

Maria Vernet

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97
papers

4,707
citations

39
h-index

67
g-index

99
ext. papers

5,237
ext. citations

4
avg, IF

5.12
L-index

#	Paper	IF	Citations
97	Marine pelagic ecosystems: the west Antarctic Peninsula. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007 , 362, 67-94	5.8	426
96	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	11.4	254
95	Marine Ecosystem Sensitivity to Climate Change. <i>BioScience</i> , 1999 , 49, 393-404	5.7	227
94	Western Antarctic Peninsula physical oceanography and spatiotemporal variability. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008 , 55, 1964-1987	2.3	217
93	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, 1790-5	11.5	197
92	Free-drifting icebergs: hot spots of chemical and biological enrichment in the Weddell Sea. <i>Science</i> , 2007 , 317, 478-82	33.3	192
91	Primary production within the sea-ice zone west of the Antarctic Peninsula: Ice ice, summer mixed layer, and irradiance. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008 , 55, 2068-2083	2.3	172
90	Phytoplankton spatial distribution patterns along the western Antarctic Peninsula (Southern Ocean). <i>Marine Ecology - Progress Series</i> , 2003 , 261, 21-39	2.6	126
89	Mechanisms of UV damage to aquatic organisms 2000 , 149-176		109
88	Spring Bloom Development in the Marginal Ice Zone and the Central Barents Sea. <i>Marine Ecology</i> , 1999 , 20, 321-346	1.4	102
87	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*. <i>Journal of Climate</i> , 2006 , 19, 3544-3571	4.4	98
86	Release of ultraviolet-absorbing compounds by the red-tide dinoflagellate <i>Lingulodinium polyedra</i> . <i>Marine Biology</i> , 1996 , 127, 35-44	2.5	93
85	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	2.6	89
84	Growth limitation in young <i>Euphausia superba</i> under field conditions. <i>Limnology and Oceanography</i> , 2000 , 45, 31-43	4.8	86
83	The Palmer LTER: A Long-Term Ecological Research Program at Palmer Station, Antarctica. <i>Oceanography</i> , 1995 , 8, 77-86	2.3	84
82	Foehn winds link climate-driven warming to ice shelf evolution in Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 11,037-11,057	4.4	76
81	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	2.5	74

80	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	2.5	73
79	Water-column processes in the West Antarctic Peninsula and the Ross Sea: Interannual variations and foodweb structure. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006 , 53, 834-852	2.3	72
78	Strategies for the minimisation of UV-induced damage 2000 , 177-205		67
77	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	2.7	62
76	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	2.2	58
75	Light-dependence of carbon and sulfur production by polar clones of the genus <i>Phaeocystis</i> . <i>Marine Biology</i> , 1995 , 124, 157-167	2.5	54
74	The Weddell Gyre, Southern Ocean: Present Knowledge and Future Challenges. <i>Reviews of Geophysics</i> , 2019 , 57, 623-708	23.1	53
73	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		53
72	Ecological responses of Antarctic krill to environmental variability: can we predict the future?. <i>Antarctic Science</i> , 2007 , 19, 253-266	1.7	52
71	EFFECTS OF SMALL-SCALE TURBULENCE ON PHOTOSYNTHESIS, PIGMENTATION, CELL DIVISION, AND CELL SIZE IN THE MARINE DINOFLAGELLATE <i>GOMAUAX POLYEDRA</i> (DINOPHYCEAE)1. <i>Journal of Phycology</i> , 1995 , 31, 50-59	3	52
70	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	3.3	51
69	Seasonal and interannual variability of phytoplankton biomass west of the Antarctic Peninsula. <i>Journal of Marine Systems</i> , 1998 , 17, 229-243	2.7	50
68	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	4.8	50
67	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	9.8	47
66	Export production and its regulating factors in the West Antarctica Peninsula region of the Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	46
65	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		45
64	Diversity of the diatom genus <i>Fragilariopsis</i> in the Argentine Sea and Antarctic waters: morphology, distribution and abundance. <i>Polar Biology</i> , 2010 , 33, 1463-1484	2	43
63	Optimizing models for remotely estimating primary production in Antarctic coastal waters. <i>Antarctic Science</i> , 2000 , 12, 20-32	1.7	43

62	The relative abundance of pheophorbide a and pheophytin a in temperate marine waters ¹ . <i>Limnology and Oceanography</i> , 1987 , 32, 352-358	4.8	42
61	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	2.3	40
60	Variability on phytoplankton size structure in the western Antarctic Peninsula (1997-2006). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008 , 55, 2106-2117	2.3	40
59	Sinking rates of organic particles ¹ . <i>Limnology and Oceanography</i> , 1983 , 28, 766-769	4.8	40
58	Subsurface melting of a free-floating Antarctic iceberg. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011 , 58, 1336-1345	2.3	39
57	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	2.3	39
56	Ozone and UV radiation over southern South America: climatology and anomalies. <i>Photochemistry and Photobiology</i> , 2006 , 82, 834-43	3.6	39
55	The presence of chlorophyll b and the estimation of phaeopigments in marine phytoplankton. <i>Journal of Plankton Research</i> , 1987 , 9, 255-265	2.2	37
54	THE PHYCOBILIN SIGNATURES OF CHLOROPLASTS FROM THREE DINOFLLAGELLATE SPECIES: A MICROANALYTICAL STUDY OF DINOPHYSIS CAUDATA, D. FORTII, AND D. ACUMINATA (DINOPHYSIALES, DINOPHYCEAE). <i>Journal of Phycology</i> , 1998 , 34, 945-951	3	34
53	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. <i>Earth System Science Data</i> , 2013 , 5, 109-123	10.5	34
52	UV radiation effects on heterotrophic bacterioplankton and viruses in marine ecosystems 2000 , 206-236		33
51	Relating temporal and spatial patterns of DMSP in the Barents Sea to phytoplankton biomass and productivity. <i>Journal of Marine Systems</i> , 2007 , 67, 83-101	2.7	32
50	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		32
49	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	2.6	31
48	Carbon export associated with free-drifting icebergs in the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011 , 58, 1485-1496	2.3	30
47	Relationship between action spectra for chlorophyll a fluorescence and photosynthetic O ₂ evolution in algae. <i>Journal of Plankton Research</i> , 1986 , 8, 537-548	2.2	29
46	Phytoplankton composition and abundance in relation to free-floating Antarctic icebergs. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011 , 58, 1436-1450	2.3	28
45	A mesoscale study of phytoplankton assemblages around the South Shetland Islands (Antarctica). <i>Polar Biology</i> , 2013 , 36, 1107-1123	2	26

44	Microzooplankton grazing, pigments, and composition of plankton communities during late spring in two Norwegian fjords. <i>Sarsia</i> , 1992 , 77, 263-274		26
43	Modelling the production and cycling of dimethylsulphide during the vernal bloom in the Barents Sea. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999 , 51, 919-937	3.3	25
42	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,	4.5	24
41	Vertical mixing and ecological effects of ultraviolet radiation in planktonic communities. <i>Photochemistry and Photobiology</i> , 2006 , 82, 898-902	3.6	22
40	Variability of Primary Production in an Antarctic Marine Ecosystem as Estimated Using a Multi-scale Sampling Strategy1. <i>American Zoologist</i> , 2001 , 41, 40-56		22
39	UV effects on marine planktonic food webs: A synthesis of results from mesocosm studies. <i>Photochemistry and Photobiology</i> , 2006 , 82, 850-6	3.6	21
38	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, 55-60	3.6	21
37	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	2.6	20
36	Circumpolar Deep Water Impacts Glacial Meltwater Export and Coastal Biogeochemical Cycling Along the West Antarctic Peninsula. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	19
35	Phytoplankton dynamics in the Barents Sea estimated from chlorophyll budget models. <i>Polar Research</i> , 1991 , 10, 129-146	2	18
34	Quality of UVR exposure for different biological systems along a latitudinal gradient. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 1329-45	4.2	17
33	Phytoplankton size-structure on the western shelf of the Antarctic Peninsula: a remote-sensing approach. <i>International Journal of Remote Sensing</i> , 2008 , 29, 801-829	3.1	17
32	Diagnostic modeling of dimethylsulphide production in coastal water west of the Antarctic Peninsula. <i>Continental Shelf Research</i> , 2012 , 32, 96-109	2.4	15
31	The optical and biological properties of glacial meltwater in an Antarctic fjord. <i>PLoS ONE</i> , 2019 , 14, e02131707	3.7	15
30	The timing of sea ice formation and exposure to photosynthetically active radiation along the Western Antarctic Peninsula. <i>Polar Biology</i> , 2011 , 34, 683-692	2	14
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	2.6	14
28	Phytoplankton composition and bloom formation in unexplored nearshore waters of the western Antarctic Peninsula. <i>Polar Biology</i> , 2019 , 42, 1859-1872	2	13
27	234Th-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	2.3	13

26	Respiration and biochemical composition of sedimenting organic matter during summer in the Barents Sea. <i>Continental Shelf Research</i> , 1994 , 14, 79-90	2.4	12
25	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	2.6	11
24	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	3.8	11
23	Simulation of ozone depletion using ambient irradiance supplemented with UV lamps. <i>Photochemistry and Photobiology</i> , 2006 , 82, 857-64	3.6	10
22	Algal communities attached to free-drifting, Antarctic icebergs. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011 , 58, 1451-1456	2.3	9
21	Environmental drivers of phytoplankton taxonomic composition in an Antarctic fjord. <i>Progress in Oceanography</i> , 2020 , 183, 102295	3.8	8
20	Multichannel radiometer calibration: a new approach. <i>Applied Optics</i> , 2005 , 44, 5374-80	1.7	8
19	Implications of UV radiation for the food web structure and consequences on the carbon flow 2000 , 310-320		8
18	Measuring and Modeling Primary Production in Marine Pelagic Ecosystems 2007 , 142-174		8
17	Palmer Long-Term Ecological Research on the Antarctic Marine Ecosystem. <i>Antarctic Research Series</i> , 2013 , 131-144		7
16	Availability of vitamin D photoconversion weighted UV radiation in southern South America. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 1854-67	4.2	7
15	<i>Chaetoceros</i> resting spores in the Gerlache Strait, Antarctic Peninsula. <i>Polar Biology</i> , 1998 , 19, 286-288	2	7
14	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	2.5	6
13	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	5	5
12	Diatoms (Bacillariophyceae) associated with free-drifting Antarctic icebergs: taxonomy and distribution. <i>Polar Biology</i> , 2016 , 39, 443-459	2	4
11	Introduction: enhanced UV-B radiation in natural ecosystems as an added perturbation due to ozone depletion. <i>Photochemistry and Photobiology</i> , 2006 , 82, 831-3	3.6	4
10	Polar Tourism as an Effective Research Tool: Citizen Science in the Western Antarctic Peninsula. <i>Oceanography</i> , 2020 , 33,	2.3	4
9	Overexpression of <i>Thalassiosira pseudonana</i> violaxanthin de-epoxidase-like 2 (VDL2) increases fucoxanthin while stoichiometrically reducing diadinoxanthin cycle pigment abundance		4

8	Microplanktonic diatom assemblages dominated the primary production but not the biomass in an Antarctic fjord. <i>Journal of Marine Systems</i> , 2021 , 224, 103624	2.7	3
7	Seasonal dispersal of fjord meltwaters as an important source of iron and manganese to coastal Antarctic phytoplankton. <i>Biogeosciences</i> , 2021 , 18, 6349-6375	4.6	3
6	Characteristics of the meltwater field from a large Antarctic iceberg using. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 2259-2269	3.3	1
5	Spatiotemporal Variations in Antarctic Protistan Communities Highlight Phytoplankton Diversity and Seasonal Dominance by a Novel Cryptophyte Lineage.. <i>MBio</i> , 2021 , 12, e0297321	7.8	1
4	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	2	0
3	Biogeography of Southern Ocean Active Prokaryotic Communities Over a Large Spatial Scale.. <i>Frontiers in Microbiology</i> , 2022 , 13, 862812	5.7	0
2	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> , 2007 , 74, 55-60	3.6	
1	Ecology of Polar Phytoplankton 2019 , 1-15		