

Christine Michel

List of Publications by Year in descending order

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42
papers

2,961
citations

218677

26
h-index

265206

42
g-index

43
all docs

43
docs citations

43
times ranked

3651
citing authors

#	ARTICLE	IF	CITATIONS
1	Arctic sea ice in transformation: A review of recent observed changes and impacts on biology and human activity. <i>Reviews of Geophysics</i> , 2014, 52, 185-217.	23.0	424
2	A novel chemical fossil of palaeo sea ice: IP25. <i>Organic Geochemistry</i> , 2007, 38, 16-27.	1.8	321
3	Global and regional drivers of nutrient supply, primary production and CO2 drawdown in the changing Arctic Ocean. <i>Progress in Oceanography</i> , 2015, 139, 171-196.	3.2	226
4	Role of sea ice in global biogeochemical cycles: emerging views and challenges. <i>Quaternary Science Reviews</i> , 2013, 79, 207-230.	3.0	202
5	Bloom dynamics in early opening waters of the Arctic Ocean. <i>Limnology and Oceanography</i> , 2006, 51, 900-912.	3.1	181
6	Biogenic carbon flows through the planktonic food web of the Amundsen Gulf (Arctic Ocean): A synthesis of field measurements and inverse modeling analyses. <i>Progress in Oceanography</i> , 2011, 91, 410-436.	3.2	138
7	Seasonal variation in benthic community oxygen demand: A response to an ice algal bloom in the Beaufort Sea, Canadian Arctic?. <i>Journal of Marine Systems</i> , 2007, 67, 1-12.	2.1	118
8	Modeling ice algal growth and decline in a seasonally ice-covered region of the Arctic (Resolute). <i>Journal of Marine Systems</i> , 2008, 74, 918-932.	3.3	113
9	Protist assemblages in winter sea ice: setting the stage for the spring ice algal bloom. <i>Polar Biology</i> , 2011, 34, 1803-1817.	1.2	89
10	Winter-spring dynamics in sea-ice carbon cycling in the coastal Arctic Ocean. <i>Journal of Marine Systems</i> , 2008, 74, 918-932.	2.1	86
11	Methods for biogeochemical studies of sea ice: The state of the art, caveats, and recommendations. <i>Elementa</i> , 2015, 3, .	3.2	77
12	Trophic structure and pathways of biogenic carbon flow in the eastern North Water Polynya. <i>Progress in Oceanography</i> , 2006, 71, 402-425.	3.2	71
13	Hydrocarbon biodegradation by Arctic sea-ice and sub-ice microbial communities during microcosm experiments, Northwest Passage (Nunavut, Canada). <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw130.	2.7	68
14	Springtime coupling between ice algal and phytoplankton assemblages in southeastern Hudson Bay, Canadian Arctic. <i>Polar Biology</i> , 1993, 13, 441.	1.2	67
15	Arctic Ocean outflow shelves in the changing Arctic: A review and perspectives. <i>Progress in Oceanography</i> , 2015, 139, 66-88.	3.2	65
16	Metagenomic survey of the taxonomic and functional microbial communities of seawater and sea ice from the Canadian Arctic. <i>Scientific Reports</i> , 2017, 7, 42242.	3.3	59
17	Broad-scale predictability of carbohydrates and exopolymers in Antarctic and Arctic sea ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15734-15739.	7.1	52
18	Role of free-living and particle-attached bacteria in the recycling and export of organic material in the Hudson Bay system. <i>Journal of Marine Systems</i> , 2011, 88, 434-445.	2.1	49

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19	Summertime primary production and carbon export in the southeastern Beaufort Sea during the low ice year of 2008. <i>Polar Biology</i> , 2011, 34, 1989-2005.	1.2	48
20	Organic matter from Arctic sea-ice loss alters bacterial community structure and function. <i>Nature Climate Change</i> , 2019, 9, 170-176.	18.8	48
21	Mesoscale distribution and functional diversity of picoeukaryotes in the first-year sea ice of the Canadian Arctic. <i>ISME Journal</i> , 2013, 7, 1461-1471.	9.8	46
22	Sub-ice colonial <i>Melosira arctica</i> in Arctic first-year ice. <i>Diatom Research</i> , 2014, 29, 213-221.	1.2	44
23	Evidence for microbial attenuation of particle flux in the Amundsen Gulf and Beaufort Sea: elevated hydrolytic enzyme activity on sinking aggregates. <i>Polar Biology</i> , 2011, 34, 2007-2023.	1.2	42
24	Comparing Springtime Ice-Algal Chlorophyll a and Physical Properties of Multi-Year and First-Year Sea Ice from the Lincoln Sea. <i>PLoS ONE</i> , 2015, 10, e0122418.	2.5	32
25	Pan-Arctic sea ice algal chl <i>a</i> biomass and suitable habitat are largely underestimated for multiyear ice. <i>Global Change Biology</i> , 2017, 23, 4581-4597.	9.5	29
26	Contrasting Ice Algae and Snow-Dependent Irradiance Relationships Between First-Year and Multiyear Sea Ice. <i>Geophysical Research Letters</i> , 2019, 46, 10834-10843.	4.0	29
27	Essential gaps and uncertainties in the understanding of the roles and functions of Arctic sea ice. <i>Environmental Research Letters</i> , 2019, 14, 043002.	5.2	24
28	Spatial variability in organic material sinking export in the Hudson Bay system, Canada, during fall. <i>Continental Shelf Research</i> , 2009, 29, 1276-1288.	1.8	23
29	Primary production and sinking export during fall in the Hudson Bay system, Canada. <i>Continental Shelf Research</i> , 2013, 52, 62-72.	1.8	23
30	Large, Omega-3 Rich, Pelagic Diatoms under Arctic Sea Ice: Sources and Implications for Food Webs. <i>PLoS ONE</i> , 2014, 9, e114070.	2.5	23
31	Influence of the Mackenzie River plume on the sinking export of particulate material on the shelf. <i>Journal of Marine Systems</i> , 2008, 74, 810-824.	2.1	17
32	Patterns and drivers of carbohydrate budgets in ice algal assemblages from first year Arctic sea ice. <i>Limnology and Oceanography</i> , 2016, 61, 919-937.	3.1	17
33	Size-fractionated phytoplankton production and biomass during the decline of the northwest Atlantic spring bloom. <i>Journal of Plankton Research</i> , 2009, 31, 429-446.	1.8	16
34	Temporal and spatial variability in sea-ice carbon:nitrogen ratios on Canadian Arctic shelves. <i>Elementa</i> , 2015, 3, .	3.2	16
35	Seasonal variability of light absorption properties and water optical constituents in Hudson Bay, Canada. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3087-3102.	2.6	15
36	Effects of subgrid-scale snow thickness variability on radiative transfer in sea ice. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5597-5614.	2.6	15

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37	Biological Impact of Ocean Acidification in the Canadian Arctic: Widespread Severe Pteropod Shell Dissolution in Amundsen Gulf. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	14
38	Marine mammal biodiversity and rare narwhal (<i>Monodon monoceros</i>) observations near northern Ellesmere Island, Canada. <i>Ecosphere</i> , 2021, 12, e03534.	2.2	4
39	Contribution of Snow to Arctic First-Year and Multi-Year Sea Ice Mass Balance Within the Last Ice Area. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016971.	2.6	3
40	Novel observations of Atlantic walruses (<i>Odobenus rosmarus rosmarus</i>) in Archer Fjord, northern Ellesmere Island, Nunavut, Canada. <i>Polar Biology</i> , 2019, 42, 1193-1198.	1.2	2
41	Narwhal (<i>Monodon monoceros</i>) detection by infrared flukeprints from aerial survey imagery. <i>Ecosphere</i> , 2021, 12, e03698.	2.2	2
42	Fatty acids and stable isotope signatures of first-year and multiyear sea ice in the Canadian High Arctic. <i>Elementa</i> , 2020, 8, .	3.2	1