Patricia A Matrai

List of Publications by Year
in descending order

25 papers	1,772 citations	361413 20 h-index	580821 25 g-index
32 all docs	32 docs citations	32 times ranked	2849 citing authors

#	Article	IF	Citations
1	Marine microgels as a source of cloud condensation nuclei in the high Arctic. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13612-13617.	7.1	229
2	Global and regional drivers of nutrient supply, primary production and CO2 drawdown in the changing Arctic Ocean. Progress in Oceanography, 2015, 139, 171-196.	3.2	226
3	Microplastic fiber uptake, ingestion, and egestion rates in the blue mussel (Mytilus edulis). Marine Pollution Bulletin, 2018, 137, 638-645.	5.0	211
4	The Arctic Summer Cloud Ocean Study (ASCOS): overview and experimental design. Atmospheric Chemistry and Physics, 2014, 14, 2823-2869.	4.9	140
5	Synthesis of integrated primary production in the Arctic Ocean: II. In situ and remotely sensed estimates. Progress in Oceanography, 2013, 110, 107-125.	3.2	131
6	Modeling the impact of declining sea ice on the Arctic marine planktonic ecosystem. Journal of Geophysical Research, 2010, 115, .	3.3	111
7	An assessment of phytoplankton primary productivity in the Arctic Ocean from satellite ocean color/in situ chlorophyllâ€<i>a</i> based models. Journal of Geophysical Research: Oceans, 2015, 120, 6508-6541.	2.6	90
8	Light-dependence of carbon and sulfur production by polar clones of the genus Phaeocystis. Marine Biology, 1995, 124, 157-167.	1.5	66
9	Synthesis of particulate and extracellular carbon by phytoplankton at the marginal ice zone in the Barents Sea. Journal of Geophysical Research, 1998, 103, 1023-1037.	3.3	62
10	On the chemical dynamics of extracellular polysaccharides in the high Arctic surface microlayer. Ocean Science, 2012, 8, 401-418.	3.4	61
11	A compilation of global bio-optical in situ data for ocean-colour satellite applications â€“ version two. Earth System Science Data, 2019, 11, 1037-1068.	9.9	43
12	Development of an autonomous sea ice tethered buoy for the study of ocean-atmosphere-sea ice-snow pack interactions: the O-buoy. Atmospheric Measurement Techniques, 2010, 3, 249-261.	3.1	42
13	Relating temporal and spatial patterns of DMSP in the Barents Sea to phytoplankton biomass and productivity. Journal of Marine Systems, 2007, 67, 83-101.	2.1	40
14	Temporal and spatial characteristics of ozone depletion events from measurements in the Arctic. Atmospheric Chemistry and Physics, 2014, 14, 4875-4894.	4.9	40
15	Influence of Phytoplankton Advection on the Productivity Along the Atlantic Water Inflow to the Arctic Ocean. Frontiers in Marine Science, 2019, 6, .	2.5	39
16	Accumulation and effects of microplastic fibers in American lobster larvae (Homarus americanus). Marine Pollution Bulletin, 2020, 157, 111280.	5.0	36
17	Net primary productivity estimates and environmental variables in the Arctic Ocean: An assessment of coupled physical-biogeochemical models. Journal of Geophysical Research: Oceans, 2016, 121, 8635-8669.	2.6	34
18	The Nexus between Sea Ice and Polar Emissions of Marine Biogenic Aerosols. Bulletin of the American Meteorological Society, 2018, 99, 61-81.	3.3	34

#	Article	IF	Citations
19	Diel patterns of oceanic dimethylsulfide (DMS) cycling: Microbial and physical drivers. Global Biogeochemical Cycles, 2013, 27, 620-636.	4.9	32
20	Springtime Export of Arctic Sea Ice Influences Phytoplankton Production in the Greenland Sea. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015799.	2.6	24
21	DIMETHYLSULFONIOPROPIONATE STORAGE IN <i>PHAEOCYSTIS</i> (PRYMNESIOPHYCEAE) SECRETORY VESICLES¹. Journal of Phycology, 2011, 47, 112-117.	2.3	19
22	Effects of Model Resolution and Ocean Mixing on Forced Iceâ€Ocean Physical and Biogeochemical Simulations Using Global and Regional System Models. Journal of Geophysical Research: Oceans, 2018, 123, 358-377.	2.6	16
23	Processes That Contribute to Decreased Dimethyl Sulfide Production in Response to Ocean Acidification in Subtropical Waters. Frontiers in Marine Science, 2018, 5, .	2.5	13
24	Marine Polymer-Gelsâ€™ Relevance in the Atmosphere as Aerosols and CCN. Gels, 2021, 7, 185.	4.5	9
25	Parameterizing the Impact of Seawater Temperature and Irradiance on Dimethylsulfide (DMS) in the Great Barrier Reef and the Contribution of Coral Reefs to the Global Sulfur Cycle. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016783.	2.6	6