Maeve C Lohan

List of Publications by Year
in descending order

77 papers	4,133 citations	101543 36 h-index	118850 62 g-index
86 all docs	86 docs citations	86 times ranked	4236 citing authors

#	Article	IF	Citations
1	The GEOTRACES Intermediate Data Product 2017. Chemical Geology, 2018, 493, 210-223.	3.3	257
2	Developing Standards for Dissolved Iron in Seawater. Eos, 2007, 88, 131.	0.1	237
3	Vitamin B₁₂ and iron colimitation of phytoplankton growth in the Ross Sea. Limnology and Oceanography, 2007, 52, 1079-1093.	3.1	187
4	Interactive effects of iron, irradiance and CO2 on Ross Sea phytoplankton. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 368-383.	1.4	160
5	Dissolved iron speciation in two distinct river plumes and an estuary: Implications for riverine iron supply. Limnology and Oceanography, 2007, 52, 843-855.	3.1	146
6	River Influences on Shelf Ecosystems: Introduction and synthesis. Journal of Geophysical Research, 2010, 115, .	3.3	135
7	Elevated Fe(II) and Dissolved Fe in Hypoxic Shelf Waters off Oregon and Washington: An Enhanced Source of Iron to Coastal Upwelling Regimes. Environmental Science & Technology, 2008, 42, 6462-6468.	10.0	113
8	Nitrogen fixation and nitrogenase (nifH) expression in tropical waters of the eastern North Atlantic. ISME Journal, 2011, 5, 1201-1212.	9.8	111
9	Seasonal ITCZ migration dynamically controls the location of the (sub)tropical Atlantic biogeochemical divide. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1438-1442.	7.1	107
10	Early season depletion of dissolved iron in the Ross Sea polynya: Implications for iron dynamics on the Antarctic continental shelf. Journal of Geophysical Research, 2011, 116, .	3.3	105
11	Determination of iron and copper in seawater at pH 1.7 with a new commercially available chelating resin, NTA Superflow. Analytica Chimica Acta, 2005, 530, 121-129.	5.4	102
12	Influence of zinc and iron enrichments on phytoplankton growth in the northeastern subarctic Pacific. Limnology and Oceanography, 2003, 48, 1583-1600.	3.1	101
13	Silicon and zinc biogeochemical cycles coupled through the Southern Ocean. Nature Geoscience, 2017, 10, 202-206.	12.9	100
14	Total dissolved zinc in the upper water column of the subarctic North East Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 5793-5808.	1.4	96
15	Micro- and macronutrients in the southeastern Bering Sea: Insight into iron-replete and iron-depleted regimes. Progress in Oceanography, 2007, 73, 99-126.	3.2	94
16	Flow injection analysis as a tool for enhancing oceanographic nutrient measurementsâ€"A review. Analytica Chimica Acta, 2013, 803, 15-40.	5.4	89
17	Biogeochemical cycling of dissolved zinc along the GEOTRACES South Atlantic transect GA10 at 40Â°S. Global Biogeochemical Cycles, 2014, 28, 44-56.	4.9	88
18	Alkaline phosphatase activity in the subtropical ocean: insights from nutrient, dust and trace metal addition experiments. Frontiers in Marine Science, 2014, 1, .	2.5	85

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19	Synergistic effects of iron and temperature on Antarctic phytoplankton and microzooplankton assemblages. Biogeosciences, 2009, 6, 3131-3147.	3.3	76
20	Iron biogeochemistry across marine systems â€“ progress from the past decade. Biogeosciences, 2010, 7, 1075-1097.	3.3	69
21	Increasing picocyanobacteria success in shelf waters contributes to longâ€term food web degradation. Global Change Biology, 2020, 26, 5574-5587.	9.5	68
22	Importance of vertical mixing for additional sources of nitrate and iron to surface waters of the Columbia River plume: Implications for biology. Marine Chemistry, 2006, 98, 260-273.	2.3	63
23	Iron stable isotopes track pelagic iron cycling during a subtropical phytoplankton bloom. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E15-20.	7.1	63
24	Direct determination of iron in acidified (pH 1.7) seawater samples by flow injection analysis with catalytic spectrophotometric detection: Application and intercomparison. Limnology and Oceanography: Methods, 2006, 4, 164-171.	2.0	62
25	The distribution of reactive iron in northern Gulf of Alaska coastal waters. Marine Chemistry, 2010, 121, 187-199.	2.3	59
26	Factors influencing the chemistry of the nearâ€field Columbia River plume: Nitrate, silicic acid, dissolved Fe, and dissolved Mn. Journal of Geophysical Research, 2008, 113, .	3.3	57
27	Coastal ocean and shelf-sea biogeochemical cycling of trace elements and isotopes: lessons learned from GEOTRACES. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160076.	3.4	56
28	Iron and zinc enrichments in the northeastern subarctic Pacific: Ligand production and zinc availability in response to phytoplankton growth. Limnology and Oceanography, 2005, 50, 1427-1437.	3.1	47
29	Determination of dissolved iron in seawater: A historical review. Marine Chemistry, 2014, 166, 25-35.	2.3	47
30	Return of naturally sourced Pb to Atlantic surface waters. Nature Communications, 2016, 7, 12921.	12.8	47
31	Sources of elevated heavy metal concentrations in sediments and benthic marine invertebrates of the western Antarctic Peninsula. Science of the Total Environment, 2020, 698, 134268.	8.0	47
32	The oceanic biogeochemistry of nickel and its isotopes: New data from the South Atlantic and the Southern Ocean biogeochemical divide. Earth and Planetary Science Letters, 2020, 535, 116118.	4.4	45
33	The impact of changing surface ocean conditions on the dissolution of aerosol iron. Global Biogeochemical Cycles, 2014, 28, 1235-1250.	4.9	44
34	Paired dissolved and particulate phase Cu isotope distributions in the South Atlantic. Chemical Geology, 2018, 502, 29-43.	3.3	44
35	Cobalt scavenging in the mesopelagic ocean and its influence on global mass balance: Synthesizing water column and sedimentary fluxes. Marine Chemistry, 2018, 201, 151-166.	2.3	40
36	Trace metals in the Antarctic soft-shelled clam Laternula elliptica : implications for metal pollution from Antarctic research stations. Polar Biology, 2001, 24, 808-817.	1.2	36

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37	Multiple trophic levels fueled by recirculation in the Columbia River plume. Geophysical Research Letters, 2010, 37, .	4.0	36
38	Elucidating the structural properties that influence the persistence of PCBs in humans using the National Health and Nutrition Examination Survey (NHANES) dataset. Science of the Total Environment, 2013, 461-462, 99-107.	8.0	35
39	Oceanic Micronutrients: Trace Metals that are Essential for Marine Life. Elements, 2018, 14, 385-390.	0.5	35
40	Controls on dissolved cobalt in surface waters of the Sargasso Sea: Comparisons with iron and aluminum. Global Biogeochemical Cycles, 2012, 26, .	4.9	34
41	Particulate phases are key in controlling dissolved iron concentrations in the (sub)tropical North Atlantic. Geophysical Research Letters, 2017, 44, 2377-2387.	4.0	34
42	The relationship between zinc, its isotopes, and the major nutrients in the North-East Pacific. Earth and Planetary Science Letters, 2019, 525, 115748.	4.4	34
43	Fingerprinting polychlorinated biphenyls in environmental samples using comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry. Journal of Chromatography A, 2013, 1318, 276-283.	3.7	31
44	Nitrate drawdown during a shelf sea spring bloom revealed using a novel microfluidic in situ chemical sensor deployed within an autonomous underwater glider. Marine Chemistry, 2018, 205, 29-36.	2.3	30
45	Determination of total dissolved cobalt in UV-irradiated seawater using flow injection with chemiluminescence detection. Limnology and Oceanography: Methods, 2010, 8, 352-362.	2.0	28
46	Anthropogenic Signatures of Lead in the Northeast Atlantic. Geophysical Research Letters, 2018, 45, 2734-2743.	4.0	26
47	Co-occurrence of Fe and P stress in natural populations of the marine diazotroph <i>Trichodesmium</i>. Biogeosciences, 2020, 17, 2537-2551.	3.3	26
48	Uncertainty contributions to the measurement of dissolved Co, Fe, Pb and V in seawater using flow injection with solid phase preconcentration and detection by collision/reaction cellâ€"quadrupole ICPâ€"MS. Talanta, 2015, 133, 162-169.	5.5	24
49	Trace metal distributions within a Sitka eddy in the northern Gulf of Alaska. Limnology and Oceanography, 2012, 57, 503-518.	3.1	23
50	Can polychlorinated biphenyl (PCB) signatures and enantiomer fractions be used for source identification and to age date occupational exposure?. Environment International, 2015, 81, 56-63.	10.0	23
51	Seasonal iron depletion in temperate shelf seas. Geophysical Research Letters, 2017, 44, 8987-8996.	4.0	23
52	The distribution of lead concentrations and isotope compositions in the eastern Tropical Atlantic Ocean. Geochimica Et Cosmochimica Acta, 2018, 225, 36-51.	3.9	21
53	Effects of high CO2 on the fixed nitrogen inventory of the Western English Channel. Journal of Plankton Research, 2010, 32, 631-641.	1.8	20
54	Combined uncertainty estimation for the determination of the dissolved iron amount content in seawater using flow injection with chemiluminescence detection. Limnology and Oceanography: Methods, 2015, 13, 673-686.	2.0	20

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55	Reactive iron delivery to the Gulf of Alaska via a Kenai eddy. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 1091-1102.	1.4	19
56	Tracing the Agulhas leakage with lead isotopes. Geophysical Research Letters, 2015, 42, 8515-8521.	4.0	18
57	Iron Distribution in the Subtropical North Atlantic: The Pivotal Role of Colloidal Iron. Global Biogeochemical Cycles, 2019, 33, 1532-1547.	4.9	18
58	Transcriptional responses of Trichodesmium to natural inverse gradients of Fe and P availability. ISME Journal, 2022, 16, 1055-1064.	9.8	18
59	Impact of surface ocean conditions and aerosol provenance on the dissolution of aerosol manganese, cobalt, nickel and lead in seawater. Marine Chemistry, 2018, 198, 28-43.	2.3	17
60	The eastern extent of seasonal iron limitation in the high latitude North Atlantic Ocean. Scientific Reports, 2019, 9, 1435.	3.3	17
61	Identifying the provenance of Leachâ€™s storm petrels in the North Atlantic using polychlorinated biphenyl signatures derived from comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry. Chemosphere, 2014, 114, 195-202.	8.2	14
62	Uncertainty associated with the leaching of aerosol filters for the determination of metals in aerosol particulate matter using collision/reaction cell ICP-MS detection. Talanta, 2019, 199, 425-430.	5.5	13
63	Leachable particulate iron in the Columbia River, estuary, and near-field plume. Estuarine, Coastal and Shelf Science, 2010, 87, 33-42.	2.1	10
64	A tale of two gyres: Contrasting distributions of dissolved cobalt and iron in the Atlantic Ocean during an Atlantic Meridional Transect (AMT-19). Progress in Oceanography, 2017, 158, 52-64.	3.2	9
65	Measurement uncertainty associated with shipboard sample collection and filtration for the determination of the concentration of iron in seawater. Analytical Methods, 2016, 8, 6711-6719.	2.7	7
66	Water mass analysis along 22 Â°N in the subtropical North Atlantic for the JC150 cruise (GEOTRACES,) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.4	7
67	Changes to polychlorinated biphenyl (PCB) signatures and enantiomer fractions across different tissue types in Guillemots. Marine Pollution Bulletin, 2018, 131, 174-179.	5.0	6
68	Estimating Uncertainties in Oceanographic Trace Element Measurements. Frontiers in Marine Science, 2019, 5, .	2.5	6
69	Radium-228-derived ocean mixing and trace element inputs in the South Atlantic. Biogeosciences, 2021, 18, 1645-1671.	3.3	6
70	Equilibrium calculations of iron speciation and apparent iron solubility in the Celtic Sea at ambient seawater pH using the NICA-Donnan model. Marine Chemistry, 2021, 237, 104038.	2.3	6
71	Trace metal contents of autotrophic flagellates from contrasting openâ€ocean ecosystems. Limnology and Oceanography Letters, 2022, 7, 354-362.	3.9	6
72	The Importance of Bottom-Up Approaches to International Cooperation in Ocean Science: The Iron Story. Oceanography, 2020, 33, 11-15.	1.0	4

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73	Improving understanding of organic metal-binding ligands in the ocean. Eos, 2012, 93, 244-244.	0.1	3
74	Diurnal variability in alkaline phosphatase activity and the potential role of zooplankton. Limnology and Oceanography Letters, 2019, 4, 71-78.	3.9	3
75	The Importance of Water Mass Transport and Dissolvedâ€Particle Interactions on the Aluminum Cycle in the Subtropical North Atlantic. Global Biogeochemical Cycles, 2021, 35, e2020GB006569.	4.9	3
76	Seasonal cycling of zinc and cobalt in the south-eastern Atlantic along the GEOTRACES GA10 section. Biogeosciences, 2021, 18, 4265-4280.	3.3	3
77	Determination of Iron in Seawater. , 2009, , .		1