

# Delphine Lannuzel

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

3,942  
citations

109321

35  
h-index

123424

61  
g-index

68  
all docs

68  
docs citations

68  
times ranked

3985  
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentration and isotopic composition of bromine and chlorine in Antarctic sea ice. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 293, 18-27.	3.9	1
2	The biogeochemical role of a microbial biofilm in sea ice. <i>Elementa</i> , 2021, 9, .	3.2	13
3	Climate change impacts on sea-ice ecosystems and associated ecosystem services. <i>Elementa</i> , 2021, 9, .	3.2	26
4	Circumpolar Deep Water and Shelf Sediments Support Late Summer Microbial Iron Remineralization. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006921.	4.9	8
5	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.	2.3	3
6	Spatial and seasonal distribution of dissolved and particulate bioactive metals in Antarctic sea ice. <i>Elementa</i> , 2021, 9, .	3.2	0
7	Calving Event Led to Changes in Phytoplankton Bloom Phenology in the Mertz Polynya, Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016387.	2.6	11
8	The future of Arctic sea-ice biogeochemistry and ice-associated ecosystems. <i>Nature Climate Change</i> , 2020, 10, 983-992.	18.8	96
9	Size fractionation and bioavailability of iron released from melting sea ice in a subpolar marginal sea. <i>Marine Chemistry</i> , 2020, 221, 103774.	2.3	5
10	Microplastic contamination in east Antarctic sea ice. <i>Marine Pollution Bulletin</i> , 2020, 154, 111130.	5.0	171
11	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.	2.6	16
12	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.	2.6	17
13	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.	2.6	11
14	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.	2.6	31
15	Critical evaluation of a seaFAST system for the analysis of trace metals in marine samples. <i>Talanta</i> , 2019, 197, 653-668.	5.5	68
16	Influence of organic complexation on dissolved iron distribution in East Antarctic pack ice. <i>Marine Chemistry</i> , 2018, 203, 28-37.	2.3	17
17	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.	2.6	34
18	The Neodymium Isotope Fingerprint of Ad�lie Coast Bottom Water. <i>Geophysical Research Letters</i> , 2018, 45, 11,247.	4.0	16

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19	Organic Matter Controls of Iron Incorporation in Growing Sea Ice. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	7
20	Physical speciation and solubility of iron from baleen whale faecal material. <i>Marine Chemistry</i> , 2017, 194, 79-88.	2.3	15
21	Macro-nutrient concentrations in Antarctic pack ice: Overall patterns and overlooked processes. <i>Elementa</i> , 2017, 5, .	3.2	39
22	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.	2.6	47
23	Understanding the variability in the iron concentration of Antarctic krill. <i>Limnology and Oceanography</i> , 2016, 61, 1651-1660.	3.1	15
24	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.	2.5	35
25	Iron biogeochemistry in Antarctic pack ice during SIPEX-2. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 131, 111-122.	1.4	33
26	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.	1.4	14
27	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.	1.4	18
28	Incorporation of iron and organic matter into young Antarctic sea ice during its initial growth stages. <i>Elementa</i> , 2016, 4, .	3.2	21
29	Iron in sea ice: Review and new insights. <i>Elementa</i> , 2016, 4, .	3.2	65
30	High variability in dissolved iron concentrations in the vicinity of the Kerguelen Islands (Southern) Tj ETQqO 0 0 rgBT (Overlock 10 Tf 50	3.3	24
31	Organic ligands control the concentrations of dissolved iron in Antarctic sea ice. <i>Marine Chemistry</i> , 2015, 174, 120-130.	2.3	40
32	Methods for biogeochemical studies of sea ice: The state of the art, caveats, and recommendations. <i>Elementa</i> , 2015, 3, .	3.2	77
33	The Biogeochemical Role of Baleen Whales and Krill in Southern Ocean Nutrient Cycling. <i>PLoS ONE</i> , 2014, 9, e114067.	2.5	57
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.	2.7	38
35	Southern Ocean CO <sub>2</sub> sink: The contribution of the sea ice. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6340-6355.	2.6	72
36	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.	2.3	42

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37	Effect of melting Antarctic sea ice on the fate of microbial communities studied in microcosms. <i>Polar Biology</i> , 2013, 36, 1483-1497.	1.2	29
38	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.	2.3	21
39	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.	1.5	28
40	Role of sea ice in global biogeochemical cycles: emerging views and challenges. <i>Quaternary Science Reviews</i> , 2013, 79, 207-230.	3.0	202
41	Chlorophyll <i>a</i> in Antarctic sea ice from historical ice core data. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	95
42	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
43	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
44	Mercury in the Southern Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4037-4052.	3.9	209
45	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.	1.4	71
46	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.	1.4	43
47	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.	1.4	65
48	Distribution of dissolved and particulate metals in Antarctic sea ice. <i>Marine Chemistry</i> , 2011, 124, 134-146.	2.3	68
49	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.	5.4	70
50	Hydrothermal contribution to the oceanic dissolved iron inventory. <i>Nature Geoscience</i> , 2010, 3, 252-256.	12.9	353
51	Southern Ocean iron fertilization by baleen whales and Antarctic krill. <i>Fish and Fisheries</i> , 2010, 11, 203-209.	5.3	146
52	Distribution of dissolved iron in Antarctic sea ice: Spatial, seasonal, and inter-annual variability. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	94
53	Distribution and characterization of dissolved and particulate organic matter in Antarctic pack ice. <i>Polar Biology</i> , 2009, 32, 733-750.	1.2	32
54	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.	1.2	44

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55	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.	2.3	84
56	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, .	4.9	164
57	Iron study during a time series in the western Weddell pack ice. <i>Marine Chemistry</i> , 2008, 108, 85-95.	2.3	131
58	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.	5.4	65
59	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.	8.0	34
60	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.	1.4	75
61	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.	5.4	83
62	Distribution and biogeochemical behaviour of iron in the East Antarctic sea ice. <i>Marine Chemistry</i> , 2007, 106, 18-32.	2.3	160
63	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.	5.4	62
64	What sea-ice biogeochemical modellers need from observers. <i>Elementa</i> , 0, 4, 000084.	3.2	17