

Delphine Lannuzel

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

3,942
citations

109137

35
h-index

123241

61
g-index

68
all docs

68
docs citations

68
times ranked

3985
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal contribution to the oceanic dissolved iron inventory. <i>Nature Geoscience</i> , 2010, 3, 252-256.	5.4	353
2	Mercury in the Southern Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4037-4052.	1.6	209
3	Role of sea ice in global biogeochemical cycles: emerging views and challenges. <i>Quaternary Science Reviews</i> , 2013, 79, 207-230.	1.4	202
4	Microplastic contamination in east Antarctic sea ice. <i>Marine Pollution Bulletin</i> , 2020, 154, 111130.	2.3	171
5	Biogeochemical iron budgets of the Southern Ocean south of Australia: Decoupling of iron and nutrient cycles in the subantarctic zone by the summertime supply. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	164
6	Distribution and biogeochemical behaviour of iron in the East Antarctic sea ice. <i>Marine Chemistry</i> , 2007, 106, 18-32.	0.9	160
7	Southern Ocean iron fertilization by baleen whales and Antarctic krill. <i>Fish and Fisheries</i> , 2010, 11, 203-209.	2.7	146
8	Iron study during a time series in the western Weddell pack ice. <i>Marine Chemistry</i> , 2008, 108, 85-95.	0.9	131
9	Natural iron fertilization of the Atlantic sector of the Southern Ocean by continental shelf sources of the Antarctic Peninsula. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	99
10	The future of Arctic sea-ice biogeochemistry and ice-associated ecosystems. <i>Nature Climate Change</i> , 2020, 10, 983-992.	8.1	96
11	Chlorophyll <i>a</i> in Antarctic sea ice from historical ice core data. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	95
12	Distribution of dissolved iron in Antarctic sea ice: Spatial, seasonal, and interannual variability. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	94
13	Biogeochemical observations during the winter-spring transition in East Antarctic sea ice: Evidence of iron and exopolysaccharide controls. <i>Marine Chemistry</i> , 2009, 115, 163-175.	0.9	84
14	Precise measurement of Fe isotopes in marine samples by multi-collector inductively coupled plasma mass spectrometry (MC-ICP-MS). <i>Analytica Chimica Acta</i> , 2007, 589, 105-119.	2.6	83
15	Methods for biogeochemical studies of sea ice: The state of the art, caveats, and recommendations. <i>Elementa</i> , 2015, 3, .	1.1	77
16	Temporal evolution of decaying summer first-year sea ice in the Western Weddell Sea, Antarctica. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 975-987.	0.6	75
17	Southern Ocean CO ₂ sink: The contribution of the sea ice. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6340-6355.	1.0	72
18	The characteristics of dissolved organic matter (DOM) and chromophoric dissolved organic matter (CDOM) in Antarctic sea ice. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1075-1091.	0.6	71

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19	Modern sampling and analytical methods for the determination of trace elements in marine particulate material using magnetic sector inductively coupled plasma-mass spectrometry. <i>Analytica Chimica Acta</i> , 2010, 676, 15-27.	2.6	70
20	Distribution of dissolved and particulate metals in Antarctic sea ice. <i>Marine Chemistry</i> , 2011, 124, 134-146.	0.9	68
21	Critical evaluation of a seaFAST system for the analysis of trace metals in marine samples. <i>Talanta</i> , 2019, 197, 653-668.	2.9	68
22	High-accuracy determination of iron in seawater by isotope dilution multiple collector inductively coupled plasma mass spectrometry (ID-MC-ICP-MS) using nitrilotriacetic acid chelating resin for pre-concentration and matrix separation. <i>Analytica Chimica Acta</i> , 2008, 623, 126-139.	2.6	65
23	Distributions of dissolved and particulate iron in the sub-Antarctic and Polar Frontal Southern Ocean (Australian sector). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 2094-2112.	0.6	65
24	Iron in sea ice: Review and new insights. <i>Elementa</i> , 2016, 4, .	1.1	65
25	Development of a sampling and flow injection analysis technique for iron determination in the sea ice environment. <i>Analytica Chimica Acta</i> , 2006, 556, 476-483.	2.6	62
26	The Biogeochemical Role of Baleen Whales and Krill in Southern Ocean Nutrient Cycling. <i>PLoS ONE</i> , 2014, 9, e114067.	1.1	57
27	Large flux of iron from the Amery Ice Shelf marine ice to Prydz Bay, East Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6009-6020.	1.0	47
28	High temporal resolution observations of spring fast ice melt and seawater iron enrichment in East Antarctica. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	46
29	Biogeochemistry and microbial community composition in sea ice and underlying seawater off East Antarctica during early spring. <i>Polar Biology</i> , 2009, 32, 879-895.	0.5	44
30	Iron fractionation in pack and fast ice in East Antarctica: Temporal decoupling between the release of dissolved and particulate iron during spring melt. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1222-1236.	0.6	43
31	Size fractionation of iron, manganese and aluminium in Antarctic fast ice reveals a lithogenic origin and low iron solubility. <i>Marine Chemistry</i> , 2014, 161, 47-56.	0.9	42
32	Organic ligands control the concentrations of dissolved iron in Antarctic sea ice. <i>Marine Chemistry</i> , 2015, 174, 120-130.	0.9	40
33	Macro-nutrient concentrations in Antarctic pack ice: Overall patterns and overlooked processes. <i>Elementa</i> , 2017, 5, .	1.1	39
34	Advances in the offline trace metal extraction of Mn, Co, Ni, Cu, Cd, and Pb from open ocean seawater samples with determination by sector field ICP-MS analysis. <i>Analytical Methods</i> , 2014, 6, 2837-2847.	1.3	38
35	A preliminary model of iron fertilisation by baleen whales and Antarctic krill in the Southern Ocean: Sensitivity of primary productivity estimates to parameter uncertainty. <i>Ecological Modelling</i> , 2016, 320, 203-212.	1.2	35
36	Dissolved and particulate metals (Fe, Zn, Cu, Cd, Pb) in two habitats from an active hydrothermal field on the EPR at 13°N. <i>Science of the Total Environment</i> , 2008, 392, 119-129.	3.9	34

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37	Chlorophyll <i>a</i> in Antarctic Landfast Sea Ice: A First Synthesis of Historical Ice Core Data. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 8444-8459.	1.0	34
38	Iron biogeochemistry in Antarctic pack ice during SIPEX-2. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 131, 111-122.	0.6	33
39	Distribution and characterization of dissolved and particulate organic matter in Antarctic pack ice. <i>Polar Biology</i> , 2009, 32, 733-750.	0.5	32
40	Sea Ice Meltwater and Circumpolar Deep Water Drive Contrasting Productivity in Three Antarctic Polynyas. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 2943-2968.	1.0	31
41	Effect of melting Antarctic sea ice on the fate of microbial communities studied in microcosms. <i>Polar Biology</i> , 2013, 36, 1483-1497.	0.5	29
42	Preliminary investigation into the stimulation of phytoplankton photophysiology and growth by whale faeces. <i>Journal of Experimental Marine Biology and Ecology</i> , 2013, 446, 1-9.	0.7	28
43	Climate change impacts on sea-ice ecosystems and associated ecosystem services. <i>Elementa</i> , 2021, 9, .	1.1	26
44	High variability in dissolved iron concentrations in the vicinity of the Kerguelen Islands (Southern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 .	1.3	24
45	Trace metals Cd, Co, Cu, Ni, and Zn in waters of the subantarctic and Polar Frontal Zones south of Tasmania during the "SAZ-Sense" project. <i>Marine Chemistry</i> , 2013, 148, 63-76.	0.9	21
46	Incorporation of iron and organic matter into young Antarctic sea ice during its initial growth stages. <i>Elementa</i> , 2016, 4, .	1.1	21
47	Sea-ice algal primary production and nitrogen uptake rates off East Antarctica. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 131, 140-149.	0.6	18
48	Influence of organic complexation on dissolved iron distribution in East Antarctic pack ice. <i>Marine Chemistry</i> , 2018, 203, 28-37.	0.9	17
49	Enhanced Iron Flux to Antarctic Sea Ice via Dust Deposition From Ice-Free Coastal Areas. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8538-8557.	1.0	17
50	What sea-ice biogeochemical modellers need from observers. <i>Elementa</i> , 0, 4, 000084.	1.1	17
51	The Neodymium Isotope Fingerprint of AdÃ©lie Coast Bottom Water. <i>Geophysical Research Letters</i> , 2018, 45, 11,247.	1.5	16
52	Nutrient Distribution in East Antarctic Summer Sea Ice: A Potential Iron Contribution From Glacial Basal Melt. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016130.	1.0	16
53	Understanding the variability in the iron concentration of Antarctic krill. <i>Limnology and Oceanography</i> , 2016, 61, 1651-1660.	1.6	15
54	Physical speciation and solubility of iron from baleen whale faecal material. <i>Marine Chemistry</i> , 2017, 194, 79-88.	0.9	15

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55	Dissolved iron and iron(II) distributions beneath the pack ice in the East Antarctic (120°E) during the winter/spring transition. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 131, 96-110.	0.6	14
56	The biogeochemical role of a microbial biofilm in sea ice. <i>Elementa</i> , 2021, 9, .	1.1	13
57	Field Observations and Physical-Biogeochemical Modeling Suggest Low Silicon Affinity for Antarctic Fast Ice Diatoms. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 7837-7853.	1.0	11
58	Calving Event Led to Changes in Phytoplankton Bloom Phenology in the Mertz Polynya, Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016387.	1.0	11
59	Circumpolar Deep Water and Shelf Sediments Support Late Summer Microbial Iron Remineralization. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006921.	1.9	8
60	Organic Matter Controls of Iron Incorporation in Growing Sea Ice. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	7
61	Size fractionation and bioavailability of iron released from melting sea ice in a subpolar marginal sea. <i>Marine Chemistry</i> , 2020, 221, 103774.	0.9	5
62	Effect of salinity and temperature on the determination of dissolved iron-binding organic ligands in the polar marine environment. <i>Marine Chemistry</i> , 2021, , 104051.	0.9	3
63	Concentration and isotopic composition of bromine and chlorine in Antarctic sea ice. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 293, 18-27.	1.6	1
64	Spatial and seasonal distribution of dissolved and particulate bioactive metals in Antarctic sea ice. <i>Elementa</i> , 2021, 9, .	1.1	0