo.2020.106617	Zhang,Yong-Wen;Hu,Fang-Fang;Fan,Hong-Rui;Liu,Xuan;Feng,Kai;Cai,Ya-Chun;	10.1016/j.gexplo.2020.106617
2020	GEOLOGY	Earth and Planetary Science Letters	Microbial weathering signatures in lateritic ferruginous duricrusts. . Earth and Planetary Science Letters. Volume 538, 15 May 2020, 116209. doi.org/10.1016/j.epsl.2020.116209	Levett,Alan;Vasconcelos,Paulo M.;Gagen,Emma J.;Rintoul,Llew;Spier,Carlos;Guagliardo,Paul;Southam,Gordon;	
2020	GEOLOGY	Minerals Engineering	Radionuclide distributions in Olympic Dam copper concentrates: The significance of minor hosts, incorporation mechanisms, and the role of mineral surfaces. . Minerals Engineering 148 (2020) 106176. doi.org/10.1016/j.mineng.2019.106176	Rollog,Mark;Cook,Nigel J.;Guagliardo,Paul;Ehrig,Kathy;Kilburn,Matt R.;	10.1016/j.mineng.2019.106176
2020	GEOLOGY	Ore Geology Reviews	Ore-forming processes in the Wang'ershan gold deposit (Jiaodong, China):Insight from microtexture, mineral chemistry and sulfur isotope compositions. Ore Geology Reviews (2020), doi: https://doi.org/10.1016/j.oregeorev.2020.103600	Hu,Huan-Long;Fan,Hong-Rui;Santosh,M.;Liu,Xuan;Cai,Ya-Chun;Yang,Kui-Feng;	10.1016/j.oregeorev.2020.103600
2020	GEOLOGY	Journal of Hazardous Materials	Understanding the mobility and retention of uranium and its daughter products, 124553	Ram,Rahul; Owen,Nicholas D.;Kalnins,Chris;Cook,Nigel J.;Ehrig,Kathy;Etschmann,Barbara;Rollog,Mark;Fu,Weng;Vaughan,James;Pring, Allan;Pownceby,Mark I.;Spooner,Nigel;Shaw,Ruth;Howard,Daryl;Hooker,Anthony M.;Ottaway,David;Questiaux,Danielle;Brugger,Joel;	
2020	GEOLOGY	Chemical Geology	Lithium isotope compositions of U.S. coals andsource rocks: Potential tracer of hydrocarbons. . Chemical Geology. 2020. doi.org/10.1016/j.chemgeo.2020.119694	Teichert,Zebadiah;Bose,Maitrayee;Williams,Lynda B.;	
2020	GEOLOGY	Geochimica et Cosmochimica Acta	Solubility, diffusivity, and O isotope systematics of H2O in rhyolitic glass in hydrothermal temperature experiments. Geochimica et Cosmochimica Acta Available online 17 June 2020. doi.org/10.1016/j.gca.2020.06.009	Hudak,Michael R.;Bindeman,Ilya N.;	10.1016/j.gca.2020.06.009
2020	GEOLOGY	Economic Geology	Analysis of a Telescoped Orogenic Gold System: Insights from the Fosterville Deposit. Economic Geology (2020). October 26, 2020. https://doi.org/10.5382/econgeo.4767	Voisey,Christopher R.;Tomkins,Andrew G.;Xing,Yanlu;	
2020	GEOLOGY	Lithos	Melt inclusions at MT. Edixon (Antarctica): Chemistry, petrology and implications for the evolution of the Lanterman range. Lithos, 105685. (2020). doi:10.1016/j.lithos.2020.105685	Ferri,Fabio;Cesare,Bernardo;Bartoli,Omar;Ferrero,Silvio;Palmeri,Rosaria;Remusat,Laurent;Poli,Stefano;	
2020	GEOLOGY	Scientific Reports	Characterisation of iron oxide encrusted microbial fossils, 10:9889	Levett,Alan;Gagen,Emma J.;Rintoul,Llew;Guagliardo,Paul;Diao,Hui;Vasconcelos,Paulo M.;Southam,Gordon;	10.1038/s41598-020-66830-z
2020	GEOLOGY	Marine and Petroleum Geology	NanoSIMS sulfur isotope studies of pyrite from the Early Paleozoic marine shale: Implications for the sedimentary environment	Zuo,Quanwen;Xu,Yanran;Yu,Bingsong;Zhang,Cong;Zhang,Yifan;Hou,Changhai;Zhang,Linhao;Sun,Mengdi;	10.1016/j.marpetgeo.2020.104802
2020	GEOLOGY	Lithos	Exotic origin of Pingtan Island in the Pingtan-Dongshan Metamorphic Belt (SE China): Zircon UPb age and Hf isotope evidences. . Lithos. Available online 23 July 2020, 105701. https://doi.org/10.1016/j.lithos.2020.105701	Lin,Jian-Wei;Lee,Chi-Yu;Chen,Cheng-Hong;Sano,Yuji;Takahata,Naoto;Chung,Sun-Lin;	10.1016/j.lithos.2020.105701
2020	GEOLOGY	Scientific Reports	High nitrogen solubility in stishovite (SiO2) under lower mantle conditions ,6, 10:10897	Fukuyama,Ko;Kagi,Hiroyuki;Inoue,Toru;Kakizawa,Sho;Shinmei,Toru;Hishita,Shunichi;Takahata,Naoto;Sano,Yuji;	10.1038/s41598-020-67621-2
2020	GEOLOGY	Earth and Planetary Science Letters	Taking the pulse of volcanic eruptions using plagioclase glomerocrysts, v552, 15 December 2020, 116596. doi.org/10.1016/j.epsl.2020.116596	McCarthy,Anders;Chelle-Michou,Cyril;Blundy,Jonathan D.;Von Ianthen,Pierre;Meibom,Anders;Escriq,Stephane;	10.1016/j.epsl.2020.11659
2020	GEOLOGY	Journal of Geophysical Research: Solid Earth	The Role of Blueschist Stored in Shallow Lithosphere in the Generation of Post collisional Orogenic Magmas	Wang,Yu;Foley, Stephen F.	10.1029/2020jb019910
2020	GEOLOGY	Australian Journal of Earth Sciences	In situ S isotope analysis and source tracing of pyrite from lacustrine hydrothermal sedimentary rocks: the Chang 7-3 sub-member, Triassic Yanchang Formation, Ordos Basin	You, J. Y.;Liu , Y. Q. ;Song , S. S. ;Zhou,D. W. ;Yang,Y. Y.;	10.1080/08120099.2021.1828165
2020	GEOLOGY	Minerals	Phosphorus Species in Deep-Sea Carbonate Deposits: Implications for Phosphorus Cycling in Cold Seep Environments. Minerals 2020, 10, 645; Published: 21 July 2020 doi:10.3390/min10070645	Zhou,Junlie;Du,Mengran;Li,Jiwei;Xu,Hengchao;Ta,Kaiwen;Chen,Shun;Peng,Xiaotong;	10.3390/min10070645
2020	GEOLOGY	Journal of Nanoscience and Nanotechnology	Micro-Nanoscale Characteristics of Pyrite and Its Implications for Gold Mineralization: Two Cases of Gold Deposits in the Youjiang Basin and Southwestern Tianshan Mountains,21(1):246-261	Feng,Hongye;Ju,Yiwen;Chen,Bo;Fang,Weixuan;Zhu,Hongjian;Li,Wuyang;Ju,Liting;Qiao,Peng;	10.1166/jnn.2021.18744
2020	GEOLOGY	Chinese Science Bulletin	Discovery of SEDEX gold in the Youjiang basin, SW China: Implications for a new type Au mineralization. (in Chinese). - Chinese Science Bulletin, 2020, 65: 1486–1495	Chen,Jun;Huang,Zhilong;Yang,Ruidong;Du,Lijuan;Su,Wenchao;Zheng,Lulin;Ye,Lin;	10.1360/TB-2019-0837
2020	GEOLOGY	Geochimica et Cosmochimica Acta	Rapid post-mortem oxygen isotope exchange in biogenic silica. . Geochimica et Cosmochimica Acta. Available online 18 June 2020. doi.org/10.1016/j.gca.2020.06.007	Akse,ShaunP. ; Middelburg, Jack J.;King,Helen E.;Polerecky,Lubos	10.1016/j.gca.2020.06.007
2020	GEOLOGY	Ore Geology Reviews	Textural, trace elemental and sulfur isotopic signatures of arsenopyrite and pyrite from the Mandongshan gold deposit (west Junggar, NW China): Implications for the conditions of gold mineralization. Ore Geology Reviews. Available online 30 December 2020, 103938. doi.org/10.1016/j.oregeorev.2020.103938	Zhang,Huichao;Zhu, Yongfeng ;	10.1016/j.oregeorev.2020.103938
2021	GEOLOGY	PNAS	Reconciling early Deccan Traps CO2 outgassing and pre-KPB global climate. 118 (14)	Hernandez Nava, Andres; Black, Benjamin A. ;Gibson, Sally A.; Bodnar, Robert J.; Renne, Paul R. ;Vanderkluysen, Loyc	10.1073/pnas.2007797118
2021	GEOLOGY	Geochimica et Cosmochimica Acta	The effect of fluid-aided modification on the Sm-Nd and Th-Pb geochronology of monazite and bastnäsite: Implication for resolving complex isotopic age data in REE ore systems	Li,Xiao-Chun;Yang,Kui-Feng;Spandler,Carl;Fan,Hong-Rui;Zhou,Mei-Fu;Hao,Jia-Long;Yang,Yue-Heng;	10.1016/j.gca.2021.02.028
2021	GEOLOGY	Geology	Decoupling of Au and As during rapid pyrite crystallization.Geology (2021). March 26, 2021. https://doi.org/10.1130/G48443.1	Wu,Ya-Fei;Evans,Katy;Hu,Si-Yu;Fougerouse,Denis;Zhou,Mei-Fu;Fisher, Louise A.;Guagliardo,Paul;Li,Jian-Wei;	
2021	GEOLOGY	Geology	Revisiting Ediacaran sulfur isotope chemostratigraphy with in situ nanoSIMS analysis of sedimentary pyrite. . Geology (2021). January 26, 2021. https://doi.org/10.1130/G48262.1	Wang,Wei;Hu,Yongliang;Muscente,A. Drew;Cui,Huan;Guan,Chengguo;Hao,Jialong;Zhou,Chuanming;	10.1130/G48262.1
2021	GEOLOGY	American Mineralogist	High pressure, halogen-bearing melt preserved in ultra-high temperature felsic granulites of the Central Maine Terrane, Connecticut (US). American Mineralogist. Published Online: 2020-11-02 https://doi.org/10.2138/am-2021-7690	Ferrero,Silvio;Ague, Jay J.;OBrien, Patrick J.;Wunder,Bernd;Remusat,Laurent;Ziemann,Martin A.;Axler,Jennifer;	
2021	GEOLOGY	Nature Communications	Reconciling metal–silicate partitioning and late accretion in the Earth. Terry-Ann Suer, Julien Siebert, Laurent Remusat, James M. D. Day, Stephan Borensztajn, Beatrice Doisneau & Guillaume Fiquet. Nature Communications volume 12, Article number: 2913 (2021). https://doi.org/10.1038/s41467-021-23137-5	Suer,Terry-Ann;Siebert,Julien;Remusat,Laurent;Day,James M. D.;Borensztajn,Stephan;Doisneau,Beatrice;Fiquet,Guillaume;	10.1038/s41467-021-23137-5
2021	GEOLOGY	Earth and Planetary Science Letters	Diffusion anisotropy of Ti in zircon and implications for Ti-in-zircon thermometry	Bloch,Elias M.;Jollands,Michael C.;Tollan,Pete;Plane, Florent;Bouvier,Anne-Sophie;Hervig,Richard L.;Berry,A.J.;Zaubitzer, C.;Escrig,Stephane.;Muntener,Othmar;Ibanez-Mejia,Mauricio;Alleon,Julien;Meibom,Anders;Baumgartner,Lukas P.;Marin-Carbonne, Johanna; Newville, Matthew;	10.1016/j.epsl.2021.117317
2021	GEOLOGY	Minerals Engineering	The dynamic uptake of lead and its radionuclides by natural and synthetic aluminium-phosphate-sulfates,160 (2021) 106659	Owen,Nicholas D.;Cook,Nigel J.;Ram ,Rahul;Etschmann,Barbara;Ehrig,Kathy;Schmandt,Danielle S.;Rollog,Mark;Guagliardo,Paul;Brugger,Joel;	10.1016/j.mineng.2020.106659
2021	GEOLOGY	Deep-Sea Research Part I	Formation and origin of Fe–Si oxyhydroxide deposits at the ultra-slow spreading Southwest Indian Ridge	Ta,Kaiwen;Wu,Zijun;Peng,Xiaotong;Luan,Zhaofu;Chen,Shun;	10.1016/j.dsr.2021.103491
2021	GEOLOGY	Applied Geochemistry	Long-term retention and chemical fractionation of fissionogenic Cs and Tc in Oklo natural nuclear reactor fuel	Groopman,Evan E.;Nittler,Larry R.;Willingham,David G.;Meshik,Alex P.;Pravdivtseva,Olga V.;	10.1016/j.apgeochem.2021.105047
2021	GEOLOGY	Precambrian Research	Microfossils with tail-like structures in the 3.4 Gyr old Strelley Pool Formation,v358,106187	Delarue,Frederic;Bernard,Sylvain;Sugitani,Kenichiro;Robert,Francois;Tartese,Romain;Albers,Sonja-Verena;Duhamel,Remi ;Pont,Sylvain;Derenne,Sylvie;	10.1016/j.precamres.2021.106187
2021	GEOLOGY	Geochemical Journal	Zircon U-Pb dating of a tuff layer from the Miocene Onnagawa Formation in Northern Japan, , Geochemical Journal, Vol. 55, pp. 185 to 191, 2021 doi:10.2343/geochemj.2.0622	Yoshioka,Jumpei;Kuroda,Junichiro;Takahata,Naoto;Sano,Yuji;Matsuzaki,Kenji M.;Hara,Hidetoshi ;Auer,Gerald;Chiyonobu,Shun;Tada,Ryuji;	
2021	GEOLOGY	Journal of Hazardous Materials	Localised solution environments drive radionuclide fractionation in uraninite. Journal of Hazardous Materials. Available online 21 January 2021, 125192. https://doi.org/10.1016/j.jhazmat.2021.125192	Ram,Rahul;Owen,Nicholas D.;Pownceby,Mark I.;Duan,Gan;Ehrig,Kathy;Etschmann,Barbara;Guagliardo,Paul;Torpy,Aaron;Brugger,Joel;	
2021	GEOLOGY	Results in Geochemistry	Extreme Sulfur Isotope Fractionation of Hydrothermal Auriferous Pyrites from the SW Fringe of the Taupo Volcanic Zone, New Zealand: Implications for Epithermal Gold Exploration	Wang,Lu;Kusky,Timothy;Zhang,Youjun;Lentz,David;Zhong,Yating;Ding,Wenjie;Deng,Hao;Giddens,Roy;Peng,Songbai;	10.1016/j.ringeo.2021.100009
2021	GEOLOGY	Acta Geoscientica Sinica	In-situ Carbon Isotope and Cathodoluminescence Characteristics of High Temperature and High Pressure Synthetic Diamond. Acta Geoscientica Sinica, Volume 41 , Issue 5 : 714-722(2020). https://doi.org/10.3975/cagsb.2020.070604	Zhu,Zhi-yong;Xu,Yao-ming;Zhou,Wei;	
2021	GEOLOGY	Results in Geochemistry	Extreme sulfur isotope fractionation of hydrothermal auriferous pyrites from the SW fringe of the Taupo Volcanic Zone, New Zealand: Implications for epithermal gold exploration	Wang,Lu; Kusky,Timothy;Zhang,Youjun; Lentz,David;Zhong,Yating;Ding,Wenjie;Deng,Hao;Giddens,Roy;Peng,Songbai;	
2021	GEOLOGY	European journal of Mineralogy	On the anomalous shapes of native copper crystals from the Michigan Copper Country. . European journal of Mineralogy. 33, 9–21, 2021. https://doi.org/10.5194/ejm-33-9-2021	Boulliard,Jean-Claude;Aleon,Jerome;Gaillou,Eloise;	
2021	GEOLOGY	preprint	Addressing Molybdenite187 Re Parent- 187 Os Daughter Intra-Crystalline Decoupling In Light of Recent In-Situ Micro-Scale Observations	Zimmerman, Aaron; Yang, Gang; Stein, Holly J., Hannah, Judith L.	10.21203/rs.3.rs-778623/v1

2022	GEOLOGY	Geology	Nanoscale isotopic evidence resolves origins of giant Carlin-type ore deposits	Holley,Elisabeth A.;Fulton,Alexandria;Jilly-Rehak,Christine;Johnson,Craig A.;Pribil,Michael;	10.1130/G49888.1
2022	GEOLOGY	Contributions to Mineralogy and Petrology	Common assumptions and methods yield overestimated diffusive timescales, as exemplified in a Yellowstone post-caldera lava,177,63	Brugman,Kara;Till,Christy B.;Bose,Maitrayee;	10.1093/petrology/egv058
2022	GEOLOGY	Ore Geology Reviews	Recognition of a widespread Paleoproterozoic hydrothermal system in the southern McArthur Basin, northern Australia, by in-situ analysis of fine-grained pyrite and spatially-associated solid bitumen in the Lamont Pass palaeohigh	Li,Shaojie;Wang,Xuan-Ce;Hu,Si-Yu;Guagliardo,Paul;Kilburn,Matt R.;Golding,Suzanne D.;Rodrigues,Sandra;Bourdet,Julien;	
2022	GEOLOGY	Geochimica and Cosmochimica Acta	Experimental determination of N2 solubility in silicate melts and implications for N2–Ar–CO2 fractionation in magmas	Gao,Zenghao;Yang,Ya-Nan;Yang,Shui-Yuan;Lia,Yuan;	10.1016/j.gca.2022.04.001
2022	GEOLOGY	Geochimica and Cosmochimica Acta	Three-dimensional microstructure and mineralogy of a cosmic symplectite in the Acfer 094 carbonaceous chondrite: Implication for its origin	Matsumoto,Megumi;Tsuchiyama,Akira;Miyake,Akira;Ito,Motoo;Matsuno,Junya;Uesugi,Kentaro;Takeuchi,Akihisa;Kodama,Yu;Yasutake,Masahiro;Vaccaro,Epifanio	10.1016/j.gca.2022.02.024
2022	GEOLOGY	Chemical Geology	Rapid alteration of cortical bone in fresh- and seawater solutions visualized and quantified from the millimeter down to the atomic scale, 121060	Kral, Anna G.;Lagos,Markus;Guagliardo,Paul;Tutken,Thomas;Geisler,Thorsten;	10.1016/j.chemgeo.2022.121060
2022	GEOLOGY	Rapid Communications in Mass Spectrometry	NanoSIMS determination of the water content of staurolite	Azevedo-Vannson,Samantha;Remusat,Laurent;Bureau,Helene;Beneut,Keevin;Cesare,Bernardo;Khodja,Hicham;Jimenez-Mejías,María;Roskosz,Mathieu;	10.1002/rcm.9331
2022	GEOLOGY	Ore Geology Reviews	Subseafloor mineralization related to the shallow seawater-hydrothermal circulation system in the Longqi hydrothermal field, Southwest Indian Ridge (49.6°E): Evidence from in situ trace element and sulfur isotope compositions of pyrite varieties	Meng, Xingwei;Jin, Xianglong;Li, Xiaohu;Chu, Fengyou;Zhu, Jihao;Wang,Yejian;Zhou,Peng;	10.1016/j.oregeorev.2022.104914
2022	GEOLOGY	Geochemical Perspectives Letter	Early precipitated micropyrite in microbialites: A time capsule of microbial sulfur cycling	Marin-Carbonne,Johanna;Decraene,Marie-Noelle.;Havas,Robin;Remusat,Laurent;Pasquier,Virgil;Alleon,Julien;Zeyen,Nina;Bouton,Anthony;Bernard,Sylvain;Escrig,Stephane;Olivier,N.;Vennin,Emmanuelle;Meibom,Anders;Benzerara,Karim;Thomazo,Christophe;	10.7185/geochemlet.2209
2022	GEOLOGY	Precambrian Research	Evolutionary diversification of paleoproterozoic prokaryotes: New microfossil records in 1.88 Ga Gunflint Formation	Sasaki, Kohei;Ishida, Akizumi;Takahata, Naoto;Sano, Yuji;Kakegawa, Takeshi	10.1016/j.precamres.2022.106798
2022	GEOLOGY	American mineralogist	Oxygen diffusion in garnet: experimental calibration and implications for timescales of metamorphic processes and retention of primary O isotopic signatures	Scicchitano,Maria Rosa;Jollands,Michael C;Williams,Ian S;Hermann,Jorg;Rubatto,Daniela;Kita,Norito K.; Nachlas,William O.;Valley,John W.;Escrig,Stephane;Meibom,Anders;	
2022	GEOLOGY	preprint	The metal–silicate partitioning of carbon during Earth's accretion and its distribution in the early solar system	Blanchard,Ingrid;Rubie,D.C.;Jennings,E. S.;Franchi,I. A.;Zhao,X.;Petitgirard,S.;Miyajima,N.;Jacobson,S. A.	10.1016/j.epsl.2022.117374
2023	GEOLOGY	Earth-Science Reviews	Rhyacian intermittent large igneous provinces sustained great oxidation event: Evidence from North China craton	Peng, Peng;Liu, Xu;Feng, Lianjun;Zhou, Xiqiang;Kuang, Hongwei;Liu, Yongqing;Kang, Jianli;Wang, Xinping;Wang, Chong;Dai, Ke;Wang, Huichu;Li, Jianrong;Miao,Peisen;Guo, Jinghui;Zhai, Mingguo	10.1016/j.earscirev.2023.104352
2023	GEOLOGY	Earth and Planetary Science Letters	Quantifying the effect of late bombardment on terrestrial zircons	Reimink,Jesse;Crow,Carolyn;Moser,Desmond;Jacobsen,Benjamin;Bauer,Ann;Chacko,Thomas;	10.1016/j.epsl.2023.118007
2023	GEOLOGY	Science	Silica-water superstructure and one-dimensional superionic conduit in Earth's mantle	Li, Junwei;Lin, Yanhao;Meier, Thomas;Liu, Zhipan;Yang, Wei;Mao, Ho-kwang;Zhu, Shengcai;Hu, Qingyang	10.1126/sciadv.adh3784
2023	GEOLOGY	Arabian Journal of Geosciences	NanoSIMS U–Pb dating of hydrothermally altered monazite: constraints on the timing of the Laozhaiwan Carlin-type gold deposit	Luo,PaiLong;Pi,QiaoHui;Lu,ZhiWen;	10.1007/s12517-023-11520-z
2023	GEOLOGY	Diamond and Related Materials	Combination of ERDA, FTIR spectroscopy and NanoSIMS for the characterization of hydrogen incorporation in natural diamonds	Vangu,Divine;Bureau,Helene;Khodja,Hicham;Charrondiere,Matthieu;Esteve,Imene;Beneut,Keevin;Remusat,Laurent;Gaillou,Eloise;Cartigny,Pierre;Bouillard,Jean-Claude;	
2023	GEOLOGY	European Journal of Mineralogy	H2O and Cl in deep crustal melts: the message of melt inclusions in metamorphic rocks	Ferrero,Silvio;Borghini,Alessia;Remusat,Laurent;Nicoli,Gautier;Wunder,Bernd;Braga,Roberto;	10.5194/ejm-35-1031-2023
2023	GEOLOGY	EnvironSciTechnol	Nitrogen-Rich Organic Matter Formation and Stabilization in Iron Ore Tailings: A Submicrometer Investigation	Wu,Songlin;Bougoure,Jeremy J.;Wang,Jiang;Thomsen,Lars;Chan,Ting-Shan;Yi,Qing;Li,Zhen;Siutham,Gordon;Huang,Longbin;	10.1021/acs.est.3c03011
2023	GEOLOGY	Research Square	Substantial water retained early in Earth's deep mantle	Du,Zhixue;Yang,Ya-Nan;Li,Yuan;Lu,Wenhua;	
2024	GEOLOGY	Scientific Reports	Fossil biocalcite remains open to isotopic exchange with seawater for tens of millions of years	Cisneros-Lazaro,Deyanira;Adams,Arthur;Stolarski,Jarosław;Bernard,Sylvain;Daval,Damien;Baronnet,Alain;Grauby,Olivier;Baumgartner,LukasP.;Vennemann,Torsten;Moore,Jo;Baumgartner,Claudia;Olmos,CristinaMartin;Escrig,Stephane;Meibom,Anders;	10.1038/s41598-024-75588-7
2024	GEOLOGY	Economic Geology	Nanoscale Characteristics of Carlin-Type Auriferous Pyrite from the Nadaleen Trend, Yukon	Holley,E.A.;Jilly-Rehak,Christie;Sack,P.;Philips,D.L.;Gopon,P.;	10.5382/econgeo.5107
2024	GEOLOGY	Geochimica et Cosmochimica Acta	Volatile budgets and gold mobilization in metasomatized sub-continental lithospheric mantle	Wang, Yanning;Wang, Qingfei;Groves, David I.;Xue, Shengchao;Wang, Tingyi;Yang, Lin;Deng, Jun;	10.1016/j.gca.2024.05.022
2024	GEOLOGY	Scientific Reports	Ultrahigh-resolution imaging of biogenic phosphorus and molybdenum in palaeoproterozoic gunflint microfossils	Sasaki,Kohei;Ishida,Akizumi ;Kakegawa,Takeshi;Takahata,Naoto;Sano,Yuji ;	10.1038/s41598-024-72191-8
2024	GEOLOGY	Environmental Science and Technology	Dynamic Inhibition of Calcite Dissolution in Flowing Acidic Pb2+ solutions	Abdilla,Bektur;Lee,SangSoo;Fenter,Paul;Sturchio,Neil C.;	
2024	GEOLOGY	Marine and Petroleum Geology	Extreme sulfur isotope heterogeneity in individual Ediacaran pyrite grains revealed by NanoSIMS analysis	Hu, Yongliang;Wang, Wei;Zhao, Xianye;Guan, Chengguo;Zhou, Chuanming;Song, Chenran;Shi, Hongyi;Sun, Yunpeng;Chen, Zhe;Yuan, Xunlai;	10.1016/j.marpetgeo.2024.107201
2024	GEOLOGY	Lithos	Submicron spatial resolution Pbsingle bondPb dating for the formation age of Chang'e-5 basalt	Hao,Jia-Long;Yang,Wei;He,Hui-Cun;Zhang, Di;Hu,Sen ;Tian,Heng-Ci;Li, Rui-Ying; Yang-Tin,Lin;	10.1016/j.lithos.2024.107495
2024	GEOLOGY	Ore Geology Reviews	Metal sources and fluid pathways of karst-hosted Mississippi Valley-type Zn–Pb deposits in the fold-thrust belt: A case study of the Changdong deposit in the southeastern Himalayan-Tibetan orogen	Yue,Longlong;Liu,Yingchao;Song,Yucai;Ma,Wang;Tang,Bolang;	10.1016/j.oregeorev.2023.105850
2024	GEOLOGY	Contributions to Mineralogy and Petrology	Implications for metallogenic evolution of the giant Zhenyuan gold deposit (Yunnan, SW China) from textures and geochemical compositions of pyrite	Zhang, Huichao;Cook,Nigel J.;Zhang,Hongrui;Hou,Zengqian;Chai,Peng;Li,Wei;Gilbert,Sarah;	10.1007/s00410-023-02086-w
2024	GEOLOGY	Ore Geology Reviews	Characteristics and evolution of quartz-calcite-sulfide veins in the Nazca-Ocona belt, Perus	Crespo,Jorge;Holley,Elizabeth;Pfaff,Katharina;Thompson,JenniferA.;Fulton,Anne;Jilly-Rehak,Christie;Huamani,Roberto;Guillen,Madeleine;	10.1016/j.oregeorev.2024.105895
2024	GEOLOGY	Geochimica et Cosmochimica Acta	High CO2 in the mantle source of ocean island basanites	LoForte,FrancescoMaria;Schiavi,Federica;Rose-Koga,EstelleF.;Rotolo,SilvioG.;Verdier-Paoletti,Maximilien;Aiuppa,Alessandro;Zanon,Vittorio;	10.1016/j.gca.2024.01.016
2024	GEOLOGY	Earth and Planetary Science Letters	Crystallization of a hydrous magma ocean in the shallow lower mantle	Xie,Longjian;Walter,Michael;Katsura,Tomoo;Xu,Fang;Wang,Jianhua;;Fei,Yingwei;	
2024	GEOLOGY	Nature	Abiotic synthesis of graphitic carbons in the Eoarchean Saglek-Hebron metasedimentary rocks	Guo, Zixiao; Papineau, Dominic;ONeil,Jonathan;Rizo,Hanika;Chen,Zhong-Qiang;Qiu,Xincheng;She,Zhenbing	10.1038/s41467-024-50134-1
2024	GEOLOGY	Economic Geogy	Trace Element Zonation in Carlin-Type Pyrite: Tracking Ore-Forming Processes at the Nanoscale	Holley,ElisabethA.;Jilly-Rehak,Christie;Fulton, A. A.;Gorman,BrittneyL.;	10.5382/econgeo.5089
2025	GEOLOGY	Nature Communications	Aluminous phyllosilicates promote exceptional nanoscale preservation of biogeochemical heterogeneities in Archaean siliciclastic microbial mats	Hickman-Lewis,Keyron;Cuadros,Javier;Yi, eewook;EunHong,Tae;Byeon,Mirang HyuckJang,Jae;Choi, Min-Yeong ;Seo, YoonKyung ;Najorka, Jens ;Montgomery,Wren;Matlak,Krzysztof;Wolanin,Barbara;Smith,Caroline L.;Cavalazzi,Barbara;	10.1038/s41467-025-57727-4
2025	GEOLOGY	American Mineralogist	The partitioning of H between olivine and melt at low pressures (10 – 200 MPa)	Peterson,LiamD.;Newcombe,Megan E.;Piccoli,PhilipM.;Gion,Austin;Nielsen,SuneG.;Gaetani,GlennA.;Sarafian,AdamR.;Wang,Jianhua;	10.2138/am-2025-9738
2025	GEOLOGY	Nature Communications	High-temperature structural disorders stabilize hydrous aluminosilicates in the mantle transition zone	Wang,Baoyun;Liu,Jin;Zhang,Yanyao;Nie,Baisheng;Yang,Wei;Hao, Jialong;Ding ,Xing;Tian,Yongjun;	10.1038/s41467-025-56312-z
2025	GEOLOGY	Geochimica et Cosmochimica Acta	Incorporation of fluoride in calcite: Insights from solid-state NMR, NanoSIMS, APT, HRSTEM and DFT calculations	Li,Wei;Ren,Chao;Kwon,KideokD.;Feng,Xiaolei;Sha,Gang;Li,Jinhui;Dong,Siliu;Lu,Xiancai;	10.1016/j.gca.2025.05.045
2025	GEOLOGY	Journal of Hazardous Materials	Oxidation state and accumulation of uranium in hydrothermal REE minerals	Bamforth,TobiasG.;Etschmann,Barbara;Brugger,Joel;Xia,Fang;Becker,Udo;Gonzalez-Alvarez,Ignacio;Abdus-Salam,MaryamO.;Guagliardo,Paul;Langendam,Andrew;Wykes,Jeremy;	10.1016/j.jhazmat.2025.140549
2025	GEOLOGY	Chemical Geology	Metal enrichment in the Cambrian black shale: Evidence from pyrite overgrowth and NanoSIMS sulfur isotopes	Li,Shixiang;Wang,Zhilin;Chen,Youwei;Gregory,Daniel D.;Peng,Erke;Xu,Deru ;Wang ,Yufei;Zou,Shaohao;Li,Huan;	
2025	GEOLOGY	Chemical Geology	Characterizing deposition and diagenesis history of post-Marinoan Snowball Earth carbonates from sedimentary pyrites	Liu,Yung-Hsin;Lee,Der-Chuen;Liang,Mao-Chang;Iizuka,Yoshiyuki;Thiemens,MarkH.;Shen,Yanan;Shang,Hsien;	10.1016/j.chemgeo.2025.122764
2025	GEOLOGY	Marine and Petroleum Geology	Deciphering multigenetic origins of pyrite in sedimentary systems: NanoSIMS sulfur isotope contrains from organic-rich shales	He,Kun;Ye,Yuntao;Wang,Xiaomei; Chen,Youwei ; Lei,Quanliang;Yang,Chunlong ;Zhang, Shuichang;	/10.1016/j.marpetgeo.2025.107423
2025	GEOLOGY	Sedimentary Geology	In-situ sulfur isotope characteristic and genesis of sedimentary pyrite with varying crystal morphologies in coal-bearing strata in North China	Liu,Lihui;Wang,Sen;Xu,Zhanjie;Yu,Tianjiao;Esterle,JoanS.;Golding, SuzanneD.;Xi,Yunfei;Liu,Qinfu;	10.1016/j.sedgeo.2024.106805
2025	GEOLOGY	Marine and Petroleum Geology	Extreme sulfur isotope heterogeneity in individual Ediacaran pyrite grains revealed by NanoSIMS analysis	Hu,Yongliang;Wang,Wei;Zhao,Xianye;Guan,Chengguo;Zhou,Chuanming;Song,Chenran;Shi,Hongyi;Sun,Yunpeng;Chen,Zhe;Yuan,Xunlai;	10.1016/j.marpetgeo.2024.107201
2025	GEOLOGY	Geochimica and Cosmochimica Acta	Storage capacity and partitioning of sulfur during silicate melting of the Earth's shallow upper mantle and the evolution of S/Dy during MORB-source melting	Johnson,AnnaC.;Dasgupta,Rajdeep;Chowdhury,Proteek;Bose,Maitrayee;	10.1016/j.gca.2025.06.022
2025	GEOLOGY	Contributions to Mineralogy and Petrology	Cooling rates and melt extraction timescales determined by diffusion chronometry on shallow crustal plutonic rocks	Grocolas,Thomas;Muntener,Othmar;Bloch,EliasM.;Escrig,Stephane;Ulyanov,Alexey;Bouvier,Anne-Sophie;	10.007/s00410-025-02238-0
2025	GEOLOGY	Environmental Science and Technology	Microscale U/Th disequilibrium and Pb isotopic signatures in uranium phosphate minerals as indicators of their origin and fate in a contaminated wetland	Stetten,Lucie;T;Aleon,Jerome;Gourgiotis, Alkiviadis ;Choi, Myounggil ;Mangeret,Arnaud;Blanchart, Pascale;Mostefaoui, Smail ;Verdier-Paoletti, Maximilien;Morin,Guillaume;	10.1021/acs.est.5c01049
2025	GEOLOGY	European Journal of Mineralogy	Vielleaureite-(Ce), a new epidote of the dollaseite group, coexisting with Mn-dominant hellandite in Mn deposits of the central Pyrenees	Ragu,Alain;Bindi,Luca;Bonazzi,Paola;Remusat,Laurent;Chopin,Christian;	10.5194/ejm-37-627-2025
2026	GEOLOGY	Bulletin of Volcanology	Deeper, faster, stronger? Extreme magma ascent rates and explosive eruption metrics at Stromboli volcano (Italy)	Georgeais,Guillaume;Moussallam,Yves;Rose-Koga,EstelleF.;Koga,KennethT.;Gurioli,Lucia;Harris,Andrew;Metrich,Nicole;Bertagnini,Antonella;Verdier-Paoletti,Maximilien;Pistolesi,Marco;	10.1007/s00445-025-01888-z

2026	GEOLOGY	*Philos Trans A Math Phys Eng Sci*	Co-enrichment of Ce and organics in microbe-like structures at the deep-sea ferromanganese crust surface	Ayaka Tokumaru; Mariko Kouduka; Hiroki Suga; Akari Fukuda; Shingo Kato; Yoshio Takahashi; Katsuhiko Suzuki; Akira Usui; Hiroki Mukai; Naotaka Tomioka; Masaki Oura; Motoo Ito; Yohey SuzukiCorresponding Author ORCID logo	10.1098/rsta.2024.0432
2026	GEOLOGY	Ore Geology Reviews	In situ sulfur isotopic and thermodynamic constraints on the magmatic evolution and Metallogenesis of the Jinchuan Ni–Cu sulfide Deposit, China	Wang,Zhenjiang;Wang,Chao;Wang,Yannan;Jn,Zhenmin;	10.1016/j.oregeorev.2025.107038
2026	GEOLOGY	Chemical Geology	Cathodoluminescence is not always a robust proxy for Ti content in quartz	Zhu,Xuelin;Li,Yanq;	10.1016/j.chemgeo.2026.12325
2026	GEOLOGY	Geochimica and Cosmochimica Acta	Microbial activity preserved in 3.4 Ga colloform pyrite: A micro–scale sulfur isotope analyses	Sasaki,Kohei;Takahata,Naoto;Ishida,Akizumi ;Kakegawa,Takeshi;Sugitani,Kenichiro;	10.1016/j.gca.2026.03.005
2026	GEOLOGY	Research Square	Dual-Mineral Protection Mechanism for OrganicMatter Preservation: Implications for MarsHabitability and Biosignature Detection	Lin,Wei;Huang,Tongtong;Shen,Jianxun;Shen,Jianxun;Liu,Li;Hao,Ji alonq;Xi,Jiaxin;	NA
2026	GEOLOGY	Global and Planetary Change	Endolithic bloom linking with volcanic activities and biocrisis at the onset of the Guadalupian–Lopingian (Permian) extinction	Wei,Zhensheng;Huang,Yuangeng;Wignall,PaulB.;Visscher,PieterT .;Fang,Qian;Qiu,Xincheng;Liu,Danna;Zheng,Zijie;Feng,Xueqian;Ch en,Zhong-Qiang;	
2026	GEOLOGY	Communications earth & environment	Stability and distribution of dense hydrous magnesium silicates in the mantle transition zone under low water activity conditions		
2026	GEOLOGY	European Journal of Mineralogy	Hydrogen diffusion in hydrous minerals from Raman and NanoSIMS mapping – implications for isotopic characterization of fluid–rock interactions		
2004	MATERIAL	Applied Surface Science	ToF-SIMS molecular characterization and nano-SIMS imaging of submicron domain formation at the surface of PS/PMMA blend and copolymer thin films	Kailas,Lekshmi;Audinot,Jean-Nicolas;Migeon,Henri-Noel;Bertrand,Patrick;	10.1016/j.apsusc.2004.03.063
2005	MATERIAL	Surface and Interface Analysis	Multitechnique characterization of thin films of immiscible polymer systems: PS-b-PMMA diblock copolymers and PS-PMMA symmetric blends. Surface and Interface Analysis 2005; 37: 435-443.	Kailas,Lekshmi;Nysten,Bernard;Audinot,Jean-Nicolas;Migeon,Henri-Noel;Bertrand,Patrick;	
2005	MATERIAL	Superconductor Science and Technology	Chemical interactions in Ti doped MgB2 superconducting bulk samples and wires, pp 1190-1196	S Haigh, P Kovac, TA Prikhna, Ya M Savchuk;Kilburn,Matt R.; C Salter, J Hutchison and C Grovenor	10.1088/0953-2048/18/9/008
2006	MATERIAL	Journal of American Ceramic society	High-Temperature oxidation of a Cu-Ni based Cermet: kinetic and microstructural study	Rioult,Fabien;Pijolat, Michele;Valdivieso,Francoise;Prin-Lamaze,Marie-Agnes;	
2006	MATERIAL	Applied Surface Science	Study of the carbon distribution in multi-phase steels using the NanoSIMS 50	Valle,Nathalie;Drillet,Josee;Bouaziz,O.;Migeon,H.-N.;	
2006	MATERIAL	Optics Letters	Simultaneous multidopant investigation of rare-earth-doped optical fibers by an ion microprobe	Sidiroglou,Fotios;Huntington, Shane T. ; Roberts,Ann; Stern,Richard;Fletcher, Ian R.;Baxter,Greg W. ;	
2006	MATERIAL	Journal of Physics: Conference Series	NanoSIMS analysis of Ca doping at a grain boundary in a superconducting YBCO Ca-123/123 bicrystal,43,272–276 . 7th European Conference on Applied Superconductivity	Dark,C ;Kilburn,Matt R.;Hammerl,G.;Schneider,C.;Mannhart ,J.;Grovenor,C.R.M.;	
2007	MATERIAL	Journal of Nuclear Materials	High-resolution imaging of complex crack chemistry in reactor steels by NanoSIMS	Lozano-Perez,Sergio;Kilburn,Matt R.;Yamada,T.;Terachi, T. ;English,C.A. ;Grovenor,Chris R.M. ;	
2007	MATERIAL	Metallurgical and Materials Transactions A	NanoSIMS analysis of trace element segregation during the Al-Si eutectic reaction	Simensen,Christian J.;Nielsen,Oyvind;Hillion,Francois;Voje,Jorunn	10.1007/s11661-007-9165-y
2008	MATERIAL	Applied Surface Science	Using NanoSIMS to map trace elements in stainless steels from nuclear reactors	Lozano-Perez,Sergio;Schroeder,M. ;Yamada, T. ;Terachi, T.;English,C.A. ;Grovenor,Chris R.M.;	
2008	MATERIAL	Applied Surface Science	Application of SIMS nano-analysis to the development of new metallurgical solutions,255,1569–1571	Valle,Nathalie;Drillet,Josee;Perlade, A.;Migeon, Henri-Noel;	
2009	MATERIAL	Science	N-Doping of Graphene Through Electrothermal Reactions with Ammonia	Wang,Xinran;Li, Xiaolin ;Zhang,Li ;Yoon,Youngki;Weber,Peter K.;Wang,Hailiang;Guo,Jing;Dai,Hongjie;	10.1126/science.1170335
2009	MATERIAL	Acta Materialia	Multi-scale characterization of stress corrosion cracking of cold-worked stainless steels and the influence of Cr content. . Acta Materialia 57 (2009) 5361–5381.	Lozano-Perez,Sergio;Yamada, Takuyo;Terachi ,Takumi;Schroder,Markus;English,Cindy A.;Smith,George David William;Grovenor,Chris R.M. ;Eyre,B.L. ;	
2009	MATERIAL	Journal of Applied Polymer Science	Structural Changes Evidenced by Rheology in PPgMA Nanocomposites During Oxidative Ageing, V114, 4011–4019	Fordiani,Fabruzio;Aubry, Thierry;Grohens,Yves;	
2011	MATERIAL	The Journal Of Physical Chemistry C	Nuclear Glass Durability: New Insight into Alteration Layer Properties	Gin,Stephane;Guittonneau,Claire;Godon,Nicole ;Neff, Delphine; Rebiscoul,Diane;Cabie,Martiane; Mostefaoui,Smail;	10.1021/jp205477q
2011	MATERIAL	Advanced Energy Materials	Spinel-Layered Core-Shell Cathode Materials for Li-Ion Batteries. (2011), Advanced Energy Materials, 1: 821–828	Cho,Yonghyun;Lee,Sanghan;Lee,Yongseok;Hong,Taeeun;Cho,Jae phil;	10.1002/aenm.201100239
2011	MATERIAL	Journal of The Electrochemical Society	Improved Rate Capability and Thermal Stability of LiNi0.5Co0.2Mn0.3O2 Cathode Materials via Nanoscale SiP2O7 Coating	Lee,Yong-Seok;Ahn,Docheon;Cho,Young-Hyun;Hong,Tae Eun;Cho,Jaephil;	
2011	MATERIAL	Metals and Materials International	Atom Probe Tomography and Nano Secondary Ion Mass Spectroscopy Investigation of the Segregation of Boron at Austenite Grain Boundaries in 0.5 wt.% Carbon Steels	Seol,Jae Bok;Lim,Namsuk;Lee,B.H.;Renaud,Ludovic;Park,C.G.;	
2011	MATERIAL	Physica Scripta	Sub-surface structures of ITER-grade W (Japan) and re-crystallized W after ITER-similar low-energy and high-flux D plasma loadings,v2011,T145	Lindig, S.;Balden,M.; Alimov,V Kh ;Manhard, A ;Hoschen,Carmen ;Hoschen,Till;Tyburska-Puschel,Beata;Roth,J.;	10.1088/0031-8949/2011/T145/014039
2011	MATERIAL	Surface and Interface Analysis	Nano-SIMS investigation of boron distribution in steels. . Surf. Interface Anal. 2011, 43, 573–575.	Valle,Nathalie;Drillet,Josee; Picc,A. ; Migeon,Henri-Noel;	
2011	MATERIAL	International Journal of Cast Metals Research	Microstructure of as cast reinforced ductile iron,v24,2	Martinez Celis,Mayerling;Valle,Nathalie;Lacaze,Jacques;Thorbjornsson,Ingol fur O.;Johannesson,Birgir;Thorgrimsson,JonThor;	
2011	MATERIAL	Key Engineering Materials	Wear property of Ductile Iron Locally Reinforced with Cr-Containing Steel Inserts. . Key Engineering Materials Vol. 457 (2011) pp 441-446.	Martinez Celis,Mayerling;Valle,Nathalie ;Lacaze,Jacques ;Thorbjornsson, Ingolfur O. ;Johannesson,Birgir ;Thorgrimsson, JonThor ;Podgornik, Bojan;Vizintin,Joze;	
2012	MATERIAL	Acta Materialia	How the crystallography and nanoscale chemistry of the metal/oxide interface develops during the aqueous oxidation of zirconium cladding alloys, v60,p7132–7149	Ni,Na ;Hudson,Daniel;Wei,J.;Wang,P.;Lozano-Perez,Sergio;Smith,George D.W.;Sykes,John M.;Yardley, Sean S.;Moore,Katie L.;Lyon,S.;Cottis,R.;Preuss,M.;Grovenor,Chris R.M.;	
2012	MATERIAL	Metallurgical and Materials Transactions A	Segregation of B, P, and C in the Ni-Based Superalloy, Inconel 718	Talukder,Alam;Felfer,Peter J.;Chaturvedi,Mahesh;Stephenson,Leigh T.;Kilburn,Matt R.;Cairney,Julie M.;	
2012	MATERIAL	Optical Materials Express	Composition of nanoparticles in optical fibers by Secondary Ion Mass Spectrometry	Blanc,Wilfried;Guillermier,Christelle;Dussardier,Bernard;	
2012	MATERIAL	Journal of Applied Electrochemistry	Nano SIMS characterization of boron- and aluminum-coated LiNi1/3Co1/3Mn1/3O2 cathode materials for lithium secondary ion batteries	Hong,Tae Eun;Jeong,E. D.;Baek,S. R.;Byeon,M. R.;Lee,Young-Suck;Nawaz Khan,F.;Yang,Ho-Soon;	10.1007/s10800-011-0369-x
2012	MATERIAL	METALLURGICAL AND MATERIALS TRANSACTIONS A	Nanometric Scale Investigation of Phase Transformations in Advanced Steels for Automotive Application	Drillet,Josee;Valle,Nathalie;Iung,Thierry;	10.1007/s11661-012-1218-1
2012	MATERIAL	Surface and Interface Analysis	Quantification of grain boundary equilibrium segregation by NanoSIMS analysis of bulk samples.Surf. Interface Anal. 2012, 44, 377–387	Christien,Frederic;Downing,Clive;Moore,Katie L.;Grovenor,Chris R. M.;	
2012	MATERIAL	MRS Proceedings	Mechanisms of Oxidation of Fuel Cladding Alloys Revealed by High Resolution APT, TEM and SIMS Analysis, v1383	Grovenor,Chris R. M. ;Ni,Na;Hudson, Daniel ;Yardley, Sean S. ;Moore, Katie L. ;Smith,George D. W. ;Lozano-Perez,Sergio;Sykes,John M.;	
2013	MATERIAL	Acta Materialia	Intergranular crack tip oxidation in a Ni-base superalloy,V61,Issue 10, pp 3630-3639.	Viskari,Leif;Hornqvist Colliander,Magnus;Moore, Katie L.; Cao,Yu;Stiller, Krystyna;	
2013	MATERIAL	Nature Communications	Codoping titanium dioxide nanowires with tungsten and carbon for enhanced photoelectrochemical performance	Cho,Sun;Lee, Chi Hwan ;Feng, Yunzhe ;Logar, Manca ;Rao,Pratap M. ;Cai, Lili ;Kim, Dong Rip ;Sinclair, Robert ;Zheng, Xiaolin;	10.1038/ncomms2729
2013	MATERIAL	Microscopy and Microanalysis	Multi-Scale Correlative Microscopy Investigation of Both Structure and Chemistry of Deformation Twin Bundles in Fe–Mn–C Steel	Marceau,Ross K.W.;Gutierrez-Urrutia,Ivan;Herbig,Michael;Moore,Katie L.;Lozano-Perez,Sergio;Raabe,Dierk;	10.1017/S1431927613013494
2013	MATERIAL	Corrosion Science	NanoSIMS investigation of passive oxide films on high-Cr cast iron	Salasi,M.;Stachowiak,G.B.;Stachowiak,G.W.;Kilburn,M.R.;	10.1016/j.corsci.2012.11.003
2013	MATERIAL	Microscopy and Microanalysis	Examinations of Oxidation and Sulfidation of Grain Boundaries in Alloy 600 Exposed to Simulated Pressurized Water Reactor Primary Water, 19, 676–687, 2013	Schreiber,D.K.; Olszta,Matthew J. ; Saxey,David W.;Kruska, Karen;Moore, Katie L.;Lozano-Perez,Sergi;Bruemmer,S.M.;	
2013	MATERIAL	Journal of Nuclear Materials	An investigation of the oxidation behaviour of zirconium alloys using isotopic tracers and high resolution SIMS, 443, 436–443	Yardley,Sean S.;Moore, Katie L.;Ni, Na;Wei,Jang Fei;Lyon,Stuart;Preuss,Michael;Lozano-Perez, Sergio;Grovenor,Chris R.M.;	10.1016/j.jnucmat.2013.07.053
2013	MATERIAL	Ultramicroscopy	Combined NanoSIMS/AFM/EBSD analysis and atom probe tomography, of carbon distribution in austenite/ε-martensite high-Mn steels, v132, p248–257	Seol,Jae-Bok;Lee, B.H ;Choi,P. ;Lee, S.G. ;Park,C.G.;	
2013	MATERIAL	ISIJ International	Distribution of Carbon in Martensite During Quenching and Tempering of Dual Phase Steels and Consequences for Damage Properties	Pushkareva,Irina;Scott,Colin Philip;Goune,Mohamed;Valle,Nathalie;Redjaimia,Abdelkrim;Moulin, Antoine;	
2013	MATERIAL	Applied Surface Science	Interaction of micro-discharges in heptane with metallic multi-layers. Applied Surface Science 274 (2013) 378– 391	Hamdan,Ahmad;Audinot,Jean-Nicolas;Noel, Cedric;Kosior,Francis;Henrion,Gerard;Belmonte,Thierry;	
2013	MATERIAL	Advances in Materials Science and Engineering	Redistribution and Effect of Various Elements on the Morphology of Primary Graphite in Cast Iron. Advances in Materials Science and Engineering. Volume 2013, Article ID 638451, 9 pagesPublishing Corporation	Lacaze,Jacques;Valle,Nathalie;Theuwissen,Koenraad;Sertucha, Jon;El Adib,Brahime;Laffont,Lydia;	
2013	MATERIAL	Surface and Interface Analysis	Quantitative grain boundary analysis of bulk samples by SIMS Surf Interface Anal. 2013, 45, 305–308	Christien,Frederic;Downing,Clive;Moore,Katie L.;Grovenor,Chris R. M.;	
2013	MATERIAL	Surface and Interface Analysis	A SIMS and TEM investigation of the microstructure of wear-resistant ductile cast iron, 45, 441–444	Valle,Nathalie;Martinez Celis,Mayerling;Lacaze, Jacques;Thorbjornsson, Ingolfur O.;Johannesson , Birgir;Thorgrimsson,JonThor ;	10.1002/sia.5119
2014	MATERIAL	Langmuir	Formation of nanosized islands of dialkyl β-ketoester bonds for efficient hydrophobization of a cellulose film surface	Yang,Quanling;Takeuchi,Miyuki;Saito,Tsuguyuki;Isogai,Akira;	10.1021/la501706t
2014	MATERIAL	Journal of Nuclear Materials	Cold crucible induction melter studies for making glass ceramic waste forms: A feasibility assessment	Crum, Jarrod;Maio, Vince;McCloy, John;Scott, Clark;Riley, Brian;Benefiel, Brad;Vienna, John;Archibald, Kip;Rodriguez, Carmen;Rutledge, Veronica;Zhu, Zihua;Ryan, Joe;Olszta, Matthew;	
2014	MATERIAL	Nano Letter	Mitigating Voltage Fade in Cathode Materials by Improving the Atomic Level Uniformity of Elemental Distribution, 14 (5), pp2628–2635	Zheng,Jianming; Gu, Meng; Genc, Arda; Xiao, Jie; Xu, Pinghong; Chen,Xilin; Zhu,Zihua; Zhao,Wenbo ; Pullan,Lee ; Wang,Chongmin; Zhang, Ji-Guang;	10.1021/nl500486y
2014	MATERIAL	Materials Science & Engineering A	High-temperature crack growth in a Ni-base superalloy during sustained load	Hornqvist,Magnus;Viskari,Leif;Moore,Katie L.;Stiller,Krystyna;	
2014	MATERIAL	Surface and Interface Analysis	NanoSIMS imaging alteration layers of a leached SON68 glass via a FIB-made wedged crater, V46, S1, p233–237	Wang,Yi-Chung;Schreiber,Daniel K.;Neeway, James J. ;Thevuthasan,Suntharampillai;Evans,James E. ;Ryan,Joseph V. ;Zhu, Zihua ;Wei,Wei David ;	
2015	MATERIAL	Geochimica et Cosmochimica Acta	The mechanism of borosilicate glass corrosion revisited	Geisler,Thorsten;Nagel,Thorsten;Kilburn, Matt R. ;Janssen,Arne;Icenhower,Jonathan P. ;Fonseca ,Raul O.C.;Grange, Marion;Nemchin,Alexander A.;	10.1016/j.gca.2015.02.039

2015	MATERIAL	Industrial Crops and Products	New nanocomposite design from zeolite and poly(lactic acid)	Bendahou,Dounia;Bendahou,Abdelkader;Grohens,Yves;Kaddami, Hamid;	10.1016/j.indcrop.2014.12.055
2015	MATERIAL	Ceramics International	Effect of oxygen pressure on the p-type conductivity of Ga, P co-doped ZnO thin film grown by pulsed laser deposition	Noh,Woo-Seok;Lee, Jung-A ;Lee, Joon-Hyung ;Heo,Young-Woo ;Kim, Jeong-Joo;	
2015	MATERIAL	Journal of The Electrochemical Society	A Fundamental Study of Boron Deposition and Poisoning of La0.8Sr0.2MnO3 Cathode of Solid Oxide Fuel Cells under Accelerated Conditions Fuel Cells, Electrolyzers, and Energy Conversion	Chen,Kongfa;Liu,Shu-Sheng;Guagliardo,Paul;Kilburn,Matt R.;Koyama,Michihisa;Jiang,San Ping	10.1149/2.0141512jes
2015	MATERIAL	Crystal Growth & Design	Microscopic and Isotope Tracer Study on the Growth of Spherical ZnO Particles in Water–Ethylene Glycol Solvent. . Crystal Growth & Design, 2015, 15 (6), pp 2609–2619	Saito,Noriko;Matsumoto,Kenji;Watanabe,Ken;Hashiguchi,Minako;Sakaguchi,Isao;Haneda,Hajime;	
2015	MATERIAL	Journal of Nuclear Materials	Evaluation of the effect of B and N on the microstructure of 9Cre2W steel during an aging treatment for SFR fuel cladding tubes,467	Jeong,Eun Hee;Park,Sang-Gyu;Kim,Sung Ho;Kim,Young Do;	
2015	MATERIAL	Journal of Alloys and Compounds	Hydrogen accumulation in and at the perimeter of U–C–N–O inclusions in uranium – A SIMS analysis, 645, S225–S229	Siekhaus,W.J.;Weber,Peter K.; Hutcheon,Ian D.; Matzel,Jennifer E.P. ;McLean, W. ;	10.1016/j.jallcom.2015.01.050
2016	MATERIAL	Materials Letters	Investigation of oxygen diffusion behavior in terbium using 18O2 isotopic tracking by high resolution SIMS,v176, p253–256	Li,Guoling;Li,Li;Hao,Jialong;Zheng,Jie;Tian,Wenhuai;Li,Xingguo;	
2016	MATERIAL	ACS applied materials & interfaces	Poly (3-hexylthiophene-2, 5-diyl) as a Hole Transport Layer for Colloidal Quantum Dot Solar Cells, 8(19), 2016. pp.12101-12108.	Neo,Darren C.J.; Zhang,Nanlin;Tazawa,Yujiro;Jiang,Haigo;Hughes,Gareth M.;Grovenor,Chris R.M.;Assender,Hazel E.;Watt,Andrew A.;	
2016	MATERIAL	Acta Materialia	Multi-scale and spatially resolved hydrogen mapping in a Ni–Nb model alloy reveals the role of the δ phase in hydrogen embrittlement of alloy 718, V 109,Pages 69–81.	Tarzimoghadam,Zahra;Rohwerder,Michael;Merzlikin,Sergiy V.;Bashir,Asif;Yedra,Lluis;Eswara,Santhana;Ponge,Dirk; Raabe,Dierk;	
2016	MATERIAL	Nature Materials	Polyvinylpyrrolidone-induced anisotropic growth of gold nanoprisms in plasmon-driven synthesis,v15	Zhai,Yueming;DuChene,Joseph S. ;Wang,Yi-Chung;Qiu, Jingjing ;Johnston-Peck,Aaron C.;You, Bo ;Guo,Wenxiao ; DiCiaccio,Benedetto ;Qian, Kun ;Zhao, Evan W.;Ooi,Frances ;Hu, Dehong ;Su,Dong ;Stach,Eric A.;Zhu, Zihua ;Wei,Wei David;	10.1038/nmat4683
2016	MATERIAL	Acta Materialia	On the effect of boron on grain boundary character in a new polycrystalline superalloy. Acta Materialia, Volume 103, 15 January 2016, Pages 688-699.	Kontis,Paraskevas ;Mohd Yusof,Hanis Ayuni; Pedrazzini,Stella;Danaie,Mohsen;Moore,Katie L.;Bagot,Paul A.J.;Moody,Michael P.; Grovenor,Chris R.M.;Reed,Roger C.;	
2016	MATERIAL	Electrochimica Acta	Synergistic effects of coating and doping for lithium ion battery cathode materials: synthesis and characterization of lithium titanate-coated LiCoO2 with Mg doping	Shim,Jae-Hyun;Lee,Jaehan;Han,Sang Yun;Lee,Sanghun;	
2016	MATERIAL	Acta Materialia	Soft novel form of white-etching matter and ductile failure of carbide-free bainitic steels under rolling contact stresses, V 121, Pages 215–226.	Solano-Alvarez,Wilberth;Pickering,Ed J.;Peet,Mathew James;Moore,Katie L.;Jaiswal,Jay;Bevan,Adam;Bhadeshia,H.K.D.H.;	
2016	MATERIAL	Metallurgical and Materials Transactions A	Mechanism of Austenite Formation from Spheroidized Microstructure in an Intermediate Fe-0.1C-3.5Mn Steel. . Metallurgical and Materials Transactions A. July 2016, Volume 47, Issue 7, pp 3375–3386	Lai,Qingquan;Goune,Mohamed ;Perlade,Astrid;Pardoen,Thomas;Jacques,Pascal;Bouaziz,Olivier;Brechet,Yves;	
2016	MATERIAL	Materials & Design	Migration of sulphur in thermal barrier coatings during heat treatment	Bai,Mingwen;Jiang,Haibo ;Chen, Ying ;Chen, Yiqiang ;Grovenor, Chris;Zhao,Xiaofeng;Xiao,Ping;	
2016	MATERIAL	Solid State Ionics	Electrochemical performance of an all-solid-state lithium-oxygen battery under humified oxygen	Suzuki,Yosuke;Wanatabe,Ken;Sakuma,S.;Imanishi,N.;	
2016	MATERIAL	Surface and Interface analysis	Nanoscale imaging of Li and B in nuclear waste glass, a comparison of ToF-SIMS, NanoSIMS, and APT	Wang,Zhaoying;Liu,Jia ;Zhou, Yufan ;Neeway, James J. ;Schreiber, Daniel K. ;Crum,Jarrod V. ;Ryan, Joseph V. ;Wang,Xue-Lin ;Wang,Fuyi ;Zhu,Zihua;	
2016	MATERIAL	Materials Science and Engineering: A	Effect of oxygen and nitrogen on microstructure and mechanical properties of vanadium.. Materials Science and Engineering: A. Volume 675, 15 October 2016, Pages 92–98.	Jo,Min-Gu;Madakashira,Phaniraj P.;Suh,Jin-Yu;Han,Heung Nam ;	
2016	MATERIAL	Journal of Crystal Growth	Measurement of 3-dimensional dopant distribution in InGaAs microdiscs grown selectively on Si (111) 464 15April2017	Watanabe,Tohma;Takeuchi, Miyuki ;Nakano, Yoshiaki ;Sugiyama,Masakazu;	
2017	MATERIAL	Nature Energy	A half-wave rectified alternating current electrochemical method for uranium extraction from seawater. Nature Energy 2, Article number: 17007 (2017)	Liu,Chong;Hsu,Po-Chun;Xie,Jin;Zhao,Jie ;Wu,Tong;Wang,Haotian;Liu, Wei;Zhang,Jinsong;Chu,Steven;Cui,Yi;	
2017	MATERIAL	Acta Materialia	Environmentally-assisted grain boundary attack as a mechanism of embrittlement in a nickel-based superalloy. . Acta Materialia 126 (2017)	Nemeth,Andre A.N.; Crudden,David J.;Armstrong,David E.J. ; Collins,David M. ; Li,Kexue; Wilkinson,Angue J.; Grovenor,Chris R.M.; Reed,R.C. ;	
2017	MATERIAL	NPG Asia Materials	Forced electrostriction by constraining polarization switching enhances the electromechanical strain properties of incipient piezoceramics.	Ahn,Chang Won;Choi, Gangho ;Kim, Ill Won ;Lee, Jae-Shin ;Wang, Ke ;Hwang,Younghun ;Jo,Wook;	10.1038/am.2016.210
2017	MATERIAL	Geochimica et Cosmochimica Acta	Deposition of vaporized species onto glassy fallout from a near-surface nuclear test	Weisz,David G.;Jacobsen,Benjamin;Marks,Naomi E.;Knight,Kim B.;Isselhardt,Brett H.;Matzel,Jennifer E.P.;Weber,Peter K.;Prussina,Stan G.;Hutcheon,Ian D.;	
2017	MATERIAL	Solar Energy Materials & Solar Cells	Direct imaging of dopant distributions across the Si-metallization interfaces in solar cells: Correlative nano-analytics by electron microscopy and NanoSIMS, v160	Kumar,Praveen;Pfeffer, Michael ;Willsch, Benjamin ;Eibl, Oliver ;Yedra, Lluis;Eswara,Santhana;Audinot,Jean-Nicolas ;Wirtz,Tom;	
2017	MATERIAL	Materials Horizon	Visualising compositional heterogeneity during the scale up of multicomponent zeolite bodies	Martin, Antonio J.;Mitchell,Sharon;Kunze, Karsten;Weston,K.C.;Perez-Ramirez,Javier;	10.1039/C7MH00088J
2017	MATERIAL	Journal of Power Sources	Microstructure-scaled active sites imaging of a solid oxide fuel cell composite cathode. v367, p57-62.	Nagasawa,Tsuyoshi;Hanamura,Katsunori;	
2017	MATERIAL	ACS applied materials & interfaces	Direct Imaging of Dopant Distribution in Polycrystalline ZnO Films. ACS applied materials & interfaces, Publication Date (Web): February 2, 2017. DOI: 10.1021/acsami.6b14350	Lorenzo,Fanni;Aebersold,A.Brian;Morales-Masis,Monica;Ledinsky,Martin;Escrig,Stephane;Vetushka,Aliaksei; Alexander,DuncanT.L.;Hessler-Wyser, Aicha;Fejfar,Antonin;Hebert,Cecile;Nicolay,Sylvain;Ballif,Christophe;	
2017	MATERIAL	Scripta Materialia	Abnormal relationship between Ms temperature and prior austenite grain size in Al-alloyed steels. . Scripta Materialia. Volume 134, June 2017, Pages 11-14. http://dx.doi.org/10.1016/j.scriptamat.2017.03.004	Zhu,Kangying;Magar, Coralie ;Huang,M.X. ;	
2017	MATERIAL	Procedia Earth and Planetary Science	Water Transport within Ancient Stained Glass Alteration Layer using Oxygen Isotopes, v17, p814–817. 15th Water-Rock Interaction International Symposium, WRI-15 .	Sessegolo,Loryelle;Verney-Carron,Aurelie;Saheb,Mandana;Remusat, Laurent;Gonzalez-Cano,Adriana;Loisel,Claudine;Chabas,Anne;	
2018	MATERIAL	Nature Materials	Interplay of water and reactive elements in oxidation of alumina-forming alloys	Mortazavi,Anna;Geers,Christine;Esmaily,Mohsen;Babic,Vedad;Sattari,Mohammad;Lindgren,Kristina; Malmberg,Per;Jonsson,Bo; Halvarsson,Mats;Svensson,Jan-Erik;Panas,Itai;Johansson,Lars-Gunnar;	10.1038/s41563-018-0105-6
2018	MATERIAL	Corrosion Science	On the role of precipitates in hydrogen trapping and hydrogen embrittlement of a nickel-based superalloy. . Corrosion Science. Volume 146, January 2019, Pages 58-69. https://doi.org/10.1016/j.corsci.2018.10.019	Zhang,Zhenbo;Moore,Katie L.;McMahon,Greg;Morana,Roberto;Preuss,Michael;	
2018	MATERIAL	npj Materials Degradation	Towards a unifying mechanistic model for silicate glass corrosion	Lenting,Christoph;Plumper,Oliver;Kilburn,Matt R.;Guagliardo,Paul;Klinkenberg,Martina;Geisler,Thorsten;	
2018	MATERIAL	Materials Characterization	Advanced 3D characterisation of iodine induced stress corrosion cracks in zirconium alloys	Gillen,Conor;Garner,Alistair ;Plowman,Adam ;Race, Christopher P.; Lowe,Tristan;Jones, Christopher R.M.;Moore,Katie L.;Frankel,Philipp;	10.1016/j.matchar.2018.04.034
2018	MATERIAL	Journal of Nuclear Materials	Chemical imaging and diffusion of hydrogen and lithium in lithium aluminate	Jiang, Weilin;Spurgeon, Steven R.;Zhu, Zihua;Yu, Xiaofei;Kruska, Karen;Wang, Tianyao;Gigax, Jonathan;Shao, Lin;Senor, David J.	10.1016/j.jnucmat.2018.08.057
2018	MATERIAL	npj Materials Degradation	Long-term weathering rate of stained-glass windows using H and O isotopes	Sessegolo,Loryelle;Verney-Carron,Aurelie;Saheb,Mandana;Remusat, Laurent;Gonzalez-Cano,Adriana;Nuns,Nicolas;Mertz,Jean-Didier;Loisel,Claudine;Chabas,Anne;	10.1038/s41529-018-0038-1
2018	MATERIAL	MRS Advances	3D Distributions of Chlorine and Sulphur Impurities in a Thin-Film Cadmium Telluride Solar Cell	Fiducia,Thomas A. M.;Li,Kexue;Munshi, Amit H. ;Barth, Kurt;Sampath,Walajabad S.;Grovenor,Chris R. M.;Walls,John M.;	10.1557/adv.2018.449.
2018	MATERIAL	Materials Characterization	Determination of the oxide scale growth mechanism using 18O-tracer experiments in combination with Transmission Electron Microscopy and nanoscale Secondary Ion Mass Spectrometry	Falk-Windisch,Hannes;Malmberg,Per;Sattari,Mohammad;Svensson, Jan-Erik;Froitzheim,Jan;	
2018	MATERIAL	Acta Materialia	Effects of an oxygen potential gradient and water vapor on mass transfer in polycrystalline alumina at high temperatures.. Acta Materialia 151 (2018) 21e30 . https://doi.org/10.1016/j.actamat.2018.03.021	Matsudaira,Tsuneaki;Kitaoka,Satoshi;Shibata, Naoya;Ikuhara,Yuichi;Takeuchi,Miyuki;Ogawa,Takafumi;	
2018	MATERIAL	Proceedings of the 18th International Conference on Environmental Degradation of Materials in Nuclear Power Systems – Water Reactors. EDM	Effect of pH on Hydrogen Pick-Up and Corrosion in Zircaloy-4. (2018) . The Minerals, Metals & Materials Series. Springer, Cham. Jackson J., Paraventi D., Wright M. (eds)	Sayers James;Ortner,Susan;Li, Kexue;Lozano-Perez,Sergio;	10.1007/978-3-319-67244-1_74
2018	MATERIAL	Journal of Non-Crystalline Solids	Multicomponent diffusion in sodium borosilicate glasses, V478, p 29-40.	Pablo,Helene;Schuller,Sophie;Toplis,Michael J.;Gouillart,Emmanuel;Mostefaoui,Smail;Charpentier,Thibault;Roskosz,Mathieu;	
2018	MATERIAL	npj Materials Degradation	High resolution NanoSIMS imaging of deuterium distributions in 316 stainless steel specimens after fatigue testing in high pressure deuterium environment. npj Materials Degradation 2, Article number: 2 (2018)	McMahon,Greg;Miller,Bryan D.;Burke,M. Grace;	
2018	MATERIAL	Metallurgical and Materials Transactions A	On the Effect of Environmental Exposure on Dwell Fatigue Performance of a Fine-Grained Nickel-Based Superalloy. Metallurgical and Materials Transactions A. September 2018, Volume 49, Issue 9, pp 3908–3922.	Pedrazzini,Stella; Child,D. J. ;Aarholt,Thomas Magnus;Ball,C.;Dowd,Michael;Girling,A.; Cockings,Hollie; Perkins,Karen M.; Hardy,Mark C.;Stone,Howard James;Bagot, Paul A.J.;	
2018	MATERIAL	Acta Materialia	On the mechanism of sodium migration in transition aluminas with calcination	McIntosh, Grant J.;Wijayaratne, Hasini;Chan, Andrew;Perander, Linus;Hyland, Margaret;	10.1016/j.actamat.2018.04.049
2018	MATERIAL	Metallurgical and Materials Transactions B	Balancing Sodium Impurities in Alumina for Improved Properties	Wijayaratne,Hasini;Hyland,Margaret;McIntosh,Grant;Perander, Linus;Metson,James;	
2018	MATERIAL	Journal of Non-Crystalline Solids	Impact of chemical diffusion on crystal growth in sodium borosilicate glasses.. Journal of Non-Crystalline Solids	Pablo,Helene;Schuller,Sophie;Toplis,Michael J.;Mostefaoui,Smail;Mesbah,A.;Roskosz,Mathieu;	10.1016/j.jnoncrysol.2018.10.013
2018	MATERIAL	Sensors and Actuators B: Chemical	Covalent functionalization of polycrystalline silicon nanoribbons applied to Pb(II) electrical detection. Sensors and Actuators B: Chemical Volume 268, 1 September 2018, Pages 368-375 https://doi.org/10.1016/j.snb.2018.04.138	Le Borgne,Brice;Girard,Aurelie; Cardinaud,Christophe ; Salaun,Anne-Claire; Pichon,Laurent;Geneste,Florence;	
2018	MATERIAL	Metallurgical and Materials Transactions A	Microstructural and Finite Element Analysis of Creep Failure in Dissimilar Weldment Between 9Cr and 2.25Cr Heat-Resistant Steels. Metallurgical and Materials Transactions A. pp 1–10. First Online: 09 August 2018. https://doi.org/10.1007/s11661-018-4859-x	Sung,Hyun Je;Moon,Ji Hyun;Jang,Min Ji;Kim,Hyoung Seop;Kim, Sung-Joon;	

2019	MATERIAL	Nature Energy	Understanding the role of selenium in defect passivation for highly efficient selenium-alloyed cadmium telluride solar cells.	Fiducia,Thomas A. M.;Mendis,Budhika G.;Li,Kexue;Grovenor,Chris R. M.;Munshi,Amit H.;Barth,Kurt;Sampath,Walajabad S.;Wright,Lewis D.;Abbas,Ali;Bowers,Jake W.;Walls,John M.;	10.1038/s41560-019-0389-z
2019	MATERIAL	Journal of Nuclear Materials	Investigation of physical and chemical properties for upgraded SAP (SiO2Al2O3P2O5) waste form to immobilize radioactive waste salt	Lee,Ki Rak;Riley,Brian J.;Park,Hwan-Seo;Choi,Jung-Hoon;Han,Seung Youb;Hur,Jin-Mok;Peterson Jacob A.;Zhu,Zihua;Schreiber,Daniel K.;Kruska,Karen;Olszta,Matthew J.;	10.1016/j.jnucmat.2019.01.004
2019	MATERIAL	Journal of Nuclear Materials	High resolution crystallographic and chemical characterisation of iodine induced stress corrosion crack tips formed in irradiated and non-irradiated zirconium alloys	Gillen,Conor;Garner,Alistair;Jones, Christopher ;Moore, Katie L.;Tejland, Pia;	10.1016/j.jnucmat.2019.03.027
2019	MATERIAL	IEEE Journal of Photovoltaics	Three-Dimensional Imaging of Selenium and Chlorine Distributions in Highly Efficient Selenium-Graded Cadmium Telluride Solar Cells. . IEEE Journal of Photovoltaics. PP(99):1-5 . 09	Fiducia,Thomas A. M.;Li,Kexue;Munshi,Amit H.;Barth,Kurt; Sampath,Walajabad S.;Grovenor,Chris R. M.;	10.1109/JPHOTOV.2019.2955313
2019	MATERIAL	Environmental Science: Nano	Facet-selective adsorption of Fe(II) on hematite visualized by nanoscale secondary ion mass spectrometry	Taylor,Sandra D.;Kovarik,Libor;Cliff,John B.;Rosso,Kevin M.;	10.1039/C9EN00562E
2019	MATERIAL	Journal of Nuclear Materials	Investigating the stability of second phase particles in Zr-Nb alloys under irradiation	He,Guanze;Liu, Junliang ;Li, Kexue ;Hu, Jing ;Mir, Anamul Haq ;Lozano-Perez,Sergio ;Grovenor,Chris R.M.;	10.1016/j.jnucmat.2019.151738
2019	MATERIAL	Acta Materialia	Grain-boundary segregation of boron in high-strength steel studied by NanoSIMS and atom probe tomography	DaRosa,Gregory;Maugis,Philippe;Portavoce,A.;Drillet,Josee;Valle, Nathalie;Lentzen,Esther;Hoummada,K.;	10.1016/j.actamat.2019.10.029
2019	MATERIAL	Corrosion Science	Addition of Ta and Y in a hard Ti-Al-N PVD coating: Individual and conjugated effect on the oxidation and wear properties	Aninat,Remi;Valle,Nathalie;Chemin,Jean-Baptiste;Duday,David;Michotte,C.;Penoy,Marianne; Bourgeois,L.;Choquet,Patrick;	10.1016/j.corsci.2019.04.042
2019	MATERIAL	Applied Surface Science	3D-characterization of deuterium distributions in zirconium oxide scale using high-resolution SIMS	Li,Kexue;Aarholt,Thomas Magnus;Liu, Junliang ;Hulme, Helen ;Garner, Alistair ;Preuss, Michael ;Lozano-Perez,Sergio ;Grovenor,Chris R.M.;	10.1016/j.apsusc.2018.09.101
2019	MATERIAL	Vacuum	Behavior of impurity elements in pure gadolinium during ultra-high purification	Wang,Jiongkun;Fu,Kai;Li,Xingguo;Li,Guoling;	
2019	MATERIAL	Analytical Chemistry	Microscale Isotopic Variation observed in Uranium Fuel Pellets with implications for Nuclear Forensics	Ruth Kips;Weber,Peter K.;Michael J. Kristo, Benjamin Jacobsen ,Erick Ramon	10.1021/acs.analchem.9b01737
2019	MATERIAL	Nanophotonics	Strongly coupled, high-quality plasmonic dimer antennas fabricated using a sketch-and-peel technique.	Gittinger,Moritz;Hoflich,Katja;Smirnov,Vladimir;Kollmann,Heiko;Lien au,Christoph;Silies,Martin;	10.1515/nanoph-2019-0379
2019	MATERIAL	Journal of Power Sources	Investigation of oxide ion flux at cathode/electrolyte interface in solid oxide fuel cell, v412, p695-700.	Nagasawa,Tsuyoshi;Hanamura,Katsunori;	
2019	MATERIAL	Advanced Materials	High Throughput Growth of Microscale Gold Bicrystals for Single Grain Boundary Studies	Gan,Lucia T.;Yang,Rui;Traylor,Rachel;Cai,Wei ;Nix,William D.;Fan, Jonathan A.;	10.1002/adma.201902189
2019	MATERIAL	Corrosion Science	A multi-technique study of “barrier layer” nano-porosity in Zr oxides during corrosion and hydrogen pickup using (S)TEM, TKD, APT and NanoSIMS.	Hu,Jing;Aarholt,Thomas Magnus;Setiadinata,Brian;Li, Kexue;Garner, Alistair ;Lozano-Perez,Sergio;Moody, Michael;Frankel,Philipp;Preuss, Michael;Grovenor,Chris R.M.;	10.1016/j.corsci.2019.108109
2019	MATERIAL	Metallurgical and Materials Transactions A	Measurement and Prediction of Phase Transformation Kinetics in a Nuclear Steel During Rapid Thermal Cycles. Metallurgical and Materials Transactions A. pp 1–17 . First Online: 04 February 2019	Obasi,Gideon;Pickering,Edward J.;Vasileiou,Anastasia N.; Sun,Yongle L.;Rathod,Dinesh W.;Preuss,Michael;Francis,John A.;Smith,Mike C.;	
2019	MATERIAL	ACS Omega	Isotopic and compositional variations in single nuclear fuel pellet particles analyzed by NanoSIMS	Fallon, Connaugh; Bower, William; Lyon, Ian; Livens, Francis; Thompson, Paul; Higginson, Matthew; Collins, Jane; Heath, Sarah; Law, Gareth;	10.1021/acsomega.9b02703
2019	MATERIAL	Minerals	A NanoSIMS 50 L Investigation into Improving the Precision and Accuracy of the 235U/238U Ratio Determination by Using the Molecular 235U16O and 238U16O Secondary Ions, 9, 307	Zirakparvar,N. Alex;Hexel,Cole R.;Miskowiec,Andrew J.;Smith,Julie B.;Ambrogio,Michael W.;Duckworth,Douglas C.;Kapsimalis, Roger;Ticknor,Brian W.;	10.3390/min9050307
2019	MATERIAL	MRS Communications	A method for quantitative nanoscale imaging of dopant distributions using secondary ion mass spectrometry: an application example in silicon photovoltaics	Eswara,Santhana;Pshenova,Alisa;Lentzen,Esther ;Nogay, Gizem ;Lehmann,Mario;Ingenito,Andrea;Jeangros,Quentin;Haug,Franz-Josef;Valle,Nathalie;Philipp, Patrick;Hessler-Wyser,Aicha;Wirtz,Tom;	10.1557/mrc.2019.89
2019	MATERIAL	Journal of The Electrochemical Society	Direct Visualization of Oxygen Incorporation for Oxygen Reduction on Porous Mixed-Conducting LaSrCoO3 Cathode, 166 (10) F581-F586	Chanthanumataporn,Merika;Nagasawa,Tsuyoshi;Hanamura,Katsunori;	10.1149/2.0471910jes
2019	MATERIAL	Metals and Materials International	Effect of Boron on the Thermal Stability of the Precipitate Phase of FC92B and FC92N Steels During Aging and Creep.Metals and Materials International. 2019. inline 15Oct2019. doi.org/10.1007/s12540-019-00473-2	Jeong,Eun Hee;Kim,Jun Hwan;Kim,Sung Ho;Kim,Young Do;	
2019	MATERIAL	Journal of Alloys and Compounds	Self-healing behavior of Inconel 617B superalloy. . Journal of Alloys and Compounds Available online 19 July 2019. doi.org	Kang,Seok-Hyeon;Lee,Sukjin;Suh,Jin-Yoo;Kim,Han-Jin;Lee,Young-Kook;	/10.1016/j.jallcom.2019.07.204
2019	MATERIAL	Applied Surface Science	Effect of Precipitation Control on Strength and Impact Toughness in Advanced Pressure Vessel Steel. . Metallurgical and Materials Transactions A. First Online: 22 August 2019. doi.org/10.1007/s11661-019-05416-5	Sung,Hyun Je;Kim,Sung-Joon;	
2019	MATERIAL	Chemistry – A European Journal	Experimental Insights into the Growth of Single Truncated Anatase Bipyramids	Mulcahy,Justin;He,Shuai;Jin,Decarle;Guo,Wenxiao;Arteta, Sarah;Cliff,John;Zhu,Zihua;Wei,Wei David;	10.1002/chem.201805773
2019	MATERIAL	Metals	Influence of Heat Treatment on the Workability of Modified 9Cr-2W Steel with Higher B Content	Heo,Hyeong Min;Kim,Jun Hwan;Kim,Sung Ho;Kim,Jong Ryoul;Moon,Won Jin;	10.3390/met9080904
2019	MATERIAL	Journal of Alloys and Compounds	Experimental study and thermodynamic modelling of the Cu-Fe-Si-U sub-systems,v799, P239-246	Soldi,L.;Gosse,Stephane;Laplace,Annabelle;Bonnaillie,P.;Schorne-Pinto,Juliano;Roskosz,Mathieu;	10.1016/j.jallcom.2019.05.294
2019	MATERIAL	GRAND RENEWABLE ENERGY 2018 Proceedings	Oxide-ion diffusion imaging an anode-supported solid oxide fuel cell through oxygen isotope labelling	Chanthanumataporn,Merika;Nagasawa,Tsuyoshi;Hanamura,Katsunori;	
2020	MATERIAL	Science	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells, v 369, 6499, pp. 96-102	Lin,Yen-Hung;Sakai, Nobuya ;Da,Peimei;Wu,Jiaying;Sansom,Harry C.;Ramadan,Alexandra J.;Mahesh, Suhas;Liu,Junliang;Oliver, Robert D. J.;Lim,Jongchul;Aspitarte,Lee;Sharma,Kshama;Madhu,P.K.;Morales Vilches,Anna B.;Nayak,Pabitra K.;Bai,Sai;Gao,Feng;Grovenor,Chris R. M.;Johnston,Michael B.;Labram,John G.;Durrant,James R.;Ball,James M.;Wenger,Bernard;Stannowski,Bernd;Snaith,Henry J.;	10.1126/science.aba1628
2020	MATERIAL	International Journal of Hydrogen Energy	Correlative NanoSIMS and electron microscopy methods for understanding deuterium distributions after fatigue testing of 304/304L stainless steel in deuterated water	McMahon,Greg;Miller,Bryan D.;Burke,M. Grace;	10.1016/j.ijhydene.2020.05.002
2020	MATERIAL	ACS Applied Nano Materials	Graphene-Based Gas Sensors with High Sensitivity and Minimal Sensor-to-Sensor Variation. ACS Applied Nano Materials. 2020, Publication Date:January 30, 2020. 10.1021/acsanm.9b02378 (NanoSIMS data in the supplement)	Choi,Jae Hong;Lee,Junghyun;Byeon,Mirang;Hong,Tae Eun;Park,Hyesung;Lee,Chang Young;	10.1021/acsanm.9b02378
2020	MATERIAL	Nature nanotechnology	Synergistic enhancement of electrocatalytic CO2 reduction to C2 oxygenates at nitrogen-doped nanodiamonds/Cu interface	Wang, Hongxia;Tzeng, Yan-Kai;Ji, Yongfei;Li, Yanbin;Li, Jun;Zheng, Xueli;Yang, Ankun;Liu, Yayuan;Gong, Yongji;Cai, Lili;Li, Yuzhang;Zhang, Xiaokun;Chen, Wei;Liu, Bofei;Lu, Haiyu;Melosh, Nicholas A.;Shen, Zhi-Xun;Chan, Karen;Tan, Tianwei;Chu, Steven;Cui, Yi;	10.1038/s41565-019-0603-y
2020	MATERIAL	ACS Applied Materials & Interfaces	Determining the level and location of functional groups on few-layer graphene and their effect on the mechanical properties of nanocomposites	Legge,Elizabeth J.;Paton, Keith R.;Wywijas, Magdalena ;McMahon, Greg ;Pemberton, Rory ;Kumar,Naresh ;Raju, Arun Prakash Aranga ;Dawson, Craig P. ;Strudwick,Andrew J.;Bradley,James W.;Stolojan,Vlad;Silva,S.Ravi P.;Hodge,Stephen A.;Brennan, Barry;Pollard,Andrew J.;	10.1021/acsami.9b22144
2020	MATERIAL	Talanta	Focused ion beam for improved spatially-resolved mass spectrometry and analysis of radioactive materials for uranium isotopic analysis	Reilly,Dallas D.;Beck,Chelsie L.;Buck,Edgar C.;Cliff,John B.;Duffin,Andrew M.;Lach,Timothy G.;Liezers,Martin;Springer,Kellen WE.;Tedrow,Stephanie J.;Zimmer,Mindy M.;	10.1016/j.talanta.2020.120720
2020	MATERIAL	Acta Materialia	Characterisation of deuterium distributions in corroded zirconium alloys using high-resolution SIMS imaging.. Acta Materialia. Volume 200, November 2020, Pages 581-596. https://doi.org/10.1016/j.actamat.2020.09.040	Liu,Junliang;Li,Kexue;Sayers,James ;Aarholt,Thomas Magnus;He, Guanze;Hulme,Helen;Garner,Alistair;Preuss,Michael;Nordine, Heidi;Partezana,Jonna M.;Limback,Magnus;Lozano-Perez,Sergio;Ortner,Susan;Grovenor,Chris R.M.;	
2020	MATERIAL	Scientific Reports	Microstructural heterogeneity in the electrodeposited Ni: insights from growth modes. Scientific Reports. (2020) 10:5548 | https://doi.org/	Matsui,Isao;Watanabe,Atsuya;Takigawa,Yorinobu;Omura,Naoki ; Yamamoto,Takahisa;	10.1038/s41598-020-62565-z
2020	MATERIAL	Journal of the European Ceramic Society	Mass Transfer in Polycrystalline Ytterbium Monosilicate under Oxygen Potential Gradients at High Temperatures. . Journal of the European Ceramic Society. Available online 24 July 2020 https://doi.org/10.1016/j.jeurceramsoc.2020.07.045	Matsudaira,Tsuneaki;Wada,Masashi;Kawashima,Naoki;Takeuchi, Miyuki;Yokoe,Daisaku;Kato,Takeharu;Takata,Masasuke;Kitaoka, Satoshi;	
2020	MATERIAL	Journal of Radioanalytical and Nuclear Chemistry	Uncovering uranium isotopic heterogeneity of fuel pellets from the fifth collaborative materials exercise of The Nuclear Forensics International Technical Working Group	The Nuclear Forensics International Technical Working Group;Jovanovic,Slobodan V.;Weber,Peter K.; Pidduck,Allan J.;Gaffney,Amy M. ;Girard, Pascal ; Pointurier,Fabien ;Hedberg,Magnus;Simons,Andrew J.;Stebelkov,Vladimir;Kell,Tara;Knight,Kimberly;Parsons Davis, Tashi;Kristo,Michael;Williams,Ross W.;Treinen,Kerri C.;Montgomery,Neil J.;King,Josh;Wickenden,Amethyst;Knight,Darrell;Faure,Anne Laure;Hubert,Amelie;Albert,Noelle;Vincent,Marie Christine;Wallenius,Maria;Elantyev,Ivan A.;Zhizhin,Kirill D.;Schwantes,Jon M.;Marsden,Olivia;Taylor,Fiona;	10.1007/s10967-020-07470-5
2020	MATERIAL	Analyst	Correlating nanoscale secondary ion mass spectrometry and atom probe tomography analysis of uranium enrichment in metallic nuclear fuel	Kautz,Elizabeth;Cliff,John;Lach,Timothy;Reilly,Dallas;Devaraj,Arun;	10.1039/D0AN01831G
2020	MATERIAL	Metals	Heat-Affected-Zone Liquation Cracking in Welded Cast Haynes® 282®. . Metals. 2020, 10, 29; doi:10.3390/met10010029	Singh,Sukhdeep;Andersson,Joel;	
2020	MATERIAL	ACS Applied Materials & Interfaces	Fused Metalloporphyrin Thin Film with Tunable Porosity via Chemical Vapor Deposition	Baba,Kamal;Bengasi, Giuseppe ;Loyer,Francois ;CosasFernandes, Joao Paulo;El Assad,Dana;De Castro,Olivier;Boscher,Nicolas D.;	10.1021/acsami.0c09630
2020	MATERIAL	Nano Research	Highly regular rosette-shaped cathodoluminescence in GaN self-assembled nanodisks and nanorods. . Nano Research (2020). https://doi.org/	Zhao,Bijun;Lockrey,Mark Nicolas;Wang,Naiyin;Caroff,Philippe;Yuan, Xiaoming;Li,Li;Wong-Leung,Jennifer;Tan,Hark Hoe;Jagadish, Chennupati;	10.1007/s12274-020-2886-6
2020	MATERIAL	Scientific Reports	A preliminary investigation into the use of molecular oxide and hydride secondary ion relationships for improvement of the 236U/238U determination on a NanoSIMS 50L, 10:12285	Zirakparvar,N.Alex;Hexel,Cole R.;Smith,Julie B.;Miskowiec,Andrew J. ; Spano,Tyler L.;Kapsimalis,Roger;	10.1038/s41598-020-69121-9
2020	MATERIAL	Materials Characterization	Isothermal transformation of austenite to ferrite and precipitation behavior in 9Cr-1.5Mo-1.25Co-0.1C-VNb heat-resistant steel. (2020). Materials Characterization, 170(), 110677–. doi:10.1016/j.matchar.2020.110677	Moon,Joonoh; Lee,Tae-Ho;Kim,Sung-Dae;Lee,Chang-Hoon;Jang,Jae Hoon; Shin,Jong-Ho;Lee,Jong-Wook;Lee,Bong Ho;Suh,Dong-Woo	

2020	MATERIAL	SID Symposium Digest of Technical Papers	A Study of Oxide TFT Vth Shift Behavior by Characterizing with Nanoscale SIMS, 51(1), 1379–1382	Park,Jung Hwa;Han,Jae Bum;Jeong,Soo Im;Park,Young Gil;Ahn,Nari	10.1002/sdtp.14142
2020	MATERIAL	Journal of Materials Chemistry C	Visualizing the Role of Photoinduced Ion Migration on Photoluminescence in Halide Perovskite Grains	Choi,Hoyeon ;Ke,JackChun-Ren;Skalsky,Stefan;Castle,ChristopherA.;Li,Kexue;Moore,KatieL.;Flavell,Wendy;Parkinson,Patrick;	
2021	MATERIAL	Journal of the American Chemical Society	Isotopic Depth Profiling of Discharge Products Identifies Reactive Interfaces in an Aprotic Li–O2 Battery with a Redox Mediator	Nishioka,Kiho; Morimoto, Kota; Kusumoto,Takayoshi; Harada,Takashi; Kamiya, Kazuhide ; Mukouyama,Yoshiharu ; Nakanishi, Shuji	10.1021/jacs.1c00868
2021	MATERIAL	Cellulose	Nanocellulose-containing cellulose ether composite films prepared from aqueous mixtures by casting and drying method.	Okahashi,Ken;Takeuchi, Miyuki ;Zhou, Yaxin ;Ono, Yuko ;Fujisawa, Shuji ;Saito,Tsuguyuki ;Isogai,Akira ;	10.1007/s10570-021-03897-5
2021	MATERIAL	Scientific Reports	Evidence of hydrogen trapping at second phase particles in zirconium alloy, 11:4370	Jones,Christopher;Tuli,Vidur;Shah,Zaheen;Gass,Mhairi;Burr,Patrick A.;Preuss, Michael;Moore,Katie L.;	10.1038/s41598-021-83859-w
2021	MATERIAL	Analytical Chemistry	Isotopic Heterogeneity Imaged in a Uranium Fuel Pellet with Extreme Ultraviolet Laser Ablation and Ionization Time-of-Flight Mass Spectrometry	Rush, Lydia A.; Cliff,John B.; Reilly,Dallas D.;Duffin, Andrew M. ; Menoni,Carmen S.	10.1021/acs.analchem.0c03875
2021	MATERIAL	Applied Surface Science	NanoSIMS analysis of hydrogen and deuterium in metallic alloys: Artefacts and best practice, 557 (2021) 149736	Aboura,Yasser;Moore, Katie L.;	10.1016/j.apsusc.2021.149736
2021	MATERIAL	Corrosion Science	Characterising hydrogen induced cracking of alloy 625+ using correlative SEM - EDX and NanoSIMS	Aboura,Yasser;Martelo, David F.;Morana,Roberto;Akid, Robert;Moore, Katie L.;	10.1016/j.corsci.2020.109228
2021	MATERIAL	Physical Review Materials	Chlorine passivation of grain boundaries in cadmium telluride solar cells. . Physical Review Materials. 5, 035403 – Published 3 March 2021. DOI:https://doi.org/10.1103/PhysRevMaterials.5.035403	Watts,Michael J.;Hatton,Peter;Smith,Roger;Fiducia,Tom;Abbas,Ali;Greenhalgh,Rachael;Walls,John M.;Goddard,Pooja;	10.1103/PhysRevMaterials.5.035403
2021	MATERIAL	Journal of Alloys and Compounds	High-Resolution Topochemical Analysis and Thermochemical Simulations of Oxides and Nitrides at Grain Boundaries and within the Grains of a Low Alloy Mn-Cr Hot-rolled Steel Sheet	Praig,VeraG.;Stoger-Pollach,Michael; Schintlmeister,Arno;Auinger,Michael;Danninger,Herbert;	
2021	MATERIAL	Acta Materialia	The role of β-Zr in a Zr-2.5Nb alloy during aqueous corrosion: A multi-technique study	Liu,Junliang; He,Guanze; Callow, Anne; Li, Kexue; Moore , Katie L.; Nordin, Heidi; Moody, Michael; Lozano-Perez, Sergio; Grovenor,Chris R.M.	10.1016/j.actamat.2021.117042
2021	MATERIAL	Journal of Alloys and Compounds	On the Segregation Behavior and Influences of Minor Alloying Element Zr in Nickel-based Superalloys	Zhou,Yang;Wang,Bo;Li,Shuping;Li,Wentao;Xu,Kai;Liang,Jiamiao;Zhou,Fei;Wang,Chentuo; Wang, Jun;	10.1016/j.jallcom.2021.163169
2021	MATERIAL	Materials Characterization	Application of high-spatial-resolution secondary ion mass spectrometry for nanoscale chemical mapping of lithium in an Al-Li alloy, 181, 111442	Xu, Xu; Jiao,Chengge;Li,Kexue; Hao, Min; Moore, Katie. L.; Burnett,Timothy. L.; Zhou,Xiaorong;	10.1016/j.matchar.2021.111442
2021	MATERIAL	Oxidation of Metals	Influence of Sulfur and Water Vapor on High-Temperature Oxidation Resistance of an Alumina-Forming Austenitic Alloy.	Allo,Justine;Jouen,Samuel;Roussel,Manuel;Gibouin,David;Sauvage,Xavier;	10.1007/s11085-021-10028-9
2021	MATERIAL	Journal of the Ceramic Society of Japan	Effect of chemical composition on mass transfer in Y2Ti2O7 under oxygen potential gradient at high temperatures,129, 22-31	Tanaka,Makoto;Matsudaira,Tsuneaki;Kawai,Emi;Kawashima,Naoki;Matsumoto,Ushio;Ogawa,Takafumi;Takeuchi,Miyuki;Kittaoka,Satoshi;	
2021	MATERIAL	Corrosion Science	Iodine-induced Stress Corrosion Cracking Behavior of Alloy ZIRLO with Zr Coatings by Electrodepositing With Different Pulse Current Densities	Li,Yusha;Liu,Yanhong; Li,Guangbin; Dong,Xiaoxu; Wang, Ying; Gu, Zongxing; Zhang,Yingchun	10.1016/j.corsci.2021.109890
2021	MATERIAL	Optical Materials : X	Study of dopant distribution in Cr4+:YAG transparent ceramics and its use as passively Q-switching media in Nd:YAG laser delivering 38 mJ per pulse	Perriere,Camille;Boulesteix,Remy; Maitre,Alexandre;Forestier, Benjamin;Jalocha, Alain; Brenier,Alain;	10.1016/j.omx.2021.100107
2021	MATERIAL	Corrosion Science	Should the oxygen source be considered in the initiation of KCl-induced high-temperature corrosion ? 109332	Lehmusto,Juho;Sattari,Mohammad;Halvarsson,Mats;Hupa,Leena;	10.1016/j.corsci.2021.109332
2021	MATERIAL	Communications Chemistry	Direct visualization of radiation-induced transformations at alkali halide–air interfaces, 4:49	Riechers,Shawn L.;Petrik, Nikolay G. ;Loring, John S. ;Bowden, Mark E.;Cliff, John B.;Murphy,Mark K.;Pearce,Carolyn I.;Kimmel,Greg A.;Rosso Kevin M.;	10.1038/s42004-021-00486-2
2021	MATERIAL	Journal of The ELectrochemical Society	Distribution of Reaction Sites in SOFC Cathode through Oxygen Isotope Labeling with Three-Dimensional Microstructural Analysis,168, 6	Nagasawa,Tsuyoshi;Shimura,Takaaki ;Shikazono,Naoki;Hanamura,Katsunori;	10.1149/1945-7111/ac075f
2021	MATERIAL	Materials Characterization	Evolution of boron segregation during tempering in B doped 9%Cr ferritic steel. V177, July 2021, 111192	Osanai,Takumi;Sekido,Nobuaki;Yonemura,Mitsuharu;Maruyama, Kouichi;Takeuchi,Miyuki;Yoshimi,Kyosuke;	10.1016/j.matchar.2021.111192
2021	MATERIAL	Japanese Journal of Applied Physics	Analysis of impurity doping in tunnel junction grown on core-shell structure composed of GaInN/GaN multiple-quantum-shells and GaN nanowire	Sone, Naoki;Jinno, Daiki;Miyamoto, Yoshiya;Okuda, Renji;Yamamura, Shiori;Jinno, Yukimi;Lu, Weifang;Han, Dong-Pyo;Okuno, Koji;Mizutani, Koichi;Nakajima, Satoru;Koyama, Jun;Ishimura, Satoshi;Mayama, Norihito;Iwaya, Motoaki;Takeuchi, Tetsuya;Kamiyama, Satoshi;Akasaki, Isamu;	10.35848/1347-4065/ac3728
2021	MATERIAL	The journal of Physical Chemistry C	Detection of Trace Impurity Gradients in Noble Metals by the Photothermoelectric Effect	Evans,Charlottel.;Gan,LuciaT.;Yang,Rui;Abbasi,Mahdiyeh;Wang,Xifan;Traylor,Rachel;Fan,JonathanA.;Natelson,Douglas;	10.1021/acs.jpcc.1c04927
2021	MATERIAL	Nuclear Instruments and Methods in Physics Research B	Insights into secondary ion formation during dynamic SIMS analysis: Evidence from sputtering of laboratory synthesized uranium compounds with a high-energy O-primary beam on a NanoSIMS 50L	Zirakparvar,N. Alex ;Spano, Tyler L. ;Miskowiec, Andrew ;Smith, Julie B. ;Hexel, Cole R. ;Ambrogio,Michael W ;Kapsimalis,Roger ;	10.1016/j.nimb.2021.06.007
2021	MATERIAL	preprint	Structures and Photophysical Characterization ofthe Samarium-doped Y2Mo3O12 Ceramics	Lim,Hyun-Ji;Kang,Min-Seung;Yang,Imjeong H-S.;Byeon,Mirang;Kim,Hyun Gyu;Bae,Jong Seong;Hong,Kyong-Soo;	10.21203/rs.3.rs-332064/v1
2022	MATERIAL	Corrosion Science	Role of constituent intermetallic phases and precipitates in initiation and propagation of intergranular corrosion of an Al-Li-Cu-Mg alloy	Xu,Xu;Hao,Min;Chen, Junzhou;He, Weiwei;Li,Guoai; Li,Kexue;Jiao,Chengge;Zhong,Xiangli L.;Moore, Kathie L. ;Burnett,Tim L.; Zhou, Xiaorong;	10.1016/j.corsci.2022.110294
2022	MATERIAL	Advanced Materials	Solid-State Reaction Heterogeneity During Calcination of Lithium-Ion Battery Cathode	Jo, Sugeun ;Han, Jeongwoo ;Seo, Sungjae ;Kwon, Oh-Sung ;Choi, Subin ;Zhang, Jin ;Hyun, Hyejeong ;Oh, Juhyun ;Kim, Juwon ;Chung, Jinkyu ;Kim, Hwiho ;Wang, Jian ;Bae, Junho ;Moon, Junyeob ;Park, Yoon-Cheol ;Hong, Moon-Hi ;Kim, Miyoung ;Liu, Yijin ;Sohn, Il ;Jung, Keeyoung ;Lim, Jongwoo	10.1002/adma.202207076
2022	MATERIAL	Advanced Energy Materials	Enabling Stable and Nonhysteretic Oxygen Redox Capacity in Li-Excess Na Layered Oxides	Yoon,Geon-Hee;Koo,Sojung;Park,Sung-Joon;Lee,Jaewoon;Koo,Chanwoo; Hyun Song,Seok;Jeon,Tae-Yeol;Kim,Hyungsub;Bae,Jong-Seong;Moon,Won-Jin;Cho,Sung-Pyo;Kim,Duho;Yu,Seung-Ho	10.1002/aenm.202103384
2022	MATERIAL	Corrosion	Three-body abrasion-corrosion behavior of as printed and solution annealed additively manufactured 316L stainless steel	Salasi,Mobin;Wang,Ke;Pojtanabuntoeng,Thunyaluk;Pabbruwe,Moreica;Quadir,Zakaria;Rickard,William;Guagliardo,Paul;Iannuzzi,Mariano	
2022	MATERIAL	Vacuum	Exploration for oxygen diffusion during deoxidation process of terbium with 18O as isotope tracer	Wang,Wenbin;Gao,Sie;Ke,Buqi;Lu,Shaopeng;Li,Rufeng;Li,Guoling ;Liang,Xingfang;Li,Xingguo;	10.1016/j.vacuum.2022.111727
2022	MATERIAL	SSRN	The Effects of Chemistry Variations on Hot Cracking Susceptibility of Haynes282 for Aerospace Applications	Singh,Sukhdeep;Kadoi,Kota;Ojo,Olanrewaju;Alexandrov,Borian;Andersson,Joel;	
2022	MATERIAL	Journal of Radioanalytical and Nuclear Chemistry	Chemical and structural characterization of particulate fallout isolated from air-filters	Balboni,Enrica;Dai,Zurong ;Matzel,Jennifer,Ferrier,Maryline G.;Knight,Kim;	10.1007/s10967-022-08442-7
2022	MATERIAL	ACS Applied Energy Materials	Revealing the Role of Thiocyanate for Improving the Performance of Perovskite Solar Cells	Lin, Pei-Ying;Lin, Chen-Fu;Chiu, Yueh-Ya;Chen, Hong-Hsueh;Li, Ming-Hsien;Raja, Rajendran;Wu, Chun-Sheng;Hou, Cheng-Hung;Sung-Yun Hsiao,Silver;Shyue, Jing-Jong;Lee, Der-Chuen;Ho, Sheng-Zhu;Chen, Yi-Chun;Chen, Peter	10.1021/acsaem.2c02291
2022	MATERIAL	Materials Today Communcations	Effect of intermediate heat treatments on failure rates of boron-modified 9Cr-2 W steel tubes during drawing	Heo,Hyeong Min; Yeo,Sunghwan;Kim,Jun Hwan ; Kim,Sung Ho; Kim, Jong Ryoul;	10.1016/j.mtcomm.2022.103124
2022	MATERIAL	Materials Science and Engineering: A	Effects of boron on the microstructure and impact toughness of weathering steel weld metals and existing form of boron	Cao,Rui;Han,Cheng;Guo,Xili;Jiang,Yong;Liao,Fen;Yang,Fei;Dou,Guishan;Yan,Yingjie;Chen,Jianhong;	10.1016/j.msea.2021.142560
2022	MATERIAL	Materials at High Temperatures	The creep and fracture behavior of additively manufactured Inconel 625 and 718	Kassner,Michael .E.;Son,Kwang Tae.;Lee,K.A.;Kang,Tae-Hoon;Ermagan,Royra	10.1080/09603409.2022.2045101
2022	MATERIAL	grain boundary embrittlement	Suppression of twin formation by bimodal-sized particles and brittle grain boundary fracture in selective laser melted Inconel 625	Lee,Jiwon;Song,Sangwoo;Byeon, Mirang;Hong,Hyun-Uk;	10.1016/j.msea.2022.143315
2023	MATERIAL	Acta Materialia	Austenite grain boundary segregation and precipitation of boron in low-C 2 steels and their role on the heterogeneous nucleation of ferrite	Prithiv,T.S;Gault,Baptiste;Li,Yujiao;Andersen,Dustin ;Valle,Nathalie;Eswara,Santhana ;Ponge,Dirk ;Raabe,Dierk;	10.1016/j.actamat.2023.118947
2023	MATERIAL	Acta Materialia	Boron segregation at austenite grain boundaries: an equilibrium phenomenon	DaRosa,G.;Maugis,P.;Portavoce,A.;Lartigue-Korinek,S.;Valle,N.;Lentzen,E.;Drillet,J.;Hoummada,K.;	10.1016/j.actamat.2023.119098
2023	MATERIAL	Applied Surface Science	Mechanistic study of oxygen reduction reaction on a Pd/CeO2-ZrO2 catalyst	MinYou,Hyo;Nagasawa,Tsuyoshi;WooLee,Jae;Kwon,Hyunguk;Kim ,Kyeounghak;	10.1016/j.apsusc.2023.159045
2023	MATERIAL	Polymer Testing	AFM-nanoSIMS correlative microscopy on multiphase elastomeric systems: Nanomechanical properties and elemental distribution at the nanoscale	Cosas Fernandes, Joao P.;Federico, Carlos E.;Lentzen, Esther;Valle, Nathalie;Basterra-Beroiz, Beatriz;Weydert, Marc;Quintana, Robert	10.1016/j.polymertesting.2023.107996
2023	MATERIAL	Corrosion Science	Hydrogen absorption and embrittlement of martensitic medium-Mn steels	Lyu,Ahjeong;Lee,Junghoon;Nam,Jae-Hoon;Kim,Minjeong;Lee,Young-Kook;	10.1016/j.corsci.2023.111304
2023	MATERIAL	Journal of Materials Research and Technology, 2023;26:2724 e273	Effect of inclusions on the hydrogen embrittlement of martensitic medium-Mn steel	Kim,Minjeong;Lyu,Ahjeong;Jeong,Hyun-Bin;Lee,Jin-Young;Lee,Young-Kook;	10.1016/j.jmrt.2023.08.090
2023	MATERIAL	Chemrxiv	Secondary Ion Mass Spectrometry of Single Giant Unilamellar Vesicles Reveals Compositional Variability	Grusky,Dashiel S.;Bhattacharya,Ahanjit;Boxer,Steven G.	10.26434/chemrxiv-2023-2rn2p
2023	MATERIAL	Corrosion Science	Role of Niobium in the High-temperature Oxidation of Titanium	Valenza,Thomas C.; Weber,Peter K.;Marquis,Emmanuel A.;	10.1016/j.corsci.2023.111603
2023	MATERIAL	Acta Materialia,Volume 252, 15 June 2023, 118927	Effect of oxygen potential gradient on mass transfer in polycrystalline alumina film doped with trace elements	Matsudaira,Tsuneaki;Ogawa,Takafumi;Takeuchi,Miyuki;Shibata,Naoya;Ikuhara,Yuichi;Kitaoka,Satoshi;	10.1016/j.actamat.2023.118927
2023	MATERIAL	Advanced Energy Materials	Vacuum-Healing of Grain Boundaries in Sodium-Doped CuInSe2 Solar Cell Absorbers	Babbe,Finn;Nicoara,Nicoleta;Guthrey,Harvey;Valle,Nathalie;Ramirez Sanchez,Omar;Aureau,Damien;Elanzeery,Hossam;Sharma,Deepanjan;Virtuoso,Jose Luis;Audinot,Jean-Nicolas;Zelening,Anastasiya;Gharabeiki,Sevan;Wirtz,Tom;Siebentritt,Susanne;Dale,Philipp J.;Sadewasser,Sasha;Colombara,Diego;	10.1002/aenm.202204183
2023	MATERIAL	Communications Materials	Highly 28Si Enriched Silicon by Localised Focused Ion Beam Implantation	Acharya,Ravi;Coke,Maddison;Adshead,Mason;Li,Kexue;Achinuq,Barat;Cai,Rongsheng;Gholizadeh,A.Baset;Jacobs,Janet;Boland,Jessica L.;Haight,Sarah J.;Moore,katie L.;Jamieson,David N.;Curry,Richard J.;	10.1038/s43246-024-00498-0
2023	MATERIAL	Sensors and Actuators Reports	Plasmonic Microcarriers for Sensing and Cell Expansion	Stoffels, Charlotte B.A.;Grysan, Patrick;Sion, Caroline;Rastogi, Rishabh;Beggiato, Matteo;Olmos, Eric;Krishnamoorthy, Sivashankar;	10.1016/j.snr.2023.100173
2023	MATERIAL	Journal of the European Ceramic Society	Mass transfer in Yb3Al5O12 films at high temperatures under oxygen potential gradients	Kitaoka, Satoshi;Matsudaira, Tsuneaki;Kawashima, Naoki;Ogawa, Takafumi;Yamazaki, Naoki;Hosoya, Nagisa;Nakamura, Takeshi	10.1016/j.jeurceramsoc.2023.09.057
2023	MATERIAL	Journal of the European Ceramic Society	Ar-ion- and electron-irradiated ZrC layers in ZrC-SiC-coated surrogate TRISO fuel particles	Yeo, Sunghwan;Yoo, Seung Jo;Lee, Hyunggen;Oh, Jeong Mok;Lee, Cheol Min;Kim, Jun Hwan;Kim, Eungsun;Han, Hyuksu;Mhin, Sungwook	10.1016/j.jeurceramsoc.2023.11.056
2023	MATERIAL	Nanoscale	Elucidating the performance benefits enabled by YSZ/Ni–YSZ bilayer thin films in a porous anode-supported cell architecture	Develos-Bagarinao, Katherine and Yamaguchi, Toshiaki and Kishimoto, Haruo	10.1039/d3nr01604h
2023	MATERIAL	Chemical Engineering Journal	Visualization of oxygen storage process in Pd/CeO2-ZrO2 three-way catalyst based on isotope quenching technique	Nagasawa,Tsuyoshi;Kobayashi,Atsushi;Sato,Susumu;Kosaka,Hidenori;Kim,Kyeounghak;MinYou,Hyo;Hanamura,Katsunori;Terada,Ami;Mishima,Takao;	10.1016/j.cej.2022.139937

2023	MATERIAL	Applied Surface Science	Effect of processing gas on spatter generation and oxidation of TiAl6V4 alloy in laser powder bed fusion process,v613, 15 March 2023, 156089	Raza,Ahmad;Pauzon,Camille;Dubiez-Le Goff,Sophie;Hryha,Eduard;	10.1016/j.apsusc.2022.156089
2023	MATERIAL	in press	Static and impact toughness properties of LB-PBF-built and heat treated 33CrMoV12 steel	Herve,Nicolas;Lambert,Romain;Gey,Nathalie;Perroud,Olivier;BenHaj,Slama Meriem;Poulat,Charlie;	
2023	MATERIAL	Journal of Power Sources	The influence of sulfur impurities in industrial COx gases on solid oxide electrolysis cell (SOEC) degradation	Riegraf,Matthias;Develos-Bagarinao, Katherine;Biswas, Indro ;Costa,Rémi ;	10.1016/j.jpowsour.2023.232669
2023	MATERIAL	Energy & Environmental Materials	Sodium Diffuses from Glass Substrates through P1 Lines and Passivates Defects in Perovskite Solar Modules	Kosasih,FelixUtama;DiGiacomo,Francesco;FerrerOrri,Jordi;Li,Kexue;Tennyson, ElizabethM.;Li,Weiwei;Matteocci,Fabio;Kusch,Gunnar;YaghoobiNia,Narges;Oliver, RachelA.;MacManus-Driscoll,JudithL.;Moore,KatieL.;Stranks,SamuelD.;DiCarlo, Aldo;Divitini,Giorgio;Ducati,Caterina;	10.1002/eem2.12459
2023	MATERIAL	ECS Transactions	Phase Transformation of YSZ Electrolyte in Anode-Supported SOFCs	Bai,Qingchuan;DevelosBagarinao,Katherine;Ishiyama,Tomohiro;Yamaguchi,Toshiaki;Kishimoto,Haruo;	10.1149/MA2023-02452204mtgabs
2024	MATERIAL	International Journal of Hydrogen Energy	X-ray micro-computed tomography-based approach to estimate the upper limit of natural H2 generation by Fe2+ oxidation in the intracratonic lithologies	Kularatne,Kanchana;Senechal,Pascale;Combaudon,Valentine;Darouich,Othmane;Subirana, Maria Angels;Proietti,Arnaud;Delhaye, Caroline;Schaumlöffel, Dirk;Sissmann, Olivier;Deville, Eric;Derluyn, Hannelore;	10.1016/j.ijhydene.2024.06.256
2024	MATERIAL	Metallurgical and Materials Transactions A	Effects of B Doping and Quenching Rate on Charpy Impact Properties in AISI 4130 Steels	Lee,Sukjin;Cryderman,Robert;Speer,John ;Williamson,John;	10.1007/s11661-023-07273-9
2024	MATERIAL	Batteries	Multi-Scale Heterogeneity of Electrode Reaction for 18650-Type Lithium-Ion Batteries during Initial Charging Process	Meng,Dechao;Ma,Zifeng;Li,Linsen;	10.3390/batteries10030109
2024	MATERIAL	Corrosion Science	Role of nitrogen in the high-temperature oxidation of titanium alloys	Valenza,Thomas C.; Weber,Peter K.;Marquis,Emmanuel A.;	10.1016/j.corsci.2024.112164
2024	MATERIAL	Scripta Materialia	The high temperature creep and fracture behavior of Inconel 718 produced by additive manufacturing	Oros,TheophilJ.;Son,Kwangtae;Hodge,AndreaM.;Kassner,Michael E.;	10.1016/j.scriptamat.2024.116208
2024	MATERIAL	ACS Energy Letters	Hydrogen Production with a Protonic Ceramic Membrane Reactor on Porous Fe–Cr Alloy	Zheng,Haoyu;Sata,Noriko;Han,Feng ;Dayaghi,AmirMasoud;Iguchi,Fumitada;Develos-Bagarinao,Katherine;Norby,Truls;Stange,Marit ;Costa,Remi;	10.1021/acsenergylett.4c01173
2024	MATERIAL	Superalloys 2024	Concurrent Improvement of Additive Manufacturing Processability and Creep Performance in a Legacy Polycrystalline Superalloy Using Grain Boundary Strengtheners	Shaikh,AbdulShaafi;Hryha,Eduard;Sattari,Mohammad;Thuvander, Mattias;Minet-Lallemand,Kevin;	10.1007/978-3-031-63937-1_82
2024	MATERIAL	Journal of Power Sources	Unraveling the pivotal role of heterointerfaces on oxide ion transport in solid oxide fuel cells	Bai,Qingchuan;Develos-Bagarinao,Katherine ;Yamaguchi,Takuya;Yamaguchi,Toshiaki;Kishimoto,Haruo;	10.1016/j.jpowsour.2023.233952
2024	MATERIAL	Journal of Power Sources	Effect of the operating temperature on the degradation of solid oxide electrolysis cells	Sassone,Giuseppe;Celikbilek,Ozden;Hubert,Maxime;Develos-Bagarinao,Katherine;David,Thomas;Guetaz,Laure;Martin, Isabelle;Villanova, Julie;Benayad, Anass;Rorato, Lea;Vulliet,Julien;Morel,Bertrand;Leon,Aline;Laurencin,Jerome;	10.1016/j.jpowsour.2024.234541
2024	MATERIAL	J. Electrochem. Soc.	Impact of Air Moisture and Operating Mode on the Degradation of Solid Oxide Cells	Sassone,Giuseppe;Celikbilek, Ozden ;Hubert, Maxime ;Develos-Bagarinao,Katherine ;Benayad, Anass ;Morel, Bertrand ;Léon , Aline ;Laurencin,Jérôme ;	1. , 10.1149/1945-7111/ada0ec
2025	MATERIAL	Nature	Potassium-stabilized metastable carbides and chalcogenides via surface chemical potential modulation	Chen,Fanpeng ;Cheng,Chuanqi;Wang,Jiajun ;Han, Yanran;Zhao,Bo-Hang;Zhang,Bin;	10.1038/s41467-025-59124-3
2025	MATERIAL	Environmental Research	Degradation of polyethylene by three bacteria isolated from coastal beach	Chen,Jun-Qing;Rong,Zhen;Zheng,Dao-Qiong;Wu,Yue-Hong;Xu,Xue-Wei;	10.1016/j.envres.2025.121603
2025	MATERIAL	Science	Quantum critical electro-optic and piezo-electric nonlinearities	Anderson,ChristopherP.;Scuri,Giovanni;Chan,Aaron;Eun,Sungjun;White,AlexanderD.;Ahn,GeunHo;Jilly-Rehak,Christine;Safavi-Naeini,Amir;VanGasse,Kasper;Li,Lu;Vuckovic,Jelena;	
2025	MATERIAL	Corrosion Science	Growth mechanism of chromia scales on a model Ni-30Cr alloy at high temperatures	Huang,Xian;Bosonnet,Sophie ;Fossati , Paul C.M. ;Latu Romain,Laurence ; Wouters,Yves ;Aleon,Jerome;Verdier-Paoletti,Maximilien;Jomard,François;Martinell,Laure;	10.1016/j.corsci.2024.112585
2025	MATERIAL	Journal of Materials Chemistry A	Degradation of yttria-stabilized zirconia electrolytes: impact of NiO dissolution with and without phase transformation	Bevelos-Bagarinao,Katherine ;Yamaguchi,Takuya;Ishiyama,Tomohiro;Takaaki ;Sakai;Yamaguchi,Toshiaki; Kishimoto,Haruo;	10.1039/d5ta05977a
2025	MATERIAL	Materials & Design	Heat-affected zone cracking in new 718-type superalloy VDM alloy 780: Effect of solution heat treatments and comparison with alloy 718	Ariaseta,Achmad;Andersson,Joel;Ojo,Olanrewaju;	10.1016/j.matdes.2025.114733
2025	MATERIAL	Materials & Design	Role of Local Elemental Segregation in Brittle Fracture of the Halo Ring in Resistance Spot Welds of Ultra-High Strength Hot-Stamped Steel	Manladan,SunusiMarwana;Jang,Yeojin;Nellikode,Savyasachi;Lee,Soomin;Choi,Yun-il;Kim,Dongok;Lee,Young-Kook;Park,Yeong-Do;	10.1007/s11661-025-07948-5
2025	MATERIAL	Materialia	The Impact of B and Zr Content on Processability, Microstructure, and Mechanical Performance of Additively Manufactured Superalloy IN738LC	Shaikh,AbdulShaafi;Mehta,Bharat;Yao,Yiming;Hryha,Eduard;	10.1016/j.mtla.2025.102612
2025	MATERIAL	Materials Characterization	Advanced Microstructure Analysis in a 33CrMoV12 martensitic steel produced by Powder BedFusion - Laser Beam (PBF-LB) Additive Manufacturing: evidence of austenite solidification	Gey,Nathalie;Herve,Nicolas;Poulat,Charlie;Mansour,Haithem;Lacaze,Jacques;Hazotte,Alain;	10.1016/j.matchar.2025.115445
2025	MATERIAL	Renal Replacement Therapy	Cytokine adsorption properties of a polymethylmethacrylate (PMMA) hollow-fiber membrane: an in vitro study	Hayashi,Yukiko;Sugaya,Sari;Ohashi,Kensaku;Fujita,Masaki;Watanabe,Yuri;Hara,Wakako;Matsuda,Kazuhiro;	/10.1186/s41100-025-00687-8
2025	MATERIAL	arxiv	Isotopically Selected Single Antimony Molecule Doping	Adshead,Mason;Coke,Maddison;Tillotson,Evan;Li,Kexue;Sullivan-Allsop,Sam Egoavil,Ricardo;Thornley,William;Cui,Yi ;Gourlay,Christopher M. ;Moore, KatieL.;Haigh,SarahJ.;Curry,RichardJ.;	
2025	MATERIAL	Advanced Electronic Materials	Fabrication of Planar Highly Enriched Silicon by 28Si Focused Ion Beam and Subsequent Experimental Optimization	Coke,Maddison;Adshead,Mason;Acharya,Ravi;Li,Kexue;Moore,KatieL.;Jamieson,DavidN.;Curry,RichardJ.;	10.1002/aelm.202500233
2025	MATERIAL	Scripta Materialia	Impact of high-pressure hydrogen charging on mechanical behavior and lattice parameters of a polycrystalline CoNiCr-based superalloy	Nagel,O.;Fritton,M.;Mutschke,A.;Sporlein,M.;Stark,A.;Sheptyakov, D.;Hoschen,C.;Felfer,P.;Gilles,R.;Neumeier,S.;	
2025	MATERIAL	Acta Materialia	Effects of trace Nb dopant on core-shell microstructure and ferroelectric domain switching in BiFeO3-BaTiO3 ceramics	Yang,Ziqi ;Li,Yizhe ;Pan, Juncheng;Xie, Bingying ;Li,Kexue ;Moore, Katie L. ;Kleppe, Annette K. ;Hall, David A. ;	10.1016/j.actamat.2025.120890
2025	MATERIAL	Journal of Materials Science	Effects of trace-level compositional modifications on the high-temperature creep properties of additively manufactured Inconel 718	Oros,TheophilJ.;Kassner,MichaelE.;Hodge,AndreaM.;	10.1007/s10853-025-11275-w
2025	MATERIAL	The European Physical Journal Plus	Atmospheric corrosion of bell bronze in an urban environment: its microinfiltration properties and the impact on corrosion evolution	Petitmangin,Aline;Chabas, Anne;Blanc, Caroline;Remusat,Laurent;Verdier-Paoletti,Maximilien;Bellot-Gurlet,Ludovic;Pires-Brazuna,Remy;Alfaro,Stephane;Nowak, Sophie	10.1140/epjp/s13360-025-06907-8
2025	MATERIAL	ACS Sustain. Chem. Eng	Elucidating Degradation Behavior of Ni in Direct-Ammonia Solid Oxide Fuel Cells	DevelosBagarinao,Katherine;Muroyama,Hiroki;Matsui,Toshiaki;Kishimoto,Haruo;Horita,Teruhisa;	1. 10.1021/acssuschemeng.5c04053
2026	MATERIAL	Advanced Energy& Sustainability Research	Sulfur-Enhanced Performance and Durability of SrFe0.75Mo0.25O3 δ/Ce0.9Gd0.1O2 δ Fuel Electrodes for Solid Oxide Fuel Cell	Riegraf,Matthias;Sata,Noriko;Develos-Bagarinao,Katherine;Costa,Remi;	10.1002/aesr.202500361
2026	MATERIAL	METALLURGICAL AND MATERIALS TRANSACTIONS A	Hydrogen Embrittlement of a CoNiCr-Based Superalloy: The Role of the Intermetallic Precipitation Phases β and γ′	Nagel,O.;Strobel,L.;Stark,A.;Fritton,M.;Hoeschen,Carmen.;Felfer,P.;Gilles,R.;Neumeier,S.;	10.1007/s11661-026-08130-1
2026	MATERIAL	Advanced Science	Nanoscale Secondary Ion Mass Spectrometry for Quantifying Membrane Fouling: Fouling Layer Structure and Chemical Interaction	Wu,Mengfei;Wang,Xinhua;Zhao,Pin;Song,Weilong;Xie,Ming;	10.1002/advs.74734
2026	MATERIAL	Chemrxiv	Active Phase of Nickel Electrocatalysts driving Alkaline Hydrogen Evolution	Wang,Yifeng;Ender,Eleanor;Kumar, Santosh;Tseng, Cindy;Yang, Guangmeimei;Liang, Caiwu;Yu,Youli;West,Norton,Norton;Chauhan,Inderjeet ;Ng,JunH.;Halder,Sid;Ji,SangGu;Held,Georg;Ryan,MaryP.;Moore, KatieL.;Walton,AlexS.;Rao, ReshmaR.;	chemrxiv.org/doi/pdf/10.26434/chemrxiv.15000884/v1
2026	MATERIAL	Journal of Alloys and Compounds	Microstructural mechanisms governing hot ductility recovery in VDM Alloy 780 superalloy: Competing effects of grain-boundary boron segregation and grain size	Ariaseta,Achmad;Hanning,Fabian;Andersson,Joel;Ojo,Olanrewaju;	10.1016/j.jallcom.2026.187706
2026	MATERIAL	ACS Nano	Beyond the Surface: Three-Dimensional Distribution and Defect Passivation of Self-Assembled Monolayers in Perovskite Solar Cells	Zhang,Dongjiu;Mostefaoui,Smail;Zheng,Daming;Alvarez,Jose;Lopez-Adams,Rebeca;Nie,Jiazhuo;Vlaic,Sergio;Wang,Yusheng;Sun,Baoquan;Lang,Philippe ;Pauporté,Thierry ;Aigouy,Lionel ;Aleon,Jerome;Chen,Zhuoying ;	10.1021/acsnano.6c00728
2026	MATERIAL	Journal of Materials Research	Synthesis of vertically aligned boron nitride nanotubes with a template of single-walled carbon nanotubes	Liu,Ming;Wang,Shuhui;Zheng,Yongjia;Takeuchi,Miyuki;Inoue,Taiki;Xiang,Rong;Maruyama,Shigeo;	10.1557/s43578-022-00759-z
2026	MATERIAL	ECS Transactions	Advanced nanoscale characterizations of solid oxide cell electrodes	Giuseppe Sassone, Ozden Celikbilek, Maxime Hubert, Katherine Develos Bagarinao, Thomas David, Laure Guetaz, Isabelle Martin, Julie Villanova, Lea Rorato, Bertrand Morel, Aline Léon and Jérôme Laurencin	10.1149/MA2023-0154140mtgabs
2026	MATERIAL	Nature Materials	Heterogeneous doping via nanoscale coating impacts the mechanics of Li intrusion in brittle solid electrolytes	Xu,Xin;Cui,Teng;McConohy,Geoff;Jagad,HarshD.;Lee,Samuel S.;Wang,Sunny;Melamed,Celeste;Yang,Yufei;Barks,Edward;Kaeli, Emma;Narun,Leah;Cui,Yi;Zhang,Zewen;Lee,HyeRyoung;Xu,Rong; Wang,MelodyM.;Hoogendoorn,Levi;Romana,Ajai;Geslin,Alexis;Sinclair, Robert;Cui, Yi;Qi, Yue;Gu, X. Wendy;Chueh, William C.;	10.1038/s41563-025-02465-7
1999	METHOD	NA	Recent results and developments on the Cameca NANOSIMS 50	Hillion,Francois;Horreard,Francois;Stadermann,FrankJ.;	
2006	METHOD	Applied Surface Science	Specimen preparation for NanoSIMS analysis of biological materials	Grovenor,Chris R.M.;Smart,K.E.;Kilburn,M.R.;Shore,B.;Dilworth,J.R.;Martin,B.;Hawes,C.;Rickaby,R.E.M.;	10.1016/j.apsusc.2006.02.180
2006	METHOD	Applied Surface Science	Automated ion imaging with the NanoSIMS ion microprobe .252 (2006) 7148–7151. dx.doi.org/10.1016/j.apsusc.2006.02.280	Groner,E.;Hoppe,Peter;	
2011	METHOD	American Mineralogist	Analysis of hydrogen in olivine by SIMS: Evaluation of standards and protocol	Mosenfelder,Jed L.;Le Voyer,Marion;Rossman,George R.;Guan,Yunbin;Bell,David R.;Asimow,Paul D.;Eiler,John M.;	
2012	METHOD	PLoS One	Segmentation of Multi-Isotope Imaging Mass Spectrometry Data for Semi-Automatic Detection of Regions of Interest. *. Plos ONE. February 2012 | Volume 7 | Issue 2 | e30576	Gormanns,Philipp;Reckow,Stefan;Poczatek,J. Collin;Turck,Christoph W.;Lechene,Claude P.;	
2012	METHOD	Analytical Chemistry	Determination of the H Isotopic Composition of Individual Components in Fine-Scale Mixtures of Organic Matter and Phyllosilicates with the Nanoscale Secondary Ion Mass Spectrometry. . , 2012, 84 (23), pp 10199–10206	Piani,Laurette;Remusat,Laurent;Robert,Francois;	
2012	METHOD	Applied Surface Science	Oxygen isotopic measurements on the Cameca NanoSIMS 50. . 203-204 (2003) 798-801.	Slodzian,Georges;Hillion,Francois;Stadermann,Frank J.;Horreard,Francois;	
2014	METHOD	Chemical Geology	Reduction of OH contamination in quantification of water contents using NanoSIMS imaging	Stephant,Alice;Remusat,Laurent;Thomen,Aurelien;Robert,Francois ;	10.1016/j.chemgeo.2014.04.018

2014	METHOD	Microsc Microanal	Simultaneous hydrogen and heavier element isotopic ratio images with a scanning submicron ion probe and mass resolved polyatomic ions. . , 2014: 20(2):577-581. [doi: 10.1017/S1431927613014074.	Slodzian,Georges;Wu,Ting-Di;Bardin,Noemie;Duprat,Jean;Engrand,Cecile;Guerquin-Kern,Jean-Luc;	
2014	METHOD	Surface and Interface Analysis	Quasi-simultaneous acquisition of nine secondary ions with seven detectors on NanoSIMS50L: application to biological samples ,v46, Issue S1, p 150–153	Guillermier,Christelle;Steinhauser,Matthew L.;Lechene,Claude P.;	10.1002/sia.5496
2015	METHOD	Journal of Analytical Atomic Spectrometry	Measurements of water content and D/H ratio in apatite and silicate glasses using a NanoSIMS 50L. . JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY., 2015,30, 967-978	Hu,Sen;Lin,Yangting;Zhang,Jianchao;Hao,Jialong;Yang,Wei;Deng,Liwei;	
2015	METHOD	International Journal of Mass Spectrometry	Hydrogen isotopic fractionation in secondary ion mass spectrometry using polyatomic ions. International Journal of Mass Spectrometry 393 (2015) 17–24	Bardin,Noemie;Duprat,Jean;Slodzian,Georges;Wu, Ting-Di; Baklouti,Donia;Dartois,Emmanuel ;Brunetto, Rosario;Engrand,Cecile;Guerquin-Kern,Jean-Luc;	
2016	METHOD	Analytical Chemistry	A New Radio Frequency Plasma Oxygen Primary Ion Source on Nano Secondary Ion Mass Spectrometry for Improved Lateral Resolution and Detection of Electropositive Elements at Single Cell Level. . , 2016, 88 (14), pp 7130–7136	Malherbe,Julien;Penen,Florent;Isaure,Marie-Pierre; Frank;Julia,Hause,Gerd;Dobritzsch,Dirk;Gontier,Etienne;Horreard, Francois;Hillion,Francois;Schaumloffel,Dirk;	
2016	METHOD	Biointerphases	Quantifying element incorporation in multispecies biofilms using nanoscale secondary ion mass spectrometry image analysis . 11, 02A322 (2016); doi: 10.1116/1.4941764	Renslow,Ryan S.;Lindemann,Stephen R.;Cole,Jessica K.;Zhu,Zihua;Anderton,Christopher R.;	
2016	METHOD	CARBON	Estimation of nitrogen-to-carbon ratios of organics and carbon materials at the submicrometer scale . . 84 (2015) 2 9 0 –2 9 8.	Alleon,Julien;Bernard, Sylvain;Remusat,Laurent;Robert,Francois;	
2017	METHOD	Analytical Chemistry	Correlative Microscopy Combining Secondary Ion Mass Spectrometry and Electron Microscopy: Comparison of Intensity−Hue−Saturation and Laplacian Pyramid Methods for Image Fusion,13	Vollnhals,Florian;Audinot,Jean-Nicolas;Wirtz,Tom;Mercier-Bonin,Muriel;Fourquaux,Isabelle;Schroeppel,Birgit;Kraushaar,Udo; Lev-Ram,Varda;Ellisman,Mark H.;Eswara,Santhana;	10.1021/acs.analchem.7b01
2017	METHOD	Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms	Dynamic transfer applied to secondary ion imaging over large scanned fields with the nanoSIMS 50 at high mass resolution. . Volume 412, 1 December 2017, Pages 123-173	Slodzian,Georges;Wu,Ting-Di;Duprat,Jean;Engrand,Cecile;Guerquin-Kern,Jean-Luc;	
2017	METHOD	Analytical Methods	Simultaneous determination of sulfur isotopes and trace elements in pyrite with a NanoSIMS 50L,9, 6653-6661	Zhang,Jianchao;Lin,Yangting;Yan,Jun;Li,Jinxiang;Yang,Wei;	10.1039/C7AY01440F
2018	METHOD	Limnology and Oceanography: methods	Hard and soft plastic resin embedding for single-cell element uptake investigations of marine-snow-associated microorganisms using nano-scale secondary ion mass spectrometry. LIMNOLOGY and OCEANOGRAPHY: METHODS. Limnol. Oceanogr.: Methods 00, July 2018. doi: 10.1002/lom3.10261	Rogge,Andreas;Flintrop,Clara M.;Iversen,Morten H.;Salter,Ian;Fong,Allison A.;Vogts,Angela;Waite, Anya M.;	
2019	METHOD	Analytical Chemistry	NanoSIMS imaging of D/H ratios on FIB sections	Levy,Dan;Aleon,Jerome;Aleon-Toppani,Alice;Troadec,David;Duhamel,Remi;Gonzalez-Cano,Adriana;Bureau,Helene;Khodja,Hicham;	10.1021/acs.analchem.9b03134
2019	METHOD	Surface and Interface Analysis	NanoSIMS measurements of sub-micrometer particles using the local thresholding technique	Hao,Jialong; Yang,Wei; Huang,Wenjuan ; Xu, Yuchen; Lin,Yangting;Changela,Hitesh;	10.1002/sia.6711
2020	METHOD	Communications Biology	Correlation of fluorescence microscopy, electron microscopy, and NanoSIMS stable isotope imaging on a single tissue section,3:362	Loussert-Fonta,Celine;Toullec,Gaelle;Paraecattil, Arun Aby;Jeangros, Quentin;Krueger,Thomas;Escrig,Stephane;Meibom,Anders;	10.1038/s42003-020-1095-x
2020	METHOD	Analytica Chimica Acta	Effect of Sample Preparation Techniques upon Single Cell Chemical Imaging: A Practical Comparison between Synchrotron Radiation based X-ray Fluorescence (SR-XRF) and Nanoscopic Secondary Ion Mass Spectrometry (nano-SIMS). . . online 24 January 2020. doi.org/10.1016/j.aca.2020.01.054	De Samber,Bjorn;De Rycke,Riet;DeBruyne,Michiel;Kienhuis,Michiel;Bohic,Sylvain;Cloetens,Peter;Urban,Constantin;Polerecky,Lubos;Vincze,Laszlo;	10.1016/j.aca.2020.01.054
2020	METHOD	Journal of Microscopy	Correlia: an ImageJ plug-in to co-register and visualise multimodal correlative micrographs	Rodhde,Florens;Braumann,Ulf-Dietrich;Schmidt,Matthias;	10.1111/jmi.12928
2020	METHOD	Surface and Interface analysis	NanoSIMS image enhancement by reducing random noise using low-rank method. . Surface and Interface analysis. 2020	Lin,Yi;Hao,Jialong;Miao,Zhongzheng;Zhang,Jinhai;Yang,Wei;	
2020	METHOD	Earth, Planets and Space	The universal sample holders of microanalytical instruments of FIB, TEM, NanoSIMS, and STXM-NEXAFS for the coordinated analysis of extraterrestrial materials. . Earth, Planets and Space volume 72, Article number: 133 (2020). https://doi.org/10.1186/s40623-020-01267-2	Ito,Motoo;Tomioka,Naotaka ;Uesugi,Kentaro;Uesugi,Masayuki;Kodama, Yu;Sakurai,Ikuya;Okada,Ikuo;Ohigashi,Takuji;Yuzawa,Hayato;Yamaguchi, Akira;Imae,Naoya;Karouji,Yuzuru;Shirai,Naoki;Yada,Toru;Abe,Masanao;	
2020	METHOD	Current Protocols in Cell Biology	Metabolic Analysis at the Nanoscale with Multi-Isotope Imaging Mass Spectrometry (MIMS), 88, e111	Narendra,Derek P.;Steinhauser,Matthew L.;	10.1002/cpcb.111
2020	METHOD	Journal of microscopy	Site-specific specimen preparation for SIMS analysis of radioactive samples	Liu,Junliang;Li,Kexue;Lozano-Perez,Sergio;Grovenor,Chris R. M.;	10.1111/jmi.12981
2021	METHOD	Journal of Analytical Atomic Spectrometry	Submicron spatial resolution Pb–Pb and U–Pb dating by using a NanoSIMS equipped with the new radio-frequency ion source	Hao,Jia-Long;Yang, Wei ;Hu,Sen ;Li,Rui-ying;Ji,Jiang-Long;Changela,Hitesh G.;Lin,Yang-Ting;	10.1039/d1ja00085c
2021	METHOD	Journal of Analytical Atomic Spectrometry	A correlative method to quantitatively image trace concentrations of elements by combined SIMS-EDX analysis. .	Yedra,Lluis;Kumar,C. N. Shyam;Pshenova,Alisa;Lentzen,Esther;Philipp,Patrick;Wirtz , Tom;Eswara,Santhana;	10.1039/D0JA00289E
2021	METHOD	Nuclear Instruments and Methods in Physics Research Section B	A reassessment of the quasi-simultaneous arrival effect in secondary ion mass spectrometry.. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms. Volume 491, Pages 17-28	Ogliore,Ryan;Nagashima,Kazuhide;Huss,Gary;Haenecour,Pierre;	10.1016/j.nimb.2021.01.007
2021	METHOD	Biointerphases	Depth correction of 3D NanoSIMS images using secondary electron pixel intensities	Gorman,Brittney L.;Brunet,Melanie A.;Kraft,Mary L.;	10.1116/6.0001092
2021	METHOD	Current Protocols	High-Resolution Multi-Isotope Imaging Mass Spectrometry (MIMS) Imaging Applications in Stem Cell Biology	McMahon,Greg;Lechene,ClaudeP.;	10.1002/cpz1.290
2022	METHOD	Analytical Chemistry	Recombination Between 13C and 2H to Form Acetylide (13C22H-) Probes Nanoscale Interactions in Lipid Bilayers Via Dynamic Secondary Ion Mass Spectrometry: Cholesterol and GM1 Clustering	Grusky,Dashiel S.;Moss III,Frank R.;Boxer,Steven G.	
2022	METHOD	ACS Nano	Depth Correction of 3D NanoSIMS Images Shows Intracellular Lipid and Cholesterol Distributions while Capturing the Effects of Differential Sputter Rate	Brunet,Melanie A.;Gorman,Brittney L.;Kraft,Mary L.;	10.1021/acsnano.2c05148
2022	METHOD	Atomic Spectroscopy	High Precision and Resolution Chlorine Isotopic Analysis of Apatite Using NanoSIMS	Hao,Jialong;Hu,Sen;Li,Ruiying;Ji,Jianglong;He,Huicun;Lin,Yangting;Yang,Wei;	
2022	METHOD	Atomic Spectroscopy	Pb/Pb and U/Pb Dating by NanoSIMS with the Radio-frequency Ion Source Using 16O2- as the Primary Species	Yang,Ya-Nan;He,Miaohong;Zhang,Yan-Qiang;Xua,Yi-Gang;	10.46770/AS.2022.019
2022	METHOD	J. Anal. At. Spectrom.	High spatial resolution and precision NanoSIMS for sulfur isotope analysis	Chen,Youwei;Xie,Zhuojun;Dong,Shaohua;Lei,Quanliang;Gao,Jianfeng;	10.1039/d2ja00248e
2022	METHOD	Analytical Chemistry	Correlative High-Resolution Imaging of Iron Uptake in Lung Macrophages	Lovric,Jelena;Najafinobar, Neda;Kurczy, Michael E. ;De Castro, Olivier ;Biesemeier, Antje ;von Sydow, Lena ;Klarqvist,Magnus ;Wirtz, Tom ;Malmberg,Per ;	10.1021/acs.analchem.2c02675
2023	METHOD	BMC Biology	Correlated cryo-SEM and CryoNanoSIMS imaging of biological tissue	Meibom, Anders;Plane, Florent;Cheng, Tian;Grandjean, Gilles;Haldimann, Olivier;Escrig, Stephane;Jensen, Louise;Daraspe, Jean;Mucciolo, Antonio;De Bellis, Damien;Rädecker, Nils;Martin-Olmos, Cristina;Genoud, Christel;Comment, Arnaud;	10.1186/s12915-023-01623-0
2023	METHOD	Frontiers in Chemistry	NanoSIMS analysis of water content in bridgmanite at the micron scale: An experimental approach to probe water in Earth's deep mantle	Yang,Ya-Nan;Du,Zhixue;Lu,Wenhua;Qi,Yue;Zhang,Yan-Qiang;Zhang,Wan-Feng;Zhang,Peng-Fei;	10.3389/fchem.2023.1166593
2023	METHOD	Journal of Analytical Atomic Spectrometry	Dynamic implantation-an improved approach for a large area SIMS measurement	Hoechen,Carmen;Lugmeier,Johann;	10.1039/d2ja00190j
2023	METHOD	Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms	Achieving high mass resolution with the NanoSIMS 50 while preserving signal transmission from submicron probe impact areas	Slodzian,Georges;Wu,Ting-Di;	
2023	METHOD	Journal of Analtyical Atomic Spectrometry	A silica-related matrix effect on NanoSIMS Li isotopic analysis of glasses and its online calibration	Li,Rui-Ying;Hao,Jialong;Yang,Wei;Tian,Heng-Ci;Hu,Sen;Lin,Yangting;	10.1039/D3JA00100H
2023	METHOD	Frontiers in Chemistry	NanoSIMS sulfur isotopic analysis at 100 nm scale by imaging technique	Hao,Jia-Long;Zhang,Liu-Ping;Yang,Wei;Li,Zhao-Yang;Li,Rui-Ying;Hu,Sen;Lin,Yang-Ting;	10.3389/fchem.2023.1120092
2023	METHOD	American Mineralogist	Measuring H2O concentrations in olivine by secondary ion mass spectrometry: Challenges and paths forward	Towbin,Henry;Plank,Terry;Klein,Emily;Hauri,Erik;	10.2138/am-2022-8247
2024	METHOD	Microbiology Spectrum	Comparing Raman and NanoSIMS for heavy water labeling of single cells	Schaible,GeorgeA.;Cliff,John;Crandall,JenniferA.;Bougoure,Jeremy J.;Atwood,Joseph;Hatzenpichler,Roland;	10.1128/spectrum.01659-24
2024	METHOD	Atomic Spectroscopy	Quantification Of Water Content In Glass At Nanoscale Using Atom Probe Tomography	Long,Tao;Yang,Ya-Nan;Gao,Yu-Ya;Du,Zhi-Xue;	
2024	METHOD	Journal of the American Chemical Society	Tool to Resolve Distortions in Elemental and Isotopic Imaging	Lu,Chixiang;Chen,Gu ;Song,Wenxin ;Chen, Kai ;Hee,Charmaine;Nikan,Mehran;Guagliardo,Paul;Bennett,C.Frank ;Seth,Punit;Swaminathanlyere,Killugudi;Young,Stephen G.;Qi,Xiaojuan;Jiang,Haibo;	10.1021/jacs.4c05384
2024	METHOD	Chemrxiv	The NanoSIMS-HR: the next generation of high spatial resolution dynamic SIMS	WEBER, Peter K, Marc DEBLIQUI, Céline DEFOUILLOY, Xavier MAYALI, Ming-Chang LIU, Rachel HESTRIN, Jennifer PETT-RIDGE, Rhona STUART, Megan MORRIS, Christina RAMON, Danielle M JORGENS, Reena ZALPURI, Laurent ARNOLDI, Jérôme FARCY, Nicolas SAQUET, Sarah VITCHER FICHOU, Ludovic RENAUD a Aurélien THOMEN	10.26434/chemrxiv-2024-x1hfm
2024	METHOD	Journal of Analytical Science and Tecnhnology	Hf W dating of zircon in mesosiderite with high pressure sintered standard	Sano,Yuji;Koyama,Yuta;Takahata,Naoto;Matsuzaki,Takuya;Koike, Mizuho;Haba,MakikoK.;Sakata,Shuhei;Kuwahara,Hideharu;Irifune, Tetsuo;	10.1186/s40543-024-00438-0
2024	METHOD	arxiv	Parts-per-billion Trace Element Detection in Anhydrous Minerals by Micro-scale Quantitative NMR	Fu,Yunhua;Tao,Renbiao;Zhang,Lifei;Yang,Yanan;Shen,Dehan;Wang,Zilan;Meier,Thomas;	
2025	METHOD	Journal of Analytical Atomic Spectrometrt	Online correction of matrix effects for boron isotope analysis in tourmaline using nano-secondary-ion mass spectrometry	Dong,Shaohua;Chen,Youwei;Gao,Jian-Feng;Bi,Xianwu;Hu,Ruizhong;	10.1039/D5JA00320B
2025	METHOD	Analytical Chemistry	Low-Background, High-Flatness Mounting Method for In Situ SIMS Isotopic Analysis for Fine-Grained Samples	Gao, Yu-Bing;Hao,Jia-Long;Zhou,Zhan;He,Hui-Cun;Tang,Guo-Qiang;Hu,Sen;Yang,Wei;Lin,Yang-Ting;	10.1021/acs.analchem.5c04185
2025	METHOD	Chemical Geology	Microscale sulfur isotope imaging analysis with NanoSIMS: A new methodology for arbitrary area selection and its application to Archean sedimentary pyrite	Sasaki,Kohei;Ishida,Akizumi;Sugitani,Kenichiro;Takahata,Naoto;	10.1016/j.chemgeo.2025.122770
2025	METHOD	Atomic Spectroscopy	In-situ Micro-scale Analysis of Pyrite Morphology and Sulfur Isotopes in the Cretaceous Lacustrine Shale	Gao,Shuang;Wang,Huajian;Hao,Jialong ;Li,Yong;	10.46770/AS.2025.142
2025	METHOD	JAAS	M332 and MK617: two new potential pyrite reference materials for in situ sulfur isotope analysis	Hao,Jia-Long;Chi,Ruo-Long;Qiu3,Zheng-Jie;Tang,Guo-Qiang;Cui,Ze-Xian;Feng,Lian-Jun;Yan,Hao;Zhu,Qiao-Qiao;Gao,Ping;Yang,Wei;	

2025	METHOD	JAAS	In situ Analysis of Titanium Isotope Ratios in Stardust using LA-CC-MC-ICPMS/MS	Shaw,KathrynM.M.;Pfeifera,Markus;Coatha,BenjaminL.L.;Lewisa,Jamie;Bevana,Dan;Coatha,ChristopherD.;Elliott,Tim;	10.1039/D5JA00068H
2025	METHOD	Journal of Vacuum Science and Technology B	"Canode": A conical partially magnetic anode for efficient negative ion extraction from duoplasmatron ion sources	Williams,Peter;Bose,Maitrayee;Hervig,RichardL.;Nittler,Larry;Williams,LyndaB.;	10.1116/6.0004627
2025	METHOD	Scientific Reports	Restoration of deuterium marker for multi-isotope mapping of cellular metabolic activity	Yamborko,Nadiia ;Schwab, Laura ;Polerecky, Lubos;Davoudpour,Yalda;Berthelot, Hugo;Musat,Niculina;Milferstedt,Kim;Hamelin,Jerome;Richnow,Hans-Hermann;Vogt,Carsten;Stryhanyuk,Hryhoriy;	10.21203/rs.3.rs-7271395/v1
2026	METHOD	Journal of Analytical Atomic Spectrometry	Quantitative analysis of radium-226 at the microscale by NanoSIMS	Darricau, Louise ; Aléon, Jérôme ; Verdier, Maximilien ; Sellier, Virginie ; Gorny, Josselin ; Mostefaoui, Smail ; Jardin, Cyrielle ; Mangeret, Arnaud ; Duverger, Arnaud ; Ait-Ouabbas, Nicolas ; Suhard, David ; Montavon, Gilles ; Gourgiotis, Alkiviadis	10.1039/D5JA00337G
2006	NPs	Science	Colloid transport of Plutonium in the far-field of the Mayak production association, Russia	Novikov,Alexander P.;Kalmykov,Stepan N.;Utsunomiya,Satoshi;Ewing,Rodney C.;Horreard,Francois;Merkulov,Alex;Clark,Sue B.;Tkachev,Vladimir V.;Myasoedov,Boris F.;	10.1126/science.1131307
2007	NPs	Science	Extracellular proteins limit the dispersal of biogenic nanoparticles,v316, p.1600-1604.	Moreau,John W.;Weber,Peter K.;Martin,Michael C.;Gilbert,Benjamin;Hutcheon, Ian D.;Banfield,Jillian F.;	10.1126/science.1141064
2008	NPs	Journal of Applied Microbiology	NanoSIMS 50 elucidation of the natural element composition in structures of cyanobacteria and their exposure to halogen compounds	Eybe,Tanja;Audinot,Jean-Nicolas;Bohn,Torsten;Guignard,Cedric;Migeon,Henri-Noel;Hoffmann,Lucien;	10.1111/j.1365-2672.2008.03870.x
2008	NPs	Analytical & Bioanalytical Chemistry	Dynamic NanoSIMS ion imaging of unicellular freshwater algae exposed to copper	Slaveykova,Vera I.;Guignard,Cedric;Eybe,Tanja;Migeon,Henri-Noel;Hoffmann,Lucien;	10.1007/s00216-008-2486-x
2008	NPs	Journal of Biological Inorganic Chemistry	Microchemical imaging of iodine distribution in the brown alga Laminaria digitata suggests a new mechanism for its accumulation. . JBIC Journal of Biological Inorganic Chemistry February 2008, Volume 13, Issue 2, pp 257-269	Verhaeghe,Elodie Francoise;Fraysse,Aurelien;Guerquin-Kern,Jean-Luc;Wu,Ting-Di;Deves,Guillaume;Mioskowski,Charles;Leblanc,Catherine;Ortega,Richard;Ambroise,Yves;Potin,Philippe;	10.1007/s00775-007-0319-6
2009	NPs	Chemosphere	Uptake visualization of deltamethrin by NanoSIMS and acute toxicity to the water flea Daphnia magna.. Chemosphere 76 (2009) 134–140	Eybe,Tanja;Bohn,Torsten;Audinot,Jean-Nicolas;Udelhoven,Thomas;Cauchie,Henry-Michel;Migeon,Henri-Noel;Hoffmann,Lucien;	10.1016/j.chemosphere.2009.02.005
2012	NPs	Nanoscale	Copper(II) oxide nanoparticles penetrate into HepG2 cells, exert cytotoxicity via oxidative stress and induce pro-inflammatory response.. Nanoscale, 2012,4, 7168-7184.	Piret,Jean-Pascal;Jacques,Diane;Audinot,Jean-Nicolas;Mejia,Jorge ;Boilan,Emmanuelle;Noel,Florence;Fransole,Maude;Demazy,Catherine;Lucas,Stephane;Saout,Christelle;Toussaint,Olivier;	
2013	NPs	Surface and Interface Analysis	Identification and localization of nanoparticles in tissues by mass spectrometry, 45, 230–233	Audinot,Jean-Nicolas;Georgantzopoulou,Anastasia;Piret,Jean-Pascal;Gutleb,Arno C.;Dowsett,David;Migeon,Henri-Noel;Hoffmann,Lucien;	
2013	NPs	Inorganic Chemistry	Plutonium Transport in the Environment, 52 (7), pp 3533–3546	Kersting,Annie B.;	10.1021/ic3018908
2015	NPs	Particle and Fibre Toxicology	Effects of silver nanoparticles and ions on a co-culture model for the gastrointestinal epithelium,vol13,no9	Georgantzopoulou, Anastasia;Serchi,Tommaso;Cambier,Sebastien;Leclercq,Celine C.;Renaut,Jenny;Shao,Jia;Kruszewski,Marcin;Lentzen,Esther;Grysan,Patrick;Eswara,Santhana;Audinot,Jean-Nicolas;Contal,Servane;Ziebel,Johanna;Guignard,Cedric;Hoffman, Lucien;Murk,AlberTinka J.,Gutleb,Arno C.;	
2016	NPs	Nanotoxicology	Cellular internalization and intracellular biotransformation of silver nanoparticles in Chlamydomonas reinhardtii. , Nanotoxicology, 10:8, (2016) 1129-1135, DOI: .1080/17435390.2016.1179809	Wang,Songshan;Lv,Jitao;Ma,Jingyuan;Zhang,Shuzhen	0.1080/17435390.2016.1179809
2016	NPs	Environmental Science & Technology	Plutonium(IV) and (V) Sorption to Goethite at Sub-Femtomolar to Micromolar Concentrations: Redox Transformations and Surface Precipitation	Zhao,Pihong; Begg,James D.; Zavarin,Mavrik; Tumey, Scott J.; Williams,Ross ; Dai,Zurong R.; Kips,Ruth ; Kersting,Annie B.	10.1021/acs.est.6b00605
2016	NPs	Science of The Total Environment	Gammarus fossarum (Crustacea, Amphipoda) as a model organism to study the effects of silver nanoparticles,V566–567, 1 October 2016, Pages 1649–1659	Mehennaoui,Kahina;Georgantzopoulou,Anastasia;Felten,Vincent;Andrei,Jennifer;Garaud,Mael;Cambier,Sebastien;Serchi,Tommaso;Pain-Devin,Sandrine;Guerold,Francois;Audinot,Jean-Nicolas;Giamberini,Laure;Gutleb,Arno C.;	10.1016/j.scitotenv.2016.06.068
2016	NPs	Journal of Nanobiotechnology	Dose-dependent autophagic effect of titanium dioxide nanoparticles in human HaCaT cells at non-cytotoxic levels. . Journal of Nanobiotechnology (2016) 14:22.	Lopes,Viviana R.;Loitto,Vesa;Audinot,Jean Nicolas;Bayat,Narges;Gutleb,Arno C.;Cristobal,Susana;	
2016	NPs	Scientific Reports	Food-grade TiO2 impairs intestinal and systemic immune homeostasis, initiates preneoplastic lesions and promotes aberrant crypt development in the rat colon, 7:40373	Bettini,Sarah;Boutet-Robinet,Elisa;Cartier,Christel;Comera,Christine;Gaultier,Eric;Dupuy,Jacques;Naud,Nathalie;Tache,Sylviane;Grysan,Patrick;Reguer,Solenn;Thieriet,Nathalie;Refregiers,Matthieu;Thiaudiere,Dominique;Cravedi,Jean-Pierre;Carriere,Marie;Audinot,Jean-Nicolas;Pierre,Fabrice H.;Guzylack-Piriou,Laurence;Houdeau,Eric	10.1038/srep40373
2017	NPs	ACS Applied Materials & Interfaces	Biotransformation of Silver Released from Nanoparticle Coated Titanium Implants Revealed in Regenerating Bone, 9 (25), pp 21169–21180	Geng,Hua;Poologasundarampilla,Gowsihan;Todd,Naomi;Devlin-Mullin,Aine;Moore,Katie L.;Golrokhi,Zahra;Gilchrist,James B.;Jones,Eric;Potter,Richard J.;Sutcliffe,Chris;OBrien,Marie;Hukins,David W.L.;Cartmell,Sarah;Mitchell,Christopher A.;Lee,Peter D.;	10.1021/acsami.7b05150
2017	NPs	Environmental Science & Technology	In Situ Subcellular Imaging of Copper and Zinc in Contaminated Oysters Revealed by Nanoscale Secondary Ion Mass Spectrometry, 51 (24), pp 14426–14435	Weng,Nanyan;Jiang,Haibo;Wang,Wen-Xiong;	10.1021/acs.est.7b05090
2017	NPs	PNAS	Uranium(IV) adsorption by natural organic matter in anoxic sediments. . PNAS 2017 114 (4) 711-716; published ahead of print January 9, 2017	Bone,Sharon E.;Dynes,James J.;Cliff,John;Bargar,John R.	
2017	NPs	ACS Nano	Complementary Imaging of Silver Nanoparticle Interactions with Green Algae: Dark-Field Microscopy, Electron Microscopy, and Nanoscale Secondary Ion Mass Spectrometry. ACS Nano, 2017, 11 (11), pp 10894–10902	Sekine,Ryo;Moore,Katie L.;Matzke,Marianne;Vallotton,Pascal;Jiang,Haibo;Hughes,Gareth M.;Kirby,Jason K.;Donner,Erica;Grovenor,Chris R.M.;Svendsen,Claus;Lombi,Enzo;	10.1021/acsnano.7b04556
2018	NPs	Chemosphere	Binding of Cd by ferrihydrite organo-mineral composites: Implications for Cd mobility and fate in natural and contaminated environments. . Chemosphere Volume 207, September 2018, Pages 404-412	Du,Huihui;Peacock,Caroline L.;Chen,Wenli;Huang,Qiaoyun;	10.1016/j.chemosphere.2018.05.092
2018	NPs	Toxicology Letters	SILVER IONS ARE RESPONSIBLE FOR MEMORY IMPAIRMENT INDUCED BY ORAL ADMINISTRATION OF SILVER NANOPARTICLES. Toxicology Letters. Volume 290, 15 June 2018, Pages 133-144 doi.org/10.1016/j.toxlet.2018.03.019	Wesierska,Malgorzata;Dziendzikowska,Katarzyna;Gromadzka-Ostrowska,Joanna;Dudek,Jakub;Polkowska-Motrenko,Halina;Audinot,Jean-Nicolas;Gutleb,Arno C.;Lankoff,Anna;Kruszewski,Marcin;	
2018	NPs	Science of The Total Environment	Do the pristine physico-chemical properties of silver and gold nanoparticles influence uptake and molecular effects on Gammarus fossarum (Crustacea Amphipoda)?, 643, 1200–1215.	Mehennaoui,Kahina;Cambier,Sebastien;Serchi,Tommaso;Ziebel,Johanna;Lentzen,Esther;Valle,Nathalie;Guerold,Francois;Thomann,Jean-Sebastien;Giamberini,Laure;Gutleb,Arno C.;	
2018	NPs	Frontiers in Microbiology	Toxicity of Food-Grade TiO2 to Commensal Intestinal and Transient Food-Borne Bacteria: New Insights Using Nano-SIMS and Synchrotron UV Fluorescence Imaging.	Radziwill-Bienkowska,Joanna M.;Talbot,Pauline;Kamphuis,Jasper B.J.;Robert,Veronique;Cartier,Christel;Fourquaux,Isabelle;Lentzen,Esther;Audinot,Jean-Nicolas;Jamme,Frederic;Refregiers,Matthieu;Bardowski,Jacek K.;Langella, Philippe ;Kowalczyk,Magdalena;Houdeau,Eric;Thomas,Muriel;Mercier-Bonin,Muriel;	10.3389/fmicb.2018.00794.
2019	NPs	Environmental Science & Technology	Novel insights into the role of copper in critical life stages of oysters revealed by high resolution NanoSIMS imaging	Weng,Nanyan;Jiang,Haibo;Wang,Wen-Xiong;	10.1021/acs.est.9b05877
2019	NPs	Science of The Total Environment	Molecular speciation of phosphorus in phosphogypsum waste by solid-state nuclear magnetic resonance spectroscopy. . Science of The Total Environment. , 133958	Jiang,Yunbin;Kwon,Kideok D.;Wang,Shaofeng;Ren,Chao;Lia,Wei;	10.1016/j.scitotenv.2019.133958
2020	NPs	Scientific Reports	Isotopic ratios of uranium and caesium in spherical radioactive caesium-bearing microparticles derived from the Fukushima Daiichi Nuclear Power Plant, 10:3281	Kurihara,Yuichi;Takahata,Naoto;Yokoyama,Takaomi D.;Miura,Hikaru;Kon,Yoshiaki;Takagi,Tetsuichi;Higaki,Shogo;Yamaguchi,Noriko;Sano,Yuji;Takahashi,Yoshio;	10.1038/s41598-020-59933-0
2020	NPs	Environmental Science & Technology	Subcellular imaging of localization and transformation of silver nanoparticles in the oyster larvae	Zhang,Luqing;Jiang,Haibo;Wang,Wen-Xiong	10.1021/acs.est.0c03342
2020	NPs	Environmental Science & Technology	Intra- and Intercellular Silver Nanoparticle Translocation and Transformation in Oyster Gill Filaments: Coupling Nanoscale Secondary Ion Mass Spectrometry and Dual Stable Isotope Tracing Study	Shao,Zishuang;Guagliardo,Paul;Jiang,Haibo;Wang,Wen-Xiong	10.1021/acs.est.0c04621
2020	NPs	Environmental Science & Technology	Complexation by organic matter controls uranium mobility in anoxic sediments	Bone,Sharon E.;Cliff,John;Weaver,Karrie;Takacs,Christopher J.;Roycroft,Scott;Fendorf,Scott;Bargar,John R.;	10.1021/acs.est.9b04741
2021	NPs	Environmental science & technology	NanoSIMS Imaging of Bioaccumulation and Subcellular Distribution of Manganese During Oyster Gametogenesis	Weng,Nanyan;Guagliardo,Paul;Jiang,Haibo;Wang,Wen-Xiong;	10.1021/acs.est.1c02393
2021	NPs	Journal of Environmental Radioactivity	Mass spectrometry – based imaging techniques for iodine-127 and iodine-129 detection and localization in the brown alga Laminaria digitata, v231, 106552	Lebeau,Diane;Leroy,Nathalie;Doizi,Denis;Wu,Ting-Di;Guerquin-Kern,Jean-Luc;Perrin,Laura;Ortega,Richard;Voiseux,Claire;Fournier, Jean-Baptiste;Potin,Philippe;Fievet,Bruno;Leblanc,Catherine;	10.1016/j.jenvrad.2021.106552
2021	NPs	Anaytical Chemistry	Development of Mercury Analysis by NanoSIMS for the Localization of Mercury-Selenium Particles in Whale Liver	Subirana,Maria Angels; Paton,Lhiam;Hall, James ; Brownlow, Andrew; Krupp, Eva M.; Feldmann,Jorg; Schaumloffel,Dirk;	10.1021/acs.analchem.1c02769
2023	NPs	Water Research Available online 22 April 2023, 119990	Structure and composition of natural ferrihydrite nano-colloids in anoxic groundwater	Engel,Maya;Noel,Vincent;Pierce,Samuel;Kovarik,Libor;Kukkadapu, Ravi K.;Pacheco,JuanS.Lezama;Qafoku,Odeta;Runyon,J.Ray;Chorover, Jon;Zhou,Weijiang;Cliff,John;Boye,Kristin;Bargar,John R.	10.1016/j.watres.2023.119990
2024	NPs	Toxicology in Vitro	Ex vivo skin diffusion and decontamination studies of titanium dioxide nanoparticles	Tarantini, Adeline;Jamet-Anselme, Emilie;Lam, Sabine;Haute, Vincent;Suhard, David;Valle, Nathalie;Chamel-Mossuz, Véronique;Bouvier-Capely, Céline;Phan, Guillaume;	10.1016/j.tiv.2024.105918
2025	NPs	Journal of Trace Elements in Medicine and Biology	Uptake, localization and dissolution of barium sulfate nanoparticles in human lung cells explored by the combination of ICP-MS, TEM and NanoSIMS	Subirana,MariaAngels; Thomas,Sarah;Hause,Gerd;Dobritzsch,Dirk;Glahn, Felix;Schaumloffel,Dirk;Herzberg,Martin;	10.1016/j.jtemb.2025.127650
2004	PHARMACOLOGY	Journal of Investigative Dermatology	In-situ imaging mass spectrometry analysis of melanin granules in the human hair shaft. , Journal of Investigative Dermatology 2004, 122, (2), 381-6	Hallegot,Philippe;Peteranderl,Ralph;Lechene,Claude P.;	10.1046/j.0022-202X.2004.22217.x
2004	PHARMACOLOGY	BioMedical Engineering OnLine	Ultra-structural cell distribution of the melanoma marker iodobenzamide: improved potentiality of SIMS imaging in life sciences, 3:10	Guerquin-Kern,Jean-Luc;Hillion,Francois;Madelmont,Jean-Claude;Labarre,Pierre;Papon,Janine;Croisy,Alain	
2006	PHARMACOLOGY	Applied Surface Science	Sub-cellular localisation of a 15N-labelled peptide vector using NanoSIMS imaging, 252,pp6925–6930	Romer,Winfried;Wu,Ting-Di;Duchambon,Patricia; Amessou,Mohamed; Carrez,Daniele;Johannes,Ludger;Guerquin-Kern,Jean-Luc;	10.1016/j.apsusc.2006.02.183
2008	PHARMACOLOGY	Applied Surface Science	Investigation of the cosmetic ingredient distribution in the stratum corneum using NanoSIMS imaging, 255, 1116–1118	Tanji,Noriyuki;Okamoto,Masayuki;Katayama,Y.;Hosokawa,M.;Takahata,N.;Sano,Yuji;	10.1016/j.apsusc.2008.05.187

2008	PHARMACOLOGY	Nuclear Medicine and Biology	Melanoma affinity in mice and immunosuppressed sheep of [(125)I]N-(4-dipropylamino butyl)-4-iodobenzamide, a new targeting agent, 35(7):783-91.	Labarre,Pierre;Papon,Janine; Rose,Alison H.;Guerquin-Kern,Jean-Luc;Morandeau,Laurence;Wu,Ting-Di;Moreau,Marie-France;Bayle,Martine; Chezal,Jean-Michel;Croisy, Alain;Madelmont,Jean-Claude;Turner,Harvey; Moins,Nicole;	10.1016/j.nucmedbio.2008.07.003
2008	PHARMACOLOGY	Journal Of Pharmacology and Experimental Therapeutics	A new O6-alkylguanine-DNA alkyltransferase inhibitor associated with a nitrosourea (cystemustine) validates a strategy of melanoma-targeted therapy in murine B16 and human-resistant M4Beu melanoma xenograft models, 326(1):171–177	Rapp,Maryse;Maurizis,Jean C.;Papon,Janine;Labarre,Pierre;Wu,Ting-Di;Croisy,Alain;Guerquin-Kern,Jean L.;Madelmont,Jean C.;Mounetou,Emmanuelle;	10.1124/jpet.108.137737
2008	PHARMACOLOGY	International Journal of Radiation Biology	Mammalian cells loaded with platinum-containing molecules are sensitized to fast atomic ions. * International Journal of Radiation Biology . Volume 84, Issue 7, 2008.	Usami,Noriko;Furusawa,Yoshiya;Kobayashi,K.; Lacombe, Sandrine;Reynaud-Angelin, A.;Sage,Evelyne;Wu,Ting-Di;Croisy,Alain;Guerquin-Kern,Jean-Luc;Le Sech,Claude;	10.1080/09553000802199846
2009	PHARMACOLOGY	Journal of Cosmetic Science	Copper and calcium uptake in colored hair, 60, 337–345	Smart,K.E.;Kilburn,Matt R.;Schroeder,Markus;Martin,B.G.H.;Hawes,Chris;Marsh,J.M.;Grovenor,Chris R.M.;	
2009	PHARMACOLOGY	International Journal of Cancer	Targeted radionuclide therapy of melanoma: Anti-tumoural efficacy studies of a new 131I labelled potential agent. International Journal of Cancer,125(3),pp708-716	Bonnet-Duquennoy,Mathilde;Papon,Janine;Mishellany,Florence; Labarre,Pierre;Guerquin-Kern,Jean-Luc;Wu,Ting-Di;Gardette,Maryline; Maublant,Jean; Penault-Llorca,Frederique; Miot-Noirault,Elisabeth; Cayre,Anne;Madelmont,Jean-Claude; Chezal,Jean-Michel;Moins,Nicole;	10.1002/ijc.24413
2009	PHARMACOLOGY	Journal of Synchrotron Radiation	Intracerebral delivery of 5-iodo-2'-deoxyuridine in combination with synchrotron stereotactic radiation for the therapy of the F98 glioma. Journal of Synchrotron Radiation, 2009, 16: 573-581	Rousseau,Julia;Adam,Jean-Francois; Deman,Pierre; Wu,Ting-Di; Guerquin-Kern,Jean-Luc;Gouget,Barbara; Barth,Rolf F.;Esteve,Francois; Elleaume,Helene;	10.1107/S0909049509016987
2009	PHARMACOLOGY	European Journal of Medicinal Chemistry	Unusual cellular uptake of cytotoxic 4-hydroxymethyl-3-aminoacridine, 44: 4758–4763	Peixoto,Paul;Zeghida,Walid;Carrez,Daniele;Wu,Ting-Di;Wattez,Nicole;Croisy,Alain;Demeunynck,Martine;Guerquin-Kern,Jean-Luc;Lansiaux,Amelie	10.1016/j.ejmech.2009.06.034
2011	PHARMACOLOGY	Metallomics	Visualising gold inside tumour cells following treatment with an antitumour gold(I) complex. , 3, 917-925	Wedlock,Louise E.;Kilburn,Matt R.;Cliff,John B.;Filqueira,Luis;Saunders,Martin;Berners-Price,Susan J.;	10.1039/c1mt00053e
2011	PHARMACOLOGY	Investigational New Drugs	Evaluation of new iodinated acridine derivatives for a targeted radionuclide therapy of melanoma using 125I, an Auger electron emitter, 29(6):1253-1263. doi: 10.1007/s10637-010-9471-x	Gardette,Maryline;Papon,Janine;Bonnet,Mathilde;Desbois,Nicolas; Labarre,Pierre;Wu,Ting-Di;Miot-Noirault,Jean-Claude;Madelmont,Elisabeth;Guerquin-Kern,Jean-Luc;Chezal,Jean-Michel;Moins,Nicole;	10.1007/s10637-010-9471-x
2013	PHARMACOLOGY	Colloids and surfaces B: Biointerfaces	Dyeing regions of oxidative hair dyes in human hair investigated by nanoscale secondary ion mass spectrometry	Kojima,Toru;Yamada,Hiromi;Yamamoto,Toshihiko;Matsushita,Yasuyuki;Fukushima,Kazuhiko;	10.1016/j.colsurfb.2013.01.028
2013	PHARMACOLOGY	Chemical Communications	NanoSIMS multi-element imaging reveals internalisation and nucleolar targeting for a highly-charged polynuclear platinum compound, 2013,49, 6944-6946	Wedlock,Louise E.;Kilburn,Matt R.;Liu,Rong;Shaw,Jeremy A;Berners-Price,Susn J.;Farrell,Nicholas P.	10.1039/C3CC42098A
2014	PHARMACOLOGY	Skin Research and Technology	Compositional changes of human hair melanin resulting from bleach treatment investigated by nanoscale secondary ion mass spectrometry	Kojima,Toru;Yamada,Hiromi;Isobe,Mitsuru;Yamamoto,Toshihiko;Takeuchi,Miyuki;Aoki,Dan;Matsushita,Yasuyuki;Fukushima,Kazuhiko	10.1111/srt.12133
2014	PHARMACOLOGY	Investigational New Drugs	Evaluation of two 125I-radiolabeled acridine derivatives for Auger-electron radionuclide therapy of melanoma. , 2014: 32(4):587-597	Gardette,Maryline;Viallard,Claire;Paillas,Salome;Guerquin-Kern,Jean-Luc;Papon,Janine;Moins,Nicole;Labarre,Pierre;Desbois,Nicolas; Wong-Wah-Chung,Pascal;Palle,Sabine;Wu,Ting-Di;Pouget,Jean-Pierre;Miot-Noirault,Elisabeth;Chezal,Jean-Michel;Degoul,Francoise	10.1007/s10637-014-0086-5
2014	PHARMACOLOGY	Chemical Science	NanoSIMS combined with fluorescence microscopy as a tool for subcellular imaging of isotopically labeled platinum-based anticancer drugs, 5, 3135.	Legin,Anton A.;Schintlmeister,Arno;,Jakupec,Michael A.;Galanski,Markus;Lichtscheidl,Irene;Wagner,Michael;Keppler,Bernhard K.	
2015	PHARMACOLOGY	Skin Research and Technology	Investigation of dyeing behavior of oxidative dye in fine structures of the human hair cuticle by nanoscale secondary ion mass spectrometry, V21, Issue 3, pages 295–301, August 2015	Kojima,Toru;Yamada,H. ;Saito, Y. ;Nawa, T. ;Isobe, M. ;Yamamoto, T. ;Aoki, Dan ;Matsushita,Y.;Fukushima,Kazuhiko;	
2015	PHARMACOLOGY	Chemical Communications	NanoSIMS analysis of an isotopically labelled organometallic ruthenium(II) drug to probe its distribution and state in vitro, 23 September 2015.	Lee,Ronald F.S.;Escrig,Stephane;Croisier,Marie;Clerc-Rosset,Stephanie;Knott,Graham W.;Meibom,Anders;Davey,Curt A.;Johnssona,Kai;Dyson,Paul J.	10.1039/c5cc06983a
2016	PHARMACOLOGY	Journal of Sol-gel Science Technology	Discovery of a sol-gel reinforcing the strenghth of hair structure: mechanisms of action and macroscopic effects on the hair	Hallegot,P.;Hussler,G.;Jeanne-Rose,V.;Leroy,F.;Pineau,P.;Samain,H.	10.1007/s10971-016-3961-z
2016	PHARMACOLOGY	ACS Nano	Cellular Delivery of Nanoparticles Revealed with Combined Optical and Isotopic Nanoscopy, 2016, 10, 4046-4054.	Proetto,Maria T.;Anderton,Christopher R.;Hu,Dehong;Szymanski,Craig J.;Zhu,Zihua;Patterson,Joseph P.;Kammeyer,Jacquelin K.;Nilewski,Lizanne G.;Rush,Anthony M.;Bell,Nia C.;Evans,James E.;Orr,Galya;Howell,Stephen B.;Gianneschi,Nathan C.	
2016	PHARMACOLOGY	Biomaterials	Enabling dual cellular destinations of polymeric nanoparticles for treatment following partial injury to the central nervous system, Volume 74, January 2016, Pages 200-216.	Lozic,I.;Hartz,R.V.;Bartlett,Carole A.; Shaw,Jerrmy A.;Archer,Michael; Naidu,P.S.R. ;Smith,Nicole Maria;Dunlop,Sarah A.; Iyer,Swaminathan P.;Kilburn,Matt R.;Fitzgerald,Melinda;	10.1016/j.biomaterials.2015.10.001
2016	PHARMACOLOGY	Chemical Science	Multi-scale imaging of anticancer platinum(IV) compounds in murine tumor and kidney	Legin,A. A. ;Theiner, S.;Schintlmeister,A.;Reipert,S.; Heffeter, P.; Jakupec,M. A.; Mayr,J.;Varbanov, H. P. ; Kowol,C. R.; Galanski, M.; Berger,W.; Wagner,M. ;Keppler,B. K.	10.1039/c5sc04383b
2017	PHARMACOLOGY	Chemical Communications	High-resolution sub-cellular imaging by correlative NanoSIMS and electron microscopy of amiodarone internalisation by lung macrophages as evidence for drug-induced phospholipidosis, 53, 1506-1509	Jiang,Haibo;Passarelli,Melissa K.;Munro,Peter M. G.;Kilburn,Matt R.;West,Andrew;Dollery,Colin T.;Gilmore,Ian S.;Rakowska,Paulina D.	10.1039/C6CC08549K
2017	PHARMACOLOGY	Metallomics	Differences in cisplatin distribution in sensitive and resistant ovarian cancer cells: a TEM/NanoSIMS study,9, 1413-1420	Lee,Ronald F.S.;Riedel,Tina;Escrig,Stephane;Maclachlan,Catherine;Knott,Graham W.;Davey,Curt A.;Johnsson,Kai;Meibom,Anders;Dyson,Paul J.	10.1039/C7MT00153C
2017	PHARMACOLOGY	International journal of molecular sciences	The Differential Distribution of RAPTA-T in Non-Invasive and Invasive Breast Cancer Cells Correlates with Its Anti-Invasive and Anti-Metastatic Effects,18, 2017	Lee,Ronald F.S.;Escrig,Stephane;Maclachlan,Catherine;Knott,Graham W.;Meibom,Anders;Sava,Gianni;Dyson,Paul J.	10.3390/ijms18091869
2017	PHARMACOLOGY	Journal of Molecular Biology and Molecular Imaging	Chemical Imaging by NanoSIMS Provides High- Resolution Localization of the Gquadruplex Interactive Drug (Br)-PhenDC3 on Human Chromosomes : 4 : 1029	Verga D.; Hamon F.; Nicoleau C.; Guetta C.;Wu,Ting-Di;Guerquin-Kern,Jean-Luc; Marco S.; Teulade-Fichou M.-P	
2017	PHARMACOLOGY	Neoplasia	Theranostic Approach for Metastatic Pigmented Melanoma Using ICF15002, a Multimodal Radiotracer for Both PET Imaging and Targeted Radionuclide Therapy,v19, Issue 1, pp17–27	Rbah-Vidal,Latifa;Vidal,;Billaud,Emilie M.F.;Besse,Sophie;Ranchon-Cole,Isabelle;Mishellany,Florence;Perrot,Yann;Maigne,Lydia;Moins,Nicole;Guerquin-Kern,Jean-Luc;Degoul,Francoise;Chezal,Jean-Michel;Auzeloux,Philippe;Miot-Noirault,Elisabeth	10.1016/j.neo.2016.11.001
2018	PHARMACOLOGY	International Journal of Cosmetic Science	Effect of zein additive on perfume evaporation	Cabin Flaman,Armelle;Delaune, Anthony ;Poutrain, P. ;Gangwe Nana,Ghislain;Jourdain, Benoit ;Gibouin, David ;Paris, J.P. ;Trestour, S. ;Seigneuret, J.M. ;Leopoldes de Vendomois, A. ;Cosette, P. ;Etienne, J.J. ;Ripoll, C.	10.1111/ics.12500
2018	PHARMACOLOGY	ACS Central Science	Tumor Retention of Enzyme-Responsive Pt(II) Drug-Loaded Nanoparticles Imaged by Nanoscale Secondary Ion Mass Spectrometry and Fluorescence Microscopy	Proetto,Maria T.;Callmann,Cassandra E.;Cliff,John;Szymanski,Craig J.;Hu,Dehong;Howell,Stephen B.;Evans,James E.;Orr,Galya;Gianneschi,Nathan C.	10.1021/acscentsci.8b00444
2018	PHARMACOLOGY	Biomacromolecules	Cellular Uptake and Intracellular Trafficking of Poly(N-(2-Hydroxypropyl) Methacrylamide)	Battistella,Claudia;Guiet,Romain;Burri,Olivier;Seitz,Arne;Escrig,Stephane;Knott,Graham W.;Meibom,Anders;Klok,Harm-Anton	10.1021/acs.biomac.8b01372
2018	PHARMACOLOGY	Angewandte Chemie International Edition	Anti Tumor Bis(N heterocyclic carbene)Platinum(II) Complex Engages Asparagine Synthetase as an Anti cancer Target.	Hu,Di;Yang,Chen;Lok,Chun-Nam;Xing,Fangrong;Lee,Pui-Yan;Fung,Yi Man Eva; Jiang,Haibo; Che,Chi-Ming	10.1002/anie.201904131
2018	PHARMACOLOGY	Bioorganic & Medicinal Chemistry	Design, Synthesis, Biological Evaluation and Cellular Imaging of Imidazo[4,5-b]pyridine Derivatives as Potent and Selective TAM inhibitors.	Baladi,Tom;Aziz,Jessy;Dufour,Florent;Abet,Valentina;Stoven,Veronique;Radvanyi,Francois;Poyer,Florent;Wu,Ting-Di;Guerquin-Kern,Jean-Luc;Bernard-Pierrot,Isabelle;Garrido,Sergio Marco;Piguel,Sandrine	10.1016/j.bmc.2018.09.031
2019	PHARMACOLOGY	Science	Subcellular antibiotic visualization reveals a dynamic drug reservoir in infected macrophages?364,1279–1282	Greenwood,Daniel J.;DosSantos,Mariana Silva;Huang,Song;Russell,Matthew R. G.;Collinson,Lucy M.;MacRae,James I.;West,Andy;Jiang,Haibo;Gutierrez,Maximiliano G.;	10.1126/science.aat9689
2019	PHARMACOLOGY	Colloids and Surfaces B: Biointerfaces	High-resolution visualization of cosmetic active compounds in hair using nanoscale secondary ion mass spectrometry, v 174, 1, p563-568	Marsh,Jennifer M.;Huang,Song;Whitaker,Shane;Guagliardo,Paul;Lucas,Robie;Cigdem Arca,Hale;Jiang,Haibo	10.1016/j.colsurfb.2018.11.036
2019	PHARMACOLOGY	Analyst	Microdistribution and quantification of the boron neutron capture therapy drug BPA in primary cell cultures of human glioblastoma tumour by NanoSIMS	Aldossari,Samar;McMahon,Greg;Lockyer,Nicholas P.;Moore,Katie L.	10.1039/C9AN01336A
2020	PHARMACOLOGY	PLOS Biology	Correlative light electron ion microscopy reveals in vivo localisation of bedaquiline in Mycobacterium tuberculosis–infected lungs	Fearns,Antony;Greenwood,Daniel J.;Rodgers,Angela;Jiang,Haibo;Gutierrez,Maximiliano G.;	10.1371/journal.pbio.3000879
2020	PHARMACOLOGY	ACS Nano	Sub-Cellular Mass Spectrometry Imaging and Absolute Quantitative Analysis across Organelles	Thomen,Aurelien;Najafinobar,Neda;Penen,Florent;Kay,Emma;Upadhyay,Pratik P.;Li,Xianchan;Phan,Nhu T.N.; Malmberg,Per;Klarqvist,Magnus;Andersson,Shalini;Kurczy,Michael E.;Ewing,Andrew G.	10.1021/acsnano.9b09804
2020	PHARMACOLOGY	PNAS	An anticancer gold(III)-activated porphyrin scaffold that covalently modifies protein cysteine thiols	Tong,Ka-Chung;Lok,Chun-Nam;Wan,Pui-Ki;Hu,Di;Fung,Yi Man Eva;Chang,Xiao-Yong;Huang,Song;Jiang,Haibo;Che,Chi-Ming	10.1073/pnas.1915202117
2020	PHARMACOLOGY	Nanotechnology, Science and Applications	Green One-Step Synthesis of Medical Nanoagents for Advanced Radiation Therapy,13 61–76.	Salado-Leza,Daniela; Porcel,Erika;Yang,Xiaomin;Stefancíkova,Lenka;Bolsa-Ferruz,Marta; Savina,Farah;Dragoe,Diana;Guerquin-Kern,Jean-Luc;Wu,Ting-di;Hirayama,Ryoichi;Remita,Hynd;Lacombe,Sandrine	10.2147/NSA.S257392
2021	PHARMACOLOGY	Russ J Org Chem	Synthesis of a Deuterium-Labeled Globotriaosylceramide Probe for Potential Imaging of Subcellular Localization of Gb3 Using NanoSIMS,57, 1719–1724	Aly,M.R.E.; ElAzab, I.H.	10.1134/S1070428021100213
2021	PHARMACOLOGY	International Journal of Polymeric Materials and Polymeric Biomaterials	Dextran-based matrix functionalization to promote WJ-MSCs amplification: synthesis and characterization	Vandeberg,Romain;Grysan,Patrick; Sion,Caroline;Wlodarczyk-Biegun,Malgorzata Katarzyna;Lentzen,Esther;Bour,Jerome;Krishnamoorthy,Sivashankar; Olmo,Erics; Grandfils,Christian	10.1080/00914037.2021.2006657
2021	PHARMACOLOGY	Nucleic Acids Research	High-resolution visualization and quantification of nucleic acid–based therapeutics in cells and tissues using Nanoscale secondary ion mass spectrometry (NanoSIMS)	He,Cuiwen; Migawa,Michael T.;Chen,Kai ;Weston,Thomas A.;Tanowitz,Michael;Song,Wenxin;Guagliardo,Paul;Iyer,K. Swaminathan;Bennett,C. Frank;Fong,Loren G.;Seth,Punit P.;Young,Stephen G.;Jiang,Haibo	10.1093/nar/gkaa1112

2021	PHARMACOLOGY	Angewandte Chemie International Edition	Interaction with ribosomal proteins accompanies ER stress induction of the anticancer metallodrug BOLD-100/KP1339	Neuditschko,Benjamin;Legin,Anton A.;Baier,Dina;Schintlmeister,Arno;Reipert,Siegfried;Wagner,Michael;Keppler,Bernhard K.;Berger,Walter;Meier-Menches,Samuel M.;Gerner,Christopher	10.1002/anie.202015962
2021	PHARMACOLOGY	Nanoscale Advances	Nano-scale imaging of dual stable isotope labeled oxaliplatin in human colon cancer cells reveals the nucleolus as a putative node for therapeutic effect	Legin,Anton A.;Schintlmeister,Arno;Sommerfeld,Nadine S.;Eckhard,Margret;Theiner,Sarah;Reipert,Siegfried;Strohhofer,Daniel;Jakupec,Michael A.;Galanski,Markus;Wagner,Michael;Keppler,Bernhard K.	10.1039/d0na00685h
2022	PHARMACOLOGY	Analytical Chemistry	Intracellular Absolute Quantification of Oligonucleotide Therapeutics by NanoSIMS	Becquart,Cecile;Stulz,Rouven;Thomen,Aurelien;Dost,Maryam;Najafinobar,Neda;Dahlen,Anders;Andersson,Shalini;Ewing,Andrew G.;Kurczy,Michael E.;	10.1021/acs.analchem.2c02111
2022	PHARMACOLOGY	Analytical Chemistry	Subcellular Partitioning of Arsenic Trioxide Revealed by Label-Free Imaging	Huang, Song;Chen, Kai;Leung, Jong-Kai;Guagliardo, Paul;Chen, Weihua;Song, Wenxin;Clode, Peta;Xu, Jiake;Young, Stephen G.;Jiang, Haibo;	10.1021/acs.analchem.2c02770
2022	PHARMACOLOGY	Diabetes	Elevated Adipocyte Membrane Phospholipid Saturation Does not Compromise Insulin Signaling	Palmgren, Henrik;Petkevicius, Kasparas;Bartesaghi, Stefano;Ahnmark, Andrea;Ruiz, Mario;Nilsson, Ralf;Lofgren, Lars;Glover, Matthew S.;Andreasson, Anne-Christine;Andersson, Liselotte;Becquart, Cecile;Kurczy, Michael;Kull, Bengt;Wallin, Simonetta;Karlsson, Daniel;Hess, Sonja;Maresca, Marcello;Bohlooly-Y, Mohammad;Peng, Xiao-Rong;Pilon, Marc	10.2337/db22-0293
2022	PHARMACOLOGY	International Journal of Cardiology	Design and rationale of a clinical trial to increase cardiomyocyte division in infants with tetralogy of Fallot	ElKhoudary,Samar R.;Fabio,Anthony;Yester,Jessie W.;Steinhauser,Matthew L.;Christopher,Adam B.;Gyngard,Frank;Adams,Phillip S.;Morell,Victor O.;Viegas,Melita ;DaSilva,Jose P.;DaSilva,Luciana F.;Castro-Medina,Mario;McCormick,Andrew;Reyes-Mugica,Miguel;Barlas,Michelle;Liu,Honghai;Thomas,Dawn;Ammanamanchi,Niyatie;Sada,Rachel;Cuda,Megan;Hartigan,Elizabeth;Groscost,David K.;Kuhn,Bernhard;	10.1016/j.ijcard.2021.07.020
2022	PHARMACOLOGY	Pharmaceutics	NanoSIMS imaging reveals the impact of ligand-ASO conjugate stability on ASO subcellular distribution	Kay,Emma;Stulz,Rouven;Becquart,Cecile;Lovric,Jelena;Tangemo, Carolina;Thomen,Aurelien;Bazdarevic,Dzenita;Najafinobar,Neda;Dahlen,Anders;Pielach,Anna;Fernandez-Rodriguez,Julia;Stromberg,Roger;Ammala,Carina;Andersson,Shalini;Kurczy,Michael;	10.3390/pharmaceutics14020463
2024	PHARMACOLOGY	International Journal Of Cosmetic Science	Penetration of oils into hair	Marsh,Jennifer M. ;Whitaker, Shane ;Felts,Tim ;Cowans, Chris ;Gupta,Shikhar;Masirevic,Srdan ;Fang, Rui ;Simmonds, Monique S. J. ;Chen, Gu ;Jiang, Haibo;	10.1111/ics.1297
2024	PHARMACOLOGY	Chemical Science	High-Resolution Visualisation of Antisense Oligonucleotide Release from Polymers in Cells□	King,JessicaJane;Chen,Kai;Evans,CameronW.;Norret,Marck;Almasri,Ruba;Pavlos,Nathan;Hui,Henry;Lin,Qiongxiang;Bhatt,Uditi;Young,StephenG.;Smith,NicoleM.;Nikan,Mehran;Prestidge,Clive;Jiang,Haibo;Iyer,Swaminathan;	10.1039/x0xx00000x
2024	PHARMACOLOGY	bioarxiv	Variation in drug penetration does not account for the natural resistance of Mycobacterium abscessus biofilms to antibiotic	Akwani,Winifred C.;Rakowska,Paulina;Gilmore,Ian;Chambers,Mark;McMahon,Greg ;Hingley-Wilson,Suzie;	10.1101/2024.04.16.589735
2024	PHARMACOLOGY	bioarxiv	Variation in drug penetration does not account for the natural resistance 2 of Mycobacterium abscessus biofilms to antibiotic	Akwani,Winifred C.;Rakowska,Paulina ;Gilmore, Ian;Chambers,Mark;McMahon,Greg;Hingley-Wilson,Suzie;	10.1101/2024.04.16.589735
2024	PHARMACOLOGY	Bioconjugate Chemistry	Incorporation of Intracellular NanoSIMS Tracers to Oligonucleotide Conjugates via Strain Promoted Sydnone−Alkyne Cycloaddition	Lincy-Bianchi, Loujahine;Häfner, Maximilian;Becquart, Cécile;Tängemo, Carolina;Kurczy, Michael E.;Munier, Claire C.;Knerr, Laurent	10.1021/acs.bioconjchem.4c00068
2025	PHARMACOLOGY	International Journal of Cosmetic Science	Strengthening benefits of panthenol for hair: Mechanistic evidence from advanced spectroscopic techniques	Marsh,Jennifer M.;Cron,Scott;Chen,Tian;Talley,Allison;Whitaker,Shane;Jiang,Haibo;Xue,Kai;	10.1111/ics.70024
2025	PHARMACOLOGY	Nucleic Acid Therapeutics	Unveiling Liver Micro-Distribution: NanoSIMS Imaging Reveals Critical Intracellular Distribution of Chemically Modified Antisense Oligonucleotides	Yasuhara,Hidenori;Kadotsuji,Kenta;Watanabe,Kenichi;Kakutani,Tomomi;Tochitani,Tomoaki;Mise,Izuru;Konishi,Mei;Nakagawa,Tetsuya;Miyawaki,Izuru;	10.1177/21593337251399181
2003	PLANETOLOGY	Geochemica et Cosmochemica Acta	A NanoSIMS study of Si- and Ca-Ti-isotopic compositions of presolar silicon carbide grains from supernovae. . , Vol. 67, No 24, pp. 4693-4703, 2003	Besmehn, Astrid;Hoppe,Peter;	10.1016/S0016-7037(03)00239-4
2003	PLANETOLOGY	Science	Samples of stars beyond the solar system: silicates grains in Interplanetary dust. . , Vol. 300, Issue 5616, 105-108, April 4, 2003	Messenger, Scott; Keller,Lindsay P.; Stadermann,Frank J.;Walker,Robert M .;Zinner,Ernst;	10.1126/science.1080576
2003	PLANETOLOGY	Science	Polytype Distribution in Circumstellar Silicon Carbide, 1852-1855.	Daulton, Tyrone L.;Bernatowicz,T. J.;Lewis, Roy S. ;Messenger,Scott;Stadermann, Frank J.;Amari, Sachiko;	10.1126/science.1071136
2004	PLANETOLOGY	SCIENCE	Carbon and nitrogen isotopic anomalies in an anhydrous interplanetary dust particle. . , Vol 303, 27 February 2004, p.1355 -1358	Floss,Christine;Stadermann,Frank J.;Bradley,John ;Dai, Zu Rong ;Bajt,Sasa;Graham,Giles;	
2004	PLANETOLOGY	Science	Discovery of ancient silicate stardust in a meteorite. , Vol.303 , 5 March 2004, p.1496-1499	Nguyen,Ann N.;Zinner,Ernst;	10.1126/science.1094389
2005	PLANETOLOGY	The Astrophysical Journal	60Fe: a heat source for planetary differentiation from a nearby supernovae explosion, 625:271-277	Mostefaoui,Smail;Lugmair,Gunter W. ;Hoppe,Peter;	
2005	PLANETOLOGY	Science	Supernova olivine from cosmetary dust. . , Vol. 309, 29 July 2005, p.737-741	Messenger,Scott;Keller,Lindsay.P.;Lauretta,Dante S.;	
2005	PLANETOLOGY	Science	An Astronomical 2175 Å Feature in Interplanetary Dust Particles. . 14 January 2005: 244-247.	Bradley,John;Dai, Zu Rong ;Erni, Rolf;Browning, Nigel ;Graham, Giles ;Weber,Peter K.;Smith,Julie ;Hutcheon, Ian ;Ishii, Hope ;Bajt,Sasa ;Floss, Christine ; Stadermann,Frank ;Sandford,Scott ;	
2005	PLANETOLOGY	Geochimica and Cosmochimica Acta	Supernova graphite in the NanoSIMS: Carbon, oxygen and titanium isotopic compositions of a spherule and its TiC sub-components.. , Vol.69, No.1, 2005	Stadermann,Frank J.;Croat,Thomas K.;Bernatowicz, T.J.;Amari, Sachiko;Messenger,Scott;Walker,Robert M.;Zinner,Ernst;	10.1016/j.gca.2004.06.017
2005	PLANETOLOGY	Nature	Timescales of shock processes in chondritic and martian meteorites. . NATURE, Vol. 435 , 23 June 2005	Beck,Pierre;Gillet, Philippe;El Goresy, Ahmed;Mostefaoui,Smail;	
2006	PLANETOLOGY	Science	Organics Captured from Comet 81P/Wild 2 by the Stardust Spacecraft	Sandford,Scott A.;Aleon,Jerome;Alexander,Conel M.O'D.;Araki,Tohru;Bajt,Sasa ;Baratta,Giuseppe A.;Borg,Janet;Bradley,John P.;Brownlee,Donald E.;Brucato,John R.;Burchell,Mark J.;Busemann,Henner;Butterworth,Anna;Clemett,Simon J.;Cody,George;Colangeli,Luigi;Cooper,George;D'Hendecourt,Louis ;Djouadi,Zahia;Dworkin,Jason P.;Ferrini,Gianluca;Fleckenstein,Holger;Flynn,George J.;Franchi,Ian A.;Fries,Marc;Gilles,Mary K.;Glavin,Daniel P.;Gounelle,Matthieu;Grossemy,Faustine;Jacobsen,Chris;Keller,Lindsay P.;Kilcoyne,A. L. David;Leitner,Jan;Matrajt,Graciela;Meibom,Anders;Mennella,Vito;Mostefaoui,Smail;Nittler,Larry R.;Palumbo,Maria E.;Papanastassiou,Dimitri A.;Robert,Francois;Rotundi,Alessandra;Snead,Christopher J.;Spencer, Maegan K.;Stadermann,Frank J.;Steele,Andrew;Stephan,Thomas ;Tsou,Peter;Tyliszczak,Tolek;Westphal,Andrew J.;Wirick, Sue;Wopenka,Brigitte;Yabuta,Hikaru;Zare,Richard N.;Zolensky,Michael E.;	10.1126/science.1135841
2006	PLANETOLOGY	Science	Isotopic compositions of cometary matter returned by Stardust. . vol 314, 15dec 2006, p. 1724- 1728	McKeegan, Kevin D.;Aleon, Jerome;Bradley, John;Brownlee, Donald;Busemann, Henner;Butterworth, Anna;Chaussidon, Marc;Fallon, Stewart;Floss, Christine;Gilmour, Jamie;Gounelle, Matthieu;Graham, Giles;Guan, Yunbin;Heck, Philipp R.;Hoppe, Peter;Hutcheon, Ian D.;Huth, Joachim;Ishii, Hope;Ito, Motoo;Jacobsen, Stein B.;Kearsley, Anton;Leshin, Laurie A.;Liu, Ming-Chang;Lyon, Ian;Marhas, Kuljeet;Marty, Bernard;Matrajt, Graciela;Meibom, Anders;Messenger, Scott;Mostefaoui, Smail;Mukhopadhyay, Sujoy;Nakamura-Messenger, Keiko;Nittler, Larry;Palma, Russ;Pepin, Robert O.;Papanastassiou, Dimitri A.;Robert, Francois;Schlutter, Dennis;Snead, Christopher J.;Stadermann, Frank J.;Stroud, Rhonda;Tsou, Peter;Westphal, Andrew;Young, Edward D.;Ziegler, Karen;Zimmermann, Laurent;Zinner, Ernst;	
2006	PLANETOLOGY	Science	Interstellar chemistry recorded in organic matter from primitive meteorites,v312,5,p727-730	Busemann,Henner;Young,Andrea F.;Alexander,Conel M.O'D.;Hoppe,Peter;Mukhopadhyay,Sujoy;Nittler,Larry R.;	10.1126/science.1123878
2006	PLANETOLOGY	Science	Organic Globules in the Tagish Lake Meteorite: Remnants of the Protosolar Disk,1439-1442.	Nakamura-Messenger,Keiko;Messenger,Scott ;Keller, Lindsay P. ;Clemett, Simon J. ;Zolensky,Michael E. ;	
2007	PLANETOLOGY	Meteoritics and Planetary Science	High spatial resolution ion microprobe measurements refine chronology of carbonate formation in Orgueil. . Meteoritics & Planetary Science 42, Nr 7/8, 1309–1320 (2007)	Hoppe,Peter;Macdougall,Doug;Lugmair,Gunter W.;	
2007	PLANETOLOGY	The Astrophysical Journal	Nitrogen and carbon isotopic composition of the sun inferred from a high-temperature solar nebular condensate. . The Astrophysical Journal, 656: L33-L36, 2007 Feb. 10.	Meibom,Anders;Krot, Alexander N;Robert,Francois;Mostefaoui,Smail; Russell,Sara S.;Petaev, M.I. ;Gounelle, Matthieu;	
2007	PLANETOLOGY	Geochimica et Cosmochimica Acta	NanoSIMS isotopic analysis of small presolar grains: Search for Si3N4 grains from AGB stars and Al and Ti isotopic compositions of rare presolar SiC grains,71,4786–4813	Zinner,Ernst;Amari,Sachiko ;Guinness, Robert ;Jennings, Cristine ;Mertz,Aaron F. ;Nguyen, Ann N. ;Gallino,Roberto ;Hoppe, Peter ;Lugaro, Maria ;Nittler, Larry R. ;Lewis, Roy S. ;	
2008	PLANETOLOGY	Nature	Volatile content of lunar volcanic glasses and the presence of water in the Moon's interior. . NATURE, Vol 454, 10 July 2008, p.192-195	Saal,Alberto E.;Hauri,Erik H.;Lo Cascio,Mauro;Van Orman,James A.;Rutherford,Malcolm C.;Cooper,Reid F.;	10.1038/nature07047
2008	PLANETOLOGY	The Astrophysical Journal	CIRCUMSTELLAR Fe OXIDE FROM THE ACFER 094 CARBONACEOUS CHONDRITE, 672:1266-1271	Floss,Christine;Stadermann,Frank J.;Bose,Maitrayee;	
2008	PLANETOLOGY	The Astrophysical Journal	Si isotopic composition of presolar silicate grains from red giant stars and supernovae, 684:611Y617	Vollmer,Christian;Hoppe,Peter;Brenker,Frank E.;	
2008	PLANETOLOGY	Meteoritics and Planetary Science	Carbon investigation of two Stardust particles: A TEM, NanoSIMS, and XANES study,v43,315-334	Matrajt,Graciela; Ito,Motoo;Wirick,Sue;Messenger,Scott;Brownlee,Donald E.;Joswiak,Dave J.; Flynn, George;Sandford,Scott A.;Snead,Christopher J.;Westphal,Andrew J.;	
2009	PLANETOLOGY	Earth and Planetary Science Letters	Ultra-primitive interplanetary dust particles from the comet 26P/Grigg–Skjellerup dust stream collection	Busemann,Henner;Nguyen, Ann N.;Cody,George D.;Hoppe,Peter;Kilcoyne,A.L. David;Stroud,Rhonda M.;Zega,Thomas J.;Nittler,Larry R.;	
2009	PLANETOLOGY	The Astrophysical Journal	Proto-Planetary Disk Chemistry Recorded By D-Rich Organic Radicals In Carbonaceous Chondrites,698,2087-2092	Remusat,Laurent;Robert,Francois;Meibom,Anders;Mostefaoui,Smail;Delpoux,Olivier;Binet,Laurent;Gourier,Didier;Derenne,Sylvie;	

2009	PLANETOLOGY	PNAS	Pristine extraterrestrial material with unprecedented nitrogen isotopic variation. . PNAS 2009, doi:10.1073/pnas.0900197106	Briani,Giacomo;Gounelle,Matthieu;Marrocchi,Yves;Mostefaoui,Smail;Leroux,Hughes;Quirico,Eric;Meibom,Anders;	
2009	PLANETOLOGY	The Astrophysical Journal	An unusual presolar silicon carbide grain from a supernova: implication for the production of silicon-29 in type-II supernovae, 691:L20–L23, 2009 January 20	Hoppe,Peter;Leitner, Jan ;Meyer,Bradley S. ;The, Lih-Sin ;Lugaro, Maria ;Amari,Sachiko ;	
2010	PLANETOLOGY	Science	Extreme Deuterium Excesses in Ultracarbonaceous Micrometeorites from Central Antarctic Snow, v328, p. 742 - 745	Duprat,Jean;Dobrica,Elena;Engrand,Cecile;Aleon,Jerome;Marrocchi,Yves;Mostefaoui;Smail;Meibom,Anders;Leroux, Hughes;Rouzaud, Jean-Noel;Gounelle,Matthieu;Robert,Francois;	
2010	PLANETOLOGY	The Astrophysical Journal	Neutron-rich chromium isotope anomalies in supernova nanoparticles. The Astrophysical Journal, 720:1577–1591, 2010. doi:10.1088/0004-637X/720/2/1577	Dauphas, Nicoals;Remusat, Laurent;Chen,J.H. ,Roskosz, Matthieu;Papanastassiou, D.A. ;Stodolna,Julien;Guan, Yunbin;Ma, C.;Eiler,John M.;	
2010	PLANETOLOGY	SCIENCE	Constraints on the Formation Age of Cometary Material from the NASA Stardust Mission.	Matzel,Jennifer E.P. ;Ishii, Hope A.;Joswiak, Dave J.;Hutcheon, Ian D.;Bradley, John P. ;Brownlee,Donald E.;Weber,Peter K.;Teslich,N. ;Matrajt,Graciela; McKeegan,Kevin D.;MacPherson,Glenn J. ;	10.1126/science.1184741
2010	PLANETOLOGY	The Astrophysical Journal	Isotopic Analysis of Supernova Sic and Si3N4 Grains from the Qingzhen (EH3) Chondrite. The Astrophysical Journal, 709:1157–1173, 2010 February	Lin,Yangting;Gyngard,Frank;Zinner,Ernst;	
2010	PLANETOLOGY	Astrophysical Journal	Coordinated Analyses of Presolar Grains in the Allan Hills 77307 and Queen Elizabeth Range 99177 Meteorites. 719 (2010) 166-189. DOI: 10.1088/0004-637X/719/1/166	Nguyen,Ann N.;Nittler,Larry R.;Stadermann,Frank J.;Stroud,Rhonda M.;Alexander,Conel M.O'D.;	
2010	PLANETOLOGY	The Astrophysical Journal	ACCRETION AND PRESERVATION OF D-RICH ORGANIC PARTICLES IN CARBONACEOUS CHONDRITES: EVIDENCE FOR IMPORTANT TRANSPORT IN THE EARLY SOLAR SYSTEM NEBULA. The Astrophysical Journal, 713:1048–1058, 2010 April 20	Remusat,Laurent;Guan,Yunbin;Wang, Y.;EilerJohn M.,	
2010	PLANETOLOGY	11th Symposium on Nuclei in the Cosmos	A promising method to obtain more accurate Mg isotope compositional data on presolar silicate particles. . , NIC XI, Heidelberg, Germany, July 19–23 2010	Kodolanyi,Janos;Hoppe,Peter;	
2010	PLANETOLOGY	The Astrophysical Journal	An Investigation into the Origin of Fe-Rich Presolar Silicates in Acfer 094, 714 1624	Bose,Maitrayee;Floss,Christine;Stadermann,Frank J.;	10.1088/0004-637X/714/2/1624
2010	PLANETOLOGY	Astrophysical Journal	Automated NanoSIMS Measurements of Spinel Stardust from the Murray Meteorite. . 717 (2010) 107-120	Gyngard,Frank;Zinner,Ernst;Nittler,Larry R.;Morgand,Alain;Stadermann,Frank J.;Hynes,K. Mairin;	10.1088/0004-637X/717/1/107
2011	PLANETOLOGY	Science	Oxygen Isotope Variations at the Margin of a CAI Records Circulation Within the Solar Nebula. . 331, 1175 (2011). DOI:	Simon,Justin I.;Hutcheon,Ian D.;Simon,Steven B.;Matzel,Jennifer E. P.;Ramon,Erick C.;Weber,Peter K.;Grossman,Lawrence;DePaolo,Donald J.;	10.1126/science.1197970
2011	PLANETOLOGY	Meteoritics and Planetary Science	53Mn-53Cr ages of Kaidun carbonates. Meteoritics & Planetary Science 46, Nr 2, 275–283 (2011)	Petitat,Manuel;Marrochi, Yves;McKeegan, Kevin D.;Mostefaoui,Smail;Meibom,Anders;Zolensjy,M. E.;Gounelle,Matthieu	
2011	PLANETOLOGY	Science	High Pre-Eruptive Water Contents Preserved in Lunar Melt Inclusions	Hauri,Erik H.;Weinreich,Thomas; Saal,Alberto E.;Rutherford,Malcolm C.,Van Orman,James A.;	10.1126/science.1204626
2011	PLANETOLOGY	The Astrophysical Journal	Characterization of presolar material in the CR chondrite Northwest Africa 852, Volume 745, Number 1	Leitner,J;Vollmer, Christian;Hoppe, P. ;Zipfel,J. ;	10.1088/0004-637X/745/1/38
2011	PLANETOLOGY	Nature Geoscience	Extreme oxygen isotope anomaly with a solar origin detected in meteoritic organics. Nature Geoscience 4, 165–168 (2011)	Hashizume,Ko;Takahata,Naoto;Naraoka,Hiroshi;Sano,Yuji;	
2011	PLANETOLOGY	The Astrophysical Journal Letters	Formation of the Short-lived Radionuclide 36Cl in the Protoplanetary Disk During Late-stage Irradiation of a Volatile-rich Reservoir	Jacobsen,Benjalin;Matzel, Jennifer E.P. ;Hutcheon, Ian D. ;Krot, Alexander N. ;Yin, Qing-Zhu ;Nagashima, Kazuhide ;Ramon, Erick C.;Weber, Peter K. ;Ishii,Hope A.;Ciesla,Fred J.;	10.1088/2041-8205/731/2/L28
2012	PLANETOLOGY	Meteoritics and Planetary Science	Structure, composition and location of organic matter in the enstatite chondrite Sahara 97096 (EH3) . . Meteoritics & planetary science, 47, 8-29, 2012	Piani,Laurette;Robert,Francois;Beyssac,Olivier;Binet,Laurent;Bouro t-Denise,Michelle;Derenne,Sylvie;Le Guillou,Corentin;Marrocchi,Yves;Mostefaoui,Smail;Rouzaud,Hea-Noel;Thomen,Aurelien;	
2012	PLANETOLOGY	Nature Communications	Evidence for the late formation of hydrous asteroids from young meteoritic carbonates	Fujiya,Wataru;Sugiura,Naoji;Hotta,Hideyuki;Ichimura,Koji;Sano,Yuji ;	10.1038/ncomms1635
2012	PLANETOLOGY	Meteoritics and Planetary Science	A NanoSIMS and Raman spectroscopic comparison of interplanetary dust particles from comet Grigg-Skjellerup and non-Grigg Skjellerup collections,47,11,1748–1771	Davidson,Jemma;Busemann,Henner ;Franchi,Ian A.;	10.1111/maps.12010
2012	PLANETOLOGY	PNAS	Evidence for the extraterrestrial origin of a natural quasicrystal,v109	Bindi,Luca;Eiler,John M.;Guan,Yunbin;Hollister,Lincoln S.;MacPherson,Glenn J.;Steinhardt,Paul J.;Yao,Nan;	
2012	PLANETOLOGY	Science	Origin and Evolution of Prebiotic Organic Matter As Inferred from the Tagish Lake Meteorite. . 10 June 2011: vol. 332 no. 6035 pp. 1304-1307	Herd,Christopher D. K.;Blinova, Alexandra ;Simkus, Danielle N. ; Huang,Yongsong ;Tarozo, Rafael ;Alexander,Conel M.O'D. ;Gyngard, Frank ;Nittler,Larry R. ;Cody, George D. ;Fogel,Marilyn L.;Kebukawa, Yoko ;Kilcoyne,A. L. David ;Hilts, Robert W. ;Slater,Greg F. ;Glavin, Daniel P. ;Dworkin, Jason P. ;Callahan, Michael P. ;Elsila, Jamie E. ;De Gregorio, Bradley T. ;Stroud, Rhonda M. ;	
2012	PLANETOLOGY	Geochimica et Cosmochimica Acta	D-depleted organic matter and graphite in the Abee enstatite chondrite. Geochimica et Cosmochimica Acta 96 (2012) 319–335	Remusat,Laurent;Rouzaud, Joel-Noel;Charon,Emeline;Le Guillou,Corentin; Guan,Yunbin;Eiler,John M.;	
2012	PLANETOLOGY	The Astrophysical Journal Letters	LABORATORY ANALYSIS OF PRESOLAR SILICATE STARDUST FROM A NOVA, V754, Number 2	Leitner,Jan;Kodolanyi,Janos;Hoppe,Peter;Floss,Christine;	10.1088/2041-8205/754/2/L41
2012	PLANETOLOGY	Geochimica et Cosmochimica Acta	Circumstellar and interstellar material in the CO3 chondrite ALHA77307: An isotopic and elemental investigation. . Geochimica et Cosmochimica Acta 93 (2012) 77–101	Bose,Maitrayee;Floss,Christine;Stadermann,Frank J.;Stroud,Rhonda M.;Speck,Angela K.;	10.1016/j.gca.2012.06.027
2012	PLANETOLOGY	The Astrophysical Journal Letters	C, N, and O Isotopic Heterogeneities in Low-density Supernova Graphite Grains from Orgueil, 754	Groopman,Evan;Bernatowicz,Thomas;Zinner,Ernst;	
2012	PLANETOLOGY	The Astrophysical Journal Letters	SULFUR MOLECULE CHEMISTRY IN SUPERNOVA EJECTA RECORDED BY SILICON CARBIDE STARDUST,v745, Number 2	Hoppe,Peter;Fujiya,Wataru;Zinner,Ernst;	
2013	PLANETOLOGY	Science	Hydrogen Isotopes in Lunar Volcanic Glasses and Melt Inclusions Reveal a Carbonaceous Chondrite Heritage. . , April 25, 2013.	Saal,Alberto E.;Hauri,Erik H.;Van Orman,James A.;Rutherford,Malcolm J.;	
2013	PLANETOLOGY	Earth and Planetary Science Letters	Mn–Cr ages of dolomites in CI chondrites and the Tagish Lake ungrouped carbonaceous chondrite. . Earth and Planetary Science Letters 362 (2013) 130–142.	Fujiya,Wataru;Sugiura,Naoji;Sano,Yuji;Hiyagon,Hajime;	
2013	PLANETOLOGY	Chemical Geology	Accurate and precise measurements of the D/H ratio and hydroxyl content in lunar apatites using NanoSIMS. Chemical Geology 337–338 (2013) 48–55	Barnes,JessicaJ.;Franchi,Ian;Anand,Mahesh;Tartese,Romain;Starkey,Nathaly A.;Koike,Mizuho;Sano,Yuji;Russell,Sara S.;	
2013	PLANETOLOGY	Geochimica et Cosmochimica Acta	Insight into the silicate and organic reservoirs of the comet forming region. Geochimica et Cosmochimica Acta 105 (2013) 73–91	Starkey,Natalie A.;Franchi,Ian A.;	
2013	PLANETOLOGY	Earth and Planetary Science Letters	Experimental evidence of fast transport of trace elements in planetary basaltic crusts by high temperature metamorphism. A. Yamaguchi, T.Mikouchi, M.Ito, N.Shirai, J.A.Barrat, S.Messenger, M.Ebihara. Earth and Planetary Science Letters 368 (2013) 101–109	Yamaguchi,A.;Mikouchi,T.;Ito,M.;Shirai,N.;Barrat,Jean-Alix;Messenger,Scott;Ebihara,M.;	
2013	PLANETOLOGY	Geochimica et Cosmochimica Acta	The abundance, distribution, and isotopic composition of hydrogen in the Moon as revealed by basaltic lunar samples: Implications for the volatile inventory of the Moon,12	Tartese,Romain;Anand,Mahesh;Barnes,Jessica J.;Starkey,Natalie A.;Franchi,Ian A.;Sano,Yuji;	10.1016/j.gca.2013.08.014
2013	PLANETOLOGY	The Astrophysical Journal	Isochrons in presolar grains from Orgueil,v768,2	Zinner,Ernst;Jadhav,Manavi;	
2013	PLANETOLOGY	American Mineralogist	NanoSIMS Pb/Pb dating of tranquillityite in high-Ti lunar basalts: Implications for the chronology of high-Ti volcanism on the Moon. American Mineralogist, Volume 98, pages 1477–1486, 2013.	Tartese,Romain;Anand,Mahesh;Delhaye,Thomas;	
2013	PLANETOLOGY	Icarus	UltraCarbonaceous Antarctic micrometeorites, probing the Solar System beyond the nitrogen snow-line.. , 223, 2013.	Dartois,Emmanuel;Engrand,Cecile;Brunetto, R.;Duprat, Jean ;Pino, T. ; Quirico,Eric; Remusat, Laurent;Bardin,Noemie;Briani, Giacomo;Mostefaoui, Smail ;Morinaud, G. ;Crane, B.; Szwec, N.;Delauche, L.;Jamme, F. ; Sandt,Ch;Dumas, P.;	10.1016/j.icarus.2013.03.002
2013	PLANETOLOGY	Meteoritics and Planetary Science	Isotopic and chemical variation of organic nanoglobules in primitive meteorites. . . Meteoritics & Planetary Science, Volume 48, Issue 5, pages 904–928, May 2013	De Gregorio,Bradley T.;Stroud,Rhonda M.;Nittler,Larry R.;Alexander,Conel M.O'D.;Bassim,Nabil D.;Cody,George D.;Kilcoyne,A. L. David;Sandford,Scott A.;Milam,Stefanie N.;Nuevo,Michel;Zega,Thomas J.;	
2013	PLANETOLOGY	Icarus	Amorphization and D/H fractionation of kerogens during experimental electron irradiation: Comparison with chondritic organic matter. 226 (2013) 101–110	Le Guillou,Corentin;Remusat,Laurent;Bernard,Sylvain;Brearley,Adrian J.;Leroux,Hugues;	
2013	PLANETOLOGY	The Astrophysical Journal Letters	Evidence for radiogenic Sulfur-32 in type AB presolar silicon carbide grains,V776,2	Fujiya,Wataru;Hoppe,Peter;Zinner,Ernst;Pignatari,Marco;Herwig,Falk;	10.1088/2041-8205/776/2/L29
2013	PLANETOLOGY	Geochimica et Cosmochimica Acta	Multi-element isotopic analyses of presolar graphite grains from Orgueil,v113,pp193–224	Jadhav,Manavi;Zinner,Ernst;Amari,Sachiko;Maruoka,Teruyuki;Marhas,Kuljeet K.;Gallino,Roberto;	
2013	PLANETOLOGY	The Astrophysical Journal	Stardust Investigation into the CR Chondrite Grove Mountain 021710, 769:49 (16pp)	Zhao,Xuchao;Floss,Christine;Lin,Yangting;Bose,Maitrayee;	
2013	PLANETOLOGY	The Astrophysical Journal Letters	First laboratory observation of silica grainsfrom core-collapse supernovae. .. The astrophysical journal letters 768, L17	Haenecour,Pierre;Zhao,Xuchao,Floss,Christine;Lin,Yangting;Zinner,Ernst;	
2013	PLANETOLOGY	The Astrophysical Journal	The Abundance of Presolar Grains in Comet 81P/Wild 2, 763:140 (11pp)	Floss,Christine;Stadermann,Frank J.;Kearsley,Anton T.;Burchell,Mark J.;Ong,W. J.;	10.1088/0004-637X/763/2/140
2014	PLANETOLOGY	Meteoritics and Planetary Science	Presolar grains in the CM2 chondrite Sutter's Mill, v49, Issue 11, p2038–2046	Zhao,Xuchao;Lin, Yangting ;Yin, Qing-Zhu ;Zhang,Jianchao ;Hao, Jialong ;Zolensky, Michael ;Jenniskens,Peter;	
2014	PLANETOLOGY	Geochimica et Cosmochimica Acta	Isotopic and structural signature of experimentally irradiated organic matter,142,522–534	Laurent,Boris;Roskosz,Mathieu;Remusat,Laurent;Leroux,Hugues; Vezin,Herve;Depecker,Christophe;	
2014	PLANETOLOGY	Earth and Planetary Science Letters	The origin of water in the primitive Moon as revealed by the lunar highlands samples. . Earth and Planetary Science Letters 390 (2014) 244–252	Barnes,Jessica J.;Tartese,Romain;Anand,Mahesh;McCubbin,Francis M.;Franchi,Ian A.;Starkey,Natalie A.;Russell,Sara S.;	
2014	PLANETOLOGY	Geology	Apatites in lunar KREEP basalts: The missing link to understanding the H isotope systematics of the Moon. . GEOLOGY, April 2014; v. 42; no. 4; p. 363–366	Tartese,Romain;Anand,Mahesh;McCubbin,Francis M.;Elardo,Stephen M.;Shearer,Charles K.;Franchi,Ian A.;	
2014	PLANETOLOGY	Geochimica et Cosmochimica Acta	Isotopic diversity in interplanetary dust particles and preservation of extreme 16O-depletion,v142,pp115-131	Starkey,Natalie A..;Franchi,Ian A. ;Lee, M.R.;	10.1016/j.gca.2014.07.011
2014	PLANETOLOGY	Geochimica et Cosmochimica Acta	NanoSIMS analyses of apatite and melt inclusions in the GRV 020090 Martian meteorite: Hydrogen isotope evidence for recent past underground hydrothermal activity on Mars.. Geochimica et Cosmochimica Acta. Volume 140, 1 September 2014, Pages 321-333. https://doi.org/10.1016/j.gca.2014.05.008	Hu,Sen;Lin,Yangthing;Zhang,Jiangyi;Hao,J.;Feng,Lianjun;Xu,Liying;Yang,Weishen;Yang,Jun-Gil;	10.1016/j.gca.2014.05.008
2014	PLANETOLOGY	Meteoritics and Planetary Science	NanoSIMS analysis of organic carbon from the Tissint Martian meteorite: Evidence for the past existence of subsurface organic-bearing fluids on Mars,V49, Issue 12, p2201–2218	Lin,Yangting;El Goresy, Ahmed ;Hu,Sen ;Zhang, Jianchao ;Gillet, Philippe ;Xu, Yuchen ;Hao,Jialong ;Miyahara, Masaaki ;Ouyang, Ziyuan ;Ohtani, Eiji ;Xu, Lin ;Yang, Wei ;Feng, Lu ;Zhao,Xuchao ;Yang, Jing;Ozawa,Shin;	

2014	PLANETOLOGY	Journal of Analytical Atomic Spectrometry	Sintering nano-crystalline calcite: a new method of synthesizing homogeneous reference materials for SIMS analysis. . JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY., 2014,29, 1686-1691	Lin,Yangting;Feng,Lu;Hao,Jialong;Liu,Yu;Hu,Sen;Zhang,Jianchao; Yang,Wei	10.1039/c4ja00136b
2014	PLANETOLOGY	Earth Planets and Space	Sequential analysis of carbonaceous materials in Hayabusa-returned samples for the determination of their origin, 66:102	Uesugi,Masayuki;Naraoka,Hiroshi;Ito, Motoo ;Yabuta,Hikaru ;Kitajima, Fumio ;Takano,Yoshinori ;Mita, Hajime ;Ohnishi, Ichiro ;Kebukawa,Yoko ;Yada, Toru ;Karouji, Yuzuru ;Ishibashi,Yukihiro;Okada,Takaaki;Abe,Masanao;	
2014	PLANETOLOGY	Earth Planets and Space	H, C, and N isotopic compositions of Hayabusa category 3 organic samples. 2014, 66:102. doi:10.1186/1880-5981-66-102	Ito,Motoo;Uesugi,Masayuki;Naraoka,Hiroshi;Yabuta,Hikaru;Kitajima ,Fumio;Mita,Hajime;Takano,Yoshinori;Karouji,Yuzuru;Yada,Toru;Ishibashi,Yukihiro;Okada,Tatsuaki;Abe,Masanao;	10.1186/1880-5981-66-102
2014	PLANETOLOGY	PNAS	The negligible chondritic contribution in the lunar soils water. . PNAS, October 21, 2014. Vol.111, No 42	Stephant,Alice;Robert,Francois;	
2014	PLANETOLOGY	Meteoritics and Planetary Science	H and Cl isotope systematics of apatite in brecciated lunar meteorites Northwest Africa 4472, Northwest Africa 773, Sayh al Uhaymir 169, and Kalahari 009, v49, Nr 12, 2266–2289	Tartese,Romain;Anand,Mahesh ;Joy,Katherine H. ;Franchi,Ian A. ;	
2014	PLANETOLOGY	Geochemical journal	Ion microprobe Al–Mg dating of single plagioclase grains in an Efremovka chondrule. . Geochemical Journal, Vol. 48, pp. 133 to 144, 2014	Sano,Yuji;Takada,Mio;Takahata,Naoto;Fujiya,Wataru;Sugiura,Naoji ;	
2014	PLANETOLOGY	Science	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. . v 345, Issue 6198	Westphal,Andrew J.;Stroud,Rhonda M.;Bechtel,Hans A.;Brenker,Frank E.;Butterworth,Anna L.;Flynn, George J. ;Frank, David R. ;Gainsforth, Zack ;Hillier,Jon K. ;Postberg, Frank ;Simionovici, Alexandre S. ;Sterken, Veerle J. ;Nittler,Larry R.;Allen, Carlton ;Anderson,David ;Ansari, Asna ;Bajt,Sasa;Bastien,Ron K. ;Bassim, Nabil ;Bridges, John ;Brownlee, Donald E. ;Burchell, Mark ;Burghammer,Manfred ;Changela, Hitesh ;Cloetens, Peter ;Davis, Andrew M. ;Doll,Ryan ; Floss,Christine ;Grun,Eberhard ;Heck,Philipp R. ;Hoppe, Peter ;Hudson,Bruce ;Huth,Joachim ;Kearsley,Anton ;King, Ashley J. ; Lai,Barry ;Leitner,Jan ;Lemelle, Laurence ;Leonard, Ariel ;Leroux, Hugues ;Lettieri,Robert;Marchant,William ;Ogliore, Ryan; Ong,Wei Jia ;Price, Mark C. ;Sandford,Scott A.;Tresseras,Juan-Angel Sans;Schmitz,Sylvia ;Schoonjans, Tom ;Schreiber, Kate ;Silversmit,Geert ;Sole,Vicente A. ; Srama,Ralf;Stadermann, Frank ; Stephan,Thomas,Stodolna, Julien ;Sutton, Stephen;Trieloff, Mario;Tsou, Peter;Tyliszczak,Tolek;Vekemans,Bart ;Vincze,Laszlo;Von Korff, Joshua;Wordsworth, Naomi;Zevin,Daniel ;Zolensky,Michael E.;Stardust@home dusters37;	10.1126/science.1252496
2014	PLANETOLOGY	Journal of Analytical Atomic Spectrometry	Improved precision and spatial resolution of sulfur isotope analysis using NanoSIMS, 29, 1934-1943	Zhang,Jianchao;Lin,Yangting;Yang,Wei ;Shen,Wenjie;Hao,Jialong;Hu, Sen ;Cao,MingJian ;	
2014	PLANETOLOGY	Journal of Analytical Atomic Spectrometry	Determination of the nitrogen abundance in organic materials by NanoSIMS quantitative imaging. . JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY., 2014, 29, 512.	Thomen,Aurelien;Robert,Francois;Remusat,Laurent;	
2014	PLANETOLOGY	PNAS	Fluid-induced organic synthesis in the solar nebula recorded in extraterrestrial dust from meteorites, vol. 111, no. 43	Vollmer,Christian;Kepaptsoglou,Demie;Leitner,Jan;Busemann,Henner;Spring,Nicole H.;Ramasse,Quentin M.;Hoppe,Peter;Nittler,Larry R.;	
2014	PLANETOLOGY	Geochimica et Cosmochimica Acta	Abundances of presolar silicon carbide grains in primitive meteorites determined by NanoSIMS. Abundances of presolar silicon carbide grains in primitive meteorites determined by NanoSIMS", , vol. 139, 15 August 2014, pp. 248-266.	Davidson,Jemma;Busemann,Henner;Nittler, Larry R.;Alexander,Conel M.O'D.;Orthous-Daunay,Francois-Regis;Franchi,Ian A.;Hoppe,Peter;	
2014	PLANETOLOGY	The Astrophysical Journal	Resolving the stellar sources of isotopically rare presolar silicates grains through Mg and Fe isotopic analyses,v784,2	Nguyen,Ann N.;Messenger,Scott;	
2014	PLANETOLOGY	Earth and Planetary Science Letters	Assessment of alteration processes on circumstellar and interstellar grains in Queen Alexandra Range 97416. . Earth and Planetary Science Letters 399 (2014) 128–138	Bose,Maitrayee;Zega,Thomas J.,Williams,Peter;	
2014	PLANETOLOGY	The Astrophysical Journal	NanoSIMS-TEM and XANES studies of a unique presolar supernova graphite grain,v790, Number 1	Groopman,Evan;Nittler,Larry R.;Bernatowicz,Thomas;Zinner,Ernst;	
2015	PLANETOLOGY	American Mineralogist	Experimental investigation of F, Cl, and OH partitioning between apatite and Fe-rich basaltic melt at 1.0–1.2 GPa and 950–1000 ° . American Mineralogist, Volume 100, pages 1790–1802, 2015	McCubbin,Francis M.;Vander Kaaden, Kathleen E. ;Tartese, Romain ;Boyce, Jeremy W. ;Mikhail, Sami ;Whitson,Eric S. ;Bell, Aaron S. ;Anand, Mahesh ; Franchi, Ian A.;Wang, Jianhua ;Hauri,Erik H. ;	
2015	PLANETOLOGY	Earth and Planetary Science Letters	Micron-scale D/H heterogeneity in chondrite matrices: A signature of the pristine solar system water? . Earth and Planetary Science Letters 415 (2015)154–164	Piani,Laurette;Robert,Francois;Remusat,Laurent;	
2015	PLANETOLOGY	Nature Communications	The deuterium/hydrogen distribution in chondritic organic matter attests to early ionizing irradiation. . Nature communications_13 Oct 2015	Laurent,Boris;Roskosz,Mathie;Remusat, Laurent ;Robert, Francois ;Leroux, Hugues ;Vezin, Herve ;Depecker, Christophe ;Nuns, Nicolas ;Lefebvre,Jean-Marc;	
2015	PLANETOLOGY	Nature Geoscience	Carbon content and degassing history of the lunar volcanic glasses. . Nature Geoscience 8, 755–758 (2015)	Wetzel,Diane T.;Hauri,Erik H.;Saal,Alberto E.;Rutherford,Malcolm J.;	
2015	PLANETOLOGY	Geochimica et Cosmochimica Acta	Unique large diamonds in a ureilite from Almahata Sitta 2008 TC3 asteroid. Geochimica et Cosmochimica Acta. Volume 163, 15 August 2015, Pages 14–26	Miyahara,Masaaki;Ohtani,Eiji;El Goresy,Ahmed;Lin,Yangting;Feng,Lu;Zhang,Jian-Chao;Gillet,Philippe;Nagase,Toshiro;Muto,Jun;Nishijima, Masahiko;	
2015	PLANETOLOGY	The Astrophysical Journal	THE PATH OF REDUCED NITROGEN TOWARD EARLY EARTH: THE COSMIC TRAIL AND ITS SOLAR SHORTCUTS., v814, Number 2	Pizzarello,Sandra;Bose,Maitrayee;	
2015	PLANETOLOGY	Meteoritics and Planetary Science	Nickeliferous pyrite tracks pervasive hydrothermal alteration in Martian regolith breccia: A study in NWA 7533. . Meteoritics & Planetary Science, Volume 50, Issue 12, December 2015, Pages: 2099–2120.	Lorand,Jean-Pierre;Hewins, Roger H. ;Remusat, Laurent ;Zanda, Brigitte ;Pont,Sylvain ;Leroux, Hugues ;Marinova, Maya ;Jacob,Damien ;Humayun, Munir ;Nemchin, Alexander ;Grange,Marion ;Kennedy, Allen ;Gopel,Christa ;	
2015	PLANETOLOGY	Geochimica et Cosmochimica Acta	Comprehensive study of carbon and oxygen isotopic compositions, trace element abundances, and cathodoluminescence intensities of calcite in the Murchison CM chondrite. . Geochimica et Cosmochimica Acta 161 (2015) 101–117	Fujiya,Wataru;Sugiura,Naoji;Marrocchi,Yves;Takahata,Naoto;Hoppe,Peter;Shirai,Kotaro;Sano,Yuji;Hiyagon,Hajime;	
2015	PLANETOLOGY	The Astrophysical Journal Letters	NEW CONSTRAINTS ON THE ABUNDANCES OF SILICATE AND OXIDE STARDUST FROM SUPERNOVAE IN THE ACFER 094 METEORITE, V808, Number 1	Hoppe,Peter;Leitner,Jan;Kodolanyi,Janos;	
2015	PLANETOLOGY	Nature Geoscience	Reactive ammonia in the solar protoplanetary disk and the origin of Earth's nitrogen. . Nature Geoscience 8, 97–101 (2015) doi:10.1038/ngeo2339	Harries,Dennis;Hoppe,Peter;Langenhorst,Falko;	
2015	PLANETOLOGY	The Astrophysical Journal Letters	SULFUR ISOTOPIC COMPOSITIONS OF SUBMICROMETER SiC GRAINS FROM THE MURCHISON METEORITE, V799, Number 2	Xu,Yuchen;Zinner,Ernst;Gallino,Roberto;Heger,Alexander;Pignatari ,Marco;Lin,Yangting;	
2015	PLANETOLOGY	The Astrophysical Journal	INFERRED INITIAL 26Al/27Al RATIOS IN PRESOLAR STARDUST GRAINS FROM SUPERNOVAE ARE HIGHER THAN PREVIOUSLY ESTIMATED, v809, Number 1	Groopman,Evan;Zinner,Ernst;Amari,Sachiko;Gyngard,Frank;Hoppe,Peter;Jadhav,Manavi;Lin,Yangting;Xu,Yuchen;Marhas,Kuljeet;Nittler,Larry R.;	
2015	PLANETOLOGY	Earth and Planetary Science Letters	Ancient stardust in fine-grained chondrule dust rims from carbonaceous chondrites. . Earth and Planetary Science Letters Available online 3 December 2015	Leitner,Jan;Vollmer,Christian;Floss,Christine;Zipfel,Jutta;Hoppe,Peter;	
2015	PLANETOLOGY	The Astrophysical Journal	CIRCUMSTELLAR MAGNETITE FROM THE LAP 031117 CO3.0 CHONDRITE, The Astrophysical Journal, v808, Number 1	Zega,Thomas J.;Haenecour,Pierre;Floss,Christine;Stroud,Rhonda M.;	
2016	PLANETOLOGY	Geochimica et Cosmochimica Acta	Oxygen isotopic variations in the outer margins and Wark–Lovering rims of refractory inclusions. . Geochimica et Cosmochimica Acta. Volume 186, 1 August 2016, Pages 242–276.	Simon,Justin I. ;Matzel, Jennifer E.P. ;Simon, Steven B. ;Hutcheon,Ian D. ;Ross, D. Kent ;Weber,Peter K.;Grossman,Lawrence;	10.1016/j.gca.2016.04.025
2016	PLANETOLOGY	Meteoritics and Planetary Science	Rare earth element measurements and mapping of minerals in the allende CAI 7R 19-1, by nanoSIMS ion microprobe.Meteoritics & Planetary Science, Vol51, no4, p818 (2016)	Ito,Motoo;Messenger,Scott;	
2016	PLANETOLOGY	The Astrophysical Journal	EXPERIMENTAL INVESTIGATION OF IRRADIATION-DRIVEN HYDROGEN ISOTOPE FRACTIONATION IN ANALOGS OF PROTOPLANETARY HYDROUS SILICATE DUST . The Astrophysical Journal, 832:55 (12pp), 2016 November 20	Roskosz,Mathieu;Laurent,Boris;Leroux,Hugues;Remusat,Laurent;	10.3847/0004-637X/832/1/55
2016	PLANETOLOGY	Earth and Planetary Science Letters	Abundance of 60Fe inferred from nanoSIMS study of QUE 97008 (L3.05) chondrules. . Earth and Planetary Science Letters, Volume 436, 15 February 2016, Pages 71-81	Mishra,Ritesh Kumar;Sameer;Marhas,Kuljeet Kaur;	10.1016/j.epsl.2015.12.007
2016	PLANETOLOGY	Earth and Planetary Science Letters	Early degassing of lunar urKREEP by crust-breaching impact(s) . Earth and Planetary Science Letters. Volume 447, 1 August 2016, Pages 84–94.	Barnes,Jessica J.;Tartese,Romain;Anand,Mahesh;McCubbin,Francis M.;Neal,Clive R.;Franchi,Ian A.;	
2016	PLANETOLOGY	Earth and Planetary Science Letters	Thermal recalcitrance of the organic D-rich component of ordinary chondrites.Earth and Planetary Science Letters, Volume 435, 1 February 2016, Pages 36-44	Remusat,Laurent;Piani,Laurette;Bernard,Sylvain;	
2016	PLANETOLOGY	Journal of Geophysical Research: Planets	Geologic history of Martian regolith breccia Northwest Africa 7034: Evidence for hydrothermal activity and lithologic diversity in the Martian crust.. Journal of Geophysical Research: Planets. Volume 121, Issue 10, October 2016, Pages: 2120–2149,	McCubbin,Francis M.;Boyce, Jeremy W. ;Novak-Szabo, Timea ;Santos, Alison R. ;Tartese, Romain ;Muttik,Nele ;Domokos, Gabor ;Vazquez, Jorge ;Keller, Lindsay P.;Moser,Desmond E.;Jerolmack,Douglas J.;Shearer,Charles K.;Steele,Andrew;Elardo,Stephen M.;Rahman,Zia;Anand, Mahesh;Delhaye,Thomas;Agee,Carl B.;	
2016	PLANETOLOGY	Meteoritics and Planetary Science	The abundance and isotopic composition of water in eucrites,v51,6,pp1110–1124	Barrett,Thomas James;Barnes,Jessica J.;Tartese,Romain;Anand,Mahesh;Franchi, Ian A.;Greenwood,Richard C.;Charlier,Bruce L. A.;Grady,Monica M.;	
2016	PLANETOLOGY	The Astrophysical Journal	Mineralogy of presolar silicate and oxide grains of diverse stellar oringins,v818,1	Nguyen,Ann N.;Keller, Lindsay P. ;Messenger,Scott ;	
2016	PLANETOLOGY	The Astrophysical Journal	STELLAR ORIGINS OF EXTREMELY 13C- AND 15N-ENRICHED PRESOLAR SIC GRAINS: NOVAE OR SUPERNOVAE? ,7 Published 2016 March 30 , The Astrophysical Journal, Volume 820, Number 2	Liu,Nan;Nittler,Larry R. ;Alexander,ConelM.O'D.;Wang, Jianhua ;Pignatari,Marco;Jose, Jordi ;Nguyen,Ann ;	
2016	PLANETOLOGY	The Astrophysical Journal	THE FIRST DISCOVERY OF PRESOLAR GRAPHITE GRAINS FROM THE HIGHLY REDUCING QINGZHEN (EH3) METEORITE. . Published 2016 July 7 . The Astrophysical Journal, Volume 825, Number 2	Xu,Yuchen;Lin, Yangting ;Zhang, Jianchao ;Hao,Jialong ;	
2016	PLANETOLOGY	Meteoritics and Planetary Science	Minor and trace element concentrations in adjacent kamacite and taenite in the Krymka chondrite. . Meteoritics & Planetary Science, Vol51, N4, p696-717 (2016)	Meftah,Nassima;Mostefaoui, Smail;Jambon, Albert;Guedda,El Habib;Pont,Sylvain;	10.1111/maps.12617
2016	PLANETOLOGY	Meteoritics and Planetary Science	Boron abundances and isotopic ratios of olivine grains on Itokawa returned by the Hayabusa spacecraft. . Meteoritics & Planetary Science. Volume 51, Issue 9, September 2016, Pages: 1721–1729,	Fujiya,Wataru;Hoppe,Peter;Ott,Ulrich;	

2017	PLANETOLOGY	Geochimica et Cosmochimica Acta	Corundum–hibonite inclusions and the environments of high temperature processing in the early Solar System. . Geochimica et Cosmochimica Acta Volume 196, 1 January 2017, Pages 18–35	Needham,Andrew W.;Messenger,Scott;Han,Jangmi;Keller,Lindsay P.;	
2017	PLANETOLOGY	Geochimica et Cosmochimica Acta	A divergent heritage for complex organics in Isheyevo lithic clasts. Geochimica et Cosmochimica Acta. Available online 16 February 2017	van Kooten,Elishevah M.M.E.;Nagashima,Kazuhide ;Kasama, Takeshi; Wampfler,Susanne ;Ramsey,Jon P.;Frimann,Soren;Balogh,Zoltan I.;Schiller,Martin;Wielandt,Daniel P.;Franchi,Ian A.;Jorgensen,Jes K.;Krot,Alexander N.;Bizzarro,Martin;	10.1016/j.gca.2017.02.002
2017	PLANETOLOGY	Geochimica et Cosmochimica Acta	Fluid evolution in CM carbonaceous chondrites tracked through the oxygen isotopic compositions of carbonates. Geochimica et Cosmochimica Acta. Available online 9 February 2017.	Lindgren, Paula;Lee, Martin R. ;Starkey, Natalie A. ;Franchi, Ian A.;	
2017	PLANETOLOGY	PNAS	Hydrogen isotope fractionation in methane plasma,114 (5) 870-874	Robert,Francois;Derenne, Sylvie ;Lombardi, Guillaume ;Hassouni, Khaled ;Michau, Armelle ;Reinhardt, Peter ;Duhamel, Remi ;Gonzalez,Adriana ;Biron,Kasia ;	10.1073/pnas.1615767114
2017	PLANETOLOGY	Geochimica et Cosmochimica Acta	Mn–Cr ages and formation conditions of fayalite in CV3 carbonaceous chondrites: Constraints on the accretion ages of chondritic asteroids. Geochimica et Cosmochimica Acta . Volume 199, 15 February 2017, Pages 58–74	Jogo,Kaori;Nakamura,Tomoki;Ito,Motoo;Wakita,Shigeru;Zolotove,Mikhail Yu;Messenger,Scott R.;	
2017	PLANETOLOGY	Geophysical Research Letters	U-Pb and Hf-W dating of young zircon in mesosiderite Asuka 882023. Geophysical Research Letters. Volume 44, Issue 3, 16 February 2017, Pages: 1251–1259	Koike,Mizuho;Sugiura,Naoji;Takahata,N;Ishida,Akizumi;Sano,Yuji;	
2017	PLANETOLOGY	Meteoritics and Planetary Science	Coordinated mineralogical and isotopic analyses of a cosmic symplectite discovered in a comet 81P/Wild 2 sample	Nguyen, Ann N.;Berger,Eve L.;Nakamura-Messenger, Keiko;Messenger,Scott;Keller,Lindsay P.;	10.1111/maps.12905
2017	PLANETOLOGY	The Astrophysical Journal	Evidence for Reduced, Carbon-rich Regions in the Solar Nebula from an Unusual Cometary Dust Particle.Published 2017 October 20 , The Astrophysical Journal, Volume 848, Number 2	De Gregorio,Bradley T.;Stroud,Rhonda M.;Nittler, Larry R.;Kilcoyne,A. L. David;	
2017	PLANETOLOGY	Nature astronomy	The stardust abundance in the local interstellar cloud at the birth of the Solar System,v1,617–620	Hoppe,Peter;Leitner,Jan;Kodolanyi,Janos;	
2017	PLANETOLOGY	Meteoritics and Planetary Science	Sulfide–oxide assemblages in Acfer 094—Clues to nebular metal–gas interactions,53,2,pp187–203	Barth, M. I. F.;Harries,Dennis;Langenhorst,Falko;Hoppe,Peter;	10.1111/maps.12992
2017	PLANETOLOGY	Geochimica et Cosmochimica Acta	NanoSIMS Isotope Studies of Rare Types of Presolar Silicon Carbide Grains from the Murchison Meteorite: Implications for Supernova Models and the Role of 14C	Hoppe,Peter;Pignatari,Marco ;Kodolanyia, Janos ;Gronera, Elmar ;Amari,Sachiko;	
2017	PLANETOLOGY	Geochimica et Cosmochimica Acta	Bonanza: An extremely large dust grain from a supernova. . Geochimica et Cosmochimica Acta. Available online 7 September 2017.	Gyngard,Frank;Jadhav,Manavi ;Nittler, Larry R.;Stroud, Rhonda M.;Zinner,Ernst;	10.1016/j.gca.2017.09.002
2017	PLANETOLOGY	Geochimica et Cosmochimica Acta	Correlated silicon and titanium isotopic compositions of presolar SiC grains from the Murchison CM2 chondrite. . Geochimica et Cosmochimica Acta. Available online 23 September 2017.	Gyngard,Frank;Amari,Sachiko;Zinner,Ernst;Marhas,Kuljeet Kaur;	
2017	PLANETOLOGY	Geochimica et Cosmochimica Acta	Presolar silicates in the matrix and fine-grained rims around chondrules in primitive CO3.0 chondrites: Evidence for pre-accretionary aqueous alteration of the rims in the solar nebula,221,379-405	Haenecour,Pierre;Floss,Christine ;Zega,Thomas J.;Croat, Thomas K.;Wang, Alian;Jolliff,Bradley L.;Carpenter, Paul;	
2017	PLANETOLOGY	The Astrophysical Journal Letters	Stellar Origin of 15N-rich Presolar SiC Grains of Type AB: Supernovae with Explosive Hydrogen Burning. . Published 2017 June 6 . The Astrophysical Journal Letters, Volume 842, Number 1	Liu,Nan;Nittler,Larry R.;Pignatari,Marco;Alexander,Conel M.O'D.;Wang,Jianhua;	
2017	PLANETOLOGY	Meteoritics and Planetary Science	Refractory materials in comet samples,52, Nr 8, 1612–1648 (2017) doi: 10.1111/maps.12877	Joswiak, Dave J.;Brownlee,Donald E.;Nguyen, Ann N.;Messenger, Scott;	
2017	PLANETOLOGY	Geochimica et Cosmochimica Acta	Water in type I chondrules of Paris CM chondrite. Geochimica et Cosmochimica Acta. v199, 15 February 2017, Pages 75–90	Stephant,Alice;Remusat,Laurent;Robert,Francois;	10.1016/j.gca.2016.11.031
2017	PLANETOLOGY	Geochemical Perspectives Letter	Water in alkali feldspar: The effect of rhyolite generation on the lunar hydrogen budget. . (2017) 3, 115–123	doi: 10.7185/geochemlet.1712	Mills,Ryan D.;Simon,Justin I.;Alexander,C.M.O'D.;Wang,Jianhua;Hauri,Erik H.;	10.7185/115 geochemlet.1712
2018	PLANETOLOGY	Science	Organic matter in extraterrestrial water-bearing salt crystals	Chan,QueenieH.S.;Zolensky,MichaelE.;Kebukawa,Yoko;Fries,Marc;Ito,Motoo;Steele,Andrew;Rahman,Zia;Nakato,Aiko;Kilcoyne,A.L. David;Suga,Hiroki;Takahashi,Yoshio;Takeichi,Yasuo;Mase,Kazuhiko;	10.1126/sciadv.aao3521
2018	PLANETOLOGY	Geochimica et Cosmochimica Acta	Isotope record of mineralogical changes in a spectrum of aqueously altered CM chondrites. Geochimica et Cosmochimica Acta 237 (2018) 79–102. doi.org/10.1016/j.gca.2018.06.021	van Kooten,Elishevah M.M.E.;Cavalcante,Larissa L.;Nagashima, Kazuhide;Kasama, Takeshi;Balogh,Zoltan I.;Peeters, Zan;Sung-Yun Hsiao, Silver;Shang,Hsien;Lee,Der-Chuen;Lee,Typhoon;Krot,Alexander N.;Bizzarro, Martin;	10.1016/j.gca.2018.06.021
2018	PLANETOLOGY	Scientific Reports	Thermal and impact histories of 25143 Itokawa recorded in Hayabusa particles,8:11806	Terada,Kentaro; Sano,Yuji;Takahata,N.;Ishida,Akizumi;Tsuchiyama,A.;Nakamura,T.; Noguchi,T.;Karouji,Y.;Uesugi,Masayuki;Yada,T.; Nakabayashi,M.;Fukuda,Kohei; Nagahara,H.;	10.1038/s41598-018-30192-4
2018	PLANETOLOGY	Geochimica et Cosmochimica Acta	Chlorine isotopic compositions of apatite in Apollo 14 rocks: Evidence for widespread vapor-phase metasomatism on the lunar nearside 4 billion years ago. . April 2018. Geochimica et Cosmochimica Acta. DOI10.1016/j.gca.2018.03.022	Potts,Nicola J.;Barnes, Jessica J.;Tartese, Romain;Franchi,Ian A.; Anand, Mahesh;	10.1016/j.gca.2018.03.022
2018	PLANETOLOGY	Science Advances	Organic matter in extraterrestrial water-bearing salt crystals, v 4, no. 1, eaao3521	Chan,Queenie H. S.;Zolensky, Michael E. ;Kebukawa, Yoko;Fries,Marc;Ito, Motoo ;Steele, Andrew ;Rahman, Zia ;Nakato,Aiko;Kilcoyne, A. L. David;Suga, Hiroki;Takahashi,Yoshio;Takeichi,Yasuo;Mase,Kazuhiko;	10.1126/sciadv.aao3521
2018	PLANETOLOGY	PNAS	Insights into the origin of carbonaceous chondrite organics from their triple oxygen isotope composition	Tartese,Romain;Chaussidon,Marc ;Gurenko, Andrey;Delarue,Frederic;Robert,Francois;	10.1073/pnas.1808101115
2018	PLANETOLOGY	Meteoritics and Planetary Science	Signatures of the Martian regolith components entrained in some impact melt glasses in shergottites. , Meteoritics & Planetary Science . First published: 13 August 2018. https://doi.org/	Rao,M. Nagabhushana;Nyquist,L.E.;Ross,D. K. ;Sutton,S. R. ; Hoppe,Peter; Shih,C. Y.;Wentworth, S. J.;Garrison, Daniel H. ;	10.1111/maps.13177
2018	PLANETOLOGY	Antartic science	Suspected meteorite fragments in marine sediments from East Antarctica, v30, 5, pp307-321	Pant,Naresh C.;Jimenez-Espejo, Francisco J.;Cook, Cary P.;Biswas, Paromita ;Mckay,Robert;Marchesi,Claudio;Ito,Motoo;Upadhyay, Dewashish;Kuroda, Junichiro;Shimizu,Kenji;Senda,Ryoko ;Van De Flierdt, Tina;Takano, Yoshinori ;Suzuki, Katsuhiko;Escutia,Carlota;Shrivastava,Prakash K.;	
2018	PLANETOLOGY	Science Advances	Late formation of silicon carbide in type II supernovae, Science Advances,v4, no. 1, eaao1054 DOI:	Liu,Nan;Nittler,Larry R.;Alexander,Conel M.O'D.;Wang,Jianhua;	10.1126/sciadv.aao1054
2018	PLANETOLOGY	Geochimica et Cosmochimica Acta	Correlated silicon and titanium isotopic compositions of presolar SiC grains from the Murchison CM2 chondrite. . Geochimica et Cosmochimica Acta. Volume 221, 15 January 2018, Pages 145-161. https://doi.org/10.1016/j.gca.2017.09.031	Gyngarz,Frank;Amari,Sachiko;Zinner,Ernst;Marhas,Kuljeet Kaur;	
2018	PLANETOLOGY	Geochimica et Cosmochimica Acta	Correlated XANES, TEM, and NanoSIMS of presolar graphite grains. . Geochimica et Cosmochimica Acta. Volume 221, 15 January 2018, Pages 219-236	Groopman,Evan E.;Nittler, Larry R.;	
2018	PLANETOLOGY	Geochimica et Cosmochimica Acta	Correlated nanoscale characterization of a unique complex oxygen-rich stardust grain: Implications for circumstellar dust formation. Geochimica et Cosmochimica Acta 221 (2018) 255–274	Leitner,Jan;Hoppe,Peter;Floss,Christine;Hillion,Francois;Henkel,Torsten;	
2018	PLANETOLOGY	Meteoritics and Planetary Science	Neon isotopes in individual presolar low density graphite grains from the Orgueil meteorite. , Meteoritics & Planetary Science First published: 10 June 2018.https://doi.org/	Heck,Philipp R.;Jadhav, Manavi ;Meier, Matthias M. M. ;Maruoka, Teruyuki ;Amari,Sachiko;Zinner,Ernst;Busemann,Henner;Maden, Colin;Gyngard,Frank;Baur,Heinrich;Wieler,Rainer;	10.1111/maps.13129
2018	PLANETOLOGY	Geochimica et Cosmochimica Acta	NanoSIMS isotope studies of rare types of presolar silicon carbide grains from the Murchison meteorite: Implications for supernova models and the role of 14C. Geochimica et Cosmochimica Acta. Volume 221, 15 January 2018, Pages 182-199	Hoppe,Peter;Pignatari,Marco;Kodolanyi,Janos;Groner,Elmar;Amari, Sachiko;	
2018	PLANETOLOGY	The Astrophysical Journal	New Insights into the Galactic Chemical Evolution of Magnesium and Silicon Isotopes from Studies of Silicate Stardust. . The Astrophysical Journal, Volume 869, Number 1. Published 11 December 11 2018.	Hoppe,Peter;Leitner, Jan;Kodolanyi,Janos;	
2018	PLANETOLOGY	Geochimica et Cosmochimica Acta	Titanium isotopic compositions of rare presolar SiC grain types from the Murchison meteorite. Geochimica et Cosmochimica Acta. Volume 221, 15 January 2018, Pages 162-181	Nguyen,Ann N.;Nittler,Larry R.;Alexander,Conel M.O'D.;Hoppe,Peter;	10.1016/j.gca.2017.02.026
2018	PLANETOLOGY	Meteoritics and Planetary Science	A study of presolar material in hydrated lithic clasts from metal-rich carbonaceous chondrites.Meteoritics & Planetary Science. Volume 53, Issue 2, February 2018, Pages: 204–231, Version of Record online : 16 OCT 2017, DOI: 10.1111/maps.12994	Leitner,Jan;Hoppe,Peter;Zipfel,Jutta;	
2018	PLANETOLOGY	Geochimica et Cosmochimica Acta	An isotopic, elemental and structural study of silicon nitride from enstatite chondrites Geochimica et Cosmochimica Acta. Volume 235, 15 August 2018, Pages 153-172. https://doi.org/10.1016/j.gca.2018.05.025	Leitner,Jan;Vollmer,Christian; Henkel,Torsten;Ott,Ulrich;Hoppe,Peter;	
2018	PLANETOLOGY	Geochimica et Cosmochimica Acta	Origin of nanodiamonds from Allende constrained by statistical analysis of C isotopes from small clusters of acid residue by NanoSIMS. . Geochimica et Cosmochimica Acta. Volume 221, 15 January 2018, Pages 237-254	Lewis,Josiah B.;Floss,Christine;Gyngard,Frank;	
2018	PLANETOLOGY	Astrophysical Journal Letters	Extremely 54Cr- and 50Ti-rich presolar oxide grains in a primitive meteorite: Formation in rare types of supernovae and implications for the astrophysical context of solar system birth. Submitted to Feb 24, 2018, accepted for publication March 11, 2018	Nittler,Larry R.;Alexander,Conel M.O'D.;Liu,Nan;Wang,Jianhua;	10.3847/2041-8213/aab61f
2018	PLANETOLOGY	Geochimica et Cosmochimica Acta	High abundances of presolar grains and 15N-rich organic matter in CO3.0 chondrite Dominion Range 08006,v226,pp107-131	Nittler,Larry R.;Alexander,Conel M.O'D.;Davidson,Jemma;Riebe,My E.I. ;Stroud, Rhonda M.;Wang,Jianhua;	10.1016/j.gca.2018.01.038
2019	PLANETOLOGY	The Astrophysical Journal	Origin of the Short-lived Radionuclide 10Be and Its Implications for the Astronomical Setting of CAI Formation in the Solar Protoplanetary Disk. v886, Number 1.	Fukuda,Kohei;Hiyagon,Hajime;Fujiya,Wataru;Takahata,Naoto;Kagoshima,Takanori;Sano,Yuji;	10.3847/1538-4357/ab479c
2019	PLANETOLOGY	Geochimica et Cosmochimica Acta	Multiple reservoirs of volatiles in the Moon revealed by the isotopic composition of chlorine in lunar basalts	Barnes,Jessica J.;Franchi, Ian A.;McCubbin,Francis M. ;Anand, Mahesh;	
2019	PLANETOLOGY	Meteoritics and Planetary Science	Isotopic compositions, nitrogen functional chemistry, and low-loss electronspectroscopy of complex organic aggregates at the nanometer scale in thecarbonaceous chondrite Renazzo, 1–27	Vollmer,Christian;Leitner,Jan;Kepaptsoglou,Demie;Ramasse,Quent in M. ; Busemann,Henner;Hoppe,Peter;	10.1111/maps.13389
2019	PLANETOLOGY	Nature astronomy	A cometary building block in a primitive asteroidal meteorite.Nature Astronomy (2019) 15 April 2019.	Nittler,Larry R.;Stroud,Rhonda M.;Trigo-Rodriguez,Josep M.;De Gregorio, Bradley T.;Alexander,Conel M.O'D.;Davidson,Jemma;Moyano-Cambero,Carles E.;Tanbakouei,Safoura;	
2019	PLANETOLOGY	Nature astronomy	Migration of D-type asteroids from the outer Solar System inferred from carbonate in meteorites	Fujiya,Wataru;Hoppe,Peter;Ushikubo,Takayuki;Fukuda, Kohei;Lindgren,Paula;Lee,Martin R.;Koike,Mizuho;Shirai,Kotaro;Sano,Yuji;	10.1038/s41550-019-0801-4

2019	PLANETOLOGY	Geochimica et Cosmochimica Acta	An ancient reservoir of volatiles in the Moon sampled by lunar meteorite Northwest Africa 10989	Stephant,Alice;Anand,Mahesh;Ashcroft,H.O.;Zhao, X.;Huc, S.;Korotev, R.L.;Strekopytov,S.;Greenwood,Richard C.;Humphreys-Williams, E.;Liu, Y.;Tang, G.;Li,Q.;Franchi,Ian A.;	
2019	PLANETOLOGY	Earth and Planetary Science Letters	The chlorine isotopic composition of the Moon: Insights from melt inclusions. . Earth and Planetary Science Letters. Volume 523, 1 October 2019, 115715	Stephant,Alice;Anand,Mahesh;Zhao,Xuchao;Chan,Queenie H.S.;Bonifacie,Magali;Franchi,Ian A.;	
2019	PLANETOLOGY	Meteoritics and Planetary Science	Effects of aqueous alteration on primordial noble gases and presolar SiC in the carbonaceous chondrite Tagish Lake	Riebe,My E. I.;Busemann, Henner;Alexander,ConelM.O'D. ;Nittler,Larry R.;Herd, Christopher D. K. ;Maden, C. ; Wang, Jianhua;Wieler, R.;	10.1111/maps.13383
2019	PLANETOLOGY	Journal of Geophysical Research: Planets	Imbrium Age for Zircons in Apollo 17 South Massif Impact Melt Breccia 73155	Zhang,Bidong;Lin,Yangting;Moser,Desmond;Hao,Jialong;Shieh,Sean;Bouvier,Audrey;	10.1029/2019JE005992
2019	PLANETOLOGY	Meteoritics and Planetary Science	Further characterization of carbonaceous materials in Hayabusa-returned samples to understand their origin 1–29	Uesugi,Masayuki;Ito,Motoo ;Yabuta,Hikaru ;Naraoka,Hiroshi ;Kitajima,Fumio ;Takano,Yoshinori;Mita,Hajime;Kebukawa,Yoko ;Nakato,Aiko ;Karouji,Yuzuru;	10.1111/maps.13236
2019	PLANETOLOGY	Scientific Reports	An extremely heavy chlorine reservoir in the Moon: Insights from the apatite in lunar meteorites. . Scientific Reports. volume 9, Article number: 5727 (2019). Published 5 April 2019.	Wang,Ying;Hsu,Weibiao;Guan,Yunbin;	
2019	PLANETOLOGY	Science Advances	Discovery of fossil asteroidal ice in primitive meteorite Acfer 094. Science Advances 20 Nov 2019: Vol. 5, no. 11, eaax5078. DOI: 10.1126/sciadv.aax5078	Matsumoto,Megumi;Tsuchiyama,Akira;Nakato,Aiko;Matsuno,Junya ;Miyake,Akira;Kataoka,Akimasa;Ito, Motoo;Tomioka,Naotaka;Kodama,Yu;Uesugi,Kentaro;Takeuchi,Akihisa;Nakano,Tsukasa;Vaccaro,Epifanio;	
2019	PLANETOLOGY	Geochimica et Cosmochimica Acta	Hydrogen isotopic composition of CI- and CM-like clasts from meteorite breccias – sampling unknown sources of carbonaceouschondrite materials	Patzek,Markus;Hoppe,Peter;Bischoff,Addi;Visser,Robbin;John,Timm;	10.1016/j.gca.2019.12.017
2019	PLANETOLOGY	Scientific Reports	A novel organic-rich meteoritic clast from the outer solar system, 9:3169	Kebukawa,Yoko;Ito,Motoo;Zolensky,Michael E.;Greenwood,Richard C.;Rahman,Zia;Suga,Hiroki;Nakato, Aiko;Chan,Queenie H.S.;Fries,Marc;	10.1038/s41598-019-39357-1
2019	PLANETOLOGY	Geochimica et Cosmochimica Acta	Calcite and dolomite formation in the CM parent body: Insight from in situ C and O isotope analyses.	Telus,Myriam;Alexander,Conel M.O'D.;Hauri,Erik H.;Wang.,J.;	10.1016/j.gca.2019.06.012
2019	PLANETOLOGY	Geochimica et Cosmochimica Acta	Investigating magmatic processes in the early Solar System using the Cl isotopic systematics of eucrites	Barrett,Thomas James;Barnes,Jessica J.;Anand,Mahesh;Franchi,Ian A.; Greenwood,R.C.; Charlier,Bruce L.A.;Zhao,X.;Moynier,Frederic;Grady, Monica M.;	10.1016/j.gca.2019.06.024
2019	PLANETOLOGY	Geochemical journal	STXM-XANES analyses of Murchison meteorite samples captured by aerogel after hypervelocity impacts: A potential implication of organic matter degradation for micrometeoroid collection experiments,v53, pp. 53-67	Kebukawa,Yoko;Okudaira,Kyoko;Yabuta,Hikaru;Hasegawa,Sunao; Tabata,Makoto;Furukawa, Yoshihiro;Ito,Motoo;Nakato,Aiko;Kilcoyne,A. L. David;Kobayashi,Kensei;Yokobori,Shin-ichi;Imai, Eiichi;Kawaguchi,Yuko;Yano,Hajime;Yamagishi,Akihiko;	
2019	PLANETOLOGY	Geochimica et Cosmochimica Acta	H and Cl isotope characteristics of indigenous andlate hydrothermal fluids on the differentiated asteroidal parent body of Grave Nunataks 06128	Tartese,Romain;Anand,Mahesh;Franchi,Ian A.;	10.1016/j.gca.2019.01.024
2019	PLANETOLOGY	Meteoritics and Planetary Science	Organics preserved in anhydrous interplanetary dust particles: Pristine or not? 1–29	Chan,Queenie H. S.;Franchi,Ian A.;Zhao,Xuchao;Stephant,Alice;Wright,Ian P.;Alexander,Conel M.O'D.;	10.1111/maps.13414
2019	PLANETOLOGY	The Astrophysical Journal	Isotopic Signatures of Supernova Nucleosynthesis in Presolar Silicon Carbide Grains of Type AB with Supersolar 14 N/ 15 N Ratios, 887(1):8	Hoppe,Peter;Stancliffe,Richard J.;Pignatari,Marco;Amari,Sachiko;	10.3847/1538-4357/ab521c
2019	PLANETOLOGY	Meteoritics and Planetary Science	Presolar Grains in Primitive Ungrouped Carbonaceous Chondrite Northwest Africa 5958	Nittler,Larry R.;Stroud,Rhonda M.;Alexander,Conel M.O'D.;Howell,Kaitlin;	
2019	PLANETOLOGY	Geochimica et Cosmochimica Acta	Molecular and isotopic behavior of Insoluble Organic Matter of the Orgueil meteorite upon heating	Remusat,Laurent;Bonnet,Jean-Yves;Bernard,Sylvain;Buch,Arnaud;Quirico,Eric;	10.1016/j.gca.2019.07.013
2019	PLANETOLOGY	Geochemistry	Origin of 16O-rich fine-grained Ca-Al-rich inclusions of different mineralogy and texture	Han,Jangmi;Jacobsen,Benjamin;Liu,Ming-Chang;Brearley,Adrian J.;Matzel,Jennifer E.P.;Keller,Lindsay P.;	10.1016/j.chemer.2019.125543
2019	PLANETOLOGY	The Astrophysical Journal Letters	Molecular Cloud Origin for Oxygen Isotopic Heterogeneity Recorded by a Primordial Spinel-rich Refractory Inclusion,v884,2	Simon,Justin I.;Ross,D. Kent;Nguyen,Ann N.;Simon,Steven B.;Messenger,Scott;	
2019	PLANETOLOGY	Meteoritics and Planetary Science	An in situ investigation on the origins and processing of circumstellar oxide and silicate grains in carbonaceous chondrites.	Zega,Thomas J.;Haenecour,Pierre;Floss,Christine;	10.1111/maps.13418
2019	PLANETOLOGY	Geochimica et Cosmochimica Acta	A Coordinated Microstructural and Isotopic Study of a Wark-Lovering Rim on a Vigarano CAI	Han,Jangmi;Keller,Lindsay P.;Liu,Ming-Chang;Needham,Andrew W.;Hertwig,Andreas T.;Messenger,Scott;Simon,Justin I.;	
2019	PLANETOLOGY	Nature astronomy	Laboratory evidence for co-condensed oxygen- and carbon-rich meteoritic stardust from nova outbursts	Haenecour,Pierre;Howe,Jane Y.;Zega,Thomas J.;Amari,Sachiko;Lodders,Katharina;Jose,Jordi;Kaji,Kazutoshi;Sunaoshi,Takeshi;Muto,Atsushi;	10.1038/s41550-019-0757-4
2019	PLANETOLOGY	Astronomy&Astrophysics	Hydrogen isotopic anomalies in extraterrestrial organic matter: role of cosmic ray irradiation and implications for UCAMMs,v627, A122	Auge,B.;Dartois,Emmanuel;Duprat,Jean;Engrand,Cecile;Slodzian, Goerges; Wu,Ting-Di;Guerquin-Kern,Jean-Lic; Vermesse,H. ; Agnihotri,A. N.; Boduch, P.;Rothard, H. ;	10.1051/0004-6361/201935143
2019	PLANETOLOGY	The Astrophysical Journal	Molybdenum Isotopes in Presolar Silicon Carbide Grains: Details of s-process Nucleosynthesis in Parent Stars and Implications for r- and p-processes. v 877, Number 2	Stephan,Thomas;Trappitsch,Reto;Hoppe,Peter;Davis,Andrew M.;Pellin, Michael J.;Pardo,Olivia S.;	10.3847/1538-4357/ab1c60
2019	PLANETOLOGY	Meteoritics and Planetary Science	The presolar grain inventory of fine-grained chondrule rims in the Mighei-type(CM) chondrites, 1–31	Leitner,Jan;Metzler,Knut;Vollmer,Christian;Floss,Christine;Haenecour,Pierre;Kodolanyi,Janos;Harries,Dennis;Hoppe,Peter;	10.1111/maps.13412
2019	PLANETOLOGY	Nature astronomy	A new population of dust from stellar explosions among meteoritic stardust	Leitner,Jan;Hoppe,Peter;	10.1038/s41550-019-0788-x
2019	PLANETOLOGY	Earth and Planetary Science Letters	Volatiles in the martian crust and mantle: Clues from the NWA 6162 shergottite, 115902.	Hu,Sen;Lin,Yangting;Zhang,Jianchao;Hao,Jialong;Yamaguchi,Akira ;Zhang,Ting;Yang,Wei;Changela,Hitesh;	
2019	PLANETOLOGY	The Astrophysical Journal	Presolar Silicon Carbide Grains of Types Y and Z: Their Molybdenum Isotopic Compositions and Stellar Origins	Liu,Nan;Stephan,Thomas;Cristallo,Sergio;Gallino,Roberto;Boehnke ,Patrick;Nittler,Larry R.;Alexander,Conel M.O'D.;Davis,Andrew M.;Trappitsch, Reto;Pellin,Michael J.;Dillmann,Iris;	10.3847/1538-4357/ab2d27
2020	PLANETOLOGY	PNAS	Alkali magmatism on a carbonaceous chondrite planetesimal	Aleon,Jerome;Aleon-Toppani,Alice;Platevoet,Bernard;Bardintzeff,Jacques-Marie;McKeegan,Kevin D.;Brisset,Francois;	10.1073/pnas.1919550117
2020	PLANETOLOGY	American Mineralogist	The chlorine-isotopic composition of lunar KREEP from magnesian-suite troctolite 76535	McCubbin,Francis. M.;Barnes,Jessica J.	10.2138/am-2020-7467
2020	PLANETOLOGY	Geochimica et Cosmochimica Acta	One of the earliest refractory inclusions and its implications for solar system history	Bodenan,Jean-David;Starkey,Natalie;Russell,Sara;Wright,Ian P.;Franchi,Ian A.	10.1016/j.gca.2020.06.034
2020	PLANETOLOGY	Nature astronomy	Mass-independent fractionation of titanium isotopes and its cosmochemical implications	Robert,Francois;Tartese,Romain;Lombardi,Guillaume;Reinhardt,Peter;Roskosz,Mathieu;Doisneau,Beatrice;Deng,Zhengbin;Chaussidon,Marc;	10.1038/s41550-020-1043-1
2020	PLANETOLOGY	Chemical Physics	Mass-Independent Fractionation of Titanium Isotopes, 110970	Robert,Francois;Reinhardt,Peter;Tartese,Romain;	10.1016/j.chemphys.2020.110970
2020	PLANETOLOGY	Geochimica et Cosmochimica Acta	NanoSIMS isotopic investigation of xenolithic carbonaceous clasts from the kapoeta howardite	Liu,Nan;Ogliore,Ryan C.;Vacher,Lionel G.;	10.1016/j.gca.2020.05.026
2020	PLANETOLOGY	Geochimica et Cosmochimica Acta	Volatiles in lunar felsite clasts: Impact-related delivery of hydrous material toan ancient dry lunar crust. Geochimica et Cosmochimica Acta (2020), doi.org/10.1016/j.gca.2020.02.008	Simon,Justin I.;Christoffersen,R.;Wang,Jianhua;Mouser,Megan D.;Mills,R.D.; Ross,D.Kent;Rahman,Zaizul Bin Ab; Alexander,Conel M.O'D.;	10.1016/j.gca.2020.02.008
2020	PLANETOLOGY	Earth and Planetary Science Letters	Iron isotopic and chemical tracing of basalt alteration and hematite spherule formation in Hawaii: A prospective study for Mars,v544, 116385.	Nie,Nicole X.;Dauphas,Nicolas;Villalon,Krysten L.;Liu,Nan;Heard,Andy W.;Morris,Richard V.;Mertzman,Stanley A.;	10.1016/j.epsl.2020.116385
2020	PLANETOLOGY	Meteoritics and Planetary Science	Sampling interplanetary dust from Antarctic air, 1–18	Taylor, S.;Lever,J.H.;Burgess,K.D.;Stroud,RhondaM.;Brownlee,DonaldE.; Nittler,LarryR.;Bardyn,A.;Alexander, ConelM.O'D.;Farley,K.A.;Treffkorn,J.;Messenger,Scott;Wozniakiewicz,P.J.;	10.1111/maps.13483.
2020	PLANETOLOGY	Royal Society Open Science	Timing of geological events in the lunar highlands recorded in shocked zircon-bearing clasts from Apollo	Joy,Katherine H.; Snape,J. F.;Nemchin, A. A. ;Tartese,Romain; Martin,D. M. ;Whitehouse, Martin J.;Vishnyakov, V. ;Pernet-Fisher, J. F.;Kring, D. A.;	10.1098/rsos.200236
2020	PLANETOLOGY	Geophysical Research Letters	Oldest immiscible silica rich melt on the Moon recorded in a ~4.38 Ga zircon	Zeng,Xiaojia;Joy,Katherine H.;Li,Shijie;Lin,Yangting;Wang,Nian;Li,Xiongyao;Li,Yang;Hao,Jialong;Liu,Jianzhong;Wang,Shijie;	10.1029/2019GL085997
2020	PLANETOLOGY	PNAS	Lifetimes of interstellar dust from cosmic ray exposure ages of presolar silicon carbide	Heck,Philipp R.;Greer,Jennika;Koop,Levke;Trappitsch,Reto;Gyngard,Frank;Busemann,Henner;Maden,Colin;Avila,Janaina N.;Davis,Andrew M.;Wieler,Rainer;	10.1073/pnas.1904573117
2020	PLANETOLOGY	Nature Geoscience	Multiple early-formed water reservoirs in the interior of Mars	Barnes,Jessica J.;McCubbin, Francis M. ;Santos, Alison R. ;Day,James M. D. ;Boyce, Jeremy W. ;Schwenzer, Susanne P. ;Ott,Ulrich ;Franchi, Ian A. ;Messenger, Scott ;Anand, Mahesh ;Agee,Carl B.;	10.1038/s41561-020-0552-y
2020	PLANETOLOGY	Geochimica et Cosmochimica Acta	Primordial organic matter in the xenolithic clast in the Zag H chondrite: Possible relation to D/P asteroids	Kebukawa,Yoko;Zolensky,Michael E.;Ito,Motoo;Ogawa,Nanako O.;Takano,Yshinori;Ohkouchi,Naohiko;Nakato,Aiko;Suga, Hiroki;Takeichi,Yasuo;Takahashi,Yoshio;Kobayashi,Kensei;	/10.1016/j.gca.2019.12.012
2020	PLANETOLOGY	Earth and Planetary Science Letters	The isotopic composition of volatiles in the unique Bench Crater carbonaceous chondrite impactor found in the Apollo 12 regolith,v540, 116265.	Joy, Katherine H.;Tartese,Romain;Messenger,Scott,Zolensky, Mickael E.;Marrocchi,Yves;Frank, David R.;Kring,David A.;	
2020	PLANETOLOGY	Geochimica et Cosmochimica Acta	The shocking state of apatite and merrillite in shergottite Northwest Africa5298 and extreme nanoscale chlorine isotope variability revealed by atomprobe tomography	Darling,James R. ;White, Lee F.;Kizovski,Tanya;Cernok,Ana;Moser,Desmond E.;Tait, Kimberly;Dunlop,Joseph Nicolas;Langelier,Brian;Douglas, James;Zhao,Xuchao;Franchi,Ian;Anand,Mahesh;	10.1016/j.gca.2020.11.007
2020	PLANETOLOGY	Scientific Reports	A primordial 15N-depleted organic component detected within the carbonaceous chondrite Maribo,v10, 20251	Vollmer,Christian;Leitner,Jan;Kepaptsoglou,Demie;Ramasse,Quentin M.;King,Ashley J.;Schofield,Paul F.;Bischoff, Addi;Araki,Tohru;Hoppe,Peter;	10.1038/s41598-020-77190-z
2020	PLANETOLOGY	Geochimica et Cosmochimica Acta	The hydrogen isotopic composition of lunar melt inclusions: An interplay of complex magmatic and secondary processes,v284, pp196-221	Stephant,Alice;Anand,Mahesh;Tartese,Romain;Zhao, X.;Degli-Alessandrini, G.;Franchi,Ian A.;	10.1016/j.gca.2020.06.017
2020	PLANETOLOGY	Meteoritics and Planetary Science	The effects of secondary processing in the unique carbonaceous chondrite Miller Range 07687	Haenecour,Pierre;Floss,Christine;Brearley,Adrian J.;Zega,Thomas J.;	10.1111/maps.13477
2020	PLANETOLOGY	Earth and Planetary Science Letters	The effects of atmospheric entry heating on organic matter in interplanetary dust particles and micrometeorites. v 540, 116266	Riebe,My E.I.;Foustoukos,Dionysis I.;Alexander,Conel M.O'D.;Steele,Andrew;Cody,George D.;Mysen,Bjorn O.;Nittler, Larry R.;	10.1016/j.epsl.2020.116266
2020	PLANETOLOGY	Journal of Geophysical Research: Planets	Deuterium and 37Chlorine Rich Fluids on the Surface of Mars: Evidence from the Enriched Basaltic Shergottite Northwest Africa 8657	Hu,Sen;Lin,Yangting;Anand,Mahesh;Franchi,Ian A.;Zhao,X.;Zhang,J.;Hao, Jialong;Zhang,T.;Yang, W.,Changela,Hitesh;	10.1029/2020je006537

2020	PLANETOLOGY	preprint	Multiple sulfur isotopic reservoirs in the Moon and implications for the evolution of planetary interiors.	Faircloth,Samantha J.;Anand,Mahesh;Franchi,Ian A.;Zhao,Xuchao;Russell,Sara S.;	
2021	PLANETOLOGY	Geochimica et Cosmochimica Acta	Radiogenic Pb mobilization induced by shock metamorphism of zircons in the Apollo 72255 Civet Cat norite clast	Zhang,Bidong;Lin,Yangting;Moser,Desmond E.;Hao,Jialong;Liu,Yu;Zhang,Jianchao;Barker,Ivan R.;Li,Qiuli;Shieh,Sean R.;Bouvier,Audrey;	10.1016/j.gca.2021.03.012
2021	PLANETOLOGY	PNAS	Oxygen and magnesium mass-independent isotopic fractionation induced by chemical reactions in plasma	Robert,Francois;Chaussidon,Marc; Gonzalez-Cano,Adriana;Mostefaoui,Smail;	10.1073/pnas.2114221118
2021	PLANETOLOGY	Geochimica et Cosmochimica Acta	A deuterium-poor water reservoir in the asteroid 4 Vesta and the inner Solar System	Stephant,Alice; Wadhwa,M.;Hervig, R.;Bose, M.;Zhao, X.;Barrett,T.J.;Anand, M.;Franchi,Ian A.;	10.1016/j.gca.2021.01.004
2021	PLANETOLOGY	Nature astronomy	A dry lunar mantle reservoir for young mare basalts of Chang'E-5	Hu,Sen;He,Huicun;Ji,Jianglong;Lin,Yangting;Hui,Hejiu;Anand,Mahesh;Tartese,Romain;Yan,Yihong;Hao,Jialong;Li, Ruiying;Gu,Lixin;Guo,Qian;He,Huaiyu;Ouyang,Zi-Yuan;	10.1038/s41586-021-04107-9
2021	PLANETOLOGY	Icarus	Manganese oxides in Martian meteorites Northwest Africa (NWA) 7034 and 7533, 364 , 114471	Liu,Yang;Fischer,Woodward W.;Ma,Chi;Beckett,John R.;Tschauner,Oliver;Guan,Yunbin;Lingappa,Usha F.;Webb,Samuel M.;Prakapenka, Vitali B.;Lanza,Nina L.;Agee,Carl B.;	10.1016/j.icarus.2021.114471
2021	PLANETOLOGY	Geochemical Journal	Assessing the debris generated by the small carry-on impactor operated from the Hayabusa2 mission	Ito,Motoo; Takano,Yoshinori ; Kebukawa, Yoko ; Ohigashi, Takuji ; Matsuoka, Moe ; Kiryu, Kento ; Uesugi, Masayuki ; Nakamura, Tomoki ; Yuzawa, Hayato ; Yamada, Keita ; Naraoka, Hiroshi ; Yada, Toru ; Abe, Masanao ; Hayakawa, Masahiko ; Saiki, Takanao ; Tachibana, Shogo ; Hayabusa Project Team;	10.2343/geochemj.2.0632
2021	PLANETOLOGY	Nature	A dry lunar mantle reservoir for young mare basalts of Chang'E-5	Hu,Sen;He,Huicun;Ji,Jianglong;Lin,Yangting;Hui,Hejiu;Anand,Mahesh;Tartese,Romain;Yan,Yihong;Hao,Jialong;Li,Ruiying;Gu,Lixin;Guo,Qian;He,Huaiyu;Ouyang,Ziyuan;	10.1038/s41586-021-04107-9
2021	PLANETOLOGY	Geochimica et Cosmochimica Acta	Highly volatile element (H, C, F, Cl, S) abundances and H isotopic compositions in chondrules from carbonaceous and ordinary chondrites	Shimizu,Kei;Alexander,Conel M.O'D.;Hauri,Erik H.;Sarafian,Adam R.;Nittler,Larry R.;Wang,Jianhua;Jacobsen,Steven D.;Mendybaev,Ruslan A.;	10.1016/j.gca.2021.03.005
2021	PLANETOLOGY	Scientific Reports	Organic matter and water from asteroid Itokawa. Scientific reports. (2021) 11:5125 | https://doi.org/10.1038/s41598-021-84517-x	Chan,Queenie H. S.;Stephant,Alice;Franchi,Ian A.;Zhao,X; Brunetto,R.;Kebukawa,Yoko;Noguchi,Takaaki;Johnson,D.;Price,M. C.;Harriss,K. H.;Zolensky,Mike E.;Grady,Monica M.;	
2021	PLANETOLOGY	Meteoritics and Planetary Science	Presolar Stardust in Highly Pristine CM Chondrites Asuka 12169 and Asuka 12236	Nittler,Larry R.;Alexander,Conel M.O'D.;Patzer,Andrea;Verdier-Paoletti,Maximilien J.;	
2021	PLANETOLOGY	Science Advances	Large sulfur isotope fractionation in lunar volcanic glasses reveals the magmatic differentiation and degassing of the Moon, 7 : eabe4641 24	Saal,Alberto E.;Hauri,Erik H.;	10.1126/sciadv.abe4641
2021	PLANETOLOGY	The Astrophysical Journal Supplement Series	Presolar Silicate and Oxide Grains Found in Lithic Clasts from Isheyevo and the Fine-grained Matrix of Northwest Africa 801, V253, Nb2	Sanghani, Manish N.;Marhas,Kuljeet Kaur;Sung-Yun Hsiao,Silver;Peeters,Zan;Shang,Hsien;Lee,Der-Chuen;Bizzarro,Martin;	10.3847/1538-4365/abdbab
2021	PLANETOLOGY	Geochimica et Cosmochimica Acta	Exploring relationships between shock-induced microstructures and H2O and Cl in apatite grains from eucrite meteorites. Geochimica et Cosmochimica Acta (2021). DOI: https://doi.org/10.1016/j.gca.2021.03.018	Barrett, T.J. ;Cernok, A. ;Degli-Alessandrini, G. ;Zhao,X. ;Anand, M. ;Franchi, I.A.;Darling,J.R.;	10.1016/j.gca.2021.03.018"
2021	PLANETOLOGY	Meteoritics & planetary science	Apatite halogen and hydrogen isotope constraints on the conditions of hydrothermal alteration in carbonaceous chondrites	Piralla,Maxime;Tartese,Romain;Marrocchi,Yves;Joy,Katherine H.;	10.1111/maps.13639
2021	PLANETOLOGY	Earth and Planetary Science Letters	Experimental investigation of OH/H2O in H+-irradiated plagioclase: Implications for the thermal stability of water on the lunar surface. . Earth and Planetary Science Letters. Volume 560, 15 April 2021, 116806. https://doi.org/10.1016/j.epsl.2021.116806	Zeng,Xiandi;Tang,Hong;Li,XiongYao;Zeng,Xiaojia;Yu,Wen;Liu,Jianzhong;Zou,Yongliao;	10.1016/j.epsl.2021.116806
2021	PLANETOLOGY	Meteoritics & Planetary Science	Carbonate assemblages in Cold Bokkeveld CM chondrite reveal complex parent body evolution. . Meteoritics & Planetary Science 1–19 (2021). doi: 10.1111/maps.13647	Fardang,Stefan;Franchi,Ian A.;Zhao Xuchao;Raub,Timothy D.;Redfern,Simon A.T;Grady,Monica M.;	10.1111/maps.13647
2021	PLANETOLOGY	The Astrophysical Journal	Isotope Systematics of Presolar Silicate Grains: New Insights from Magnesium and Silicon. . The Astrophysical Journal. Published 2021 May 18, Volume 913, https://doi.org/10.3847/1538-4357/abef64	Hoppe,Peter;Leitner,Jan;Kodolanyi,Janos;Vollmer,Christian;	10.3847/1538-4357/abef64
2021	PLANETOLOGY	Meteoritics & Planetary Science	A preparation sequence for multi-analysis of µm-sized extraterrestrial and geological samples	Aleon-Toppani,Alice;Brunetto,Rosario;Aleon,Jerome;Dionnet,Zelia;Rubino,Stefano;Levy,Dan;Troadec,David;Brisset,Francois;Borondics,Ferenc;King,Andrew;	10.1111/maps.13696
2021	PLANETOLOGY	Acta Geologica Sinica	Oxygen isotopic compositions in a plagioclase olivine inclusion from Ningqiang: similar to those in Al rich chondrules	Dai,Deqiu;Bao,Haimei ;Liu,Shuang;Yin,Feng;	10.1111/1755-6724.14682
2021	PLANETOLOGY	Geochimica et Cosmochimica Acta	53Mn-53Cr systematics of sphalerite in enstatite chondrites	Hopp,Jens;Storck,Julian-Christopher;Ludwig,Thomas;Mostefaoui,Smail;Altherr,Rainer;Ott,Ulrich;Meyer,Hans-Peter;Trieloff,Mario;	10.1016/j.gca.2021.07.011
2022	PLANETOLOGY	Geochimica and Cosmochimica Acta	Abundant presolar silicates of the CM chondrite Asuka 12169: Implications for the thermal and aqueous alteration of the CM parent body,v334,pp45-64	Xu,Yuchen;Lin,Yangting;Hao,Jialong;Kimura,Makoto;Hu,Sen;Yang,Wei;Liu,Yang;Zou,Yongliao;	10.1016/j.gca.2022.07.016
2022	PLANETOLOGY	Geochimica et Cosmochimica Acta	Diverse oxygen isotopic compositions among cometary vapor-phase condensates	Utt,KainenL.;Ogliore,RyanC.;Liu,Nan;Krot,AlexanderN.;Bradley,JohnP.;Brownlee,Donald E.;Joswiak,David J.;	
2022	PLANETOLOGY	Atomic Spectroscopy	High-Spatial-Resolution Measurement of Water Content in Olivine Using NanoSIMS 50L	Li,Rui-Ying;Hao, Jialong ;Hu,Sen ;Zhang,Wan-Feng ;Xia,Xiao-Ping;Lin,Yangting;Yang,Wei;	10.46770/AS.2022.005
2022	PLANETOLOGY	Icarus	Water-rich C-type asteroids as early solar system carbonate factories	Froh, Victoria;Bose, Maitrayee;Suttle, Martin D.;Nava, Jacopo;Folco, Luigi;Williams, Lynda B.;Castillo-Rogez,Julie;	10.1016/j.icarus.2022.115300
2022	PLANETOLOGY	Meteoritics and Planetary Science	Impact dynamics of the L chondrites' parent asteroid	Ciocco,Marine;Roskosz,Mathieu;Doisneau,Beatrice;Beyssac,Olivier;Mostefaoui,Smail;Remusat,Laurent;Leroux,Hugues;Gounelle,Matthieu;	10.1111/maps.13793
2022	PLANETOLOGY	The Astrophysical Journal	The Early Solar System Abundance of Iron-60: New Constraints from Chondritic Silicates	Kodolanyi,Janos;Hoppe,Peter;Vollmer,Christian;Berndt,Jasper;Muller,Maren;	10.3847/1538-4357/ac8b85
2022	PLANETOLOGY	Geochimica and Cosmochimica Acta	Heterogeneous nature of the carbonaceous chondrite breccia Aguas Zarcas – Cosmochemical characterization and origin of new carbonaceous chondrite lithologies	Kerraouch,Imene;Kebukawa, Yoko;Bischoff, Addi;Zolensky, Michael E.;Wolfer, Elias;Hellmann, Jan L.;Ito, Motoo;King, Ashley;Trieloff, Mario;Barrat, Jean-Alix;Schmitt-Kopplin, Phillipe;Pack, Andreas;Patzek, Markus;Hanna, Romy D.;Fockenberg, Thomas;Marrocchi, Yves;Fries, Marc;Mathurin,Jeremie;Dartois, Emmanuel;Duprat, Jean;Engrand, Cecile;Deniset, Ariane;Dazzi, Alexandre;Kiryu, Kento;Igisu, Motoko;Shibuya, Takazo;Wakabayashi, Daisuke;Yamashita, Shohei;Takeichi, Yasuo;Takahashi, Yoshio;Ohigashi, Takuji;Kodama, Yu;Kondo, Masashi;	10.1016/j.gca.2022.07.010
2022	PLANETOLOGY	Geochemical Perspectives Letter	Preservation of the isotope signatures in chondritic IOM during aqueous alteration	Laurent, Boris;Remusat,Laurent;Viennet,J.-C.;Brunetto,R.;Binet,Laurent;Hollin,M.;Ciocco,M.;Bouvier,C.;Brunelle,Alain;Bernard,Sylvain;	10.7185/geochemlet.2233
2022	PLANETOLOGY	Geochimica and Cosmochimica Acta	On the provenance of GEMS, a quarter century post discovery	Bradley,John P.;Ishii,Hope A.;Bustillo,Karen;Ciston,James;Ogliore,Ryan;Stephan,Thomas;Brownlee,Donald E.;Joswiak,David J.;	10.1016/j.gca.2022.06.036
2022	PLANETOLOGY	Nature astronomy	Determination of the initial hydrogen isotopic composition of the solar system	Aleon,Jerome;Levy,Dan;Aleon-Toppani,Alice;Bureau,Helene;Khodja,Hicham;Brisset,Francois;	10.1038/s41550-021-01595-7
2022	PLANETOLOGY	The Astrophysical Journal	Laboratory measurements of stretching band strengths of deuterated Quenched Carbonaceous Composites (D-QCC)	Mori,Tamami;Onaka,Takashi;Sakon,Itsuki;Buragohain,Mridusmita;Takahata,Naoto;Sano,Yuji;Pathak,Amit;	10.3847/1538-4357/ac71ae
2022	PLANETOLOGY	Nature astronomy	A pristine record of outer Solar System materials from asteroid Ryugu's returned sample	Ito, Motoo;Tomioka, Naotaka;Uesugi, Masayuki;Yamaguchi, Akira;Shirai, Naoki;Ohigashi, Takuji;Liu, Ming-Chang;Greenwood, Richard C.;Kimura, Makoto;Imae, Naoya;Uesugi, Kentaro;Nakato, Aiko;Yogata, Kasumi;Yuzawa, Hayato;Kodama, Yu;Tsuchiyama, Akira;Yasutake, Masahiro;Findlay, Ross;Franchi, Ian A.;Malley, James A.;McCain, Kaitlyn A.;Matsuda, Nozomi;McKeegan, Kevin D.;Hirahara, Kaori;Takeuchi, Akihisa;Sekimoto, Shun;Sakurai, Ikuya;Okada, Ikuo;Karouji, Yuzuru;Arakawa, Masahiko;Fujii, Atsushi;Fujimoto, Masaki;Hayakawa, Masahiko;Hirata, Naoyuki;Hirata, Naru;Honda, Rie;Honda, Chikatoshi;Hosoda, Satoshi;Iijima, Yu-ichi;Ikeda, Hitoshi;Ishiguro, Masateru;Ishihara, Yoshiaki;Iwata, Takahiro;Kawahara, Kosuke;Kikuchi, Shota;Kitazato, Kohei;Matsumoto, Koji;Matsuoka, Moe;Michikami, Tatsuhiro;Mimasu, Yuya;Miura, Akira;Mori, Osamu;Morota, Tomokatsu;Nakazawa, Satoru;Namiki, Noriyuki;Noda, Hirotomo;Noguchi, Rina;Ogawa, Naoko;Ogawa, Kazunori;Okada, Tatsuaki;Okamoto, Chisato;Ono, Go;Ozaki, Masanobu;Saiki, Takanao;Sakatani, Naoya;Sawada, Hirotaka;Senshu, Hiroki;Shimaki, Yuri;Shirai, Kei;Sugita, Seiji;Takei, Yuto;Takeuchi, Hiroshi;Tanaka, Satoshi;Tatsumi, Eri;Terui, Fuyuto;Tsukizaki, Ryudo;Wada, Koji;Yamada, Manabu;Yamada, Tetsuya;Yamamoto, Yukio;Yano, Hajime;Yokota, Yasuhiro;Yoshihara, Keisuke;Yoshikawa, Makoto;Yoshikawa, Kent;Fukai, Ryota;Furuya, Shizuho;Hatakeda, Kentaro;Hayashi, Tasuku;Hitomi, Yuya;Kumagai, Kazuya;Miyazaki, Akiko;Nishimura, Masahiro;Soejima, Hiromichi;Iwamae, Ayako;Yamamoto, Daiki;Yoshitake, Miwa;Yada, Toru;Abe, Masanao;Usui, Tomohiro;Watanabe, Sei-ichiro;Tsuda, Yuichi	10.1038/s41550-022-01745-5

2022	PLANETOLOGY	The Astrophysical Journal	Presolar stardusts in Asteroid Ryugu	Barosch,Jens;Nittler,LarryR.;Wang, Jianhua,Alexander,ConelM.O'D.;DeGregorio,BradleyT.;Engrand,Cecile;Kebukawa,Yoko;Nagashima,Kazuhide;Stroud,RhondaM.;Yabuta,Hikaru;Abe,Yoshinari;Aleon,Jerome;Amari,Sachiko;Amelin,Yuri;Bajo,Ken-ichi;Bejach, Laure;Bizzarro,Martin;Bonal,Lydie;Bouvier,Audrey;Carlson,Richard W.;Chaussidon,Marc;Choi,Byeon-Gak;Cody, GeorgeD.;Dartois,Emmanuel;Dauphas,Nicolas;Davis,AndrewM.;Dazzi,Alexandre;Deniset-Besseau,Ariane;Di Rocco,Tommaso;Duprat,Jean;Fujiya,Wataru;Fukai,Ryota;Gautam,Ikshu;Haba,MakikoK.;Hashiguchi,Minako;Hibiya, Yuki;Hidaka,Hiroshi;Homma,Hisashi;Hoppe,Peter;Huss,GaryR.;Ichida,Kiyohiro;Iizuka,Tsuyoshi;Ireland, Trevor R.;Ishikawa, Akira;Ito,Motoo;Itoh,Shoichi;Kamide,Kanami;Kawasaki,Noriyuki;David Kilcoyne,A.L.;Kita, Noriko T.;Kitajima, Kouki;Kleine, Thorsten;Komatani, Shintaro;Komatsu, Mutsumi;Krot, Alexander N.;Liu, Ming-Chang;Martins, Zita;Masuda, Yuki;Mathurin,Jeremie;McKeegan, Kevin D.;Montagnac, Gilles;Morita, Mayu;Mostefaoui, Smail;Motomura, Kazuko;Moynier, Frederic;Nakai, Izumi;Nguyen, Ann N.;Ohigashi, Takuji;Okumura, Taiga;Onose, Morihiko;Pack, Andreas;Park, Changkun;Piani, Laurette;Qin, Liping;Quirico, Eric;Remusat, Laurent;Russell, Sara S.;Sakamoto, Naoya;Sandford, Scott A.;Schonbachler, Maria;Shigenaka, Miho;Suga, Hiroki;Tafla, Lauren;Takahashi, Yoshio;Takeichi, Yasuo;Tamenori, Yusuke;Tang, Haolan;Terada, Kentaro;Terada, Yasuko;Usui, Tomohiro;Verdier-Paoletti, Maximilien;Wada, Sohei;Wadhwa, Meenakshi;Wakabayashi, Daisuke;Walker, Richard J.;Yamashita, Katsuyuki;Yamashita, Shohei;Yin, Qing-Zhu;Yokoyama, Tetsuya;Yoneda, Shigekazu;Young, Edward D.;Yui, Hiroharu;Zhang, Ai-Cheng;Abe,	10.3847/2041-8213/ac83bd
2022	PLANETOLOGY	Geophysical Research Letters	Sulfur Isotopic Fractionation of the Youngest Chang'e-5 Basalts: Constraints on the Magma Degassing and Geochemical Features of the Mantle Source,e2022GL099922,49,15	Liu, Xiaoying;Hao, Jialong;Li,Rui-Ying;He, Yuyang;Tian, Heng-Ci;Hu, Sen;Li, Jing;Gu, Lixin;Yang, Wei;Lin, Yangting	10.1029/2022GL099922
2022	PLANETOLOGY	Earth and Planetary Science Letters	Magmatic chlorine isotope fractionation recorded in apatite from Chang'e-5 basalts	Ji,Jianglong;He,Huicun;Hu,Sen;Lin,Yangting;Hui,Hejiu;Hao,Jialong;Li,Ruiying;Yang,Wei;Yan,Yihong;Tian,Hengci;Zhang,Chi;Anand,Mahesh;Tartese,Romain;Gu,Lixin;Li,Jinhua ;Zhang,Di;Mao,Qian;Jia,Lihui;Chen,Yi;Wu,Shitou;Wang,Hao;He,Huaiyu;Li,Xianhua;Wu,Fuyuan;	10.1016/j.epsl.2022.117636
2022	PLANETOLOGY	Acta Petrologica Sinica	Solar wind-implanted water in Apollo 11 lunar soils and its implications,38,6,1823-1831	Tian,HengCi;Hao,JiaLong;Xu,YuChen;Yang,Wei;Hu,Sen;Zhang,Chi;Lin,YangTing;Li,XianHua;Wu,FuYuan;	10.18654/1000-0569/2022.06.19
2022	PLANETOLOGY	PNAS	High abundance of solar wind-derived water in lunar soils from the middle latitude	Xu, Yuchen;Tian, Heng-Ci;Zhang,Chi;Chaussidon, Marc;Lin, Yangting;Hao, Jialong;Li, Ruiying;Gu, Lixin;Yang, Wei;Huang, Liying;Du, Jun;Yang, Yazhou;Liu, Yang;He, Huaiyu;Zou, Yongliao;Li, Xianhua;Wu, Fuyuan	10.1073/pnas.2214395119
2022	PLANETOLOGY	The Astrophysical Journal Letters	Hydrothermal activities on C-complex asteroids induced by radioactivity	Fujiya,Wataru;Higashi,Hisato;Hibiya,Yuki;Sugawara,Shingo;Yamaguchi,Akira;Kimura,Makoto;Hashizume,Ko;	
2022	PLANETOLOGY	Geoscience Frontiers	Rapid screening of Zr-containing particles from Chang'E-5 Lunar soil samples for isotope geochronology: Technical roadmap for future study	Li,Jin-Hua;Li,Qiu-Li;Zhao,Liang;Zhang,Jin-Hai;Tang,Xu;Gu,Li-Xin;Guo,Qian;Ma,Hong-Xia;Zhou,Qin;Liu,Yan;Liu,Pei-Yu;Qiu,Hao;Li,Gang;Gu,Lin;Guo,Shun; Li,Chun-Lai;Li,Xian-Hua;Wu,Fu-Yuan;Pan,Yong-Xin	10.1016/j.gsf.2022.101367
2023	PLANETOLOGY	Earth and Planetary Science Letters	The H content of aubrites: An evaluation of bulk versus in situ methods for quantifying water in meteorites	Peterson,Liam D.;Newcombe,Mega E.;Alexander, Conel MOD.;Wang,Jianhua:Kelin,Frieder;Bekaert,David V.;Nielsen,Sune G.;	10.1016/j.epsl.2023.118341
2023	PLANETOLOGY	Meteoritics & Planetary Science1–17 (2023)	Upper limits of water contents in olivine and orthopyroxene of equilibrated chondritesand several achondrites	Harries,Dennis;Zhao,Xuchao;Franchi,Ian;	10.1111/maps.13980
2023	PLANETOLOGY	Geochimica and Cosmochimica Acta	Negligible fractionation between fluorine and chlorine during magma ocean crystallization and implications for the origin of Earth's volatiles	Yang,Xueping;He,Pengli;Yang,Ya-Nan;Du,Zhixue;	
2023	PLANETOLOGY	Geochimica and Cosmochimica Acta	Deciphering the origin(s) of H and Cl in Apollo 15 quartz monzodiorites: evidence for multiple processes and reservoirs	Barett,Thomas J.;Robinson,Katharine L.;Barnes,Jessica J.;Taylor,G. Jeffrey;Nagashima,Kazuhide;Huss,Gary R.;Anand,Ian A.;Kring,David A.;	10.1016/j.gca.2023.08.004
2023	PLANETOLOGY	Nature Geoscience	A solar wind-derived water reservoir on the Moon hosted by impact glass beads	He,Huicun; Ji, Jianglong; Zhang, Yue; Hu, Sen; Lin, Yangting; Hui, Hejiu; Hao, Jialong;Li,Ruiying; Yang, Wei; Tian, Hengci; Zhang, Chi; Anand, Mahesh; Tartese, Romain; Gu, Lixin; Li, Jinhua; Zhang, Di; Mao, Qian; Jia, Lihui; Li, Xiaoguang; Chen, Yi; Zhang, Li; Ni, Huaiwei; Wu, Shitou; Wang, Hao; Li, Qiuli; He, Huaiyu; Li, Xianhua; Wu, Fuyuan;	
2023	PLANETOLOGY	Scientific Reports	Distributions of CHN compounds in meteorites record organic syntheses in the early solar system	Furukawa, Yoshihiro;Saigusa, Daisuke;Kano, Kuniyuki;Uruno, Akira;Saito, Ritsumi;Ito, Motoo;Matsumoto, Megumi;Aoki, Junken;Yamamoto, Masayuki;Nakamura, Tomoki;	10.1038/s41598-023-33595-0
2023	PLANETOLOGY	Geochimica and Cosmochimica Acta	Tracing the history of an unusual compound presolar grain from progenitor star to asteroid parent body host	Singerling,S.A.;Nittler,Larry R.;Barosch,J.;Dobrica,E.;Brearlety,A.J.;Stroud,R.M.;	
2023	PLANETOLOGY	Meteoritics and Planetary Science	An in situ investigation of the preservation and alteration of presolar silicates in the Miller Range 07687 chondrite	Seifert,Laura B.;Haenecour,Pierre; Ramprasad,Tarunika;Brearley,Adrian J.;Zega,Thomas J.;	10.1111/maps.13958
2023	PLANETOLOGY	Science	Macromolecular organic matter in samples of the asteroid (162173) Ryugu	Yabuta,Hikaru;	
2023	PLANETOLOGY	Meteortiics and Planetary Sciences	SIMS U-Pb dating of micro-zircons in the lunar meteorites Dhofar 1528 and Dhofar 1627	Zhang,Bidong;Lin,Yangting;Hao,Jialong;Schader,Devin L.;WADHWA,Meenakshi;Korotev,Randy L.;Hartmann,William K.;Bouvier,Audrey;	10.1111/maps.14078
2024	PLANETOLOGY	Nature Communications	Variations of organic functional chemistry in carbonaceous matter from the asteroid 162173 Ryugu	De Gregorio, Bradley; Cody, George D.; Stroud, Rhonda M.; David Kilcoyne, A. L.; Sandford, Scott; Le Guillou, Corentin; Nittler, Larry R.; Barosch, Jens; Yabuta, Hikaru; Martins, Zita; Kebukawa, Yoko; Okumura, Taiga; Hashiguchi, Minako; Yamashita, Shohei; Takeichi, Yasuo; Takahashi, Yoshio; Wakabayashi, Daisuke; Engrand, Cecile; Bejach, Laure; Bonal, Lydie; Quirico, Eric; Remusat, Laurent; Duprat, Jean; Verdier-Paoletti, Maximilien; Mostefaoui, Smail; Komatsu, M. Mutsumi; Mathurin, Jeremie; Dazzi, Alexandre; Deniset-Besseau, Ariane; Dartois, Emmanuel; Tamenori, Yusuke; Suga, Hiroki; Montagnac, Gilles; Kamide, Kanami; Shigenaka, Miho; Matsumoto, Megumi; Enokido, Yuma; Yoshikawa, Makoto; Saiki, Takanao; Tanaka, Satoshi; Terui, Fuyuto; Nakazawa, Satoru; Usui, Tomohiro; Abe, Masanao; Okada, Tatsuaki; Yada, Toru; Nishimura, Masahiro; Nakato, Aiko; Miyazaki, Akiko; Yogata, Kasumi; Yurimoto, Hisayoshi; Nakamura, Tomoki; Noguchi, Takaaki; Okazaki, Ryuji; Naraoka, Hiroshi; Sakamoto, Kanako; Tachibana, Shogo; Watanabe, Sei-ichiro; Tsuda, Yuichi;	10.1038/s41467-024-51731-w
2024	PLANETOLOGY	Geochimica and Cosmochimica Acta	Chondrule-like objects and a Ca-Al-rich inclusion from comets or comet-like icy bodies	Noguchi, Takaaki;Nakashima, Daisuke;Ushikubo, Takayuki;Fujiya, Wataru;Ohashi, Noriaki;Bradley, John P.;Nakamura, Tomoki;Kita, Noriko T.;Hoppe, Peter;Ishibashi, Hidemi;Kimura, Makoto;Imae, Naoya;	10.1016/j.gca.2024.07.038
2024	PLANETOLOGY	Earth and Planetary Science Letters	Extremely large Cl isotopic fractionation in Chang'e-5 impact glass beads	Zhang,Yue;Hui,Hejiu;Hu,Sen;Hao,Jialong;Li,Ruiying;Yang,Wei;Li,Qiuli;Lin,Yangting;Li,Xianhua;Wu,Fuyuan;	10.1016/j.epsl.2024.118933
2024	PLANETOLOGY	Earth and Planetary Science Letters	Evidence against water delivery by impacts within 10 million years of planetesimal formation	Rider-Stokes,B.G.;Stephant,Alice;Anand,M.;Franchi,IanA.;Zhao,X.;White ,L.F.;Yamaguchi,A.;Greenwood,R.C.;Jackson,S.L.;	10.1016/j.epsl.2024.118860
2024	PLANETOLOGY	Meteorotics and Planetary Science	Micro- and nanoscale studies of insoluble organic matter and C-rich presolar grains in Murchison and Sutter's Mill in preparation for Bennu sample analysis	Nguyen, Ann; Clemett,S.J.;Thomas-Keprta,K.;Alexander, C. M. O'D.; GLAVIN ,D. P. ;DWORKIN,J.. P.; CONNOLLY Jr, H. C.;LAURETTA, S.;	10.1111/maps.14254
2024	PLANETOLOGY	JGR Planets	Petrography, Crystallography, and Geochronology of Baddeleyite With Two Morphologies in a Chang'e 5 Lunar Basalt	Huang,Liying; Xu,Yuchen;Qin,Lang ;Liu,Yang ;Gu,Lixin ;Tian,Heng-Ci;Hao,Jialong;Zhang,Feng ;Du,Wei;Yang,Jing ;Hui,Hejiu;Yang,Wei;Lin,Yangting;Zou,Yongliao;	10.1029/2023JE007955
2024	PLANETOLOGY	Astronomy&Astrophysics	Depth profiling of implanted D in silicates: Contribution of solar wind protons to water in the Moon and terrestrial planets	Zeng,Xiandi;Tang,Hong ;Li,Xiongyao;Zhou,Chuanjiao;Hu,Sen;Zeng,Xiaojia;Yu,Wen;Wen,Yuanyun;Wu,Yanxue;Mo,Bing;Liu,Jianzhong;Fu,Yong;	10.1051/0004-6361/202450879
2024	PLANETOLOGY	Meteortiics and Planetary Sciences	Hydrogen in magnetite from asteroid Ryugu	Aleon,Jerome;Mostefaoui,Smail;Bureau,Helene;Vangu,Divine;Khodja,Hicham;NagashimaKazuhide;Kawasaki,N.;AbeYoshinari;Alexander,Conel M.O'D.;Amari,Sachiko;Amelin,Yuri.;Bajo,Ken-ichi;Bizzarro,Martin;Bouvier,Audrey;Carlson,RichardW.;Chaussidon,Marc;Choi,Byeon-Gak;Dauphas,Nicolas;Davis,AndrewM.;DiRocco,Tommaso;Fujiya,Wataru;Fukai,Ryota;Gautam,Ikshu;Haba,MakikoK.;Hibiya,Yuki;Hidaka,Hiroshi;Homma,Hisashi;Hoppe,Peter;Huss,GaryR.;Ichida,Kiyohiro;Iizuka,Tsuyoshi;Ireland,TrevorR.;Ishikawa,Akira;Itoh,Shoishi;Kita,NorikoT.;Kitajima,Kouki;Kleine,Thorsten;Komatani,Shintaro;Krot,AlexanderN.;Liu,Ming-Chan;Masuda,Yuki;Morita,Mayu;Motomura,Kazuko;Moynier,Frederic;Nakai,Izumi;Nguyen,AnnN.;Nittler,LarryR.;Onose,Morihiko;Pack,Andreas;Park,Changkun;Piani,Laurette;Qin,Liping;Russell,SaraS.;Sakamoto,Naoya;Schonbachler,Maria;Tafla,Lauren;Tang,Haolan;Terada,Kentaro;Terada,Yasuko;Usui,Tomohiro;Wada,Sohei;Wadhwa,Meenakshi;Walker,RichardJ.;Yamashita,Katsuyuki;Yin,Qing-Zhu;Yokoyama,Tetsuya;Yoneda,Shigekazu;Young,EdwardD.;Yui,Hiroharu;Zhang,AiCheng;Nakamura,Tomoki;Naraoka,Hiroshi;Noguchi,Takaaki;Okazaki,Ryuji;Sakamoto,Kanako;Yabuta,Hikaru;Abe,Masanao;Miyazaki,Akiko;Nakato,Aiko;Nishimura,Masahiro;Okada,Tatsuaki;Yada,Toru;Yogata,K;Nakazawa,Sotaru;Saiki,Takanao.;Tanaka,Satoshi;Terui,Fuyuto;Tsuda,Yuichi;Watanabe,Seichiro;Yoshikawa,Makoto;Tachibana,Shogo;Yurimoto,Hisayoshi;	10.1111/maps.14139

2024	PLANETOLOGY	Geochimica and Cosmochimica Acta	The H-poor nature of incompletely melted planetesimals: The view from acapulcoites and lodranites	Peterson,LiamD.P;Newcombe,MeganE.;Alexander,ConelM.O'D.;Wang,Jianhua;Nielsen,SuneG.;	10.1016/j.gca.2024.02.002
2024	PLANETOLOGY	Geochemical Perspective Letters	Chondritic chlorine isotope composition of acapulcoites and lodranites	Stephant,Alice;Anand,M.;Carli,C.;Zhaoi,X.;Davidson,J.;Cuppone,T.;Pratesi;Franchi,I.A.	10.7185/geochemlet.2406
2024	PLANETOLOGY	Science advances	Multiple sources of water preserved in impact glasses from Chang'e-5 lunar soil	Zhou,Chuanjiao;Mo, Bing ;Tang, Hong;Gu,Yaya;Li,Xiongyao;Zhu,Dan ;Yu,Wen ;Liu,Jianzhong;	
2024	PLANETOLOGY	Science Advances	The nucleosynthetic fingerprint of the outermost protoplanetary disk and early Solar System dynamics	VanKotten,Elishevah;Zhao,Xuchao;Franchi,Ian;Tung,Po-Yen;Fairclough,Simon;Walmsley,John;Onyett,Issac;Schiller,Martin;Bizzarro,Martin;	
2025	PLANETOLOGY	Nature Astronomy	Abundant supernova dust and heterogeneous aqueous alteration revealed by stardust in two lithologies of asteroid Bennu	Nguyen,AnnN.;Seifert,LauraB.;Shimizu,Kei;Thomas-Keprta,Kathie;Le,Loan;Keller,LindsayP.;Clemett,SimonJ.;Rahman,Zia;Barnes, JessicaJ.;Connolly,HaroldC.;Lauretta,Dante S.;	10.1038/s41550-025-02688-3
2025	PLANETOLOGY	Meteoritics and Planetary Science	An in situ investigation of presolar grains in primitive CO chondrite NWA 10493 and NWA 10498	Yuchen Xu, Yangting Lin, Jialong Hao, Sen Hu, Wei Yang, Yongliao Zou, Yang Liu	10.1111/maps.14380
2025	PLANETOLOGY	arxiv	NH-rich organic compounds from the carbonaceous asteroid (162173) Ryugu: nanoscale spectral and isotopic characterizations	Vacher,LionelG.;Phan,V.T.H.;Bonal, Lydie;Iskakova, M. ;Poch, O.;Beck,Pierre;Quirico,Eric;Ogliore,RyanC.;	
2025	PLANETOLOGY	Astronomy&Astrophysics	Light element isotopic heterogeneities in organic residues that formed by the ion irradiation of ices	Rojas,J. ;Duprat,Jean;Dartois,Emmanuel;Wu,Ting-Di;Engrand,Cécile;Augé,B.;Boduch,Ph.;Rothard, H.;Chabot, M. ;Mathurin,J.;Guérin,B. ;	10.1051/0004-6361/202451601
2025	PLANETOLOGY	Communications earth & environment	Rapid protoplanet formation in the outer Solar System recorded in a dunite from the carbonaceous chondrite reservoir	Rider-Stokes,B. G.;Zhao,X.;Jackson,S.L.;Suttle,M.D.;Franchi,I.A.;White,L.F.;Greenwood,R.C.;Whitehouse,M.J.;Riches,L.;Anand,M.;Hoefnagels,B.;Grady,M.M.;	10.1038/s43247-025-02483-y
2025	PLANETOLOGY	Analytical Chemistry	Cross-Scale Multimodal Imaging for Organic Matter in Extraterrestrial Samples	Dong,Mingtan;Yang,Wei;Hao,Jialong;Jia,Xiaofei;Yang,Ou;Lo,MichaelK.F.;Cao,Bobo;HuSen;Lin,Yangting;	
2025	PLANETOLOGY	Nature	Water abundance in the lunar farside mantle	He,Huicun;Li,Linxi;Hu,Sen;Gao,Yubing;Gao,Liang;Zhou,Zhan;Qiu,Mengfan;Zhou,Disheng;Liu,Huanxin;Li,Ruiying;Hao,Jialong;Hui,Hejiu;Lin,Yangting;	10.1038/s41586-025-08870-x
2025	PLANETOLOGY	Nature Communications	Widespread ilmenite contributions to the surface water cycle in lunar Procellarum KREEP Terrane	Xu,Yuchen;Shan,Liyu;Tian,Heng-Ci;Hao,Jialong;Lin,Yangting;Wohler,Christian;Gu,Lixin;Guo,Zhuang;Li,Ruiying;Zhang,Tianxin;Yang,Wei;Liu,Yang;Tang,Xu;Gou,Sheng;He,Huaiyu;Zou,Yongliao;Li,Xianhua;	10.1038/s41467-025-62914-4
2025	PLANETOLOGY	Nature Geoscience	Distribution of lunar surface water dependent on latitude and regolith maturity	Lin, HongleiChang,Rui;Xu,Rui;Yang,Wei;Tian,Heng-Ci;Tang,Hong;Li,Jinning;Hao,Jialong;Shan,Liyu;Zhang,Xiaojing;He,Huaiyu;He,Zhiping;Lin,Wei;Lin,Yangting;Wei,Yong;	10.1038/s41561-025-01819-9
2025	PLANETOLOGY	Nature	The variety and origin of materials accreted by Bennu's parent asteroid	Barnes,JesicaJ.;Nguyen,AnnN.;Abernethy,F.A.J.;Bajo,K.;Bekaert, D.V.;Bloch,Elias;Brennecka,G.A.;Busemann,Henner;Cowpe,J.S.;Crowther,S.A.;Ek,M.;Fawcett,L.J.;Fehr,M.A.;Franchi,I.A.;Füri,E.;Gilmour,J.D.;Grady,M.M.;Greenwood,R.C.;Haenecour,P.;Kawasaki,N.;Koefoed,P.;Krietsch,D.;Le,L.;Liszewska,K.M.;Maden,C.;Malley,J.;Marrocchi,Y.;Marty,B.;Meyer,L.A.E.;Peretyazhko,T.S.;Piani,L.;Render,J.;Russell,S.S.;Rüfenacht,M.;Sakamoto,N.;Schönbächler,M.;Sholenberger,Q.R.;Smith,L.;Thomas-Keprta,K.;Verchovsky,A.B.;Villeneuve,J.;Wang,K.;Welten,K.C.;Wimpenny,J.;Worsham,E.A.;Yurimoto,H.;Zimmermann,L.;Zhao,X.;Alexander,C.M.O'D.;Amini,M.;Baczynski,A.;Bland,P.;Borg,L.E.;Burgess,R.;Caffee,M.W.;Chaves,L.C.;Clay,P.L.;Dworkin,J.P.;Foustoukos,D.I.;Glavin,D.P.;Hamilton,V.E.;Hill,D.;House,C.H.;Huss,G.R.;Ireland,T.;Jilly,C.E.;Jourdan,F.;Keller,L.P.;Kruijer,T.S.;Lai,V.;McCoy,T.J.;Nagashima,K.;Nishiizumi,K.;Ogliore,R.;Ong,I.J.;Reddy,S.M.;Rickard,W.D.A.;Sandford,S.;Saxey,D.W.;Timms,N.;Weis,D.;Wilbur,Z.E.;Zega,T.J.;DellaGiustina,D.N.;Wolner,C.W.V.;Connolly,H.C.;Lauretta,D.S.;	10.1038/s41550-025-02631-6
2025	PLANETOLOGY	Earth and Planetary Science Letters	Microscale hydrogen, carbon, and nitrogen isotopic diversity of organic matter in asteroid Ryugu	Nittler,LarryR.;Barosch,Jens;Burgess,Katherine;Stroud,RhondaM.;Wang,Jianhua;Yabuta,Hikaru;Enokido,Yuma;Matsumoto,Megumi;Nakamura,Tomoki;Kebukawa,Yoko;Yamashita,Shohei;Takahashi,Yoshio;Bejach,Laure;Bonal,Lydie;Cody,GeorgeD.;Dartois,Emmanuel;Dazzi,Alexandre;De Gregorio,Bradley;Deniset-Besseau,Ariane;Duprat,Jean;Engrand,Cécile;Hashiguchi,Minako;Kilcoyne,A.L.David;Komatsu,Mutsumi;Martins,Zita;Mathurin,Jérémie;Montagnac,Gilles;Mostefaoui,Smail;Okumura,Taiga;Quirico,Eric;Remusat,Laurent;Sandford,Scott;Shigenaka,Miho;Suga,Hiroki;Takeichi,Yasuo;Tamenori,Yusuke;Verdier-Paoletti,Maximilien;Wakabayashi,Daisuke;Abe,Masanao;Kamide,Kanami;Miyazaki,Akiko;Nakato,Aiko;Nakazawa,Satoru;Nishimura,Masahiro;Okada,Tatsuaki;Saiki,Takanao;Tanaka,Satoshi;Terui,Fuyuto;Usui,Tomohiro;Yada,Toru;Yogata,Kasumi;Yoshikawa,Makoto;Yurimoto,Hisayoshi;Noguchi,Takaaki;Okazaki,Ryuji;Naraoka,Hiroshi;Sakamoto,Kanako;Tachibana,Shogo;Watanabe,Sei-ichiro;Tsuda,Yuichi;	10.1016/j.epsl.2024.118719
2025	PLANETOLOGY	Science	Lunar dichotomy in surface water storage of impact glass beads	He,Huicun;Hu,Sen;Gao,Liang;Li, Ruiying;Hao, Jialong;Mitchell, Ross N.;Lu, Kai;Gao, Yubing;Li, Linxi;Qiu, Mengfan;Zhou,Zhan;Yang, Wei;Cai,Shuhui;Chen,Yi;Jia,Lihui;Li, Qiu-Li;Hui, Hejiu;Lin, Yangting;Li, Xian-Hua;Wu, Fu-Yuan;	10.1038/s41467-025-60388-y
2025	PLANETOLOGY	Meteoritics and Planetary Science	Isotopic analysis of tochilinite (carbonate and magnetite) in Winchcombe: Temperature constraints on early-stage aqueous alteration in the CM parent body	Suttle,M. D. ;Findlay,R.;Franchi,IanA.;Biagioni,C.;Zhao,X.;Abernethy,F. A.J.;Riches,L.;Folco,L.;	10.1111/maps.70043
2025	PLANETOLOGY	Geochimica and Cosmochimica Acta	Sulfur outgassing and in-gassing in lunar orange glass beads and implications for 33S "Anomaly" in the Moon	Su,Xue;Zhang,Youxue;Liu,Yang;	
2025	PLANETOLOGY	Icarus	Lunar volcanic gas cloud chemistry: Constraints from glass bead surface sublimates	Williams,T.A.;Parman,S.W.;Saal,AlbertoE.;Akey,A.J.;Gardener,J.A.;Ogliore,RyanC.;	10.1016/j.icarus.2025.116607
2025	PLANETOLOGY	Nature Communications	A more reduced mantle beneath the lunar South Pole–Aitken basin	Zhang, Huijuan;Yang,Wei;Zhang,Di;Hao,Jialong;Liu,Xiaoying;Zhu,Hongganng;Mitchell,RossN.;Jia,Lihui;Fan,Yunhong;Wu,Shitou;Gu,Lixin;Tang,Xu;Tian,Heng-Ci;Pei,Junling;Lin,Yangting;Li,Xian-Hua;Wu,Fu-Yuan;	10.1038/s41467-025-62341-5
2025	PLANETOLOGY	Contributions to Mineralogy and Petrology	Compositional complexity of heterogeneous impact glasses in lunar soils: significance and pitfalls	Zhang, Qian W. L.;Su, Bin;Lanari, Pierre;Liu, Jia-Hui;Hao, Jia-Long;Liu, Yu;Chen, Liu-Yang;Zhang, Di;Yuan, Jiang-Yan;Wang, Juan;Li, Xian-Hua;Li, Qiu-Li	10.1007/s00410-025-02220-w
2025	PLANETOLOGY	Earth and Planetary Science Letters	The inventory of OH and H2O in the non-polar regions of the Moon	Yu,Wen;Yan,Hao ;Tang,Hong ;Li,Xiongyao;Wei,Yu;Bao,Huiming;Zhou,Chuanjiao;Mo, Bing ;Wu, Yanxue ;Luo,Haiyang;Hao,Jialong;Li, Ruiying;Wei, Guangfei ;Zeng, Xiaojia ;Liu , Jianzhong ;	10.1016/j.epsl.2025.119263
2025	PLANETOLOGY	Meteoritics and Planetary Science	Composition and origin of the Chang'E-5 regolith breccias	Chen, Zhi-Ming;Zhang,Le;Wang,Cheng-Yuan;Yang,Ya-Nan;He,Peng-Li;Xian,Hai-Yang;Xia,Xiao-Ping;Zhu,Jian-Xi;Xu,Yi-Gang;	10.1111/maps.70042
2025	PLANETOLOGY	Monthly Notices of the Royal Astronomical Society	Solar Wind Implantation-Diffusion at Middle Latitudes on the Lunar Surface: Evidence from D+ Implantation Experiments	Chuanjiao Zhou , Hong Tang , Siting Zhang , Xiongyao Li , Xiandi Zeng , Wen Yu , Bing Mo , Yuanyun Wen , Tian Zhang , Yanxue Wu , Jianzhong Liu	10.1093/mnras/staf2197
2026	PLANETOLOGY	Geochimica and Cosmochimica Acta	Anhydrous lithic clasts in four CM2 carbonaceous chondrites derived from a thermally metamorphosed planetesimal with CM and CY affinities	Lee,MartinR.;Griffin,Sammy;Findlay,Ross;Zhao,Xuchao;Franchi,IanA.;	10.1016/j.gca.2025.12.051
2026	PLANETOLOGY	Geological Society, London, Special Publications	Petrography, geochronology, and volatile inventory of lunarmeteorite Northwest Africa 12593	Hayden,TaraS.;Barrett,ThomasJ.;Anand,Mahesh;Whitehouse,MartinJ.;Jeon,Heejin;Zhao,Xuchao;Mechem,MarcE.;Osinski,GordonR.;Franchi,Ian.;	10.1144/gslspecpub2025-70
2026	PLANETOLOGY	Research Square	Chondrule Fragments in Particles from theCarbonaceous Asteroid (101955) Bennu	Thomas-Keprta,Kathie;Le,Loan;Clemett,Simon;Seifert,Laura;Keller,Lindsay;Nguyen,Ann;Harrington,Roger;Hanna,Romy;Rahman,Zia;Erickson,Timmons;Suess,Leonard;Gorce,Jennifer;McCoy,Tim;Russel,Sara;Connolly,HaroldJr;Lauretta,Dante;	10.21203/rs.3.rs-8896456/v1
2026	PLANETOLOGY	Science Advances	Impact-processed nitrogen-bearing organics in Chang'e-5 and Chang'e-6 lunar regolith	Dong, Mingtan;Hao,Jialong;Changela, H. G.;Tian, Hengci;Huang, Shengxuan;He, Yuyang;Liu, Xiaochun;Li, Xiaoguang;Hu, Sen;Yang, Wei;Lin, Yangting;	10.1126/sciadv.aed4951
2026	PLANETOLOGY	Meteoritics and Planetary Science	Aqueous alteration in C2-ung Bells through the analysis of carbonates – Does a CR origin ring true?	Riches, L.J.;Suttle,M.D.;Franchi,IanA.;Zhao,X.;Grady,M.M.;	10.1111/maps.70150
2026	PLANETOLOGY	JGR Planets	Late Bombardment of Carbonaceous Asteroids Recorded in Chang'e-6 Lunar Metals	Liu,Xiaoying;Hao, Jialong ;Li, Jing ;Tian, Heng-Ci ;Hu, Sen ;Yue, Zongyu ;Chen, Yi ;Yang, Wei ;Jia, Lihui ;Gu, Lixin ;Mitchell, Ross N. ;Lin, Douglas N. C. ;Lin, Yangting ;Li, Xianhua ;Wu,Fuyuan;	10.1029/2026JE009653Digital Object Identifier (DOI)
2007	PLANT	International Journal of Mass Spectrometry	NanoSIMS and EPMA analysis of nickel localisation in leaves of the hyperaccumulator plant Alyssum lesbiacum.International Journal of Mass Spectrometry 260 (2007) P.107–114	Smart,K.E.;Kilburn,Matt R.;Salter,C.J.;Smith,J.A.C.;Grovenor,Chris R.M.;	10.1016/j.ijms.2006.08.011
2009	PLANT	Environmental and Experimental Botany	Use of phosphate to avoid uranium toxicity in Arabidopsis thaliana leads to alterations of morphological and physiological responses regulated by phosphate availability. . 67 (2009) 353–362.	Misson,Julie;Henner,Pascale;Morello,Marcel;Floriani,Magali;Wu,Ting-Di;Guerquin-Kern,Jean-Luc;Fevrier,Laureline;	
2010	PLANT	New Phytologist	NanoSIMS analysis of arsenic and selenium in cereal grain, 185: 434–445	Moore,Katie L.;Schroder,Markus;Lombi,Enzo;Zhao,Fang-Jie;McGrath,Steve P.;Hawkesford,Malcolm J.;Shewry,Peter R.;Grovenor,Chris R. M.;	
2010	PLANT	The Plant Journal	High-resolution elemental localization in vacuolate plant cells by nanoscale secondary ion mass spectrometry, 63, 870–879.	Smart,Katharine E.;Smith,J. Andrew C.;Kilburn,Matt R.;Martin,Barrie G. H.;Hawes,Chris;Grovenor,Chris R. M.;	
2011	PLANT	Plant Physiology	High-Resolution Secondary Ion Mass Spectrometry Reveals the Contrasting Subcellular Distribution of Arsenic and Silicon in Rice Roots, V156, p913–92.	Moore,Katie L.;Schroder,Markus;Wu,Zhongchang;Martin,Barry G.H.;Hawes,Chris R.;McGrath,Steve P.;Hawkesford,Malcolm J.;Ma,Jian Feng;Zhao,Fang-Jie;Grovenor,Chris R.M.;	

2012	PLANT	Journal of Cereal Science	Localisation of iron in wheat grain using high resolution secondary ion mass spectrometry. . 55 (2012) 183-187	Moore,Katie L.;Zhao,Fang-Jie;Gritsch,Cristina S.;Tosi,Paola;Hawkesford,Malcolm J.;McGrath,Steve P.;Shewry,Peter R.;Grovenor,Chris R.M.;	
2012	PLANT	Chemosphere	Visualization and localization of bromotoluene distribution in Hedera helix using NanoSIMS. . 89 (2012) 805–809	Tartivel,Ronan;Tatin,Romuald;Delhaye,Thomas;Maupas,Arthur;Gendron,Amaury;Gautier,Samy;Lavastre,Olivier;	
2012	PLANT	Journal of Hazardous Materials	Root uptake and phytotoxicity of nanosized molybdenum octahedral clusters. Journal of Hazardous Materials 219– 220 (2012) 111– 118	Aubert,Tangi;Burel,Agnes;Esnault,Marie-Andree;Cordier,Stephane;Grasset,Fabien;Cabello-Hurtado,Francisco;	10.1016/j.jhazmat.2012.03.058
2013	PLANT	Environmental Microbiology	An arbuscular mycorrhizal fungus modifies the soil microbial community and nitrogen cycling during litter decomposition, 15:1870-81. LLNL-JRNL-554312	Nuccio,Erin E.;Hodge, Angela;Pett-Ridge, Jennifer;Herman, Donald J.;Weber,Peter K.;Firestone,Mary K.;	10.1111/1462-2920.12081
2013	PLANT	Surf. Interface Anal.	High resolution SIMS analysis of arsenic in rice. . 2013, 45, 309–311	Moore,Katie L.;Hawes,Chris R.;McGrath,Steve P.;Zhao,Fang-Jie;Grovenor,Chris R. M.;	
2013	PLANT	New Phytologist	Competition between plant and bacterial cells at the microscale regulates the dynamics of nitrogen acquisition in wheat (Triticum aestivum). . (2013) doi: 10.1111/nph.12405	Jones,David L.;Clode,Peta L.;Kilburn,Matt R.;Stockdale,Elizabeth A.;Murphy,Daniel V.;	
2014	PLANT	Nature Chemical Biology	Subcellular metal imaging identifies dynamic sites of Cu accumulation in Chlamydomonas. Nature Chemical Biology. 2014 Dec;10(12):1034-42. doi: 10.1038/nchembio.1662. Epub 2014 Oct 26.	Hong-Hermesdorf,Anne;Miethke,Marcus; Gallaher,Sean D.;Kropat,Janette;Dodani,Sheel C.;Chan,Jefferson;Barupala,Dulmini;Domaille,Dylan W.;Shirasaki,Dyna I.;Loo ,Joseph A.;Weber,Peter K.;Pett-Ridge,Jennifer;Stemmler,Timothy L.;Chang,Christopher J.,Merchant,Sabeeha S.;	
2014	PLANT	Plant, cell and environment	High-resolution secondary ion mass spectrometry analysis of carbon dynamics in mycorrhizas formed by an obligately myco-heterotrophic orchid, 37, 1223–1230	Bougoure,Jeremy J.;Ludwig,Martha;Brundrett,Mark;Cliff,John;Clode,Peta;Kilburn,Matt R.;Grierson,Pauline;	
2014	PLANT	Trends in Plant Science	Imaging element distribution and speciation in plant cells. . March 2014, Vol. 19, No. 3	Zhao,Fang-Jie;Moore,Katie L.;Lombi,Enzo;Zhu,Yong-Guan;	
2014	PLANT	Plant morphology	Elemental imaging of biological samples with high lateral resolution secondary ion mass spectrometry. . . Volume 26 (2014) Issue 1	Takeuchi,Miyuki;	10.5685/plmorphol.26.19
2014	PLANT	Journal of Cereal Science	Localization of iron in rice grain using synchrotron X-ray fluorescence microscopy and high resolution secondary ion mass spectrometry. 59 (2014) 173-180	Kyriacou,Bianca;Moore,Katie L.;Paterson,David;deJonge,Martin D.;Howard,Daryl L.;Stangoulis,James;Tester,Mark;Lombi,Enzo;Johnson,Alexander A.T.;	
2014	PLANT	New Phytologist	Combined NanoSIMS and synchrotron X-ray fluorescence reveal distinct cellular and subcellular distribution patterns of trace elements in rice tissues. (2014) 201: 104–115	Moore,Katie L.;Chen, Yi ;van de Meene,Allison M. L.;Hughes,Louise;Liu,Wenju;Geraki,Tina;Mosselmans,Fred;McGrath,Steve P.;Grovenor,Chris;Zhao,Fang-Jie;	
2015	PLANT	Plant Science	K+ accumulation in the cytoplasm and nucleus of the salt gland cells of Limonium bicolor accompanies increased rates of salt secretion under NaCl treatment using NanoSIMS., 238 (2015), pp. 286-296. https://doi.org/10.1016/j.plantsci.2015.06.021	Feng,Zhong-Tao;Deng,Yun-Quan;Zhang,Shi-Chao;Liang,Xue;Yuan, Fang;Hao,Jia-Long;Zhang,Jian-Chao;Sun,Shu-Feng;Wang,Bao-Shan;	
2015	PLANT	New Phytologist	Exploring the transfer of recent plant photosynthates to soil microbes: mycorrhizal pathway vs direct root exudation. (2015) 205: 1537–1551	Kaiser,Christina;Kilburn,Matt R.;Clode,Peta L.;Fuchslueger,Lucia;Koranda,Marianne;Cliff,John B.;Solaiman,Zakaria M.;Murphy,Daniel V.	10.1111/nph.13138
2015	PLANT	Plant Physiology	Identification of the Primary Lesion of Toxic Aluminum in Plant Roots. . , April 2015, Vol. 167, pp. 1402–1411	Kopittke,Peter M.;Moore,Katie L.;Lombi,Enzo;Gianoncelli,Alessandra;Ferguson,Brett J.;Blamey,F. Pax C.;Menzies,Neal W.;Nicholson,Timothy M.;McKenna,Brigid A.;Wang,Peng;Gresshoff,Peter M.;Kourousias,George;Webb,Richard I.;Green,Kathryn;Tollenaere,Alina;	
2015	PLANT	Developmental Cell	Iron-Dependent Callose Deposition Adjusts Root Meristem maintenance to Phosphate Availability.. 33, 216–230	Muller,Jens;Toev,Theresa;Heisters,Marcus;Teller,Janine;Moore,Katie L.;Hause,Gerd;Chandrasekaran Dinesh Dhurvas;Burstenbinder,Katharina;Abel,Steffen;	
2016	PLANT	Journal of Trace Elements in Medicine and Biology	Chemical bioimaging for the subcellular localization of trace elements by high contrast TEM, TEM/X-EDS, and NanoSIMS. . 37 (2016) 62–68	Perrun,Florent;Malherbe,Julien;Isaure,Marie-Pierre,Dobritzsch,Dirk;Bertalan,Ivo;Gontier,Etienne;Le Coustumer,Philippe;Schaumloffel,Dirk;	
2016	PLANT	Plant Biotechnology Journal	The Dynamics of Protein Body Formation in Developing Wheat Grain. . February 2016.	Moore,Katie L.;Tosi,Paola;Palmer,Richard;Hawkesford,Malcolm J.;Grovenor,Chris R.M.;Shewry,Peter R.;	
2017	PLANT	Annals of Botany	Exploring fungus–plant N transfer in a tripartite ant–plant–fungus mutualism. . Volume 120, Issue 3, 1 September 2017, Pages 417–426, https://doi.org/10.1093/aob/mcx064. Published: 13 June 2017	Leroy,Celine;Jauneau,Alain;Martinez,Yves;Cabin-Flaman,Armelle;Gibouin,David;Orivel,Jerome;Sejalon-Delmas,Nathalie;	
2017	PLANT	ACS SustainableChemEng	Unusual Accumulation of Silver in the Aleurone Layer of an Indian Rice (Oryza sativa) Landrace and Sustainable Extraction of the Metal. . 2017, 5 (9), pp 8310–8315. Publication Date (Web): August 4, 2017 (Research Article). DOI: 10.1021/acssuschemeng.7b02058	Gupta,Soujit Sen;Baksi,Ananya;Roy,Priyabrata;Deb,Debal;Pradeep,Thalappil;	
2018	PLANT	New Phytologist	Manganese distribution and speciation help to explain the effects of silicate and phosphate on manganese toxicity in four crop species. . . Record online : 1 NOV 2017, DOI: 10.1111/nph.14878	Blamey,F. Pax C. ;McKenna, Brigid A. ;Li, Cui ;Cheng, Miaomiao ;Tang, Caixian ;Jiang,Haibo ;Howard, Daryl L. ;Paterson, David J. ;Kappen, Peter ;Wang,Peng ;Menzies, Neal W.;Kopittke,Peter M.;	
2018	PLANT	Journal of Trace Elements in Medicine and Biology	Rough and tough. How does silicic acid protect horsetail from fungal infection? . 47 (2018) 45–52 . doi.org/10.1016/j.jtemb.2018.01.015	Guerriero,Gea;Law,Chinnoi;Stokes,Ian,Moore,Katie L.;Exley,Christopher;	
2018	PLANT	Scientific Reports	The stage of seed development influences iron bioavailability in pea (Pisum sativum L.) Scientific Reports volume 8, Article number: 6865 (2018) doi.org/10.1038/s41598-018-25130-3	Moore,Katie L.;Rodriguez-Ramiro,Ildefonso;Jones,Eleanor R.;Jones,Emily J.;Rodriguez-Celma,Jorge;Halsey,Kirstie;Domoney,Claire;Shewry,Peter R.;Fairweather-Tait,Susan;Balk,Janneke;	10.1038/s41598-018-25130-3
2018	PLANT	PLANT CELL AND ENVIRONMENT	Sulfate is transported at significant rates through the symbiosome membrane and is crucial for nitrogenase biosynthesis. 1. PLANT CELL AND ENVIRONMENT, 2018. First published: 15 November 2018. https://doi.org/10.1111/pce.13481	Schneider,Sebastian;Schintlmeister,Arno;Becana,Manuel;Wagner, Michael;Woebken,Dagmar;Wienkoop,Stefanie;	
2018	PLANT	Annals of Botany	Absorption of foliar-applied Zn in sunflower (Helianthus annuus): importance of the cuticle, stomata and trichomes, mcy135	Li,Cui;Wang,Peng;vanderEnt,Antony;Cheng,Miaomiao;Jiang,Haibo ;LundRead,Thea;Lombi,Enzo;Tang,Caixian;deJonge,Martin D.;Menzies,Neal W.;Kopittke,Peter M.;	10.1093/aob/mcy135
2019	PLANT	JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY	Why is NanoSIMS imaging of arsenic in seaweed (Laminaria digitata) important for understanding of arsenic biochemistry in addition of speciation information?. Journal of Analytical Atomic Spectrometry. 18 Sep 2019 . 10.1039/C9JA00187E	Ender,Eleanor;Subirana,Maria Angels;Raab,Andrea;Krupp,Eva M.;Schaumloffel,Dirk;Feldmann,Jorg;	
2019	PLANT	Journal of Hazardous Materials	Assessment of indium toxicity to the model plant Arabidopsis	Chang,Hsin-Fang;Wang,Shan-Li;Lee,Der-Chuen;Sung-Yun Hsiao,Silver;Hashimoto,Yohey;Yeh,Kuo-Chen;	10.1016/j.jhazmat.2019.121983
2019	PLANT	Journal of environmental research and public health	Zinc and Cadmium Mapping in the Apical Shoot and Hypocotyl Tissues of Radish by High-Resolution Secondary Ion Mass Spectrometry (NanoSIMS) after Short-Term Exposure to Metal Contamination. . . 2019, 16, 373	Ondrasek,Gabrijel;Clode,Peta L.;Kilburn,Matt R.;Guagliardo,Paul;Romic,Davor;Rengel,Zed;	
2019	PLANT	Ecotoxicology and Environmental Safety	Zinc and cadmium mapping by NanoSIMS within the root apex after short-term exposure to metal contamination,v171,pp571-578	Ondrasek,Gabrijel;Rengel,Zed;Clode,Peta L.;Kilburn,Matt R.;Guagliardo,Paul;Romic,Davor;	10.1016/j.ecoenv.2019.01.021
2019	PLANT	Plant Science	Identification of the aquaporin gene family in Cannabis sativa and evidence for the accumulation of silicon in its tissues. . Volume 287, October 2019, 110167. doi.org/10.1016/j.plantsci.2019.110167	Guerriero,Gea;Deshmukh,Rupesh;Sonah,Humira;Sergeant,Kjell;Hausman,Jean-Francois;Lentzen,Esther;Valle,Nathalie;Sohail Siddiqui,Khawar;Exley,Christopher;	
2019	PLANT	Cells	(Review article) Visualising Silicon in Plants: Histochemistry, Silica Sculptures and Elemental Imaging. . 2020, 9(4), 1066; https://doi.org/10.3390/cells9041066	Guerriero,Gea;Stokes,Ian;Valle,Nathalie;Hausman,Jean-Francois;Exley,Christopher;	
2019	PLANT	Nutrition bulletin	Improving wheat as a source of iron and zinc for global nutrition. . Jan 2019	Balk, J. ;Connorton, J. M. ;Wan, Y. ;Lovegrove, A. ;Moore, Katie L.; Uauy,C. ;Sharp, P. A. ;Shewry,Peter R.;	
2021	PLANT	Nature Communications	Coalescence and directed anisotropic growth of starch granule initials in subdomains of Arabidopsis thaliana chloroplasts	Burgy,Leo;Eicke,Simona;Kopp,Christophe;Jenny,Camilla;Lu,Kuan Jen;Escrig,Stephane;Meibom,Anders;Zeeman,Samuel C.;	10.1038/s41467-021-27151-5
2021	PLANT	New Phytologist	Subcellular dynamics studies reveal how tissue-specific distribution patterns of iron are established in developing wheat grains	Sheraz,Sadia;Wan,Yongfang;Venter,Eudri;Verma,Shailender K.;Xiong,Qing;Waites,Joshua;Connorton,James M.;Shewry,Peter R.;Moore,Katie L.;Balk,Janneke;	10.1101/2021.02.14.431124
2021	PLANT	New Phytologist	Plants and mycorrhizal symbionts acquire substantial soil nitrogen from gaseous ammonia transport	Hestrin,Rachel;Weber,Peter K.;Pett-Ridge,Jennifer;Lehmann,Johannes;	
2022	PLANT	Journal of Hazardous Materials	Uptake of atmospherically deposited cadmium by leaves of vegetables: subcellular localization by NanoSIMS and potential risks	Ouyang,Xiaoxue;Ma,Jie;Zhang,Ran;Li,Pan;Gao,Man;Sun,Chuanqianq;Weng,Liping;Chen,Yali;Yan,Sun;Li,Yongtao;	10.1016/j.jhazmat.2022.128624
2022	PLANT	Journal of Cereal Science	The location of iron and zinc in grain of conventional and biofortified lines of sorghum	Gaddameedi,Anil;Sheraz,Sadia;Kumar,Ashok;Li,Kexue;Pellny,Till;Gupta,Rajeev;Wan,Yongfang;Moore,Katie L.;Shewry,Peter R.;	10.1016/j.jcs.2022.103531
2022	PLANT	Fundamental Reseasrch	Root exudate chemistry affects soil carbon mobilization via microbial community reassembly	Wen,Tao;Yu,Guang-Hui;Hong,Wen-Dao;Yuan,Jun;Niu,Guo-Qing;Xie,Peng-Hao;Suyn,Fu-Sheng;Guo,Lao-Dong;Kuzyakov,Yakov;ShenQi-Rong;	10.1016/j.fmre.2021.12.016
2022	PLANT	Cereal Research Communications	The sub-cellular distribution of Zn and trace elements in the wheat grain: in situ imaging using a NanoSIMS	Wang,Chen;Lu,Yunlang;Wang,Jianhua;Zhong,Cong;	10.1007/s42976-022-00269-y
2023	PLANT	New Phytologist	Gold-FISH enables targeted NanoSIMS analysis of plant-associated bacteria	Schmidt,hannes;Gorka,Stefan;Seki,David;Schintlmeister,Arno;Woebken,Dagmar;	
2023	PLANT	Journal of Hazardous Materials	Speciation and distribution of chromium (III) in rice root tip and mature zone: The significant impact of root exudation and iron plaque on chromium bioavailability	Zandi, Peiman;Xia, Xing;Yang, Jianjun;Liu, Jin;Laurent, Remusat;Rumpel, Cornelia;Bloem, Elke;Krasny, Beata Barabasz;Schnug, Ewald	10.1016/j.jhazmat.2023.130992
2023	PLANT	New Phytologist	Exo- and endophytic fungi enable rapid transfer of nutrients from ant waste to orchid tissue	Gegenbauer,Christian;Bellaire,Anke;Schintlmeister,Arno;Schmid,Markus C.;Kubicek,Markus;Voglmayr,Hermann;Zotz,Gerhard;Richter,Andreas;Mayer,Veronika E.;	10.1111/nph.18761
2024	PLANT	Soil Biology and Biochemistry	Getting to the root of the problem: Soil carbon and microbial responses to root inputs within a buried paleosol along an eroding hillslope in southwestern Nebraska, USA	McMurtry,AbbygailR.;Kasmerchak,ChaseS.;Vaughan,ElliotA.;Dolui, Manisha;Phillips,LauraM.;Mueller,CarstenW.;Pett-Ridge,Jennifer;Berhe,AsmeretAsefaw;Mason,JosephA.;Marin-Spiotta,Erika;deGraaff,Marie-Anne;	10.1016/j.soilbio.2024.109549
2024	PLANT	communications earth & environment	Root exudates simultaneously form and disrupt soil organo-mineral association	Shabtai,Itamar ;Hafner, Benjamin ;Schweizer, Steffen ;Hoeschen,Carmen;Possinger,Angela;Lehmann,Johannes;Bauerle, Taryn;	10.21203/rs.3.rs-4613177/v1
2024	PLANT	New Phytologist	Arbuscular mycorrhiza convey significant plant carbon to a diverse hyphosphere microbial food web and mineral-associated organic matter	Kakouridis,Anne;Yuan,Mengting;Nuccio,ErinE.;Hagen,JohnA.;Fossum,ChristinaA.;Moore,MadelineL.;Estera-Molina,KaterinaY.;Nico,PeterS.;Weber,PeterK.;Pett-Ridge,Jennifer;Firestone,MaryK.;	10.1111/nph.19560
2024	PLANT	Communications Biology	Mycorrhizal C/N ratio determines plant-derived carbon and nitrogen allocation to symbiosis	Pena,Rodica;Bluhm,Sarah L.;Ammerschubert, Silke;Agui-Gonzalez,Paola;Rizzoli,Silvio O.;Scheu,Stefan;Polle,Andrea;	10.1038/s42003-023-05591-7

2024	PLANT	Physioloia Plantarum	Iron status and root cell morphology of Arabidopsis thaliana as modified by a bacterial ferri-siderophore	Avoscan,Laure;Lurthy,Tristan;Lherminier,Jeannine;Arnould,Christine;Loria,Pierre-Manuel;Wu,Ting-Di;Guerquin-Kern,Jean-Luc;Pivato,Barbara;Lemaître,Jean-Paul;Lemanceau,Philippe;Mazurier,Sylvie;	10.1111/ppl.14223
2024	PLANT	Environmental Science & Technology	Impact of Rhizosphere Biostimulation on Cd Transport and Isotope Fractionation in Cd-Tolerant and Hyperaccumulating Plants Based on MC-ICP-MS and NanoSIMS	Wei, Rongfei;Liu, Yizhang;Kang, Fengxin;Tian, Liyan;Wei, Qiang;Li, Zhiying;Xu, Pei;Hu, Huiying;Tan, Qiyu;Zhao, Changqiu;Li, Wei;Guo, Qingjun;	10.1021/acs.est.4c03674
2025	PLANT	Journal of Biological Chemistry	Application of NanoSIMS and isotopic labelling to analyze spatial distribution of the plant iron chelator nicotianamine	Nozoye,Tomoko;Takeuchi,Miyuki;Hollmann,Fabian;Clemens,Stephan ;	10.1016/j.jbc.2025.110478
2025	PLANT	Nature	Elemental cryo-imaging reveals SOS1-dependent vacuolar sodium accumulation	Ramakrishna,Priya;Gamez-Arjona,FranciscoM.;Bellani,Etienne;Martin-Olmos,Cristina;Escrig,Stephane;DeBellis,Damien;De Luca,Anna ;Pardo,JoseM. ;Quintero,FranciscoJ.;Genoud,Christel ;Sanchez-Rodriguez,Clara ;Geldner,Niko ;Meibom,Anders;	10.1038/s41586-024-08403-y
2025	PLANT	Journal of Hazardous Materials	Deciphering uptake mechanisms of potentially toxic elements in seaweeds using high resolution imaging analysis	Vazquez-Arias,Anton;Rodriguez-Prieto,Conxi;Yamada,Yosuke;Ito, Motoo;Fernandez,JAngel ;Aboal,JesusR.;	10.1016/j.jhazmat.2025.139646
2007	SOIL	Rapid Communication Mass Spectrometry	A novel method for the study of the biophysical interface in soils using nano-scale secondary ion mass spectrometry, 21: 29–34	Herrmann,Anke M;Clode,Peta L.;Fletcher,Ian R.;Nunan,Naoise;Stockdale,Elizabeth A.;O'Donnell,Anthony G.;Murphy,Daniel V.	
2009	SOIL	Plant Physiology	In Situ Mapping of Nutrient Uptake in the Rhizosphere Using Nanoscale Secondary Ion Mass Spectrometry. . December 2009, Vol. 151, pp. 1751–1757.	Clode,Peta L.;Kilburn,Matt R.;Jones,David L.;Stockdale,Elizabeth A.;Cliff III,John B.;Herrmann,Anke M.;Murphy,Daniel V.;	
2012	SOIL	Environ Sci Technol	NanoSIMS study of organic matter associated with soil aggregates: advantages, limitations, and combination with STXM,46(7):3943-9.	Remusat,Laurent;Hatton,Pierre-Joseph;Nico,Peter S.;Zeller,Bernd;Kleber,Markus;Derrien,Delphine	
2012	SOIL	Geochimica et Cosmochimica Acta	Nano-scale investigation of the association of microbial nitrogen residues with iron (hydr)oxides in a forest soil O-horizon. v95: 213-226	Keiluweit,Marco;Bougoure,Jeremy J.;Zeglin,Lydia H.;Myrold,David D.;Weber,Peter K.;Pett-Ridge,Jennifer;Kleber,Markus;Nico,Peter S.;	
2012	SOIL	Rapid Commun Mass	A multi-scale approach to determine accurate elemental and isotopic ratios by nano-scale secondary ion mass spectrometry imaging,26(11):1363-71.	Hatton,Pierre-Joseph;Remusat,Laurent;Zeller,Bernd;Derrien,Delphine	
2012	SOIL	Biogeochemistry	Understanding the fate and linkage of N and S in earthworm-engineered peat soil by coupling stable isotopes and nano-scale secondary ion mass spectrometry. , March 2012.	Gicquel,Aurelien;Francez,Andre-Jean;Delhaye,Thomas;Gruau,Gerard;Hallaire,Vincent;Binet,Francoise;	
2013	SOIL	Environmental Science & Technology	STXM and NanoSIMS Investigations on EPS Fractions before and after Adsorption to Goethite. . Environmental Science & Technology, 2013, 47 (7), pp 3158–3166	Liu,Xinran;Eusterhues,Karin;Thieme,Jurgen;Ciobota,Valerian;Hoschen,Carmen;Mueller,Carsten W.;Kusel,Kirsten;Kogel-Knabner,Ingrid;Rosch,Petra;Popp,Jurgen;Totsche,Kai U.;	
2014	SOIL	Environ Sci Technol	Carbon mineralizability determines interactive effects on mineralization of pyrogenic organic matter and soil organic carbon. . 2014 Dec 2;48 (23):13727-34. doi: 10.1021/es503331y. Epub 2014 Nov 13.	Whitman,Thea; Zhu,Zihua;Lehmann,Johannes;	
2014	SOIL	Nature Communications	Submicron structures provide preferential spots for carbon and nitrogen sequestration in soils. . Nature Communications, 7 Jan 2014. DOI:10.1038/ncomms3947	Vogel,Cordula;Mueller,Carsten W.;Hoschen,Carmen;Buegger,Franz;Heister,Katja;Schulz,Stefanie;Schloter,Michael;Kogel-Knabner,Ingrid;	10.1038/ncomms3947
2015	SOIL	Biogeochemistry	NanoSIMS investigation of glycine-derived C and N retention with soil organo-mineral associations	Hatton,Pierre-Joseph;Remusat,Laurent;Zeller,Bernd;Brewer,Elizabeth A.;Derrien,Delphine;	10.1007/s10533-015-0138-8
2015	SOIL	Environ. Sci. Technol	Novel Sample Preparation Technique To Improve Spectromicroscopic Analyses of Micrometer-Sized Particles. . . 2015, DOI: 10.1021/acs.est.5b01636	Hoschen,Carmen;Hoschen,Till;Mueller,Carsten W.;Lugmeier,Johann;Elgeti,Stefan;Rennert,Thilo;Kogel-Knabner,Ingrid;	
2015	SOIL	FEMS Microbiology Ecology	Advancements in the application of NanoSIMS and Raman microspectroscopy to investigate the activity of microbial cells in soils FEMS Microbiology Ecology, 91, 2015, fiv106	Eichorst,Stephanie A.;Strasser,Florian;Woyke,Tanja;Schintlmeister,Arno;Wagner,Michael;Woebken,Dagmar ;	
2015	SOIL	Science of The Total Environment	Interactions between natural organic matter, sulfur, arsenic and iron oxides in re-oxidation compounds within riparian wetlands: NanoSIMS and X-ray adsorption spectroscopy evidences. . Science of The Total Environment. Volumes 515–516, 15 May 2015, Pages 118-128 doi.org/10.1016/j.scitotenv.2015.02.047	Al-Sid-Cheikh,Maya;Pedrot,Mathieu;Dia,Aline;Guenet,Helene;Vantelon,Delphine;Davranche,Melanie;Gruau,Gerard;Delhaye,Thomas;	
2015	SOIL	Nature Climate Change	Mineral protection of soil carbon counteracted by root exudates Nature Climate Change 5, 588–595 (2015) doi:10.1038/nclimate2580	Keiluweit,Marco;Bougoure,Jeremy J.;Nico,Peter S.;Pett-Ridge,Jennifer;Weber,Peter K.;Kleber,Markus;	10.1038/nclimate2580
2015	SOIL	Soil Biology & Biochemistry	Nanoscale evidence of contrasted processes for root-derived organic matter stabilization by mineral interactions depending on soil depth . 85 (2015) 82e88	Rumpel,Cornelia;Baumann,Karen;Remusat,Laurent;Dignac,Marie-France;Barr,Pierre;Deldicque,Damien;Glasser,Gunnar;Lieberwirth,Ingo;Chabbi,Abad;	
2016	SOIL	Chemical Geology	Evidence of organic matter control on As oxidation by iron oxides in riparian wetlands. . Chemical Geology-439 , 2016	Guenet,Helene;Davranche,Melanie;Vantelon,Delphine;Pedrot,Mathieu;Al-Sid-Cheikh,Maya;Dia,Aline;Jestin,Jacques;	
2016	SOIL	Soil Biology and Biochemistry	Incorporation of 13C labelled shoot residues in Lumbricus terrestris casts: A combination of transmission electron microscopy and nanoscale secondary ion mass spectrometry . Volume 93, February 2016, Pages 8–16	Vidal,Alix;Remusat,Laurent;Watteau,Francoise;Derenne,Sylvie;Quenea,Katell;	
2016	SOIL	Biogeosciences	New strategies for submicron characterization the carbon binding of reactive minerals in long-term contrasting fertilized soils: implications for soil carbon storage. Biogeosciences, 13, 3607–3618, 2016	Xiao,Jian;He,Xinhua;Hao,Jialong;Zhou,Ying;Zheng,Lirong;Ran,Wei;Shen,Qirong;Yu,Guanghui;	
2017	SOIL	Nature Communications	Mycelium-mediated transfer of water and nutrients stimulates bacterial activity in dry and oligotrophic environments. June 2017. Centler2, Karin Frank4,5,6, Martin Thullner2, Hauke Harms2,5, Hans-Hermann Richnow3, Anja Miltner1, Matthias Kastner1,* & Lukas Y. Wick2,* . Nature Communications. DOI: 10.1038/ncomms15472	Worrich,Anja;Stryhanyuk,Hryhoriy;Musat,Niculina;Konig,Sara;Banitz,Thomas;Centler,Florian;Frank,Karin;Thullner,Martin;Harms,Hauke;Richnow,Hans-Hermann;Miltner,Anja;Kastner,Matthias;Wick,Lukas Y.;	
2017	SOIL	Soils	Legacy of Rice Roots as Encoded in Distinctive Microsites of Oxides, Silicates, and Organic Matter . . , 1, 2017	Kolbl,Angelika;Schweizer,Steffen A.;Mueller,Carsten W.;Hoschen,Carmen;Said-Pullicino,Daniel;Romani,Marco;Lugmeier,Johann;Schluter,Steffen;Kogel-Knabner,Ingrid;	
2017	SOIL	Environ. Sci. Technol.	Identification of Distinct Functional Microstructural Domains Controlling C Storage in Soil	Steffens,Markus;Rogge,Derek M.;Mueller,Carsten W.;Hoschen,Carmen;Lugmeier,Johann;Kolbl,Angelika;Kogel-Knabner,Ingrid;	
2017	SOIL	Geoderma	Microscale soil structures foster organic matter stabilization in permafrost soils	Mueller,Carsten W.;Hoschen,Carmen;Steffens,Markus;Buddenbaum,Henning;Hinkel,Kenneth;Bockheim,James G.;Kao-Kniffin,Jenny;	
2017	SOIL	Scientific Reports	Micro-scale heterogeneity of soil phosphorus depends on soil substrate and depth. . Scientific Reports, June 2017. 7: 3203 | DOI:10.1038/s41598-017-03537-8 3	Werner,Florian;Mueller,Carsten W.;Thieme,Jurgen;Gianoncelli,Alessandra;Rivard,Camille;Hoschen,Carmen;Prietzel,Jorg;	
2017	SOIL	Global Change Biology.	Nitrogen-rich microbial products provide new organo-mineral interactions for the stabilization of soil organic matter. December 2017, DOI10.1111/gcb.14009.	Kopittke,Peter;Hernandez-Soriano,Maria C.;Dalal,Ram C.;Finn,Damien;Menzies,Neal;Hoschen,Carmen;Mueller,Carsten W.;	
2017	SOIL	Chemosphere	Dynamics of PAHs and derived organic compounds in a soil-plant mesocosm spiked with 13C-phenanthrene. . , Volume 168, February 2017, Pages 1619-1627	Cennerazzo,Johanne;deJunet,Alexis;Audinot,Jean-Nicolas;Leyval,Corinne;	10.1016/j.chemosphere.2016.11.145
2018	SOIL	Global Change Biology	Rapid soil formation after glacial retreat shaped by spatial patterns of organic matter accrual in microaggregates,v24,4,pp1637–1650	Schweizer,Steffen A.;Hoschen,Carmen;Schluter,Steffen;Kogel-Knabner,Ingrid;Mueller,Carsten W.;	
2018	SOIL	Tree Physiology	Phosphorus nutrition of Populus × canescens reflects adaptation to high P-availability in the soil. . , Volume 38, Issue 1, 1 January 2018, Pages 6–24	Netzer,Florian; Mueller,Carsten W.;Scheerer,Ursula;Gruner,Jorg;Kogel-Knabner, Ingrid ;Herschbach, Cornelia ; Rennenberg,Heinz;	
2018	SOIL	Frontiers in Environmental Science	Linking 3D Soil Structure and Plant-Microbe-Soil Carbon Transfer in the Rhizosphere. . . February 2018 | Volume 6 | Article 9.	Vidal,Alix;Hirte,Juliane;Bender,S.Franz;Mayer,Jochen;Gattinger,Andreas;Hoschen,Carmen;Schadler,Sebastian;Iqbal,Toufiq M.;Mueller,Carsten W.;	10.3389/fenvs.2018.00009
2018	SOIL	Environmental Pollution	Aging shapes the distribution of copper in soil aggregate size fractions. . . Volume 233, February 2018, Pages 569-576.	Li,Qi;Du,Huihui;Chen,Wenli;Hao,Jialong;Huang,Qiaoyun;Cai,Peng;Feng,Xionghan;	10.1016/j.envpol.2017.10.091
2018	SOIL	Scientific Reports	Alteration of rocks by endolithic organisms is one of the pathways for the beginning of soils on Earth. Scientific Reportsvolume 8, Article number: 3367 (2018) doi:10.1038/s41598-018-21682-6	Mergelov,Nikita;Mueller, Carsten W. ;Prater,Isabel ;Shorkunov, Ilya ;Dolgikh, Andrey ;Zazovskaya, Elya ;Shishkov, Vasily ;Krupskaya, Victoria ;Abrosimov, Konstantin ;Cherkinsky, Alexander ;Goryachkin,Sergey ;	10.1038/s41598-018-21682-6
2018	SOIL	Rapid Communications in Mass Spectrometry	Imaging of Al/Fe ratios in synthetic Al-goethite revealed by NanoSIMS, 32: 619–628	Pohl,Lydia;Kolbl,Angelika;Werner,Florian;Mueller,Carsten W.;Hoschen,Carmen;Hausler,Werner;Kogel-Knabner,Ingrid;	10.1002/rcm.8088
2018	SOIL	Science Advances	Biodegradation of synthetic polymers in soils: Tracking carbon into CO2 and microbial biomass. † . Science Advances. 25 July 2018.	Zumstein,Michael Thomas;Schintlmeister,Arno;Nelson,Taylor Frederick;Baumgartner,Rebekka;Woebken,Dagmar;Wagner,Michael;Kohler,Hans-Peter E.;McNeill,Kristopher;Sander,Michael;	
2018	SOIL	Soil Biology and Biochemistry	Multiple exchange processes on mineral surfaces control the transport of dissolved organic matter through soil profiles . Volume 118, March 2018, Pages 79-90.	Leinemann,T.;Preusser,S.;Mikutta, R.;Kalbitz,K.;Cerli,C.;Hoschen,Carmen;Mueller,Carsten W.;Kandeler,E.;Guggenberger,G.;	10.1016/j.soilbio.2017.12.006
2018	SOIL	Geochimica et Cosmochimica Acta	Priming mechanisms with additions of pyrogenic organic matter to soil . Geochimica et Cosmochimica Acta Volume 238, 1 October 2018, Pages 329-342	DeCiucies,Silene;Whitman,Thea;Woolf,Dominic;Enders,Akio;Lehmann,Johannes;	
2018	SOIL	Chemical Geology	Sorption of Cu(II) by Al hydroxide organo–mineral coprecipitates: Microcalorimetry and NanoSIMS observations.. Chemical Geology. on-line 20 September 2018.	Du,Huihui;Huang,Qiaoyun;Zhou,Min;Tie,Boqing;Lei,Ming;Wei,Xiangdong;Liu,Xiaoli;Yang,Yuan;	
2018	SOIL	Rapid Communications in Mass Spectrometry	Small-scale distribution of Cu in a Technosol horizon studied by NanoSIMS	Rennert,Thilo;Hoschen,Carmen;Rogge,Derek;Steffens,Markus;	10.1002/rcm.8111
2019	SOIL	Geochimica et Cosmochimica Acta	Subsoil organo-mineral associations under contrasting climate conditions	Inagaki,Thiago M.;Possinger,Angela R.;Grant,Katherine E.;Schweizer,Steffen A.;Mueller,Carsten W.;Derry,Louis A.;Lehmannn,Johannes;Kogel-Knabner,Ingrid;	10.1016/j.gca.2019.11.030
2019	SOIL	Communications Biology	Synergies between mycorrhizal fungi and soil microbial communities increase plant nitrogen acquisition,2:233. https://doi.org/10.1038/s42003-019-0481-8	Hestrin,Rachel;Hammer,Edith C.;Mueller,Carsten W.;Lehmann,Johannes;	10.1038/s42003-019-0481-8
2019	SOIL	Environmental Science & Technology	Correlative imaging reveals holistic view of soil microenvironments. Environmental Science & Technology. DOI: 10.1021/acs.est.8b05245. Publication Date (Web): December 11, 2018	Schluter,Steffen;Eickhorst,Thilo;Mueller,Carsten W.;	10.1021/acs.est.8b05245
2019	SOIL	Frontiers in Environmental science	Earthworm cast formation and development: a shift from plant litter to mineral associated organic matter. . doi: 10.3389/fenvs.2019.00055 Accepted 5April 2019	Vidal,Alix;Watteau,Francoise;Remusat,Laurent;Mueller,Carsten W.;Nguyen Tu,Thanh-Thuy;Buegger,Franz;Derenne,Sylvie;Quenea,Katell;	10.3389/fenvs.2019.00055

2019	SOIL	Environmental Science & Technology	Soil organic matter and phosphate sorption on natural and synthetic Fe oxides under in situ conditions. . Environmental Science & Technology 2019, Publication Date:October 28, 2019 doi.org/10.1021/acs.est.9b03260	Dorau,Kristof;Pohl,Lydia;Henke,Christopher;Hoschen,Carmen;Ufer ,Kristian;Mansfeldt,Tim;Mueller,Carsten W.;	10.1021/acs.est.9b03260
2019	SOIL	Environmental Science & Technology	Enrichment of Lignin-Derived Carbon in Mineral-Associated Soil Organic Matter. . Environmental Science & Technology, 2019. June 10, 2019, doi.org/10.1021/acs.est.9b01834	Huang,Wenjuan;Hammel,Kenneth E.;Hao,Jialong;Thompson,Aaron;Timokhin,Vitaliy I.;Hall,Steven J.;	10.1021/acs.est.9b01834
2019	SOIL	Environmental Science & Technology	Organic matter amendment and plant colonization drive mineral weathering, organic carbon sequestration and water stable aggregation in magnetite Fe ore tailings. . Environmental Science & Technology. 7 November 2019, doi.org/10.1021/acs.est.9b04526	Wu,Songlin;Liu,Yunjia ;Bougoure,Jeremy J.;Southam,Gordon;Chan,Ting-Shan;Lu,Ying-Rui;Haw,Shu-Chih;Nguyen,Tuan Anh Huu;You,Fang;Huang,Longbin;	10.1021/acs.est.9b04526
2019	SOIL	Ecology	The role of soil redox conditions in microbial phosphorus cycling in humid tropical forests. . First published: 12 November 2019. doi.org/10.1002/ecy.2928	Gross,Avner;Lin,Yang;Weber,Peter K.;Pett Ridge,Jennifer;Silver,Whendee L.;	10.1002/ecy.2928
2020	SOIL	Science of The Total Environment	Calcareous organic matter coatings sequester siderophores in alkaline soils. Science of The Total Environment. Available online 26 March 2020, 138250. doi.org/10.1016/j.scitotenv.2020.138250	Boiteau,Rene M.;Kukkadapu,Ravi;Cliff,John B.;Smallwood,Chuck R.;Kovarik,Libor ;Wirth,Mark G.;Engelhard,Mark H.;Varga,Tamas;Dohnalkova,Alice ;Perea,Daniel E.;Wietsma,Thomas ;Moran,James J.;Hofmockel,Kirsten S.;	10.1016/j.scitotenv.2020.138250
2020	SOIL	Geoderma	Soil organic matter is stabilized by organo-mineral associations through two key processes: The role of the carbon to nitrogen ratio	Kopittke,Peter M.;Dalal,Ram C.;Hoschen,Carmen;Li,Cui;Menzies,Neal W.;Mueller,Carsten W.;	10.1016/j.geoderma.2019.113974
2020	SOIL	Nature Communications	Iron mineral dissolution releases iron and associated organic carbon during permafrost thaw, 11:6329	Patzner,Monique S.;Mueller,Carsten W.;Malusova,Miroslava;Baur,Moritz;Nikeleit,Verena;Scholten,Thomas;Hoschen,Carmen;Byrne,James M.;Borch,Thomas;Kappler,Andreas;Bryce,Casey;	10.1038/s41467-020-20102-6
2020	SOIL	Biogeochemistry	Biogeochemical cycling of phosphorus in subsoils of temperate forest ecosystems. . volume 150, pages313–328(2020) Published: 01 October 2020	Rodionov,Andrei;Bauke,Sara L.;vonSperber,Christian;Hoschen,Carmen;Kandeler,Ellen;Kruse,Jens;Lewandowski,Hans;Marhan,Sven;Mueller,Carsten W.;Simon,Margaux;Tamburini,Federica;Uhlig,David;von Blanckenburg,Friedhelm;Lang,Friederike;Amelung,Wulf;	
2020	SOIL	Current Biology	Fungal Nanophase Particles Catalyze Iron Transformation for OxidativeStress Removal and Iron Acquisition, 30	Yu,Guang-Hui;Chi,Zhi-Lai;Kappler,Andreas;Sun,Fu-Sheng :;Liu,Cong-Qiang;Teng,Hui Henry;Gadd,Geoffrey Michael;	
2020	SOIL	ACS Sustainable Chemistry & Engineering	Sequential ammonia and carbon dioxide adsorption on pyrolyzed biomass to recover waste stream nutrients	Krounbi,Leilah;Enders,Akio;Anderton,Christopher R.;Engelhard,Mark H.;Hestrin,Rachel;Torres-Rojas,Doriset;Dynes,James J.;Lehmann,Johannes;	10.1021/acssuschemeng.0c01427
2020	SOIL	Soil & Tillage Research	Unexpected bulk density and microstructures response to long-term pig manure application in a Ferralic Cambisol Soil: Implications for rebuilding a healthy soil. ,*. . 203, 2020. https://doi.org/10.1016/j.still.2020.104668	Yu,Guang-Hui;Chena,Chun-Mei ;He,Xin-Hua;Zhange,Xiang-Zhi;Lie,Li-Na;	10.1016/j.still.2020.104668
2020	SOIL	Geoderma	Organo-mineral interactions and soil carbon mineralizability with variable saturation cycle frequency. , Geoderma, Volume 375, 1 October 2020, 114483	Possinger,Angela R.;Bailey,Scott W.;Inagaki,Thiago M.;Kogel-Knabner,Ingrid;Dynes,James J.;Arthur,Zachary A.;Lehmann,Johannes;	
2020	SOIL	Biology and Fertility of Soils	Unveiling of active diazotrophs in a flooded rice soil by combination of NanoSIMS and 15N2-DNA-stable isotope probing. (2020). doi.org/10.1007/s00374-020-01497-2	Wang,Xiaojie;Bei,Qicheng;Yang,Wei;Zhang,Heng;Hao,Jialong;Qian,Li;Feng,Yucheng;Xie,Zubin;	
2020	SOIL	Chemosphere	Characterization of Cu distribution in clay-sized soil aggregates by NanoSIMS and micro-XRF. online 6 February 2020, 126143.	Li,Qi;Hu,Xiping;Hao,Jialong;Chen,Wenli;Cai,Peng;Huang,Qiaoyun;	
2020	SOIL	Geoderma	Promoting plant growth and carbon transfer to soil with organic amendments produced with mineral additives. (2020). Geoderma, 374, 114454. doi:10.1016/j.geoderma.2020.114454	Vidal,Alix;Lenhart,T.;Dignac,Marie-France;Biron, P.;Hoschen,Carmen.;Barthod, J.;Vedere,C.;Vaury V.;Bariac C.;Rumpel,Cornelia;	
2020	SOIL	Geoderma	Porosity and organic matter distribution in jarositic phyto tubules of sulfuric soils assessed by combined µCT and NanoSIMS analysis. . Volume 399, 1 October 2021, 115124. https://doi.org/10.1016/j.geoderma.2021.115124	Pohl,Lydia;Kolbl,Angelika;Uteau,Daniel;Peth,Stephan;Hausler,Werner;Mosley,Luke;Marschner,Petra;Fitzpatrick,Rob;Kogel-Knabner,Ingrid;	10.1016/j.geoderma.2021.115124
2021	SOIL	Nature Communications	Particulate organic matter as a functional soil component for persistent soil organic carbon	Witzgall,Kristina;Vidal,Alix;Schubert,David;Hoschen,Carmen;Schweizer,Steffen;Buegger,Franz;Pouteau,Valerie;Chenu,Claire;Mueller,Carsten W.;	10.21203/rs.3.rs-156043/v1
2021	SOIL	Biogeochemistry	The role of clay content and mineral surface area for soil organic carbon storage in an arable toposequence	Schweizer,Steffen A.;Mueller,Carsten W.;Hoschen,Carmen;Ivanov,Pavel;Kogel-Knabner,Ingrid;	10.1007/s10533-021-00850-3
2021	SOIL	Science Advances	Denitrifying pathways dominate nitrous oxide emissions from managed grassland during drought and rewetting, 7	Harris,Eliza;Diaz-Pines,Eugenio;Stoll,Elena;Schloter,Michael;Schulz,Stefanie;Duffner,Clara;Li,Kexue;Moore,Katie L.;Ingrisch,Johannes;Reinthaler,David;Zechmeister-Boltenstern,Sophie;Glatzel,S and Bruggemann, N. ; Bahn, M.	10.1126/sciadv.abb7118
2021	SOIL	Frontiers in Plant Science	Microbial Identification, High-Resolution Microscopy and Spectrometry of the Rhizosphere in Its Native Spatial Context	Bandara,Chaturanga D.;Schmidt,Matthias;Davoudpour,Yalda;Stryhanyuk,Hryhoriy;Richnow,Hans H.;Musat,Niculina;	10.3389/fpls.2021.668929
2021	SOIL	preprint	Cryoturbation leads to iron-organic carbon associations along a permafrost soil chronosequence in northern Alaska	Joss,Hanna;Patzner,Monique S.;Maisch,Markus;Mueller,Carsten W.;Kappler,Andreas;Bryce,Casey;	
2021	SOIL	The ISME Journal	Novel clades of soil biphenyl degraders revealed by integrating isotope probing, multi-omics, and single-cell analyses	Chen,Song-Can;Budhraja,Rohit;Adrian,Lorenz;Calabrese,Federica;Stryhanyuk,Hryhoriy;Musat,Niculina;Richnow,Hans-Hermann;Duan;Gui-Lan;Zhu,Yong-Guan;Musat,Florin;	10.1038/s41396-021-01022-9.
2021	SOIL	ACS Earth and Space Chemistry	Deciphering the Incipient Phases of Ice–Mineral Interactions as a Precursor of Physical Weathering. . ACS Earth and Space Chemistry. 2021, XXXX, XXX, XXX-XXX Publication Date:April 19, 2021. https://doi.org/	Lybrand,Rebecca A.;Veghte,Daniel P.;China,Swarup;Zaharescu,Dragos G.;Anderton,Christopher R.;Aleman,Ruben;Schroeder,Paul A.;Qafoku,Odeta;	10.1021/acsearthspacechem.0c00345
2021	SOIL	preprint	Microbial iron(III) reduction during palsa collapse promotes greenhouse gas emissions before complete permafrost thaw	Patzner,Monique S.;Logan,Merritt;McKenna,Amy M.;Young,Robert B.;Zhou,Zhe;Joss,Hanna;Mueller,Carsten W.;Hoschen,Carmen;Straub,Daniel;Kleindienst,Sara;Borch,Thomas;Kappler,Andreas;Bryce,Casey;	
2021	SOIL	Geoderma	Functional complexity explains the depth-dependent response of organic matter to liming at the nanometer scale	Li,Yang;Camps-Arbestain,Marta;Whitby,Catherine P.;Wang,Tao;Mueller,Carsten W.;Hoschen,Carmen;Beare,Mike H.;	10.1016/j.geoderma.2021.115560
2021	SOIL	Critical Reviews in Environmental Science and Technology	Probing the nature of soil organic matter	Weng,Zhe(Han);Lehmann,Johannes;Van Zwieten,Lukas;Joseph,Stephen;Archanjo,Braulio S.;Cowie,Bruce;Thomsen,Lars;Tobin,Mark J.;Vongsvivut,Jitraporn;Klein,Annaleise;Doolette,Casey L.;Hou,Helen;Mueller,Carsten W.;Lombi,Enzo;Kopittke,Peter M.;	10.1080/10643389.2021.1980346
2022	SOIL	Soil Biology and Biochemistry	Susceptibility of new soil organic carbon to mineralization during dry-wet cycling in soils from contrasting ends of a precipitation gradient	Wilhelm,Roland C.;Lynch,Laurel;Webster,Tara M.;Schweizer,Steffen;Inagaki,Thiago M.;Tfaily,Malak M.;Kukkadapu,Ravi;Hoschen,Carmen;Buckley,Daniel H.;Lehmann,Johannes;	10.1016/j.soilbio.2022.108681
2022	SOIL	Soil biology and Biochemistry	Microscale spatial distribution and soil organic matter persistence in top and subsoil;	Inagaki,Thiago M.;Possinger, Angela R.;Schweizer, Steffen A.;Mueller, Carsten W.;Hoschen, Carmen;Zachman, Michael J.;Kourkoutis, Lena F.;Kogel-Knabner, Ingrid;Lehmann, Johannes;	10.1016/j.soilbio.2022.108921
2022	SOIL	NatureCommunications	Microscale carbon distribution around pores and particulate organic matter varies with soil moisture regime	Schluter,Steffen;Leuther,Frederic;Albrecht,Lukas;Hoschen,Carmen;Kilian,Rudiger;Surey,Ronny;Mikutta,Robert;Kaiser,Klaus;Mueller,Carsten W.;Vogel,Hans-Jorg;	10.1038/s41467-022-29605-w
2022	SOIL	Nature Communications	Microscale carbon distribution around pores and particulate organic matter varies with soil moisture regim	Schluter,Steffen;Leuther,Frederic;Albrecht,Lukas;Hoschen,Carmen;Kilian,Rudiger;Surey,Ronny;Mikutta,Robert;Kaiser,Klaus;Mueller,Carsten W.;Vogel,Hans-Jorg;	10.1038/s41467-022-29605-w
2022	SOIL	Geoderma	Cryoturbation impacts iron-organic carbon associations along a permafrost soil 2 chronosequence in northern Alaska	Jossa,Hanna;Patznera, Monique S.;Maischa,Markus ;Mueller,Carsten W. ;Kapplera,Andreas;Bryced, Casey;	10.1016/j.geoderma.2022.115738
2022	SOIL	Environmental Pollution	Nickel bioaccessibility in soils with high geochemical background and anthropogenic contamination,v310,119914	Ding, Song;Guan, Dong-Xing;Dai, Zhi-Hua;Su, Jing;Teng, H. Henry;Ji, Junfeng;Liu, Yizhang;Yang, Zhongfang;Ma, Lena Q.	10.1016/j.envpol.2022.119914
2022	SOIL	Environmental Science & Technology	Elucidating Drought-Tolerance Mechanisms in Plant Roots through 1 H NMR Metabolomics in Parallel with MALDI-MS, and NanoSIMS Imaging Techniques	Honeker,Linnea K.;Hildebrand,Gina A.;Fudyma,Jane D.;Daber,L. Erik;Hoyt,David;Flowers,Sarah E.;Gil-Loaiza,Juliana;Kubert,Angelika;Bamberger,Ines;Anderton,Christopher R.;Cliff,John;Leichty,Sarah;AminiTabrizi,Roya;Kreuzwieser,Jurgen;Shi,Lingling;Bai,Xuejuan;Velickovic,Dusan;Dippold,Michaela A.;Ladd,S.Nemiah;Werner,Christiane;Meredith,Laura K.;Tfaily,Malak M.;	10.1021/acs.est.1c06772
2022	SOIL	Geoderma	Cryoturbation impacts iron-organic carbon associations along a permafrost soil chronosequence in northern Alaska	Joss,Hanna;Patzner,Monique S.;Maisch,Markus;Mueller,Carsten W.;Kappler,Andreas;Bryce,Casey;	10.1016/j.geoderma.2022.115738
2022	SOIL	Science of The Total Environment	Spatial heterogeneity of particulate organic matter for the sorption of ciprofloxacin at the microstructure scale	Liu, Xinghua;Luo, Yongming;Zhang, Haibo;Wu, Jiaqiang;Zhu, Rongsheng;Wang, Huaizhong	10.1016/j.scitotenv.2022.157326
2023	SOIL	Soil Biology and Biochemistry	Enhanced loss but limited mobility of pyrogenic and organic matter in continuous permafrost-affected forest soils	Schiedung, Marcus; Belle,Severin-Luca; Hoschen, Carmen; Schweizer, Steffen A.; Abiven, Samuel	10.1016/j.soilbio.2023.108959
2023	SOIL	Research Square	Calcium promotes persistent soil organic matter by altering microbial transformation of plant litter	Shabtai,Itamar;Wilhelm,Roland;Schweizer,Steffen;Hoschen,Carmen;Buckley,Daniel;Lehmann,Johannes;	10.21203/rs.3.rs-2606058/v1
2023	SOIL	Nature Communications	Calcium promotes persistent soil organic matter by altering microbial transformation of plant litter	Shabtai,Itamar A.;Wilhelm,Roland C;Schweizer,Steffen A.;Hoschen,Carmen;Buckley,Daniel H.;Lehmann,Johannes;	10.1038/s41467-023-42291-6
2023	SOIL	Geochimica and Cosmochimica Acta	Phosphorus hotspots in pedogenic carbonate coatings determined by zoned microscale arrangement and organo-mineral interactions	Schweizer,SteffenA.;ColochoHurtarte,Luis C.;Hoschen,Carmen;Klysubun,Wantana;Harrington,Gertraud;Prietzel,Jörg;	10.1016/j.gca.2023.01.018
2023	SOIL	Geoderma Regional	Retention of dissolved organic matter during podzolisation: Testing processes in laboratory experiments and at the submicron scale	Krettek,Agens;Hoschen,Carmen;Richter,Gunther;Schweizer,Steffen;Thilo,Rennert;	10.1016/j.geodrs.2023.e00606
2023	SOIL	Geochimica and Cosmochimica Acta	Clay authigenesis in carbonate-rich sediments and its impact on carbonate diagenesis	Chanda, Piyali;Kohli, Arjun;Teng, Fang-Zhen;Fantle, Matthew S.	
2023	SOIL	Environmental Science and Technology	Correlative Imaging of the Rhizosphere A Multimethod Workflow for Targeted Mapping of Chemical Gradients	Lippold,Eva;Schluter,Steffen;Mueller,CarstenW.;Hoschen,Carmen;harrington,Gertraud;Rudiger,Kilian;Gocke,Martinal.;Kehndorff,Eva;Mikutta,Robert;Vetterlein,Doris;	10.1021/acs.est.2c07340
2023	SOIL	Science of The Total Environment	Importance of inner-sphere P-O-Fe bonds in natural and synthetic mineral-organic associations	Eusterhues, Karin;Thieme, Jürgen;Narvekar, Sneha;Araki, Tohru;Kazemian, Majid;Kaulich, Burkhard;Regier, Tom;Wang, Jian;Lugmeier, Johann;Höschen, Carmen;Mansfeldt, Tim;Totsche, Kai Uwe	10.1016/j.scitotenv.2023.167232

2024	SOIL	Environmental Science & Technology Letters	Preferential Zn and Cd Hotspots in Soil Microarchitecture	Schweizer,SteffenA.;Bachelder,Jill;Hoeschen,Carmen;Weng,ZheH.;Kopittke,PeterM.;Frossard,Emmanuel;Wiggenhauser,Matthias;	10.1021/acs.estlett.4c00401
2024	SOIL	Ecological Informatics	Automated identification of soil functional components based on NanoSIMS data	Hu, Yahan;Zollner, Johann Maximilian;Hoeschen, Carmen;Werner, Martin;Schweizer, Steffen A.;	10.1016/j.ecoinf.2024.102891
2025	SOIL	Environ. Sci. Technological	Accumulation of Soil Microbial Necromass Controlled by Microbe-Mineral Interactions	Zhao,Qian;Bell,Sheryl ;Kukkadapu,Ravi ;Richardson,Jocelyn;Cliff,John;Bowden,Mark;Leichty,Sarah;Hofmockel,KirstenS.;	10.1021/acs.est.5c01482
2025	SOIL	arxiv	Synergistic effects of enhanced rock weathering and organic inputs on soil carbon accrual	Sohng,Jaeeun;Sokol,NoahW.;Weber,PeterK.;Schweizer,Steffen;Morrison,Keith;Whiteaker,Seth;Schmidt,Radomir;Montanez,Isabel;O'Geen,Anthony;Scow,Kate;	
2025	SOIL	Communicaitons Earth&Environment	Minerals provide divergent protection to carbon- and nitrogen-rich organic matter in fluvial sediments	Zhang,Naiyu;Liu,Zhifei ;Lin,Baozhi;Wu,Jiawang;Yu,Guanghui;Yin,Bohao;You,Chen-Feng;Siringan,FernandoP.;Thompson,CharlotteE.L.;Muller,Carsten W.;	10.1038/s43247-025-02563-z
2025	SOIL	Geoderma	The influence of fine fraction content on storage and retention of soil organic carbon in Vertisols of subtropical Australia	Barnard,Meghan;Dalal,RamC.;Wen,ZheH.;Schweizer,SteffenA.;Kopittke,PeterM.;	
2025	SOIL	Geoderma	Phosphorus supply and spatial distribution determine the microbial response to carbon and nitrogen addition	Bauke,SaraL.;Wang,Ye;Schweizer,SteffenA.;Hoeschen,Carmen;Wolff,Jan;Seidel,SabineJ.;vonSperber,Christian ;Amelung,Wulf;	10.1016/j.geoderma.2025.117493
2025	SOIL	Science of The Total Environment	Formation mechanisms of black crusts on limestone using 34S isotopic tracing	Ropiquet, Mathilde;Verney-Carron,Aurélie;Chabas,Anne;Deboom,Ambroise;Nowak,Sophie;Verdier-Paoletti,Maximilien;Remusat,Laurent	10.1016/j.scitotenv.2025.180553
2025	SOIL	Global Change Biology.	Increased Retention of Litter-Derived Organic Carbon With Increasing Initial Carbon Content in Temperate Agricultural Soils	Begill,Neha;Schweizer,SteffenA.;Don,Axel;Hoeschen,Carmen;Schiedung, Marcus;Guggenberger,Georg;Poeplau,Christopher;	10.1111/gcb.70646
2026	SOIL	Environmental Science & Technology	Microbial Processing and Mineral Stabilization of Organic Matter in Iron Ore Tailings: A Four-Year Microcosm Study via Isotopic Labeling and Submicron-Scale AnalysisClick to copy article link	Wu, Songlin;Li, Zhen;You, Fang;Fu, Wei;Feng, Qi;Yu, Guanghui;Kao, Cheng-Wei;Chan, Ting-Shan;Chen, Baodong;Southam, Gordon;Huang, Longbin;	10.1021/acs.est.5c08638
2026	SOIL	Pedosphere	Typical mineral additions promote soil mineral-associated organic carbon sequestration: Interactions between Fe oxides and microbial-derived peptides	Li,Qi;Liu,Hengje;Li,Linfeng;Wiao,Anwen;Hu,Weifang;Zhai,Fenghua ;Yin,Bohao;Li,Yichun;	10.1016/j.pedsph.2026.01.011
2026	SOIL	Geoderma	Pasture management in Ferralsols drives mineral-associated organic matter storage, exceeding native soil carbon stocks and enhancing cation exchange capacity	Bento,Lucas Raimundo;Neto,MartinLadislau;dosSantos,JoaoVitor;Freitas,VitorSilveira;Pezzopane,JosseRicardoMacedo;BernardideCampos,Alberto Carlos;Oliveira,PatriciaPerondiAnchao;Schweizer,Steffen A.;	10.1016/j.geoderma.2026.117678
2026	ENVBIO	Angewandte Chemie	Minimal ATP-Independent N2 -Reducing Systems Definedby L-Cluster-Bound Nitrogenase Assembly Platforms	Quechol,Robert;Yang,Yimo;Lee,ChiChung;Ribbe,MarkusW.;Hu,Yilin;	10.1002/anie.2968123
2026	MATERIAL	ACS Nano	Multilayer Nanoarchitectured Air Electrodes for High-Performance Solid Oxide CellsClick to copy article link	Develos-Bagarinao,Katherine;Shirakura,Yuki;Tateno,Hiroyuki;Yamaguchi,Toshiaki;Kishimoto,Haruo;	10.1021/acsnano.6c02148
2026	PLANETOLOGY	arxiv	Constraints for Nuclear Astrophysics from an Unusual Presolar Silicate-Oxide Aggregate Grain Found in Primitive Ordinary Chondrite Meteorite Hills 00526.	Nittler,Larry R.;Barosch,Jens;Alexander,Conel M.O'D.;Wang,Jianhua;	
2026	SOIL	Soil Biology and Biochemistry	Al-bearing minerals as the primary loci for the sequestration of microbial necromass carbon in soil	Zhao,Jiaxin;Qu,Chenchen;Lv,Zhenguang;Gao,Daxin;Su,Xinglei;Zheng,Qiuzhu;Cai,Peng;Chen,Wenli;Huang,Qiaoyun;	10.1016/j.soilbio.2026.110189
2026	SOIL	Nature	Iron concentration induces a biphasic response of glucose biodegradation by marine fungi	Wang,Xiaomei;Han,Jiaxin;He,Kun;Fan,Yonghong;Li,Zhen;Hu,Yandi;Yang,Chunlong;Chen,Youwei;Konhauser,KurtO.;Zhang,Shuichang;	
2026	MATERIAL	arxiv	Harnessing diamond surface features for dense and aligned NV ensembles	Eveline Postelnicua,*, Lillian B. Hughes Wyattb, Tri Nguyena, Simon A. Meynellc, Christine Jillyd, Paul Wallacee, Andrew Barnume, Ania Bleszynski Jayichc, Kunal Mukherjeea,*	