Seth G John

List of Publications by Year
in descending order

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80 papers	5,307 citations	87888 38 h-index	85541 71 g-index
87 all docs	87 docs citations	87 times ranked	5044 citing authors

#	Article	IF	Citations
1	Quantification of dissolved iron sources to the North Atlantic Ocean. Nature, 2014, 511, 212-215.	27.8	287
2	The GEOTRACES Intermediate Data Product 2017. Chemical Geology, 2018, 493, 210-223.	3.3	257
3	A simple and efficient method for concentration of ocean viruses by chemical flocculation. Environmental Microbiology Reports, 2011, 3, 195-202.	2.4	245
4	Metabolic and biogeochemical consequences of viral infection in aquatic ecosystems. Nature Reviews Microbiology, 2020, 18, 21-34.	28.6	222
5	Geochemical evidence for ironâ€mediated anaerobic oxidation of methane. Limnology and Oceanography, 2011, 56, 1536-1544.	3.1	218
6	Iron Isotope Systematics. Reviews in Mineralogy and Geochemistry, 2017, 82, 415-510.	4.8	205
7	Iron persistence in a distal hydrothermal plume supported by dissolvedâ€“particulate exchange. Nature Geoscience, 2017, 10, 195-201.	12.9	204
8	Zinc isotope fractionation during highâ€affinity and lowâ€affinity zinc transport by the marine diatom Thalassiosira oceanica. Limnology and Oceanography, 2007, 52, 2710-2714.	3.1	175
9	A role for scavenging in the marine biogeochemical cycling of zinc and zinc isotopes. Earth and Planetary Science Letters, 2014, 394, 159-167.	4.4	160
10	A new method for precise determination of iron, zinc and cadmium stable isotope ratios in seawater by double-spike mass spectrometry. Analytica Chimica Acta, 2013, 793, 44-52.	5.4	154
11	Zinc stable isotopes in seafloor hydrothermal vent fluids and chimneys. Earth and Planetary Science Letters, 2008, 269, 17-28.	4.4	143
12	The cycling of iron, zinc and cadmium in the North East Pacific Ocean â€“ Insights from stable isotopes. Geochimica Et Cosmochimica Acta, 2015, 164, 262-283.	3.9	136
13	Siderophore Mediated Plutonium Accumulation byMicrobacterium flavescens(JG-9). Environmental Science & Technology, 2001, 35, 2942-2948.	10.0	133
14	The biogeochemical cycling of zinc and zinc isotopes in the North Atlantic Ocean. Global Biogeochemical Cycles, 2014, 28, 1111-1128.	4.9	133
15	Undocumented water column sink for cadmium in open ocean oxygen-deficient zones. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6888-6893.	7.1	115
16	Biological uptake and reversible scavenging of zinc in the global ocean. Science, 2018, 361, 72-76.	12.6	112
17	The isotopic composition of some common forms of anthropogenic zinc. Chemical Geology, 2007, 245, 61-69.	3.3	106
18	Biogeochemical cycling of cadmium isotopes along a high-resolution section through the North Atlantic Ocean. Geochimica Et Cosmochimica Acta, 2015, 148, 269-283.	3.9	106

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19	GEOTRACES IC1 (BATS) contaminationâ€prone trace element isotopes Cd, Fe, Pb, Zn, Cu, and Mo intercalibration. Limnology and Oceanography: Methods, 2012, 10, 653-665.	2.0	98
20	Distinct iron isotopic signatures and supply from marine sediment dissolution. Nature Communications, 2013, 4, 2143.	12.8	97
21	Partitioning of dissolved iron and iron isotopes into soluble and colloidal phases along the GA03 GEOTRACES North Atlantic Transect. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 116, 130-151.	1.4	95
22	The Transpolar Drift as a Source of Riverine and Shelfâ€Derived Trace Elements to the Central Arctic Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015920.	2.6	80
23	The flux of iron and iron isotopes from San Pedro Basin sediments. Geochimica Et Cosmochimica Acta, 2012, 93, 14-29.	3.9	79
24	Analysis of dissolved iron isotopes in seawater. Marine Chemistry, 2010, 119, 65-76.	2.3	74
25	Biogeochemical cycling of Zn and Cd and their stable isotopes in the Eastern Tropical South Pacific. Marine Chemistry, 2018, 201, 256-262.	2.3	71
26	Tracing and constraining anthropogenic aerosol iron fluxes to the North Atlantic Ocean using iron isotopes. Nature Communications, 2019, 10, 2628.	12.8	71
27	Transport and reaction of iron and iron stable isotopes in glacial meltwaters on Svalbard near Kongsfjorden: From rivers to estuary to ocean. Earth and Planetary Science Letters, 2015, 424, 201-211.	4.4	67
28	Redox-driven stable isotope fractionation in transition metals: Application to Zn electroplating. Geochimica Et Cosmochimica Acta, 2008, 72, 1731-1741.	3.9	66
29	Tracking the rise of eukaryotes to ecological dominance with zinc isotopes. Geobiology, 2018, 16, 341-352.	2.4	65
30	Divergent responses of Atlantic coastal and oceanic Synechococcus to iron limitation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9944-9949.	7.1	61
31	Zinc and cadmium stable isotopes in the geological record: A case study from the post-snowball Earth Nuccaleena cap dolostone. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 466, 202-208.	2.3	61
32	Intercomparison of dissolved trace elements at the Bermuda Atlantic Time Series station. Marine Chemistry, 2015, 177, 476-489.	2.3	58
33	Anthropogenic Asian aerosols provide Fe to the North Pacific Ocean. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27862-27868.	7.1	54
34	Optimizing sample and spike concentrations for isotopic analysis by double-spike ICPMS. Journal of Analytical Atomic Spectrometry, 2012, 27, 2123.	3.0	48
35	Iron colloids dominate sedimentary supply to the ocean interior. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	44
36	Biogeochemical cycling of Fe and Fe stable isotopes in the Eastern Tropical South Pacific. Marine Chemistry, 2018, 201, 66-76.	2.3	42

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37	Expanding Tara Oceans Protocols for Underway, Ecosystemic Sampling of the Ocean-Atmosphere Interface During Tara Pacific Expedition (2016â€“2018). Frontiers in Marine Science, 2019, 6, .	2.5	42
38	Dissolved iron and iron isotopes in the southeastern Pacific Ocean. Global Biogeochemical Cycles, 2016, 30, 1372-1395.	4.9	41
39	Latitudinal constraints on the abundance and activity of the cyanobacterium UCYNâ€A and other marine diazotrophs in the North Pacific. Limnology and Oceanography, 2020, 65, 1858-1875.	3.1	40
40	The vertical distribution of iron stable isotopes in the North Atlantic near Bermuda. Global Biogeochemical Cycles, 2012, 26, .	4.9	38
41	A comparison of marine Fe and Mn cycling: U.S. GEOTRACES GN01 Western Arctic case study. Geochimica Et Cosmochimica Acta, 2020, 288, 138-160.	3.9	36
42	KÄ«lauea lava fuels phytoplankton bloom in the North Pacific Ocean. Science, 2019, 365, 1040-1044.	12.6	35
43	Replacement Times of a Spectrum of Elements in the North Atlantic Based on Thorium Supply. Global Biogeochemical Cycles, 2018, 32, 1294-1311.	4.9	32
44	The acceleration of dissolved cobalt's ecological stoichiometry due to biological uptake, remineralization, and scavenging in the Atlantic Ocean. Biogeosciences, 2017, 14, 4637-4662.	3.3	30
45	The isotopic signature and distribution of particulate iron in the North Atlantic Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 116, 321-331.	1.4	28
46	Dissolved and particulate trace elements in late summer Arctic melt ponds. Marine Chemistry, 2018, 204, 70-85.	2.3	28
47	Structure Elucidation and Characterization of Polychlorinated Biphenyl Carboxylic Acids as Major Constituents of Chromophoric Dissolved Organic Matter in Seawater. Environmental Science & Technology, 2004, 38, 5373-5378.	10.0	27
48	Purification and characterization of rhodobactin: a mixed ligand siderophore from Rhodococcus rhodochrous strain OFS. BioMetals, 2007, 20, 853-867.	4.1	26
49	Intercomparison of dissolved iron isotope profiles from reoccupation of three GEOTRACES stations in the Atlantic Ocean. Marine Chemistry, 2016, 183, 50-61.	2.3	25
50	An Inexpensive, Accurate, and Precise Wet-Mount Method for Enumerating Aquatic Viruses. Applied and Environmental Microbiology, 2015, 81, 2995-3000.	3.1	23
51	Fractionation of iron isotopes during leaching of natural particles by acidic and circumneutral leaches and development of an optimal leach for marine particulate iron isotopes. Geochimica Et Cosmochimica Acta, 2015, 166, 92-104.	3.9	23
52	Dissolved cadmium and cadmium stable isotopes in the western Arctic Ocean. Geochimica Et Cosmochimica Acta, 2019, 258, 258-273.	3.9	22
53	A new purification method for Ni and Cu stable isotopes in seawater provides evidence for widespread Ni isotope fractionation by phytoplankton in the North Pacific. Chemical Geology, 2020, 547, 119662.	3.3	22
54	The effect of iron limitation on cyanobacteria major nutrient and trace element stoichiometry. Limnology and Oceanography, 2017, 62, 846-858.	3.1	21

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55	Reversible scavenging traps hydrothermal iron in the deep ocean. Earth and Planetary Science Letters, 2020, 542, 116297.	4.4	21
56	Distribution and isotopic signature of ligand-leachable particulate iron along the GEOTRACES GP16 East Pacific Zonal Transect. Marine Chemistry, 2018, 201, 198-211.	2.3	20
57	Iron Depletion in the Deep Chlorophyll Maximum: Mesoscale Eddies as Natural Iron Fertilization Experiments. Global Biogeochemical Cycles, 2021, 35, e2021GB007112.	4.9	20
58	A new anion exchange purification method for Cu stable isotopes in blood samples. Analytical and Bioanalytical Chemistry, 2019, 411, 765-776.	3.7	18
59	Metal isotope signatures from lava-seawater interaction during the 2018 eruption of KÄ«lauea. Geochimica Et Cosmochimica Acta, 2020, 282, 340-356.	3.9	17
60	Elevated sources of cobalt in the Arctic Ocean. Biogeosciences, 2020, 17, 4745-4767.	3.3	17
61	Iron Chloride Flocculation of Bacteriophages from Seawater. Methods in Molecular Biology, 2018, 1681, 49-57.	0.9	16
62	Effect of temperature and mass transport on transition metal isotope fractionation during electroplating. Geochimica Et Cosmochimica Acta, 2010, 74, 5187-5201.	3.9	15
63	Coupled effects of temperature and mass transport on the isotope fractionation of zinc during electroplating. Geochimica Et Cosmochimica Acta, 2014, 124, 272-282.	3.9	15
64	AWESOME OCIM: A simple, flexible, and powerful tool for modeling elemental cycling in the oceans. Chemical Geology, 2020, 533, 119403.	3.3	15
65	Independent iron and light limitation in a low-light-adapted Prochlorococcus from the deep chlorophyll maximum. ISME Journal, 2021, 15, 359-362.	9.8	14
66	Biogeochemical Dynamics in Adjacent Mesoscale Eddies of Opposite Polarity. Global Biogeochemical Cycles, 2022, 36, .	4.9	13
67	Delivery of Metals and Dissolved Black Carbon to the Southern California Coastal Ocean via Aerosols and Floodwaters Following the 2017 Thomas Fire. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006117.	3.0	10
68	Anthropogenic lead pervasive in Canadian Arctic seawater. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	9
69	Growth of marine Vibrio in oligotrophic environments is not stimulated by the addition of inorganic iron. Earth and Planetary Science Letters, 2019, 516, 148-155.	4.4	8
70	Lack of redox cycling for nickel in the water column of the Eastern tropical north pacific oxygen deficient zone: Insight from dissolved and particulate nickel isotopes. Geochimica Et Cosmochimica Acta, 2021, 309, 235-250.	3.9	8
71	Does Activation of the Anti Proton, Rather than Concertedness, Determine the Stereochemistry of Base-Catalyzed 1,2-Elimination Reactions? Anti Stereospecificity in E1cB Eliminations of Î²-3-Trifluoromethylphenoxy Esters, Thioesters, and Ketones. Journal of Organic Chemistry, 2012, 77, 2819-2828.	3.2	7
72	11 Iron Isotope Systematics. , 2017, , 415-510.		7

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73	A simple and efficient method for concentration of ocean viruses by chemical flocculation. Environmental Microbiology Reports, 2011, 3, 809-809.	2.4	6
74	Iron Isotope Biogeochemical Cycling in the Western Arctic Ocean. Global Biogeochemical Cycles, 2021, 35, e2021GB006977.	4.9	6
75	Distribution patterns of dissolved trace metals (Fe, Ni, Cu, Zn, Cd, and Pb) in China marginal seas during the GEOTRACES GP06-CN cruise. Chemical Geology, 2022, 604, 120948.	3.3	6
76	GNOM v1.0: an optimized steady-state model of the modern marine neodymium cycle. Geoscientific Model Development, 2022, 15, 4625-4656.	3.6	6
77	Redox Driven Stable Isotope Fractionation. ACS Symposium Series, 2011, , 345-359.	0.5	5
78	Zinc isotope composition of the Proterozoic clastic-dominated McArthur River Zn-Pb-Ag deposit, northern Australia. Ore Geology Reviews, 2021, 139, 104545.	2.7	5
79	AIBECS.jl: A tool for exploring global marine biogeochemical cycles.. Journal of Open Source Software, 2022, 7, 3814.	4.6	3
80	Phosphate Scavenging During Lavaâ€Seawater Interaction Offshore of KÄ«lauea Volcano, Hawaii. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009754.	2.5	0