

Eric E Roden

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,269
citations

430442

18
h-index

610482

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. <i>Nature Geoscience</i> , 2010, 3, 417-421.	5.4	407
2	Recovery of Humic-Reducing Bacteria from a Diversity of Environments. <i>Applied and Environmental Microbiology</i> , 1998, 64, 1504-1509.	1.4	265
3	Influence of Biogenic Fe(II) on Bacterial Crystalline Fe(III) Oxide Reduction. <i>Geomicrobiology Journal</i> , 2002, 19, 209-251.	1.0	220
4	Experimental constraints on Fe isotope fractionation during magnetite and Fe carbonate formation coupled to dissimilatory hydrous ferric oxide reduction. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 963-993.	1.6	203
5	A relationship between d104 value and composition in the calcite-disordered dolomite solid-solution series. <i>American Mineralogist</i> , 2010, 95, 1650-1656.	0.9	122
6	Comparative Genomic Analysis of Neutrophilic Iron(II) Oxidizer Genomes for Candidate Genes in Extracellular Electron Transfer. <i>Frontiers in Microbiology</i> , 2017, 8, 1584.	1.5	121
7	Dual Role of Humic Substances As Electron Donor and Shuttle for Dissimilatory Iron Reduction. <i>Environmental Science & Technology</i> , 2018, 52, 5691-5699.	4.6	116
8	Dynamics of ferrihydrite-bound organic carbon during microbial Fe reduction. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 212, 221-233.	1.6	107
9	Influence of Oxygen and Nitrate on Fe (Hydr)oxide Mineral Transformation and Soil Microbial Communities during Redox Cycling. <i>Environmental Science & Technology</i> , 2016, 50, 3580-3588.	4.6	101
10	The Microbial Ferrous Wheel in a Neutral pH Groundwater Seep. <i>Frontiers in Microbiology</i> , 2012, 3, 172.	1.5	90
11	Immobilization of strontium during iron biomineralization coupled to dissimilatory hydrous ferric oxide reduction. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 2823-2839.	1.6	71
12	Aerobic and Anaerobic Thiosulfate Oxidation by a Cold-Adapted, Subglacial Chemoautotroph. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1486-1495.	1.4	62
13	The catalytic effect of bound extracellular polymeric substances excreted by anaerobic microorganisms on Ca-Mg carbonate precipitation: Implications for the "dolomite problem". <i>American Mineralogist</i> , 2015, 100, 483-494.	0.9	60
14	Coupled dynamics of iron and iron-bound organic carbon in forest soils during anaerobic reduction. <i>Chemical Geology</i> , 2017, 464, 118-126.	1.4	57
15	Diversion of Electron Flow from Methanogenesis to Crystalline Fe(III) Oxide Reduction in Carbon-Limited Cultures of Wetland Sediment Microorganisms. <i>Applied and Environmental Microbiology</i> , 2003, 69, 5702-5706.	1.4	49
16	Stable Isotope Probing for Microbial Iron Reduction in Chocolate Pots Hot Spring, Yellowstone National Park. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	46
17	Stability of Ferrihydrite-Humic Acid Coprecipitates under Iron-Reducing Conditions. <i>Environmental Science & Technology</i> , 2018, 52, 13174-13183.	4.6	31
18	Microbial chemolithotrophy mediates oxidative weathering of granitic bedrock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26394-26401.	3.3	29

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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. <i>Frontiers in Microbiology</i> , 2015, 6, 858.	1.5	20
21	Colonization Habitat Controls Biomass, Composition, and Metabolic Activity of Attached Microbial Communities in the Columbia River Hyporheic Corridor. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	20
22	Investigating the Composition and Metabolic Potential of Microbial Communities in Chocolate Pots Hot Springs. <i>Frontiers in Microbiology</i> , 2018, 9, 2075.	1.5	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. <i>American Mineralogist</i> , 2021, 106, 69-81.	0.9	18
24	The Weathering Microbiome of an Outcropping Granodiorite. <i>Frontiers in Microbiology</i> , 2020, 11, 601907.	1.5	6
25	Microbial chemolithotrophic oxidation of pyrite in a subsurface shale weathering environment: Geologic considerations and potential mechanisms. <i>Geobiology</i> , 2022, 20, 271-291.	1.1	4
26	Geochemical and Stable Fe Isotopic Analysis of Dissimilatory Microbial Iron Reduction in Chocolate Pots Hot Spring, Yellowstone National Park. <i>Astrobiology</i> , 2021, 21, 83-102.	1.5	0