

Scott D Wankel

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,609
citations

257450

24
h-index

243625

44
g-index

48
all docs

48
docs citations

48
times ranked

3907
citing authors

#	ARTICLE	IF	CITATIONS
1	Dominance of sulfur-fueled iron oxide reduction in low-sulfate freshwater sediments. ISME Journal, 2015, 9, 2400-2412.	9.8	172
2	Isotopic overprinting of nitrification on denitrification as a ubiquitous and unifying feature of environmental nitrogen cycling. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6391-E6400.	7.1	154
3	Nitrification in the euphotic zone as evidenced by nitrate dual isotopic composition: Observations from Monterey Bay, California. Global Biogeochemical Cycles, 2007, 21, n/a-n/a.	4.9	138
4	Influence of ammonia oxidation rate on thaumarchaeal lipid composition and the TEX ₈₆ temperature proxy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7762-7767.	7.1	121
5	Evidence for fungal and chemodenitrification based N ₂ O flux from nitrogen impacted coastal sediments. Nature Communications, 2017, 8, 15595.	12.8	103
6	Constraining the role of iron in environmental nitrogen transformations: Dual stable isotope systematics of abiotic NO ₂ ⁻ reduction by Fe(II) and its production of N ₂ O. Geochimica Et Cosmochimica Acta, 2016, 186, 1-12.	3.9	101
7	Influence of subsurface biosphere on geochemical fluxes from diffuse hydrothermal fluids. Nature Geoscience, 2011, 4, 461-468.	12.9	100
8	Spatial Variability in Nitrification Rates and Ammonia-Oxidizing Microbial Communities in the Agriculturally Impacted Elkhorn Slough Estuary, California. Applied and Environmental Microbiology, 2011, 77, 269-280.	3.1	98
9	Anaerobic methane oxidation in metalliferous hydrothermal sediments: influence on carbon flux and decoupling from sulfate reduction. Environmental Microbiology, 2012, 14, 2726-2740.	3.8	98
10	A dual nitrite isotopic investigation of chemodenitrification by mineral-associated Fe(II) and its production of nitrous oxide. Geochimica Et Cosmochimica Acta, 2017, 196, 388-402.	3.9	84
11	Using nitrate dual isotopic composition (¹⁵ N and ¹⁸ O) as a tool for exploring sources and cycling of nitrate in an estuarine system: Elkhorn Slough, California. Journal of Geophysical Research, 2009, 114, .	3.3	78
12	Archaea dominate oxic subseafloor communities over multimillion-year time scales. Science Advances, 2019, 5, eaaw4108.	10.3	70
13	Rainfall limit of the N cycle on Earth. Global Biogeochemical Cycles, 2007, 21, .	4.9	64
14	Persistent organic matter in oxic subseafloor sediment. Nature Geoscience, 2019, 12, 126-131.	12.9	53
15	Quantifying population-specific growth in benthic bacterial communities under low oxygen using H ₂ 18O. ISME Journal, 2019, 13, 1546-1559.	9.8	53
16	Dark biological superoxide production as a significant flux and sink of marine dissolved oxygen. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3433-3439.	7.1	51
17	Determination and application of the equilibrium oxygen isotope effect between water and sulfite. Geochimica Et Cosmochimica Acta, 2014, 125, 694-711.	3.9	47
18	Biogenic manganese oxides as reservoirs of organic carbon and proteins in terrestrial and marine environments. Geobiology, 2017, 15, 158-172.	2.4	47

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19	Nitrogen cycling in the deep sedimentary biosphere: nitrate isotopes in porewaters underlying the oligotrophic North Atlantic. <i>Biogeosciences</i> , 2015, 12, 7483-7502.	3.3	41
20	Improved efficiency of the biological pump as a trigger for the Late Ordovician glaciation. <i>Nature Geoscience</i> , 2018, 11, 510-514.	12.9	36
21	Nitrite oxidation exceeds reduction and fixed nitrogen loss in anoxic Pacific waters. <i>Marine Chemistry</i> , 2020, 224, 103814.	2.3	33
22	Extracellular superoxide production by key microbes in the global ocean. <i>Limnology and Oceanography</i> , 2019, 64, 2679-2693.	3.1	32
23	Oxygen isotope analysis of bacterial and fungal manganese oxidation. <i>Geobiology</i> , 2018, 16, 399-411.	2.4	27
24	Ebullition of oxygen from seagrasses under supersaturated conditions. <i>Limnology and Oceanography</i> , 2020, 65, 314-324.	3.1	27
25	Rapid Mapping of Dissolved Methane and Carbon Dioxide in Coastal Ecosystems Using the ChemYak Autonomous Surface Vehicle. <i>Environmental Science & Technology</i> , 2018, 52, 13314-13324.	10.0	25
26	Discovery and quantification of anaerobic nitrogen metabolisms among oxygenated tropical Cuban stony corals. <i>ISME Journal</i> , 2021, 15, 1222-1235.	9.8	22
27	Multiple integrated metabolic strategies allow foraminiferan protists to thrive in anoxic marine sediments. <i>Science Advances</i> , 2021, 7, .	10.3	20
28	Oxygen Isotopes ($\delta^{18}\text{O}$) Trace Photochemical Hydrocarbon Oxidation at the Sea Surface. <i>Geophysical Research Letters</i> , 2019, 46, 6745-6754.	4.0	18
29	Spatial Heterogeneity in Particle-Associated, Light-Independent Superoxide Production Within Productive Coastal Waters. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016747.	2.6	14
30	Euphotic zone nitrification in the California Current Ecosystem. <i>Limnology and Oceanography</i> , 2020, 65, 790-806.	3.1	13
31	Ferromanganese crusts as recorders of marine dissolved oxygen. <i>Earth and Planetary Science Letters</i> , 2020, 533, 116057.	4.4	13
32	Substantial oxygen consumption by aerobic nitrite oxidation in oceanic oxygen minimum zones. <i>Nature Communications</i> , 2021, 12, 7043.	12.8	13
33	Isotopic Constraints on Nitrogen Transformation Rates in the Deep Sedimentary Marine Biosphere. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1688-1702.	4.9	12
34	Development of a Handheld Submersible Chemiluminescent Sensor: Quantification of Superoxide at Coral Surfaces. <i>Environmental Science & Technology</i> , 2019, 53, 13850-13858.	10.0	12
35	An isotopic study of abiotic nitrite oxidation by ligand-bound manganese (III). <i>Geochimica Et Cosmochimica Acta</i> , 2021, 293, 365-378.	3.9	11
36	Recent Increases in Water Column Denitrification in the Seasonally Suboxic Bottom Waters of the Santa Barbara Basin. <i>Geophysical Research Letters</i> , 2019, 46, 6786-6795.	4.0	8

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37	Spectroscopic Insights Into Ferromanganese Crust Formation and Diagenesis. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009074.	2.5	8
38	Impact of reactive surfaces on the abiotic reaction between nitrite and ferrous iron and associated nitrogen and oxygen isotope dynamics. <i>Biogeosciences</i> , 2020, 17, 4355-4374.	3.3	8
39	Isotopic signals in an agricultural watershed suggest denitrification is locally intensive in riparian areas but extensive in upland soils. <i>Biogeochemistry</i> , 2022, 158, 251-268.	3.5	8
40	Influence of $\delta^{18}\text{O}$ of water on measurements of $\delta^{18}\text{O}$ of nitrite and nitrate. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8979.	1.5	5
41	Enzyme-catalyzed isotope equilibrium: A hypothesis to explain apparent N cycling phenomena in low oxygen environments. <i>Marine Chemistry</i> , 2022, 244, 104140.	2.3	5
42	The redox fate of hydrogen peroxide in the marine water column. <i>Limnology and Oceanography</i> , 2021, 66, 3828-3841.	3.1	4
43	The Isotopic Imprint of Life on an Evolving Planet. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	3
44	Nitrate sources and the effect of land cover on the isotopic composition of nitrate in the catchment of the Rhône River. <i>Isotopes in Environmental and Health Studies</i> , 2020, 56, 14-35.	1.0	3
45	The Abiotic Nitrite Oxidation by Ligand-Bound Manganese (III): The Chemical Mechanism. <i>Aquatic Geochemistry</i> , 2021, 27, 207.	1.3	1
46	Development of a Deep-Sea Submersible Chemiluminescent Analyzer for Sensing Short-Lived Reactive Chemicals. <i>Sensors</i> , 2022, 22, 1709.	3.8	1