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	Marine pelagic ecosystems: the West Antarctic Peninsula. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 67-94.	4.0	529
2	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
3	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
4	Marine Ecosystem Sensitivity to Climate Change. BioScience, 1999, 49, 393-404.	4.9	250
5	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
6	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
7	Free-Drifting Icebergs: Hot Spots of Chemical and Biological Enrichment in the Weddell Sea. Science, 2007, 317, 478-482.	12.6	210
8	Mechanisms of UV damage to aquatic organisms. , 2000, , 149-176.		152
9	Phytoplankton spatial distribution patterns along the western Antarctic Peninsula (Southern Ocean). Marine Ecology - Progress Series, 2003, 261, 21-39.	1.9	150
10	Spring Bloom Development in the Marginal Ice Zone and the Central Barents Sea. Marine Ecology, 1999, 20, 321-346.	1.1	124
11	Growth limitation in young Euphausia superba under field conditions. Limnology and Oceanography, 2000, 45, 31-43.	3.1	122
12	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
13	Release of ultraviolet-absorbing compounds by the red-tide dinoflagellateLingulodinium polyedra. Marine Biology, 1996, 127, 35-44.	1.5	110
14	The Palmer LTER: A Long-Term Ecological Research Program at Palmer Station, Antarctica. Oceanography, 1995, 8, 77-86.	1.0	109
15	The Weddell Gyre, Southern Ocean: Present Knowledge and Future Challenges. Reviews of Geophysics, 2019, 57, 623-708.	23.0	105
16	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
17	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
18	Strategies for the minimisation of UV-induced damage. , 2000, , 177-205.		92

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19	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
20	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
21	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
22	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
23	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
24	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
25	Ecological responses of Antarctic krill to environmental variability: can we predict the future?. Antarctic Science, 2007, 19, 253-266.	0.9	70
26	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
27	Light-dependence of carbon and sulfur production by polar clones of the genus Phaeocystis. Marine Biology, 1995, 124, 157-167.	1.5	66
28	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
29	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
30	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
31	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
32	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
33	Seasonal and interannual variability of phytoplankton biomass west of the Antarctic Peninsula. Journal of Marine Systems, 1998, 17, 229-243.	2.1	54
34	Optimizing models for remotely estimating primary production in Antarctic coastal waters. Antarctic Science, 2000, 12, 20-32.	0.9	54
35	The relative abundance of pheophorbide a and pheophytin a in temperate marine waters1. Limnology and Oceanography, 1987, 32, 352-358.	3.1	53
36	Export production and its regulating factors in the West Antarctica Peninsula region of the Southern Ocean. Global Biogeochemical Cycles, 2012, 26, .	4.9	53

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37	Sinking rates of organic particles1. Limnology and Oceanography, 1983, 28, 766-769.	3.1	52
38	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
39	UV radiation effects on heterotrophic bacterioplankton and viruses in marine ecosystems. , 2000, , 206-236.		45
40	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
41	Subsurface melting of a free-floating Antarctic iceberg. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1336-1345.	1.4	44
42	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. Earth System Science Data, 2013, 5, 109-123.	9.9	44
43	Ozone and UV Radiation over Southern South America: Climatology and Anomalies. Photochemistry and Photobiology, 2006, 82, 834.	2.5	42
44	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
45	The presence of chlorophyll b and the estimation of phaeopigments in marine phytoplankton. Journal of Plankton Research, 1987, 9, 255-265.	1.8	41
46	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
47	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
48	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
49	THE PHYCOBILIN SIGNATURES OF CHLOROPLASTS FROM THREE DINOFLAGELLATE SPECIES: A MICROANALYTICAL STUDY OF DINOPHYSIS CAUDATA, D. FORTII, AND D. ACUMINATA (DINOPHYSIALES,) Tj ETQq1 1 0.784314 rgBT /O		39
50	Microzooplankton grazing, pigments, and composition of plankton communities during late spring in two Norwegian fjords. Sarsia, 1992, 77, 263-274.	0.5	37
51	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
52	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
53	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
54	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

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55	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
56	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
57	A mesoscale study of phytoplankton assemblages around the South Shetland Islands (Antarctica). Polar Biology, 2013, 36, 1107-1123.	1.2	31
58	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
59	UV Effects on Marine Planktonic Food Webs: A Synthesis of Results from Mesocosm Studies. Photochemistry and Photobiology, 2006, 82, 850.	2.5	24
60	Vertical Mixing and Ecological Effects of Ultraviolet Radiation in Planktonic Communities. Photochemistry and Photobiology, 2006, 82, 898.	2.5	24
61	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
62	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
63	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
64	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
65	Quality of UVR exposure for different biological systems along a latitudinal gradient. Photochemical and Photobiological Sciences, 2009, 8, 1329-1345.	2.9	19
66	The optical and biological properties of glacial meltwater in an Antarctic fjord. PLoS ONE, 2019, 14, e0211107.	2.5	19
67	Environmental drivers of phytoplankton taxonomic composition in an Antarctic fjord. Progress in Oceanography, 2020, 183, 102295.	3.2	19
68	Phytoplankton dynamics in the Barents Sea estimated from chlorophyll budget models. Polar Research, 1991, 10, 129-146.	1.6	18
69	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
70	Phytoplankton composition and bloom formation in unexplored nearshore waters of the western Antarctic Peninsula. Polar Biology, 2019, 42, 1859-1872.	1.2	18
71	Diagnostic modeling of dimethylsulfide production in coastal water west of the Antarctic Peninsula. Continental Shelf Research, 2012, 32, 96-109.	1.8	17
72	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

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73	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
74	Respiration and biochemical composition of sedimenting organic matter during summer in the Barents Sea. Continental Shelf Research, 1994, 14, 79-90.	1.8	14
75	Measuring and Modeling Primary Production in Marine Pelagic Ecosystems. , 2007, , 142-174.		14
76	Grazing by Antarctic krill Euphausia superba on Phaeocystis antarctica: an immunochemical approach. Marine Ecology - Progress Series, 2002, 241, 139-149.	1.9	14
77	Polar Tourism as an Effective Research Tool: Citizen Science in the Western Antarctic Peninsula. Oceanography, 2020, 33, .	1.0	14
78	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
79	Simulation of Ozone Depletion Using Ambient Irradiance Supplemented with UV Lamps. Photochemistry and Photobiology, 2006, 82, 857.	2.5	12
80	Implications of UV radiation for the food web structure and consequences on the carbon flow. , 2000, , 310-320.		11
81	Algal communities attached to free-drifting, Antarctic icebergs. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1451-1456.	1.4	11
82	Chaetoceros resting spores in the Gerlache Strait, Antarctic Peninsula. Polar Biology, 1998, 19, 286-288.	1.2	10
83	Palmer Long-Term Ecological Research on the Antarctic Marine Ecosystem. Antarctic Research Series, 2013, , 131-144.	0.2	10
84	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
85	Multichannel radiometer calibration: a new approach. Applied Optics, 2005, 44, 5374.	2.1	9
86	Spatiotemporal Variations in Antarctic Protistan Communities Highlight Phytoplankton Diversity and Seasonal Dominance by a Novel Cryptophyte Lineage. MBio, 2021, 12, e0297321.	4.1	9
87	Production of dissolved organic carbon by Oithona nana (Copepoda: Cyclopoida) grazing on two species of dinoflagellates. Marine Biology, 2016, 163, 1.	1.5	8
88	Availability of vitamin D photoconversion weighted UV radiation in southern South America. Photochemical and Photobiological Sciences, 2011, 10, 1854-1867.	2.9	7
89	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
90	Diatoms (Bacillariophyceae) associated with free-drifting Antarctic icebergs: taxonomy and distribution. Polar Biology, 2016, 39, 443-459.	1.2	6

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91	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
92	Biogeography of Southern Ocean Active Prokaryotic Communities Over a Large Spatial Scale. Frontiers in Microbiology, 2022, 13, 862812.	3.5	2
93	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
94	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
95	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