

Maria Vernet

List of Publications by Year in descending order

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95
papers

5,885
citations

87401

40
h-index

93651

72
g-index

99
all docs

99
docs citations

99
times ranked

5336
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling the production and cycling of dimethylsulphide during the vernal bloom in the Barents Sea. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 51, 919.	0.8	33
2	Biogeography of Southern Ocean Active Prokaryotic Communities Over a Large Spatial Scale. <i>Frontiers in Microbiology</i> , 2022, 13, 862812.	1.5	2
3	Transfer of the Antarctic diatom <i>Nitzschia barbieri</i> (Bacillariophyta) to the genus <i>Fragilariopsis</i> and emended descriptions of <i>F. barbieri</i> comb. nov. and <i>F. peragallii</i> . <i>Polar Biology</i> , 2021, 44, 421-431.	0.5	1
4	Microplanktonic diatom assemblages dominated the primary production but not the biomass in an Antarctic fjord. <i>Journal of Marine Systems</i> , 2021, 224, 103624.	0.9	6
5	Spatiotemporal Variations in Antarctic Protistan Communities Highlight Phytoplankton Diversity and Seasonal Dominance by a Novel Cryptophyte Lineage. <i>MBio</i> , 2021, 12, e0297321.	1.8	9
6	Seasonal dispersal of fjord meltwaters as an important source of iron and manganese to coastal Antarctic phytoplankton. <i>Biogeosciences</i> , 2021, 18, 6349-6375.	1.3	14
7	Environmental drivers of phytoplankton taxonomic composition in an Antarctic fjord. <i>Progress in Oceanography</i> , 2020, 183, 102295.	1.5	19
8	Polar Tourism as an Effective Research Tool: Citizen Science in the Western Antarctic Peninsula. <i>Oceanography</i> , 2020, 33, .	0.5	14
9	Timing is everything: Diel metabolic and physiological changes in the diatom <i>Cyclotella cryptica</i> grown in simulated outdoor conditions. <i>Algal Research</i> , 2019, 42, 101598.	2.4	10
10	Phytoplankton composition and bloom formation in unexplored nearshore waters of the western Antarctic Peninsula. <i>Polar Biology</i> , 2019, 42, 1859-1872.	0.5	18
11	The Weddell Gyre, Southern Ocean: Present Knowledge and Future Challenges. <i>Reviews of Geophysics</i> , 2019, 57, 623-708.	9.0	105
12	Circumpolar Deep Water Impacts Glacial Meltwater Export and Coastal Biogeochemical Cycling Along the West Antarctic Peninsula. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	23
13	The optical and biological properties of glacial meltwater in an Antarctic fjord. <i>PLoS ONE</i> , 2019, 14, e0211107.	1.1	19
14	Biogeochemical proxies and diatoms in surface sediments across the Drake Passage reflect oceanic domains and frontal systems in the region. <i>Progress in Oceanography</i> , 2019, 174, 72-88.	1.5	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. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	40
16	Glacial dropstones: islands enhancing seafloor species richness of benthic megafauna in West Antarctic Peninsula fjords. <i>Marine Ecology - Progress Series</i> , 2017, 583, 1-14.	0.9	42
17	Transcript level coordination of carbon pathways during silicon starvation-induced lipid accumulation in the diatom <i>Thalassiosira pseudonana</i> . <i>New Phytologist</i> , 2016, 210, 890-904.	3.5	82
18	Production of dissolved organic carbon by <i>Oithona nana</i> (Copepoda: Cyclopoida) grazing on two species of dinoflagellates. <i>Marine Biology</i> , 2016, 163, 1.	0.7	8

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19	Diatoms (Bacillariophyceae) associated with free-drifting Antarctic icebergs: taxonomy and distribution. <i>Polar Biology</i> , 2016, 39, 443-459.	0.5	6
20	Characteristics of the meltwater field from a large Antarctic iceberg using. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 2259-2269.	1.0	1
21	Foehn winds link climate-driven warming to ice shelf evolution in Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,037.	1.2	98
22	Polynya dynamics drive primary production in the Larsen A and B embayments following ice shelf collapse. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 572-594.	1.0	69
23	A mesoscale study of phytoplankton assemblages around the South Shetland Islands (Antarctica). <i>Polar Biology</i> , 2013, 36, 1107-1123.	0.5	31
24	Palmer Long-Term Ecological Research on the Antarctic Marine Ecosystem. <i>Antarctic Research Series</i> , 2013, , 131-144.	0.2	10
25	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. <i>Earth System Science Data</i> , 2013, 5, 109-123.	3.7	44
26	Export production and its regulating factors in the West Antarctica Peninsula region of the Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	53
27	Diagnostic modeling of dimethylsulfide production in coastal water west of the Antarctic Peninsula. <i>Continental Shelf Research</i> , 2012, 32, 96-109.	0.9	17
28	Multiscale control of bacterial production by phytoplankton dynamics and sea ice along the western Antarctic Peninsula: A regional and decadal investigation. <i>Journal of Marine Systems</i> , 2012, 98-99, 26-39.	0.9	82
29	Simulating larval Antarctic krill growth and condition factor during fall and winter in response to environmental variability. <i>Marine Ecology - Progress Series</i> , 2012, 452, 27-43.	0.9	20
30	Primary production throughout austral fall, during a time of decreasing daylength in the western Antarctic Peninsula. <i>Marine Ecology - Progress Series</i> , 2012, 452, 45-61.	0.9	32
31	Availability of vitamin D photoconversion weighted UV radiation in southern South America. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1854-1867.	1.6	7
32	An evaluation of the application of CHEMTAX to Antarctic coastal pigment data. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2011, 58, 350-364.	0.6	77
33	Subsurface melting of a free-floating Antarctic iceberg. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1336-1345.	0.6	44
34	Cooling, dilution and mixing of ocean water by free-drifting icebergs in the Weddell Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1346-1363.	0.6	45
35	²³⁴ Th-Based Carbon Export around Free-Drifting Icebergs in the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1384-1391.	0.6	15
36	Impacts on phytoplankton dynamics by free-drifting icebergs in the NW Weddell Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1422-1435.	0.6	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.	0.6	32
38	Algal communities attached to free-drifting, Antarctic icebergs. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1451-1456.	0.6	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.	0.6	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.	0.5	18
41	Diversity of the diatom genus <i>Fragilariopsis</i> in the Argentine Sea and Antarctic waters: morphology, distribution and abundance. Polar Biology, 2010, 33, 1463-1484.	0.5	62
42	Quality of UVR exposure for different biological systems along a latitudinal gradient. Photochemical and Photobiological Sciences, 2009, 8, 1329-1345.	1.6	19
43	Variability on phytoplankton size structure in the western Antarctic Peninsula (1997-2006). Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2106-2117.	0.6	50
44	Western Antarctic Peninsula physical oceanography and spatio-temporal variability. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1964-1987.	0.6	256
45	Primary production within the sea-ice zone west of the Antarctic Peninsula: Sea ice, summer mixed layer, and irradiance. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2068-2085.	0.6	212
46	Phytoplankton size structure on the western shelf of the Antarctic Peninsula: a remote sensing approach. International Journal of Remote Sensing, 2008, 29, 801-829.	1.3	20
47	Free-Drifting Icebergs: Hot Spots of Chemical and Biological Enrichment in the Weddell Sea. Science, 2007, 317, 478-482.	6.0	210
48	Ecological responses of Antarctic krill to environmental variability: can we predict the future?. Antarctic Science, 2007, 19, 253-266.	0.5	70
49	Marine pelagic ecosystems: the West Antarctic Peninsula. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 67-94.	1.8	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.	0.9	40
51	Single-cell Gel/Comet Assay Applied to the Analysis of UV Radiation-induced DNA Damage in <i>Rhodomonas</i> sp. (Cryptophyta). Photochemistry and Photobiology, 2007, 74, 55-60.	1.3	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.	1.2	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.	0.6	78

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55	Ozone and UV Radiation over Southern South America: Climatology and Anomalies. <i>Photochemistry and Photobiology</i> , 2006, 82, 834.	1.3	42
56	UV Effects on Marine Planktonic Food Webs: A Synthesis of Results from Mesocosm Studies. <i>Photochemistry and Photobiology</i> , 2006, 82, 850.	1.3	24
57	Simulation of Ozone Depletion Using Ambient Irradiance Supplemented with UV Lamps. <i>Photochemistry and Photobiology</i> , 2006, 82, 857.	1.3	12
58	Vertical Mixing and Ecological Effects of Ultraviolet Radiation in Planktonic Communities. <i>Photochemistry and Photobiology</i> , 2006, 82, 898.	1.3	24
59	Introduction: Enhanced UV-B Radiation in Natural Ecosystems as an Added Perturbation Due to Ozone Depletion. <i>Photochemistry and Photobiology</i> , 2006, 82, 831.	1.3	6
60	Interannual variability in the distribution of the phytoplankton standing stock across the seasonal sea-ice zone west of the Antarctic Peninsula. <i>Journal of Plankton Research</i> , 2005, 27, 825-843.	0.8	63
61	Multichannel radiometer calibration: a new approach. <i>Applied Optics</i> , 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). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 1823-1841.	0.6	88
63	Alteration of the food web along the Antarctic Peninsula in response to a regional warming trend. <i>Global Change Biology</i> , 2004, 10, 1973-1980.	4.2	332
64	Composition and biomass of phytoplankton assemblages in coastal Antarctic waters: a comparison of chemotaxonomic and microscopic analyses. <i>Marine Ecology - Progress Series</i> , 2003, 247, 27-42.	0.9	101
65	Phytoplankton spatial distribution patterns along the western Antarctic Peninsula (Southern Ocean). <i>Marine Ecology - Progress Series</i> , 2003, 261, 21-39.	0.9	150
66	Glacial meltwater dynamics in coastal waters west of the Antarctic peninsula. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1790-1795.	3.3	241
67	Grazing by Antarctic krill <i>Euphausia superba</i> on <i>Phaeocystis antarctica</i> : an immunochemical approach. <i>Marine Ecology - Progress Series</i> , 2002, 241, 139-149.	0.9	14
68	Single-cell Gel/Comet Assay Applied to the Analysis of UV Radiation-induced DNA Damage in <i>Rhodomonas</i> sp. (Cryptophyta). <i>Photochemistry and Photobiology</i> , 2001, 74, 55.	1.3	23
69	Variability of Primary Production in an Antarctic Marine Ecosystem as Estimated Using a Multi-scale Sampling Strategy ¹ . <i>American Zoologist</i> , 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. <i>American Zoologist</i> , 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 mycosporine-like amino acids (MAAs) on UV absorption by particulate and dissolved organic matter in La Jolla Bay. <i>Limnology and Oceanography</i> , 2000, 45, 1788-1796.	1.6	63
76	Optimizing models for remotely estimating primary production in Antarctic coastal waters. <i>Antarctic Science</i> , 2000, 12, 20-32.	0.5	54
77	Growth limitation in young <i>Euphausia superba</i> under field conditions. <i>Limnology and Oceanography</i> , 2000, 45, 31-43.	1.6	122
78	Spring Bloom Development in the Marginal Ice Zone and the Central Barents Sea. <i>Marine Ecology</i> , 1999, 20, 321-346.	0.4	124
79	Marine Ecosystem Sensitivity to Climate Change. <i>BioScience</i> , 1999, 49, 393-404.	2.2	250
80	Seasonal and interannual variability of phytoplankton biomass west of the Antarctic Peninsula. <i>Journal of Marine Systems</i> , 1998, 17, 229-243.	0.9	54
81	<i>Chaetoceros</i> resting spores in the Gerlache Strait, Antarctic Peninsula. <i>Polar Biology</i> , 1998, 19, 286-288.	0.5	10
82	THE PHYCOBILIN SIGNATURES OF CHLOROPLASTS FROM THREE DINOFLAGELLATE SPECIES: A MICROANALYTICAL STUDY OF DINOPHYSIS CAUDATA, D. FORTII, AND D. ACUMINATA (DINOPHYSIALES,) Tj ETQq0100 rgBT k9 Overlock 1		
83	Synthesis of particulate and extracellular carbon by phytoplankton at the marginal ice zone in the Barents Sea. <i>Journal of Geophysical Research</i> , 1998, 103, 1023-1037.	3.3	62
84	Release of ultraviolet-absorbing compounds by the red-tide dinoflagellate <i>Lingulodinium polyedra</i> . <i>Marine Biology</i> , 1996, 127, 35-44.	0.7	110
85	EFFECTS OF SMALL-SCALE TURBULENCE ON PHOTOSYNTHESIS, PIGMENTATION, CELL DIVISION, AND CELL SIZE IN THE MARINE DINOFLAGELLATE <i>GONYAULAX POLYEDRA</i> (DINOPHYCEAE)1. <i>Journal of Phycology</i> , 1995, 31, 50-59.	1.0	64
86	Light-dependence of carbon and sulfur production by polar clones of the genus <i>Phaeocystis</i> . <i>Marine Biology</i> , 1995, 124, 157-167.	0.7	66
87	The Palmer LTER: A Long-Term Ecological Research Program at Palmer Station, Antarctica. <i>Oceanography</i> , 1995, 8, 77-86.	0.5	109
88	Respiration and biochemical composition of sedimenting organic matter during summer in the Barents Sea. <i>Continental Shelf Research</i> , 1994, 14, 79-90.	0.9	14
89	Microzooplankton grazing, pigments, and composition of plankton communities during late spring in two Norwegian fjords. <i>Sarsia</i> , 1992, 77, 263-274.	0.5	37
90	Modeling of light-dependent algal photosynthesis and growth: experiments with the Barents sea diatoms <i>Thalassiosira nordenskioldii</i> and <i>Chaetoceros furcellatus</i> . <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, 415-430.	1.6	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.	1.6	53
93	The presence of chlorophyll b and the estimation of phaeopigments in marine phytoplankton. Journal of Plankton Research, 1987, 9, 255-265.	0.8	41
94	Relationship between action spectra for chlorophyll a fluorescence and photosynthetic O2 evolution in algae. Journal of Plankton Research, 1986, 8, 537-548.	0.8	32
95	Sinking rates of organic particles1. Limnology and Oceanography, 1983, 28, 766-769.	1.6	52