Eric E Roden

List of Publications by Year
in descending order

26 papers	2,269 citations	430874 18 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	2670 citing authors

#	Article	IF	Citations
1	Extracellular electron transfer through microbial reduction of solid-phase humic substances. Nature Geoscience, 2010, 3, 417-421.	12.9	407
2	Recovery of Humic-Reducing Bacteria from a Diversity of Environments. Applied and Environmental Microbiology, 1998, 64, 1504-1509.	3.1	265
3	Influence of Biogenic Fe(II) on Bacterial Crystalline Fe(III) Oxide Reduction. Geomicrobiology Journal, 2002, 19, 209-251.	2.0	220
4	Experimental constraints on Fe isotope fractionation during magnetite and Fe carbonate formation coupled to dissimilatory hydrous ferric oxide reduction. Geochimica Et Cosmochimica Acta, 2005, 69, 963-993.	3.9	203
5	A relationship between d104 value and composition in the calcite-disordered dolomite solid-solution series. American Mineralogist, 2010, 95, 1650-1656.	1.9	122
6	Comparative Genomic Analysis of Neutrophilic Iron(II) Oxidizer Genomes for Candidate Genes in Extracellular Electron Transfer. Frontiers in Microbiology, 2017, 8, 1584.	3.5	121
7	Dual Role of Humic Substances As Electron Donor and Shuttle for Dissimilatory Iron Reduction. Environmental Science & Technology, 2018, 52, 5691-5699.	10.0	116
8	Dynamics of ferrihydrite-bound organic carbon during microbial Fe reduction. Geochimica Et Cosmochimica Acta, 2017, 212, 221-233.	3.9	107
9	Influence of Oxygen and Nitrate on Fe (Hydr)oxide Mineral Transformation and Soil Microbial Communities during Redox Cycling. Environmental Science & Technology, 2016, 50, 3580-3588.	10.0	101
10	The Microbial Ferrous Wheel in a Neutral pH Groundwater Seep. Frontiers in Microbiology, 2012, 3, 172.	3.5	90
11	Immobilization of strontium during iron biomineralization coupled to dissimilatory hydrous ferric oxide reduction. Geochimica Et Cosmochimica Acta, 2002, 66, 2823-2839.	3.9	71
12	Aerobic and Anaerobic Thiosulfate Oxidation by a Cold-Adapted, Subglacial Chemoautotroph. Applied and Environmental Microbiology, 2016, 82, 1486-1495.	3.1	62
13	The catalytic effect of bound extracellular polymeric substances excreted by anaerobic microorganisms on Ca-Mg carbonate precipitation: Implications for the "dolomite problem". American Mineralogist, 2015, 100, 483-494.	1.9	60
14	Coupled dynamics of iron and iron-bound organic carbon in forest soils during anaerobic reduction. Chemical Geology, 2017, 464, 118-126.	3.3	57
15	Diversion of Electron Flow from Methanogenesis to Crystalline Fe(III) Oxide Reduction in Carbon-Limited Cultures of Wetland Sediment Microorganisms. Applied and Environmental Microbiology, 2003, 69, 5702-5706.	3.1	49
16	Stable Isotope Probing for Microbial Iron Reduction in Chocolate Pots Hot Spring, Yellowstone National Park. Applied and Environmental Microbiology, 2018, 84, .	3.1	46
17	Stability of Ferrihydriteâ€"Humic Acid Coprecipitates under Iron-Reducing Conditions. Environmental Science & Technology, 2018, 52, 13174-13183.	10.0	31
18	Microbial chemolithotrophy mediates oxidative weathering of granitic bedrock. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26394-26401.	7.1	29

#	Article	IF	Citations
19	Microbiological Controls on Geochemical Kinetics 1: Fundamentals and Case Study on Microbial Fe(III) Oxide Reduction. , 2008, , 335-415.		24
20	Microbial mineral colonization across a subsurface redox transition zone. Frontiers in Microbiology, 2015, 6, 858.	3.5	20
21	Colonization Habitat Controls Biomass, Composition, and Metabolic Activity of Attached Microbial Communities in the Columbia River Hyporheic Corridor. Applied and Environmental Microbiology, 2017, 83, .	3.1	20
22	Investigating the Composition and Metabolic Potential of Microbial Communities in Chocolate Pots Hot Springs. Frontiers in Microbiology, 2018, 9, 2075.	3.5	19
23	Precipitation of low-temperature disordered dolomite induced by extracellular polymeric substances of methanogenic Archaea<i>Methanosarcina barkeri</i>: Implications for sedimentary dolomite formation. American Mineralogist, 2021, 106, 69-81.	1.9	18
24	The Weathering Microbiome of an Outcropping Granodiorite. Frontiers in Microbiology, 2020, 11, 601907.	3.5	6
25	Microbial chemolithotrophic oxidation of pyrite in a subsurface shale weathering environment: Geologic considerations and potential mechanisms. Geobiology, 2022, 20, 271-291.	2.4	4
26	Geochemical and Stable Fe Isotopic Analysis of Dissimilatory Microbial Iron Reduction in Chocolate Pots Hot Spring, Yellowstone National Park. Astrobiology, 2021, 21, 83-102.	3.0	0