

# David M Karl

## List of Publications by Year in descending order

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316  
papers

36,178  
citations

2975

93  
h-index

4015

176  
g-index

331  
all docs

331  
docs citations

331  
times ranked

21080  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Sorcerer II Global Ocean Sampling Expedition: Northwest Atlantic through Eastern Tropical Pacific. <i>PLoS Biology</i> , 2007, 5, e77.	5.6	1,757
2	VERTEX: carbon cycling in the northeast Pacific. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1987, 34, 267-285.	1.5	1,731
3	Archaeal dominance in the mesopelagic zone of the Pacific Ocean. <i>Nature</i> , 2001, 409, 507-510.	27.8	1,373
4	Community Genomics Among Stratified Microbial Assemblages in the Ocean's Interior. <i>Science</i> , 2006, 311, 496-503.	12.6	1,261
5	Scientists's warning to humanity: microorganisms and climate change. <i>Nature Reviews Microbiology</i> , 2019, 17, 569-586.	28.6	1,138
6	Present and future global distributions of the marine Cyanobacteria <i>Prochlorococcus</i> and <i>Synechococcus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9824-9829.	7.1	1,097
7	Phosphate Depletion in the Western North Atlantic Ocean. <i>Science</i> , 2000, 289, 759-762.	12.6	734
8	Unicellular cyanobacteria fix N <sub>2</sub> in the subtropical North Pacific Ocean. <i>Nature</i> , 2001, 412, 635-638.	27.8	678
9	Phytoplankton in the ocean use non-phosphorus lipids in response to phosphorus scarcity. <i>Nature</i> , 2009, 458, 69-72.	27.8	662
10	Revisiting Carbon Flux Through the Ocean's Twilight Zone. <i>Science</i> , 2007, 316, 567-570.	12.6	547
11	Quantitative distribution of presumptive archaeal and bacterial nitrifiers in Monterey Bay and the North Pacific Subtropical Gyre. <i>Environmental Microbiology</i> , 2007, 9, 1162-1175.	3.8	466
12	Aerobic production of methane in the sea. <i>Nature Geoscience</i> , 2008, 1, 473-478.	12.9	450
13	Physical and biogeochemical modulation of ocean acidification in the central North Pacific. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12235-12240.	7.1	440
14	The Hawaii Ocean Time-series (HOT) program: Background, rationale and field implementation. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1996, 43, 129-156.	1.4	430
15	MAGIC: A sensitive and precise method for measuring dissolved phosphorus in aquatic environments. <i>Limnology and Oceanography</i> , 1992, 37, 105-116.	3.1	403
16	Minireviews: A Sea of Change: Biogeochemical Variability in the North Pacific Subtropical Gyre. <i>Ecosystems</i> , 1999, 2, 181-214.	3.4	378
17	Primary production, new production and vertical flux in the eastern Pacific Ocean. <i>Nature</i> , 1987, 325, 803-804.	27.8	357
18	Bacterial vs. zooplankton control of sinking particle flux in the ocean's twilight zone. <i>Limnology and Oceanography</i> , 2008, 53, 1327-1338.	3.1	350

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19	Reduced mixing generates oscillations and chaos in the oceanic deep chlorophyll maximum. <i>Nature</i> , 2006, 439, 322-325.	27.8	333
20	Diversity and Activity of Communities Inhabiting Plastic Debris in the North Pacific Gyre. <i>MSystems</i> , 2016, 1, .	3.8	330
21	Elevated consumption of carbon relative to nitrogen in the surface ocean. <i>Nature</i> , 1993, 363, 248-250.	27.8	323
22	Production of methane and ethylene from plastic in the environment. <i>PLoS ONE</i> , 2018, 13, e0200574.	2.5	310
23	Downward flux of particulate organic matter in the ocean: a particle decomposition paradox. <i>Nature</i> , 1988, 332, 438-441.	27.8	285
24	Microbially Mediated Transformations of Phosphorus in the Sea: New Views of an Old Cycle. <i>Annual Review of Marine Science</i> , 2014, 6, 279-337.	11.6	285
25	Ecological nitrogen-to-phosphorus stoichiometry at station ALOHA. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 1529-1566.	1.4	274
26	Introduction to "A Sea of Microbes" Special Issue. <i>Oceanography</i> , 2007, 20, 14-15.	1.0	267
27	Temporal Patterns of Nitrogenase Gene ( <i>nifH</i> ) Expression in the Oligotrophic North Pacific Ocean. <i>Applied and Environmental Microbiology</i> , 2005, 71, 5362-5370.	3.1	264
28	Predictable and efficient carbon sequestration in the North Pacific Ocean supported by symbiotic nitrogen fixation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1842-1849.	7.1	258
29	Proteorhodopsin genes are distributed among divergent marine bacterial taxa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12830-12835.	7.1	255
30	The Underwater Vision Profiler 5: An advanced instrument for high spatial resolution studies of particle size spectra and zooplankton. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 462-473.	2.0	255
31	Light driven seasonal patterns of chlorophyll and nitrate in the lower euphotic zone of the North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , 2004, 49, 508-519.	3.1	246
32	Genomic perspectives in microbial oceanography. <i>Nature</i> , 2005, 437, 336-342.	27.8	241
33	Marine methane paradox explained by bacterial degradation of dissolved organic matter. <i>Nature Geoscience</i> , 2016, 9, 884-887.	12.9	231
34	Nitrification in the euphotic zone as a source for nitrite, nitrate, and nitrous oxide at Station ALOHA. <i>Limnology and Oceanography</i> , 1996, 41, 1619-1628.	3.1	228
35	Abundance and distribution of planktonic <i>Archaea</i> and <i>Bacteria</i> in the waters west of the Antarctic Peninsula. <i>Limnology and Oceanography</i> , 2003, 48, 1893-1902.	3.1	228
36	Nitrate supply from deep to near-surface waters of the North Pacific subtropical gyre. <i>Nature</i> , 2010, 465, 1062-1065.	27.8	225

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37	Seasonal and interannual variability in sources of nitrogen supporting export in the oligotrophic subtropical North Pacific Ocean. <i>Limnology and Oceanography</i> , 2002, 47, 1595-1607.	3.1	223
38	Abundances of crenarchaeal <i>amoA</i> genes and transcripts in the Pacific Ocean. <i>Environmental Microbiology</i> , 2010, 12, 679-688.	3.8	209
39	The role of dissolved organic matter release in the productivity of the oligotrophic North Pacific Ocean. <i>Limnology and Oceanography</i> , 1998, 43, 1270-1286.	3.1	203
40	Comparative Metagenomic Analysis of a Microbial Community Residing at a Depth of 4,000 Meters at Station ALOHA in the North Pacific Subtropical Gyre. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5345-5355.	3.1	203
41	Production and transport of methane in oceanic particulate organic matter. <i>Nature</i> , 1994, 368, 732-734.	27.8	202
42	Nutrient gradients in the western North Atlantic Ocean: Relationship to microbial community structure and comparison to patterns in the Pacific Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 2373-2395.	1.4	201
43	Physical forcing of nitrogen fixation and diazotroph community structure in the North Pacific subtropical gyre. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	200
44	Will ocean acidification affect marine microbes?. <i>ISME Journal</i> , 2011, 5, 1-7.	9.8	200
45	Phosphorus, the staff of life. <i>Nature</i> , 2000, 406, 31-33.	27.8	199
46	Dissolved inorganic phosphorus, dissolved iron, and <i>Trichodesmium</i> in the oligotrophic South China Sea. <i>Global Biogeochemical Cycles</i> , 2003, 17, 8-1-8-10.	4.9	189
47	Multiple B-vitamin depletion in large areas of the coastal ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14041-14045.	7.1	188
48	A large source of atmospheric nitrous oxide from subtropical North Pacific surface waters. <i>Nature</i> , 1998, 396, 63-66.	27.8	184
49	Microbial oceanography and the Hawaii Ocean Time-series programme. <i>Nature Reviews Microbiology</i> , 2014, 12, 699-713.	28.6	183
50	Summer phytoplankton blooms in the oligotrophic North Pacific Subtropical Gyre: Historical perspective and recent observations. <i>Progress in Oceanography</i> , 2008, 76, 2-38.	3.2	181
51	Bioavailability of dissolved organic phosphorus in the euphotic zone at Station ALOHA, North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , 2003, 48, 1049-1057.	3.1	178
52	The dual isotopes of deep nitrate as a constraint on the cycle and budget of oceanic fixed nitrogen. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 1419-1439.	1.4	177
53	Environmental drivers of a microbial genomic transition zone in the ocean's interior. <i>Nature Microbiology</i> , 2017, 2, 1367-1373.	13.3	177
54	Increasing anthropogenic nitrogen in the North Pacific Ocean. <i>Science</i> , 2014, 346, 1102-1106.	12.6	174

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55	The measurement and distribution of dissolved nucleic acids in aquatic environments. <i>Limnology and Oceanography</i> , 1989, 34, 543-558.	3.1	170
56	Seasonal coupling of organic matter production and particle flux in the western Bransfield Strait, Antarctica. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, 1097-1126.	1.5	163
57	Nutrient dynamics in the deep blue sea. <i>Trends in Microbiology</i> , 2002, 10, 410-418.	7.7	163
58	A time-series study of particulate matter export in the North Pacific Subtropical Gyre based on <sup>234</sup> Th: <sup>238</sup> U disequilibrium. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 2595-2611.	1.4	159
59	Microbial oceanography: paradigms, processes and promise. <i>Nature Reviews Microbiology</i> , 2007, 5, 759-769.	28.6	157
60	Ocean Iron Fertilization—Moving Forward in a Sea of Uncertainty. <i>Science</i> , 2008, 319, 162-162.	12.6	156
61	Comparative Assessment of Nitrogen Fixation Methodologies, Conducted in the Oligotrophic North Pacific Ocean. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6516-6523.	3.1	155
62	Regional distributions of nitrogen-fixing bacteria in the Pacific Ocean. <i>Limnology and Oceanography</i> , 2008, 53, 63-77.	3.1	154
63	&lt;I&gt;In situ&lt;/I&gt; effects of selected preservatives on total carbon, nitrogen and metals collected in sediment traps. <i>Journal of Marine Research</i> , 1984, 42, 445-462.	0.3	151
64	Climate-driven changes to the atmospheric CO <sub>2</sub> sink in the subtropical North Pacific Ocean. <i>Nature</i> , 2003, 424, 754-757.	27.8	151
65	Challenges of modeling depth-integrated marine primary productivity over multiple decades: A case study at BATS and HOT. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	150
66	Biological composition and microbial dynamics of sinking particulate organic matter at abyssal depths in the oligotrophic open ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11824-11832.	7.1	150
67	Metabolic balance of the open sea. <i>Nature</i> , 2003, 426, 32-32.	27.8	149
68	Microbial community structure and function on sinking particles in the North Pacific Subtropical Gyre. <i>Frontiers in Microbiology</i> , 2015, 6, 469.	3.5	148
69	Trichodesmium Blooms and New Nitrogen in the North Pacific Gyre. , 1992, , 219-237.		148
70	Vertical distribution, transport, and exchange of carbon in the northeast Pacific Ocean: evidence for multiple zones of biological activity. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1984, 31, 221-243.	1.5	146
71	Bacterial ectoenzymes in marine waters: Activity ratios and temperature responses in three oceanographic provinces. <i>Limnology and Oceanography</i> , 1995, 40, 1042-1049.	3.1	144
72	Nitrogen modulates phytoplankton growth in spring in the South China Sea. <i>Continental Shelf Research</i> , 2004, 24, 527-541.	1.8	138

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73	Nitrogen fixation in an anticyclonic eddy in the oligotrophic North Pacific Ocean. <i>ISME Journal</i> , 2008, 2, 663-676.	9.8	137
74	Alkaline phosphatase activity and regulation in the North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , 2010, 55, 1414-1425.	3.1	132
75	Freezing as a method of sample preservation for the analysis of dissolved inorganic nutrients in seawater. <i>Marine Chemistry</i> , 1996, 53, 173-185.	2.3	131
76	Microbial production and particle flux in the upper 350 m of the Black Sea. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, S921-S942.	1.5	129
77	Experiments linking nitrogenase gene expression to nitrogen fixation in the North Pacific subtropical gyre. <i>Limnology and Oceanography</i> , 2007, 52, 169-183.	3.1	127
78	Relationship between Abundance and Specific Activity of Bacterioplankton in Open Ocean Surface Waters. <i>Applied and Environmental Microbiology</i> , 2013, 79, 177-184.	3.1	127
79	Application of a novel method for phosphorus determinations in the oligotrophic North Pacific Ocean. <i>Limnology and Oceanography</i> , 1998, 43, 1565-1577.	3.1	122
80	Marine phosphate oxygen isotopes and organic matter remineralization in the oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13023-13028.	7.1	122
81	Coordinated regulation of growth, activity and transcription in natural populations of the unicellular nitrogen-fixing cyanobacterium <i>Crocospaera</i> . <i>Nature Microbiology</i> , 2017, 2, 17118.	13.3	122
82	Functional group-specific traits drive phytoplankton dynamics in the oligotrophic ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5972-9.	7.1	118
83	Temporal variability in dissolved phosphorus concentrations in the subtropical North Pacific Ocean. <i>Marine Chemistry</i> , 1997, 56, 77-96.	2.3	113
84	Adenosine Triphosphate Measurements in Soil and Marine Sediments. <i>Journal of the Fisheries Research Board of Canada</i> , 1975, 32, 599-607.	0.9	111
85	Temporal variability of nitrogen fixation and particulate nitrogen export at Station ALOHA. <i>Limnology and Oceanography</i> , 2017, 62, 200-216.	3.1	110
86	The Palmer LTER: A Long-Term Ecological Research Program at Palmer Station, Antarctica. <i>Oceanography</i> , 1995, 8, 77-86.	1.0	109
87	Multiyear increases in dissolved organic matter inventories at Station ALOHA in the North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , 2002, 47, 1-10.	3.1	108
88	Net community production and metabolic balance at the oligotrophic ocean site, station ALOHA. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 1563-1578.	1.4	107
89	Vitamin B <sub>12</sub> excretion by cultures of the marine cyanobacteria <i>Crocospaera</i> and <i>Synechococcus</i> . <i>Limnology and Oceanography</i> , 2010, 55, 1959-1964.	3.1	107
90	Surface ocean-lower atmosphere interactions in the Northeast Pacific Ocean Gyre: Aerosols, iron, and the ecosystem response. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	4.9	104

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91	Measurement of Microbial Activity and Growth in the Ocean by Rates of Stable Ribonucleic Acid Synthesis. <i>Applied and Environmental Microbiology</i> , 1979, 38, 850-860.	3.1	104
92	Temporal variations in diatom abundance and downward vertical flux in the oligotrophic North Pacific gyre. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1999, 46, 1051-1075.	1.4	103
93	On the chlorophyll a retention properties of glass fiber GF/F filters. <i>Limnology and Oceanography</i> , 1995, 40, 428-433.	3.1	101
94	Hidden in a sea of microbes. <i>Nature</i> , 2002, 415, 590-591.	27.8	101
95	Microorganisms in deep-sea hydrothermal plumes. <i>Nature</i> , 1986, 320, 744-746.	27.8	100
96	Element Stoichiometry, New Production and Nitrogen Fixation. <i>Oceanography</i> , 2001, 14, 68-77.	1.0	99
97	Seasonal variability in the phytoplankton community of the North Pacific Subtropical Gyre. <i>Global Biogeochemical Cycles</i> , 1995, 9, 605-620.	4.9	98
98	Nitrite distributions and dynamics at Station ALOHA. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1996, 43, 385-402.	1.4	93
99	Light Dependence of [ <sup>3</sup> H]Leucine Incorporation in the Oligotrophic North Pacific Ocean. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4079-4087.	3.1	92
100	Methane sources, distributions and sinks from California coastal waters to the oligotrophic North Pacific gyre. <i>Marine Chemistry</i> , 1995, 49, 51-64.	2.3	91
101	Partial characterization of the dissolved organic phosphorus pool in the oligotrophic North Pacific Ocean. <i>Limnology and Oceanography</i> , 1997, 42, 1398-1405.	3.1	90
102	Ecosystem Structure and Dynamics in the North Pacific Subtropical Gyre: New Views of an Old Ocean. <i>Ecosystems</i> , 2017, 20, 433-457.	3.4	90
103	Simultaneous Rates of Ribonucleic Acid and Deoxyribonucleic Acid Syntheses for Estimating Growth and Cell Division of Aquatic Microbial Communities. <i>Applied and Environmental Microbiology</i> , 1981, 42, 802-810.	3.1	90
104	Flexible elemental stoichiometry in <i>Trichodesmium</i> spp. and its ecological implications. <i>Limnology and Oceanography</i> , 2006, 51, 1777-1790.	3.1	89
105	Diversity of deep-sea hydrothermal vent Archaea from Loihi Seamount, Hawaii. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998, 45, 303-317.	1.4	88
106	Research on Antarctic Coastal Ecosystem Rates (RACER): an interdisciplinary field experiment. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, 911-941.	1.5	86
107	Why does the relationship between sinking flux and planktonic primary production differ between lakes and oceans?. <i>Limnology and Oceanography</i> , 1994, 39, 213-226.	3.1	86
108	Selected Nucleic Acid Precursors in Studies of Aquatic Microbial Ecology. <i>Applied and Environmental Microbiology</i> , 1982, 44, 891-902.	3.1	85

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109	Rising surface ocean dissolved inorganic carbon at the Hawaii Ocean Time-series site. <i>Marine Chemistry</i> , 1998, 60, 33-47.	2.3	84
110	Biogeochemical controls of surface ocean phosphate. <i>Science Advances</i> , 2019, 5, eaax0341.	10.3	84
111	Dynamics of the SAR11 bacterioplankton lineage in relation to environmental conditions in the oligotrophic North Pacific subtropical gyre. <i>Environmental Microbiology</i> , 2009, 11, 2291-2300.	3.8	82
112	Does eddyâ€eddy interaction control surface phytoplankton distribution and carbon export in the North Pacific Subtropical Gyre?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	80
113	Microbial oceanography in a sea of opportunity. <i>Nature</i> , 2009, 459, 180-184.	27.8	79
114	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.	1.4	78
115	Microbial community structure at the U.S.-Joint Global Ocean Flux Study Station ALOHA: Inverse methods for estimating biochemical indicator ratios. <i>Journal of Geophysical Research</i> , 1994, 99, 14269.	3.3	76
116	Building the Long-Term Picture: The U.S. JGOFS Time-Series Programs. <i>Oceanography</i> , 2001, 14, 6-17.	1.0	75
117	On the relationships between primary, net community, and export production in subtropical gyres. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 698-717.	1.4	74
118	The transient oasis: Nutrient-phytoplankton dynamics and particle export in Hawaiian lee cyclones. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1275-1290.	1.4	74
119	Mechanisms of nitrous oxide production in the subtropical North Pacific based on determinations of the isotopic abundances of nitrous oxide and di-oxygen. <i>Chemosphere</i> , 2000, 2, 281-290.	1.2	73
120	Wind and sunlight shape microbial diversity in surface waters of the North Pacific Subtropical Gyre. <i>ISME Journal</i> , 2016, 10, 1308-1322.	9.8	73
121	Phosphateâ€limited ocean regions select for bacterial populations enriched in the carbonâ€phosphorus lyase pathway for phosphonate degradation. <i>Environmental Microbiology</i> , 2019, 21, 2402-2414.	3.8	73
122	Seasonal, interannual and decadal variations in particulate matter concentrations and composition in the subtropical North Pacific Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 1669-1695.	1.4	72
123	Hydrothermal and microbial processes at Loihi Seamount, a mid-plate hot-spot volcano. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1989, 36, 1655-1673.	1.5	70
124	New production at the VERTEX time-series site. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1990, 37, 1121-1134.	1.5	70
125	Dissolved organic carbon in oligotrophic waters: experiments on sample preservation, storage and analysis. <i>Marine Chemistry</i> , 1994, 45, 207-216.	2.3	70
126	Shifts in biogenic carbon flow from particulate to dissolved forms under high carbon dioxide and warm ocean conditions. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	70



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127	Ecogenomic sensor reveals controls on N <sub>2</sub> -fixing microorganisms in the North Pacific Ocean. <i>ISME Journal</i> , 2014, 8, 1175-1185.	9.8	70
128	Impact of climate forcing on ecosystem processes in the North Pacific Subtropical Gyre. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	69
129	Swimmers: A Recapitulation of the Problem and a Potential Solution. <i>Oceanography</i> , 1989, 2, 32-35.	1.0	69
130	Influence of Rossby waves on nutrient dynamics and the plankton community structure in the North Pacific subtropical gyre. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	68
131	Characterization of alkaline phosphatase activity in the North and South Pacific Subtropical Gyres: Implications for phosphorus cycling. <i>Limnology and Oceanography</i> , 2011, 56, 1244-1254.	3.1	68
132	Vertical fluxes of carbon, nitrogen, and phosphorus in the North Pacific Subtropical Gyre near Hawaii. <i>Journal of Geophysical Research</i> , 1997, 102, 15667-15677.	3.3	66
133	Global estimates of net carbon production in the nitrate-depleted tropical and subtropical oceans. <i>Geophysical Research Letters</i> , 2002, 29, 13-1-13-4.	4.0	66
134	Export stoichiometry and migrant-mediated flux of phosphorus in the North Pacific Subtropical Gyre. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 73-88.	1.4	66
135	Sinking organic matter spreads the nitrogen isotope signal of pelagic denitrification in the North Pacific. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	66
136	Air-sea carbon dioxide exchange in the North Pacific Subtropical Gyre: Implications for the Global Carbon Budget. <i>Global Biogeochemical Cycles</i> , 1994, 8, 157-163.	4.9	65
137	Diversity and productivity of photosynthetic picoeukaryotes in biogeochemically distinct regions of the South East Pacific Ocean. <i>Limnology and Oceanography</i> , 2016, 61, 806-824.	3.1	65
138	Microbial dynamics of elevated carbon flux in the open ocean's abyss. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	65
139	In situ determination of oxygen and nitrogen dynamics in the upper ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 941-952.	1.4	64
140	Processes regulating oxygen and carbon dioxide in surface waters west of the Antarctic Peninsula. <i>Marine Chemistry</i> , 2004, 84, 161-179.	2.3	64
141	Large particle fluxes and the vertical transport of living carbon in the upper 1500 m of the northeast Pacific Ocean. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1981, 28, 921-936.	1.5	63
142	Metatranscriptomic and functional metagenomic analysis of methylphosphonate utilization by marine bacteria. <i>Frontiers in Microbiology</i> , 2013, 4, 340.	3.5	63
143	Distribution, abundance, and metabolic states of microorganisms in the water column and sediments of the Black Sea <sup>1</sup> . <i>Limnology and Oceanography</i> , 1978, 23, 936-949.	3.1	62
144	Total dissolved nitrogen and phosphorus concentrations at US-JGOFS station ALOHA: Redfield reconciliation. <i>Marine Chemistry</i> , 1993, 41, 203-208.	2.3	61

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145	[8] Biomass and adenylate energy charge determination in microbial cell extracts and environmental samples. <i>Methods in Enzymology</i> , 1978, 57, 73-85.	1.0	60
146	Ecology and biogeochemistry of alkenone production at Station ALOHA. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 699-719.	1.4	60
147	Coupling carbon and energy fluxes in the North Pacific Subtropical Gyre. <i>Nature Communications</i> , 2019, 10, 1895.	12.8	60
148	From genes to ecosystems: the ocean's new frontier. <i>Frontiers in Ecology and the Environment</i> , 2004, 2, 457-468.	4.0	59
149	ASSESSING PRIMARY PRODUCTION VARIABILITY IN THE NORTH PACIFIC SUBTROPICAL GYRE: A COMPARISON OF FAST REPETITION RATE FLUOROMETRY AND 14C MEASUREMENTS1. <i>Journal of Phycology</i> , 2006, 42, 51-60.	2.3	59
150	Dynamics of Dissolved Organic Phosphorus. , 2015, , 233-334.		59
151	Differences in the biological carbon pump at three subtropical ocean sites. <i>Geophysical Research Letters</i> , 2002, 29, 32-1-32-4.	4.0	57
152	Metabolic activity and bioluminescence of oceanic faecal pellets and sediment trap particles. <i>Nature</i> , 1984, 307, 539-541.	27.8	56
153	Particle export from the upper ocean over the continental shelf of the west Antarctic Peninsula: A long-term record, 1992â€”2007. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 2118-2131.	1.4	56
154	Nitrogen metabolism by heterotrophic bacterial assemblages in Antarctic coastal waters. <i>Polar Biology</i> , 1994, 14, 195.	1.2	55
155	Temporal Studies of Biogeochemical Processes Determined from Ocean Time-Series Observations During the JGOFS Era. , 2003, , 239-267.		55
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