

# Sebastien Moreau

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2129780/publications.pdf>

Version: 2024-02-01

40  
papers

1,358  
citations

393982

19  
h-index

344852

36  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2464  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of sea ice in global biogeochemical cycles: emerging views and challenges. <i>Quaternary Science Reviews</i> , 2013, 79, 207-230.	1.4	202
2	Response of phytoplankton dynamics to 19-year (1991â€“2009) climate trends in Potter Cove (Antarctica). <i>Journal of Marine Systems</i> , 2012, 92, 53-66.	0.9	178
3	Observations of Ice Nucleating Particles Over Southern Ocean Waters. <i>Geophysical Research Letters</i> , 2018, 45, 11,989.	1.5	110
4	The future of Arctic sea-ice biogeochemistry and ice-associated ecosystems. <i>Nature Climate Change</i> , 2020, 10, 983-992.	8.1	96
5	Evaluating Southern Ocean Carbon Eddyâ€™Pump From Biogeochemicalâ€™Argo Floats. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 971-984.	1.0	69
6	Delivering Sustained, Coordinated, and Integrated Observations of the Southern Ocean for Global Impact. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	67
7	Climate change enhances primary production in the western Antarctic Peninsula. <i>Global Change Biology</i> , 2015, 21, 2191-2205.	4.2	58
8	Evidence for the Impact of Climate Change on Primary Producers in the Southern Ocean. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	45
9	Eddyâ€™induced carbon transport across the Antarctic Circumpolar Current. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1368-1386.	1.9	32
10	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
11	Remote assessment of the fate of phytoplankton in the Southern Ocean sea-ice zone. <i>Nature Communications</i> , 2020, 11, 3108.	5.8	31
12	Modelling argon dynamics in first-year sea ice. <i>Ocean Modelling</i> , 2014, 73, 1-18.	1.0	29
13	Opportunistic predation by small fishes on epibiota of jetty pilings in urban waterways. <i>Journal of Fish Biology</i> , 2008, 72, 205-217.	0.7	28
14	Drivers of inorganic carbon dynamics in firstâ€™year sea ice: A model study. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 471-495.	1.0	28
15	Frontiers in Fine-Scale in situ Studies: Opportunities During the SWOT Fast Sampling Phase. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	26
16	Climate change impacts on sea-ice ecosystems and associated ecosystem services. <i>Elementa</i> , 2021, 9, .	1.1	26
17	Variability of the microbial community in the western Antarctic Peninsula from late fall to spring during a low ice cover year. <i>Polar Biology</i> , 2010, 33, 1599-1614.	0.5	24
18	Assessment of the sea-ice carbon pump: Insights from a three-dimensional ocean-sea-ice biogeochemical model (NEMO-LIM-PISCES). <i>Elementa</i> , 2016, 4, .	1.1	20

#	ARTICLE	IF	CITATIONS
19	Influence of microbial community composition and metabolism on air-sea pCO <sub>2</sub> variation off the western Antarctic Peninsula. <i>Marine Ecology - Progress Series</i> , 2012, 446, 45-59.	0.9	20
20	The Biogeochemical Structure of Southern Ocean Mesoscale Eddies. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016115.	1.0	19
21	Latitudinal distributions of particulate carbon export across the North Western Atlantic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 129, 116-130.	0.6	18
22	Biogeochemical Impact of Snow Cover and Cyclonic Intrusions on the Winter Weddell Sea Ice Pack. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 9548-9571.	1.0	17
23	Influence of organic complexation on dissolved iron distribution in East Antarctic pack ice. <i>Marine Chemistry</i> , 2018, 203, 28-37.	0.9	17
24	What sea-ice biogeochemical modellers need from observers. <i>Elementa</i> , 0, 4, 000084.	1.1	17
25	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
26	Sea Ice CO <sub>2</sub> Dynamics Across Seasons: Impact of Processes at the Interfaces. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015807.	1.0	14
27	The combined effect of ultraviolet B radiation and temperature increase on phytoplankton dynamics and cell cycle using pulse shape recording flow cytometry. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 406, 95-107.	0.7	13
28	The role of phytoplankton composition and microbial community metabolism in sea-air pCO <sub>2</sub> variation in the Weddell Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013, 82, 44-59.	0.6	13
29	The biogeochemical role of a microbial biofilm in sea ice. <i>Elementa</i> , 2021, 9, .	1.1	13
30	Phenology and Environmental Control of Phytoplankton Blooms in the Kong Håkon VII Hav in the Southern Ocean. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	13
31	Effects of enhanced temperature and ultraviolet B radiation on a natural plankton community of the Beagle Channel (southern Argentina): a mesocosm study. <i>Aquatic Microbial Ecology</i> , 2014, 72, 155-173.	0.9	13
32	Nutrients in Water Masses in the Atlantic Sector of the Arctic Ocean: Temporal Trends, Mixing and Links With Primary Production. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017413.	1.0	12
33	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
34	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
35	Air-ice carbon pathways inferred from a sea ice tank experiment. <i>Elementa</i> , 2016, 4, .	1.1	11
36	Assessing the O <sub>2</sub> budget under sea ice: An experimental and modelling approach. <i>Elementa</i> , 2015, 3, .	1.1	3

#	ARTICLE	IF	CITATIONS
37	The Movement of CO <sub>2</sub> Through the Frozen World of Sea Ice. <i>Frontiers for Young Minds</i> , 0, 8, .	0.8	2
38	Implications of Sea Ice Management for Arctic Biogeochemistry. <i>Eos</i> , 2020, 101, .	0.1	2
39	The impact of dissolved organic carbon and bacterial respiration on pCO <sub>2</sub> in experimental sea ice. <i>Progress in Oceanography</i> , 2016, 141, 153-167.	1.5	1
40	Ecological impacts of ultraviolet-B radiation on marine ecosystems. , 2016, , 261-281.		1