Maria Vernet

List of Publications by Year
in descending order

95 papers	5,885 citations	76326 40 h-index	82547 72 g-index
99 all docs	99 docs citations	99 times ranked	4810 citing authors

#	Article	IF	Citations
1	Modelling the production and cycling of dimethylsulphide during the vernal bloom in the Barents Sea. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 919.	1.6	33
2	Biogeography of Southern Ocean Active Prokaryotic Communities Over a Large Spatial Scale. Frontiers in Microbiology, 2022, 13, 862812.	3.5	2
3	Transfer of the Antarctic diatom Nitzschia barbieri (Bacillariophyta) to the genus Fragilariopsis and emended descriptions of F. barbieri comb. nov. and F. peragallii. Polar Biology, 2021, 44, 421-431.	1.2	1
4	Microplanktonic diatom assemblages dominated the primary production but not the biomass in an Antarctic fjord. Journal of Marine Systems, 2021, 224, 103624.	2.1	6
5	Spatiotemporal Variations in Antarctic Protistan Communities Highlight Phytoplankton Diversity and Seasonal Dominance by a Novel Cryptophyte Lineage. MBio, 2021, 12, e0297321.	4.1	9
6	Seasonal dispersal of fjord meltwaters as an important source of iron and manganese to coastal Antarctic phytoplankton. Biogeosciences, 2021, 18, 6349-6375.	3.3	14
7	Environmental drivers of phytoplankton taxonomic composition in an Antarctic fjord. Progress in Oceanography, 2020, 183, 102295.	3.2	19
8	Polar Tourism as an Effective Research Tool: Citizen Science in the Western Antarctic Peninsula. Oceanography, 2020, 33, .	1.0	14
9	Timing is everything: Diel metabolic and physiological changes in the diatom Cyclotella cryptica grown in simulated outdoor conditions. Algal Research, 2019, 42, 101598.	4.6	10
10	Phytoplankton composition and bloom formation in unexplored nearshore waters of the western Antarctic Peninsula. Polar Biology, 2019, 42, 1859-1872.	1.2	18
11	The Weddell Gyre, Southern Ocean: Present Knowledge and Future Challenges. Reviews of Geophysics, 2019, 57, 623-708.	23.0	105
12	Circumpolar Deep Water Impacts Glacial Meltwater Export and Coastal Biogeochemical Cycling Along the West Antarctic Peninsula. Frontiers in Marine Science, 2019, 6, .	2.5	23
13	The optical and biological properties of glacial meltwater in an Antarctic fjord. PLoS ONE, 2019, 14, e0211107.	2.5	19
14	Biogeochemical proxies and diatoms in surface sediments across the Drake Passage reflect oceanic domains and frontal systems in the region. Progress in Oceanography, 2019, 174, 72-88.	3.2	16
15	Models of Plankton Community Changes during a Warm Water Anomaly in Arctic Waters Show Altered Trophic Pathways with Minimal Changes in Carbon Export. Frontiers in Marine Science, 2017, 4, .	2.5	40
16	Glacial dropstones: islands enhancing seafloor species richness of benthic megafauna in West Antarctic Peninsula fjords. Marine Ecology - Progress Series, 2017, 583, 1-14.	1.9	42
17	Transcript level coordination of carbon pathways during silicon starvationâ€induced lipid accumulation in the diatom <scp>T</scp>halassiosira pseudonana. New Phytologist, 2016, 210, 890-904.	7.3	82
18	Production of dissolved organic carbon by Oithona nana (Copepoda: Cyclopoida) grazing on two species of dinoflagellates. Marine Biology, 2016, 163, 1.	1.5	8

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19	Diatoms (Bacillariophyceae) associated with free-drifting Antarctic icebergs: taxonomy and distribution. Polar Biology, 2016, 39, 443-459.	1.2	6
20	Characteristics of the meltwater field from a large <scp>A</scp>ntarctic iceberg using. Journal of Geophysical Research: Oceans, 2015, 120, 2259-2269.	2.6	1
21	Foehn winds link climateâ€driven warming to ice shelf evolution in Antarctica. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,037.	3.3	98
22	Polynya dynamics drive primary production in the Larsen A and B embayments following ice shelf collapse. Journal of Geophysical Research: Oceans, 2014, 119, 572-594.	2.6	69
23	A mesoscale study of phytoplankton assemblages around the South Shetland Islands (Antarctica). Polar Biology, 2013, 36, 1107-1123.	1.2	31
24	Palmer Long-Term Ecological Research on the Antarctic Marine Ecosystem. Antarctic Research Series, 2013, , 131-144.	0.2	10
25	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. Earth System Science Data, 2013, 5, 109-123.	9.9	44
26	Export production and its regulating factors in the West Antarctica Peninsula region of the Southern Ocean. Global Biogeochemical Cycles, 2012, 26, .	4.9	53
27	Diagnostic modeling of dimethylsulfide production in coastal water west of the Antarctic Peninsula. Continental Shelf Research, 2012, 32, 96-109.	1.8	17
28	Multiscale control of bacterial production by phytoplankton dynamics and sea ice along the western Antarctic Peninsula: A regional and decadal investigation. Journal of Marine Systems, 2012, 98-99, 26-39.	2.1	82
29	Simulating larval Antarctic krill growth and condition factor during fall and winter in response to environmental variability. Marine Ecology - Progress Series, 2012, 452, 27-43.	1.9	20
30	Primary production throughout austral fall, during a time of decreasing daylength in the western Antarctic Peninsula. Marine Ecology - Progress Series, 2012, 452, 45-61.	1.9	32
31	Availability of vitamin D photoconversion weighted UV radiation in southern South America. Photochemical and Photobiological Sciences, 2011, 10, 1854-1867.	2.9	7
32	An evaluation of the application of CHEMTAX to Antarctic coastal pigment data. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 350-364.	1.4	77
33	Subsurface melting of a free-floating Antarctic iceberg. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1336-1345.	1.4	44
34	Cooling, dilution and mixing of ocean water by free-drifting icebergs in the Weddell Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1346-1363.	1.4	45
35	234Th-Based Carbon Export around Free-Drifting Icebergs in the Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1384-1391.	1.4	15
36	Impacts on phytoplankton dynamics by free-drifting icebergs in the NW Weddell Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1422-1435.	1.4	41

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37	Phytoplankton composition and abundance in relation to free-floating Antarctic icebergs. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1436-1450.	1.4	32
38	Algal communities attached to free-drifting, Antarctic icebergs. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1451-1456.	1.4	11
39	Carbon export associated with free-drifting icebergs in the Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1485-1496.	1.4	33
40	The timing of sea ice formation and exposure to photosynthetically active radiation along the Western Antarctic Peninsula. Polar Biology, 2011, 34, 683-692.	1.2	18
41	Diversity of the diatom genus Fragilariopsis in the Argentine Sea and Antarctic waters: morphology, distribution and abundance. Polar Biology, 2010, 33, 1463-1484.	1.2	62
42	Quality of UVR exposure for different biological systems along a latitudinal gradient. Photochemical and Photobiological Sciences, 2009, 8, 1329-1345.	2.9	19
43	Variability on phytoplankton size structure in the western Antarctic Peninsula (1997â€“2006). Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2106-2117.	1.4	50
44	Western Antarctic Peninsula physical oceanography and spatioâ€“temporal variability. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1964-1987.	1.4	256
45	Primary production within the sea-ice zone west of the Antarctic Peninsula: Iâ€”Sea ice, summer mixed layer, and irradiance. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2068-2085.	1.4	212
46	Phytoplankton sizeâ€structure on the western shelf of the Antarctic Peninsula: a remoteâ€sensing approach. International Journal of Remote Sensing, 2008, 29, 801-829.	2.9	20
47	Free-Drifting Icebergs: Hot Spots of Chemical and Biological Enrichment in the Weddell Sea. Science, 2007, 317, 478-482.	12.6	210
48	Ecological responses of Antarctic krill to environmental variability: can we predict the future?. Antarctic Science, 2007, 19, 253-266.	0.9	70
49	Marine pelagic ecosystems: the West Antarctic Peninsula. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 67-94.	4.0	529
50	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
51	Single-cell Gel/Comet Assay Applied to the Analysis of UV Radiation-induced DNA Damage in Rhodomonas sp. (Cryptophyta)Â¶. Photochemistry and Photobiology, 2007, 74, 55-60.	2.5	1
52	Measuring and Modeling Primary Production in Marine Pelagic Ecosystems. , 2007, , 142-174.		14
53	Extreme Anomalous Atmospheric Circulation in the West Antarctic Peninsula Region in Austral Spring and Summer 2001/02, and Its Profound Impact on Sea Ice and Biota*. Journal of Climate, 2006, 19, 3544-3571.	3.2	114
54	Water-column processes in the West Antarctic Peninsula and the Ross Sea: Interannual variations and foodweb structure. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 834-852.	1.4	78

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55	Ozone and UV Radiation over Southern South America: Climatology and Anomalies. Photochemistry and Photobiology, 2006, 82, 834.	2.5	42
56	UV Effects on Marine Planktonic Food Webs: A Synthesis of Results from Mesocosm Studies. Photochemistry and Photobiology, 2006, 82, 850.	2.5	24
57	Simulation of Ozone Depletion Using Ambient Irradiance Supplemented with UV Lamps. Photochemistry and Photobiology, 2006, 82, 857.	2.5	12
58	Vertical Mixing and Ecological Effects of Ultraviolet Radiation in Planktonic Communities. Photochemistry and Photobiology, 2006, 82, 898.	2.5	24
59	Introduction: Enhanced UV-B Radiation in Natural Ecosystems as an Added Perturbation Due to Ozone Depletion. Photochemistry and Photobiology, 2006, 82, 831.	2.5	6
60	Interannual variability in the distribution of the phytoplankton standing stock across the seasonal sea-ice zone west of the Antarctic Peninsula. Journal of Plankton Research, 2005, 27, 825-843.	1.8	63
61	Multichannel radiometer calibration: a new approach. Applied Optics, 2005, 44, 5374.	2.1	9
62	Annually recurrent phytoplanktonic assemblages during summer in the seasonal ice zone west of the Antarctic Peninsula (Southern Ocean). Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 1823-1841.	1.4	88
63	Alteration of the food web along the Antarctic Peninsula in response to a regional warming trend. Global Change Biology, 2004, 10, 1973-1980.	9.5	332
64	Composition and biomass of phytoplankton assemblages in coastal Antarctic waters: a comparison of chemotaxonomic and microscopic analyses. Marine Ecology - Progress Series, 2003, 247, 27-42.	1.9	101
65	Phytoplankton spatial distribution patterns along the western Antarctic Peninsula (Southern Ocean). Marine Ecology - Progress Series, 2003, 261, 21-39.	1.9	150
66	Glacial meltwater dynamics in coastal waters west of the Antarctic peninsula. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1790-1795.	7.1	241
67	Grazing by Antarctic krill Euphausia superba on Phaeocystis antarctica: an immunochemical approach. Marine Ecology - Progress Series, 2002, 241, 139-149.	1.9	14
68	Single-cell Gel/Comet Assay Applied to the Analysis of UV Radiationâ€“induced DNA Damage in Rhodomonas sp. (Cryptophyta)Â¶. Photochemistry and Photobiology, 2001, 74, 55.	2.5	23
69	Variability of Primary Production in an Antarctic Marine Ecosystem as Estimated Using a Multi-scale Sampling Strategy1. American Zoologist, 2001, 41, 40-56.	0.7	28
70	Variability of Primary Production in an Antarctic Marine Ecosystem as Estimated Using a Multi-scale Sampling Strategy. American Zoologist, 2001, 41, 40-56.	0.7	33
71	Mechanisms of UV damage to aquatic organisms. , 2000, , 149-176.		152
72	Strategies for the minimisation of UV-induced damage. , 2000, , 177-205.		92

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73	UV radiation effects on heterotrophic bacterioplankton and viruses in marine ecosystems. , 2000, , 206-236.		45
74	Implications of UV radiation for the food web structure and consequences on the carbon flow. , 2000, , 310-320.		11
75	Influence of mycosporineâ€like amino acids (MAAs) on UV absorption by particulate and dissolved organic matter in La Jolla Bay. Limnology and Oceanography, 2000, 45, 1788-1796.	3.1	63
76	Optimizing models for remotely estimating primary production in Antarctic coastal waters. Antarctic Science, 2000, 12, 20-32.	0.9	54
77	Growth limitation in young Euphausia superba under field conditions. Limnology and Oceanography, 2000, 45, 31-43.	3.1	122
78	Spring Bloom Development in the Marginal Ice Zone and the Central Barents Sea. Marine Ecology, 1999, 20, 321-346.	1.1	124
79	Marine Ecosystem Sensitivity to Climate Change. BioScience, 1999, 49, 393-404.	4.9	250
80	Seasonal and interannual variability of phytoplankton biomass west of the Antarctic Peninsula. Journal of Marine Systems, 1998, 17, 229-243.	2.1	54
81	Chaetoceros resting spores in the Gerlache Strait, Antarctic Peninsula. Polar Biology, 1998, 19, 286-288.	1.2	10
82	THE PHYCOBILIN SIGNATURES OF CHLOROPLASTS FROM THREE DINOFLAGELLATE SPECIES: A MICROANALYTICAL STUDY OF DINOPHYSIS CAUDATA, D. FORTII, AND D. ACUMINATA (DINOPHYSIALES,) Tj ETQq0 0 0 rgBT /Overlock 1	2.3	89
83	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
84	Release of ultraviolet-absorbing compounds by the red-tide dinoflagellateLingulodinium polyedra. Marine Biology, 1996, 127, 35-44.	1.5	110
85	EFFECTS OF SMALL-SCALE TURBULENCE ON PHOTOSYNTHESIS, PIGMENTATION, CELL DIVISION, AND CELL SIZE IN THE MARINE DINOFLAGELLATE GONYAULAX POLYEDRA (DINOPHYCEAE)1. Journal of Phycology, 1995, 31, 50-59.	2.3	64
86	Light-dependence of carbon and sulfur production by polar clones of the genus Phaeocystis. Marine Biology, 1995, 124, 157-167.	1.5	66
87	The Palmer LTER: A Long-Term Ecological Research Program at Palmer Station, Antarctica. Oceanography, 1995, 8, 77-86.	1.0	109
88	Respiration and biochemical composition of sedimenting organic matter during summer in the Barents Sea. Continental Shelf Research, 1994, 14, 79-90.	1.8	14
89	Microzooplankton grazing, pigments, and composition of plankton communities during late spring in two Norwegian fjords. Sarsia, 1992, 77, 263-274.	0.5	37
90	Modeling of light-dependent algal photosynthesis and growth: experiments with the Barents sea diatoms Thalassiosira nordenskioldii and Chaetoceros furcellatus. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, 415-430.	1.5	81

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91	Phytoplankton dynamics in the Barents Sea estimated from chlorophyll budget models. Polar Research, 1991, 10, 129-146.	1.6	18
92	The relative abundance of pheophorbide a and pheophytin a in temperate marine waters1. Limnology and Oceanography, 1987, 32, 352-358.	3.1	53
93	The presence of chlorophyll b and the estimation of phaeopigments in marine phytoplankton. Journal of Plankton Research, 1987, 9, 255-265.	1.8	41
94	Relationship between action spectra for chlorophyll a fluorescence and photosynthetic O2 evolution in algae. Journal of Plankton Research, 1986, 8, 537-548.	1.8	32
95	Sinking rates of organic particles1. Limnology and Oceanography, 1983, 28, 766-769.	3.1	52