Brandy M Toner

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4158476/publications.pdf

Version: 2024-02-01

55 papers	4,059 citations	147801 31 h-index	161849 54 g-index
55 all docs	55 docs citations	55 times ranked	4385 citing authors

#	Article	IF	Citations
1	Characterization of the manganese oxide produced by pseudomonas putida strain MnB1. Geochimica Et Cosmochimica Acta, 2003, 67, 2649-2662.	3.9	558
2	Structural model for the biogenic Mn oxide produced by Pseudomonas putida. American Mineralogist, 2006, 91, 489-502.	1.9	288
3	Sulfur Oxidation Genes in Diverse Deep-Sea Viruses. Science, 2014, 344, 757-760.	12.6	223
4	Iron persistence in a distal hydrothermal plume supported by dissolvedâ€“particulate exchange. Nature Geoscience, 2017, 10, 195-201.	12.9	204
5	Preservation of iron(II) by carbon-rich matrices in a hydrothermal plume. Nature Geoscience, 2009, 2, 197-201.	12.9	200
6	Zinc sorption to biogenic hexagonal-birnessite particles within a hydrated bacterial biofilm. Geochimica Et Cosmochimica Acta, 2006, 70, 27-43.	3.9	177
7	Colonization of subsurface microbial observatories deployed in young ocean crust. ISME Journal, 2011, 5, 692-703.	9.8	155
8	Biogenic iron oxyhydroxide formation at mid-ocean ridge hydrothermal vents: Juan de Fuca Ridge. Geochimica Et Cosmochimica Acta, 2009, 73, 388-403.	3.9	150
9	Redox potential as a master variable controlling pathways of metal reduction by Geobacter sulfurreducens. ISME Journal, 2017, 11, 741-752.	9.8	145
10	Spatially Resolved Characterization of Biogenic Manganese Oxide Production within a Bacterial Biofilm. Applied and Environmental Microbiology, 2005, 71, 1300-1310.	3.1	136
11	Life and Death of Deep-Sea Vents: Bacterial Diversity and Ecosystem Succession on Inactive Hydrothermal Sulfides. MBio, 2012, 3, e00279-11.	4.1	136
12	Chemical Speciation of Vanadium in Particulate Matter Emitted from Diesel Vehicles and Urban Atmospheric Aerosols. Environmental Science & Technology, 2012, 46, 189-195.	10.0	116
13	Zinc Sorption by a Bacterial Biofilm. Environmental Science & Technology, 2005, 39, 8288-8294.	10.0	105
14	Ultra-diffuse hydrothermal venting supports Fe-oxidizing bacteria and massive umber deposition at 5000â€‰m off Hawaii. ISME Journal, 2011, 5, 1748-1758.	9.8	97
15	Sulfur, sulfides, oxides and organic matter aggregated in submarine hydrothermal plumes at 9Â°50â€²N East Pacific Rise. Geochimica Et Cosmochimica Acta, 2012, 88, 216-236.	3.9	84
16	Mineralogy of Iron Microbial Mats from Loihi Seamount. Frontiers in Microbiology, 2012, 3, 118.	3.5	79
17	Microbial iron uptake as a mechanism for dispersing iron from deep-sea hydrothermal vents. Nature Communications, 2014, 5, 3192.	12.8	75
18	Microscale Characterization of Sulfur Speciation in Lake Sediments. Environmental Science & Technology, 2013, 47, 1287-1296.	10.0	64

#	Article	IF	Citations
19	Accumulation of Fe oxyhydroxides in the Peruvian oxygen deficient zone implies non-oxygen dependent Fe oxidation. Geochimica Et Cosmochimica Acta, 2017, 211, 174-193.	3.9	64
20	Biogeochemical Processes at Hydrothermal Vents: Microbes and Minerals, Bioenergetics, and Carbon Fluxes. Oceanography, 2012, 25, 196-208.	1.0	55
21	Inâ€situ incubation of ironâ€sulfur mineral reveals a diverse chemolithoautotrophic community and a new biogeochemical role for Thiomicrospira. Environmental Microbiology, 2017, 19, 1322-1337.	3.8	54
22	Geochemistry and iron isotope systematics of hydrothermal plume fall-out at East Pacific Rise 9Â°50â€²N. Chemical Geology, 2016, 441, 212-234.	3.3	53
23	A suspended-particle rosette multi-sampler for discrete biogeochemical sampling in low-particle-density waters. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 1579-1589.	1.4	52
24	Mineralogy Drives Bacterial Biogeography of Hydrothermally Inactive Seafloor Sulfide Deposits. Geomicrobiology Journal, 2013, 30, 313-326.	2.0	52
25	Predicting the response of the deep-ocean microbiome to geochemical perturbations by hydrothermal vents. ISME Journal, 2015, 9, 1857-1869.	9.8	52
26	Geochemical and iron isotopic insights into hydrothermal iron oxyhydroxide deposit formation at Loihi Seamount. Geochimica Et Cosmochimica Acta, 2018, 220, 449-482.	3.9	51
27	A large volume particulate and water multi-sampler with in situ preservation for microbial and biogeochemical studies. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 94, 195-206.	1.4	49
28	Variable Ni isotope fractionation between Fe-oxyhydroxides and implications for the use of Ni isotopes as geochemical tracers. Chemical Geology, 2018, 481, 38-52.	3.3	47
29	Low Temperature Geomicrobiology Follows Host Rock Composition Along a Geochemical Gradient in Lau Basin. Frontiers in Microbiology, 2013, 4, 61.	3.5	45
30	Measuring the Form of Iron in Hydrothermal Plume Particles. Oceanography, 2012, 25, 209-212.	1.0	43
31	Assessing Marine Microbial Induced Corrosion at Santa Catalina Island, California. Frontiers in Microbiology, 2016, 7, 1679.	3.5	37
32	Gammaproteobacteria mediating utilization of methyl-, sulfur- and petroleum organic compounds in deep ocean hydrothermal plumes. ISME Journal, 2020, 14, 3136-3148.	9.8	36
33	Solid-phase arsenic speciation in aquifer sediments: A micro-X-ray absorption spectroscopy approach for quantifying trace-level speciation. Geochimica Et Cosmochimica Acta, 2017, 211, 228-255.	3.9	34
34	Carbon adsorption onto <scp>F</scp>e oxyhydroxide stalks produced by a lithotrophic ironâ€oxidizing bacteria. Geobiology, 2014, 12, 146-156.	2.4	32
35	Bacillus rigiliprofundi sp. nov., an endospore-forming, Mn-oxidizing, moderately halophilic bacterium isolated from deep subseafloor basaltic crust. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 1992-1998.	1.7	32
36	Iron mineral structure, reactivity, and isotopic composition in a South Pacific Gyre ferromanganese nodule over 4 Ma. Geochimica Et Cosmochimica Acta, 2015, 171, 61-79.	3.9	32

#	Article	IF	Citations
37	Near-field iron and carbon chemistry of non-buoyant hydrothermal plume particles, Southern East Pacific Rise 15Â°S. Marine Chemistry, 2018, 201, 183-197.	2.3	27
38	Large nickel isotope fractionation caused by surface complexation reactions with hexagonal birnessite. Chemical Geology, 2020, 537, 119481.	3.3	22
39	Deciphering the Complex Chemistry of Deep-Ocean Particles Using Complementary Synchrotron X-ray Microscope and Microprobe Instruments. Accounts of Chemical Research, 2016, 49, 128-137.	15.6	21
40	Iron Transformation Pathways and Redox Micro-Environments in Seafloor Sulfide-Mineral Deposits: Spatially Resolved Fe XAS and Î´57/54Fe Observations. Frontiers in Microbiology, 2016, 7, 648.	3.5	20
41	Temperature and Redox Effect on Mineral Colonization in Juan de Fuca Ridge Flank Subsurface Crustal Fluids. Frontiers in Microbiology, 2016, 7, 396.	3.5	19
42	Long-term agricultural management and erosion change soil organic matter chemistry and association with minerals. Science of the Total Environment, 2019, 648, 1500-1510.	8.0	16
43	Role of Ester Sulfate and Organic Disulfide in Mercury Methylation in Peatland Soils. Environmental Science & Technology, 2022, 56, 1433-1444.	10.0	15
44	Forms and distribution of Ce in a ferromanganese nodule. Marine Chemistry, 2018, 202, 58-66.	2.3	14
45	Scaling up: fulfilling the promise of X-ray microprobe for biogeochemical research. Environmental Chemistry, 2014, 11, 4.	1.5	14
46	Reductive Dissolution of Biogenic Manganese Oxides in the Presence of a Hydrated Biofilm. Geomicrobiology Journal, 2005, 22, 171-180.	2.0	12
47	Local Structure and Speciation of Platinum in Fresh and Road-Aged North American Sourced Vehicle Emissions Catalysts: An X-ray Absorption Spectroscopic Study. Environmental Science & Technology, 2014, 48, 3658-3665.	10.0	12
48	Novel Microbial Groups Drive Productivity in an Archean Iron Formation. Frontiers in Microbiology, 2021, 12, 627595.	3.5	12
49	Accessible reactive surface area and abiotic redox reactivity of iron oxyhydroxides in acidic brines. Geochimica Et Cosmochimica Acta, 2017, 197, 345-355.	3.9	11
50	Mineral vs. organic matter supply as a limiting factor for the formation of mineral-associated organic matter in forest and agricultural soils. Science of the Total Environment, 2019, 692, 344-353.	8.0	10
51	Dynamic Biogeochemistry of the Particulate Sulfur Pool in a Buoyant Deep-Sea Hydrothermal Plume. ACS Earth and Space Chemistry, 2020, 4, 168-182.	2.7	9
52	Diagnostic Morphology and Solid-State Chemical Speciation of Hydrothermally Derived Particulate Fe in a Long-Range Dispersing Plume. ACS Earth and Space Chemistry, 2020, 4, 1831-1842.	2.7	7
53	A multi-modal approach to measuring particulate iron speciation in buoyant hydrothermal plumes. Chemical Geology, 2021, 560, 120018.	3.3	4
54	Consistent mineral-associated organic carbon chemistry with variable erosion rates in a mountainous landscape. Geoderma, 2022, 405, 115448.	5.1	2

#	Article	IF	Citations
55	Water and Rock Chemistry Inform Our Understanding of the Deep Biosphere: Case Study in an Archaean Banded Iron Formation. Frontiers in Earth Science, 2022, 10, .	1.8	0