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	Seasonality and episodic variation in picoeukaryote diversity and structure reveal community resilience to disturbances in the North Pacific Subtropical Gyre. Limnology and Oceanography, 2022, 67, .	3.1	9
2	Biogeochemical Dynamics in Adjacent Mesoscale Eddies of Opposite Polarity. Global Biogeochemical Cycles, 2022, 36, .	4.9	13
3	Complex marine microbial communities partition metabolism of scarce resources over the diel cycle. Nature Ecology and Evolution, 2022, 6, 218-229.	7.8	21
4	Marine phytoplankton resilience may moderate oligotrophic ecosystem responses and biogeochemical feedbacks to climate change. Limnology and Oceanography, 2022, 67, .	3.1	15
5	Overlooked and widespread pennate diatom-diazotroph symbioses in the sea. Nature Communications, 2022, 13, 799.	12.8	26
6	Diversity and origins of bacterial and archaeal viruses on sinking particles reaching the abyssal ocean. ISME Journal, 2022, 16, 1627-1635.	9.8	18
7	Microbial Sources of Exocellular DNA in the Ocean. Applied and Environmental Microbiology, 2022, 88, e0209321.	3.1	6
8	Viruses affect picocyanobacterial abundance and biogeography in the North Pacific Ocean. Nature Microbiology, 2022, 7, 570-580.	13.3	25
9	Microbes and Climate Change: a Research Prospectus for the Future. MBio, 2022, 13, e0080022.	4.1	53
10	Temporal dynamics of total microbial biomass and particulate detritus at Station ALOHA. Progress in Oceanography, 2022, 205, 102803.	3.2	8
11	A method for characterizing dissolved <scp>DNA</scp> and its application to the North Pacific Subtropical Gyre. Limnology and Oceanography: Methods, 2021, 19, 210-221.	2.0	9
12	Microbial dynamics of elevated carbon flux in the open oceanâ€™s abyss. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	65
13	Sustaining Long-Term Ecological Research: Perspectives from Inside the LTER Program. Archimedes, 2021, , 81-116.	0.3	0
14	A system of coordinated autonomous robots for Lagrangian studies of microbes in the oceanic deep chlorophyll maximum. Science Robotics, 2021, 6, .	17.6	32
15	Euphotic Zone Metabolism in the North Pacific Subtropical Gyre Based on Oxygen Dynamics. Global Biogeochemical Cycles, 2021, 35, e2020GB006744.	4.9	5
16	Evaluation of argonâ€induced hydrogen production as a method to measure nitrogen fixation by cyanobacteria. Journal of Phycology, 2021, 57, 863-873.	2.3	7
17	Open Ocean Particle Flux Variability From Surface to Seafloor. Geophysical Research Letters, 2021, 48, e2021GL092895.	4.0	6
18	Seasonal-to-decadal scale variability in primary production and particulate matter export at Station ALOHA. Progress in Oceanography, 2021, 195, 102563.	3.2	32

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19	Constraining growth rates and the ratio of living to nonliving particulate carbon using beam attenuation and adenosineâ€5â€²â€triphosphate at Station <scp>ALOHA</scp>. Limnology and Oceanography Letters, 2021, 6, 243-252.	3.9	10
20	Phosphate Scavenging During Lavaâ€Seawater Interaction Offshore of KÄ«lauea Volcano, Hawaii. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009754.	2.5	0
21	Production and diversity of microorganisms associated with sinking particles in the subtropical North Pacific Ocean. Limnology and Oceanography, 2021, 66, 3255-3270.	3.1	12
22	Light and depth dependency of nitrogen fixation by the nonâ€photosynthetic, symbiotic cyanobacterium UCYNâ€A. Environmental Microbiology, 2021, 23, 4518-4531.	3.8	14
23	Microbial community transcriptional patterns vary in response to mesoscale forcing in the North Pacific Subtropical Gyre. Environmental Microbiology, 2021, 23, 4807-4822.	3.8	14
24	A sensitive fluorescent assay for measuring carbonâ€phosphorus lyase activity in aquatic systems. Limnology and Oceanography: Methods, 2021, 19, 235-244.	2.0	2
25	Iron Depletion in the Deep Chlorophyll Maximum: Mesoscale Eddies as Natural Iron Fertilization Experiments. Global Biogeochemical Cycles, 2021, 35, e2021GB007112.	4.9	20
26	Autonomous Tracking and Sampling of the Deep Chlorophyll Maximum Layer in an Open-Ocean Eddy by a Long-Range Autonomous Underwater Vehicle. IEEE Journal of Oceanic Engineering, 2020, 45, 1308-1321.	3.8	22
27	Distinct nitrogen cycling and steep chemical gradients in Trichodesmium colonies. ISME Journal, 2020, 14, 399-412.	9.8	19
28	The Importance of the Phytoplankton â€œMiddle Classâ€•to Ocean Net Community Production. Global Biogeochemical Cycles, 2020, 34, e2020GB006702.	4.9	26
29	Anthropogenic Asian aerosols provide Fe to the North Pacific Ocean. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27862-27868.	7.1	54
30	Phosphonate cycling supports methane and ethylene supersaturation in the phosphateâ€depleted western North Atlantic Ocean. Limnology and Oceanography, 2020, 65, 2443-2459.	3.1	23
31	Metal isotope signatures from lava-seawater interaction during the 2018 eruption of KÄ«lauea. Geochimica Et Cosmochimica Acta, 2020, 282, 340-356.	3.9	17
32	Life and death of Crocosphaera sp. in the Pacific Ocean: Fine scale predatorâ€“prey dynamics. Limnology and Oceanography, 2020, 65, 2603-2617.	3.1	26
33	Latitudinal constraints on the abundance and activity of the cyanobacterium UCYNâ€A and other marine diazotrophs in the North Pacific. Limnology and Oceanography, 2020, 65, 1858-1875.	3.1	40
34	Diel variability of bulk optical properties associated with the growth and division of small phytoplankton in the North Pacific Subtropical Gyre. Applied Optics, 2020, 59, 6702.	1.8	14
35	Ocean Time Series Observations of Changing Marine Ecosystems: An Era of Integration, Synthesis, and Societal Applications. Frontiers in Marine Science, 2019, 6, .	2.5	50
36	Monitoring Microbial Communities in the Marine Environment. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 717-721.	1.5	3

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37	Validation of the in vivo Iodo-Nitro-Tetrazolium (INT) Salt Reduction Method as a Proxy for Plankton Respiration. Frontiers in Marine Science, 2019, 6, .	2.5	10
38	KÄ«lauea lava fuels phytoplankton bloom in the North Pacific Ocean. Science, 2019, 365, 1040-1044.	12.6	35
39	Biogeochemical controls of surface ocean phosphate. Science Advances, 2019, 5, eaax0341.	10.3	84
40	Biological composition and microbial dynamics of sinking particulate organic matter at abyssal depths in the oligotrophic open ocean. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11824-11832.	7.1	150
41	Climate-driven oscillation of phosphorus and iron limitation in the North Pacific Subtropical Gyre. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12720-12728.	7.1	44
42	Scientistsâ€™ warning to humanity: microorganisms and climate change. Nature Reviews Microbiology, 2019, 17, 569-586.	28.6	1,138
43	Methylphosphonate Oxidation in Prochlorococcus Strain MIT9301 Supports Phosphate Acquisition, Formate Excretion, and Carbon Assimilation into Purines. Applied and Environmental Microbiology, 2019, 85, .	3.1	32
44	Coupling carbon and energy fluxes in the North Pacific Subtropical Gyre. Nature Communications, 2019, 10, 1895.	12.8	60
45	Improved ultraviolet photoâ€oxidation system yields estimates for deepâ€sea dissolved organic nitrogen and phosphorus. Limnology and Oceanography: Methods, 2019, 17, 277-291.	2.0	16
46	Size dependence of metabolism within marine picoplankton populations. Limnology and Oceanography, 2019, 64, 1819-1827.	3.1	13
47	Phosphateâ€limited ocean regions select for bacterial populations enriched in the carbonâ€“phosphorus lyase pathway for phosphonate degradation. Environmental Microbiology, 2019, 21, 2402-2414.	3.8	73
48	Station ALOHA: A Gathering Place for Discovery, Education, and Scientific Collaboration. Limnology and Oceanography Bulletin, 2019, 28, 10-12.	0.4	11
49	The estimation of gross oxygen production and community respiration from autonomous timeâ€series measurements in the oligotrophic ocean. Limnology and Oceanography: Methods, 2019, 17, 650-664.	2.0	17
50	Approaches to Measuring Marine Primary Production. , 2019, , 484-491.		1
51	The ecological and biogeochemical state of the North Pacific Subtropical Gyre is linked to sea surface height. Journal of Marine Research, 2019, 77, 215-245.	0.3	29
52	Seasonal resource conditions favor a summertime increase in North Pacific diatomâ€“diazotroph associations. ISME Journal, 2018, 12, 1543-1557.	9.8	43
53	An intercomparison of oceanic methane and nitrous oxide measurements. Biogeosciences, 2018, 15, 5891-5907.	3.3	42
54	Dynamics of Prochlorococcus Diversity and Photoacclimation During Short-Term Shifts in Water Column Stratification at Station ALOHA. Frontiers in Marine Science, 2018, 5, .	2.5	17

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55	Spatial and Temporal Dynamics of Inorganic Phosphate and Adenosine-5â€²-Triphosphate in the North Pacific Ocean. Frontiers in Marine Science, 2018, 5, .	2.5	22
56	Carbonâ€Based Estimate of Nitrogen Fixationâ€Derived Net Community Production in Nâ€Depleted Ocean Gyres. Global Biogeochemical Cycles, 2018, 32, 1241-1252.	4.9	8
57	Production of methane and ethylene from plastic in the environment. PLoS ONE, 2018, 13, e0200574.	2.5	310
58	ALOHA From the Edge: Reconciling Three Decades of in Situ Eulerian Observations and Geographic Variability in the North Pacific Subtropical Gyre. Frontiers in Marine Science, 2018, 5, .	2.5	16
59	Phosphorus dynamics in biogeochemically distinct regions of the southeast subtropical Pacific Ocean. Progress in Oceanography, 2017, 151, 261-274.	3.2	24
60	Allochthonous sources and dynamic cycling of ocean dissolved organic carbon revealed by carbon isotopes. Geophysical Research Letters, 2017, 44, 2407-2415.	4.0	48
61	Interannual Variability of Methane and Nitrous Oxide in the North Pacific Subtropical Gyre. Geophysical Research Letters, 2017, 44, 9885-9892.	4.0	18
62	Environmental drivers of a microbial genomic transition zone in the oceanâ€™s interior. Nature Microbiology, 2017, 2, 1367-1373.	13.3	177
63	Coordinated regulation of growth, activity and transcription in natural populations of the unicellular nitrogen-fixing cyanobacterium Crocosphaera. Nature Microbiology, 2017, 2, 17118.	13.3	122
64	Light absorption by phytoplankton in the North Pacific Subtropical Gyre. Limnology and Oceanography, 2017, 62, 1526-1540.	3.1	35
65	Ecosystem Structure and Dynamics in the North Pacific Subtropical Gyre: New Views of an Old Ocean. Ecosystems, 2017, 20, 433-457.	3.4	90
66	Temporal variability of nitrogen fixation and particulate nitrogen export at Station ALOHA. Limnology and Oceanography, 2017, 62, 200-216.	3.1	110
67	Chemical microenvironments and single-cell carbon and nitrogen uptake in field-collected colonies of Trichodesmium under different pCO2. ISME Journal, 2017, 11, 1305-1317.	9.8	47
68	Productivity diagnosed from the diel cycle of particulate carbon in the North Pacific Subtropical Gyre. Geophysical Research Letters, 2017, 44, 3752-3760.	4.0	36
69	Dynamics of Prochlorococcus and Synechococcus at Station ALOHA Revealed through Flow Cytometry and High-Resolution Vertical Sampling. Frontiers in Marine Science, 2017, 4, .	2.5	44
70	The Importance of H in Particulate Organic Matter Stoichiometry, Export and Energy Flow. Frontiers in Microbiology, 2017, 8, 826.	3.5	7
71	Isolation and Characterization of Bacteria That Degrade Phosphonates in Marine Dissolved Organic Matter. Frontiers in Microbiology, 2017, 8, 1786.	3.5	49
72	Light-Enhanced Microbial Organic Carbon Yield. Frontiers in Microbiology, 2017, 8, 2157.	3.5	9

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73	Diversity and Activity of Communities Inhabiting Plastic Debris in the North Pacific Gyre. MSystems, 2016, 1, .	3.8	330
74	Application of membrane inlet mass spectrometry to measure aquatic gross primary production by the¹⁸O in vitro method. Limnology and Oceanography: Methods, 2016, 14, 610-622.	2.0	29
75	Polyphosphate dynamics at Station ALOHA, North Pacific subtropical gyre. Limnology and Oceanography, 2016, 61, 227-239.	3.1	39
76	Validation of Ti(III) as a reducing agent in the chemiluminescent determination of nitrate and nitrite in seawater. Marine Chemistry, 2016, 186, 83-89.	2.3	25
77	Adaptive Evolution of Phosphorus Metabolism in Prochlorococcus. MSystems, 2016, 1, .	3.8	19
78	Seasonal and longâ€term changes in elemental concentrations and ratios of marine particulate organic matter. Global Biogeochemical Cycles, 2016, 30, 1699-1711.	4.9	23
79	Marine methane paradox explained by bacterial degradation of dissolved organic matter. Nature Geoscience, 2016, 9, 884-887.	12.9	231
80	Variable depth distribution of Trichodesmium clades in the North Pacific Ocean. Environmental Microbiology Reports, 2016, 8, 1058-1066.	2.4	16
81	Diversity and productivity of photosynthetic picoeukaryotes in biogeochemically distinct regions of the <scp>S</scp>outh <scp>E</scp>ast <scp>P</scp>acific <scp>O</scp>cean. Limnology and Oceanography, 2016, 61, 806-824.	3.1	65
82	Wind and sunlight shape microbial diversity in surface waters of the North Pacific Subtropical Gyre. ISME Journal, 2016, 10, 1308-1322.	9.8	73
83	Metabolic balance in the mixed layer of the oligotrophic North Pacific Ocean from diel changes in O₂/Ar saturation ratios. Geophysical Research Letters, 2015, 42, 3421-3430.	4.0	27
84	Quantifying subtropical North Pacific gyre mixed layer primary productivity from Seaglider observations of diel oxygen cycles. Geophysical Research Letters, 2015, 42, 4032-4039.	4.0	39
85	Shortâ€term variability in euphotic zone biogeochemistry and primary productivity at Station ALOHA: A case study of summer 2012. Global Biogeochemical Cycles, 2015, 29, 1145-1164.	4.9	22
86	Phenology of particle size distributions and primary productivity in the <scp>N</scp>orth <scp>P</scp>acific subtropical gyre (<scp>S</scp>tation <scp>ALOHA</scp>). Journal of Geophysical Research: Oceans, 2015, 120, 7381-7399.	2.6	45
87	Variability in photosynthetic production of dissolved and particulate organic carbon in the North Pacific Subtropical Gyre. Frontiers in Marine Science, 2015, 2, .	2.5	21
88	Microbial community structure and function on sinking particles in the North Pacific Subtropical Gyre. Frontiers in Microbiology, 2015, 6, 469.	3.5	148
89	Differential Assimilation of Inorganic Carbon and Leucine by Prochlorococcus in the Oligotrophic North Pacific Subtropical Gyre. Frontiers in Microbiology, 2015, 6, 1401.	3.5	24
90	Environmental Properties of Coastal Waters in Mamala Bay, Oahu, Hawaii, at the Future Site of a Seawater Air Conditioning Outfall. Oceanography, 2015, 25, 230-239.	1.0	10

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91	Functional group-specific traits drive phytoplankton dynamics in the oligotrophic ocean. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5972-9.	7.1	118
92	Measurements of nitrogen fixation in the oligotrophic North Pacific Subtropical Gyre using a free-drifting submersible incubation device. Journal of Plankton Research, 2015, 37, 727-739.	1.8	18
93	Microbial respiration in the euphotic zone at Station ALOHA. Limnology and Oceanography, 2015, 60, 1039-1050.	3.1	17
94	Particle distributions and dynamics in the euphotic zone of the <scp>N</scp>orth <scp>P</scp>acific <scp>S</scp>ubtropical <scp>G</scp>yre. Journal of Geophysical Research: Oceans, 2015, 120, 3229-3247.	2.6	35
95	Substrate selection for heterotrophic bacterial growth in the sea. Marine Chemistry, 2015, 177, 349-356.	2.3	16
96	Dynamics of Dissolved Organic Phosphorus. , 2015, , 233-334.		59
97	The Contemporary Challenge of the Sea: Science, Society, and Sustainability. Oceanography, 2014, 27, 208-225.	1.0	4
98	Evaluation of the utility of xanthophyll cycle pigment dynamics for assessing upper ocean mixing processes at Station ALOHA. Journal of Plankton Research, 2014, 36, 1423-1433.	1.8	18
99	Increasing anthropogenic nitrogen in the North Pacific Ocean. Science, 2014, 346, 1102-1106.	12.6	174
100	Paired windward and leeward biogeochemical time series reveal consistent surface ocean CO₂ trends across the Hawaiian Ridge. Geophysical Research Letters, 2014, 41, 6459-6467.	4.0	5
101	Volume Editorsâ€™ Introduction. , 2014, , xxiii-xxvi.		2
102	Distinct dissolved organic matter sources induce rapid transcriptional responses in coexisting populations of <scp>P</scp>rochlorococcus, <scp>P</scp>elagibacter and the <scp>OM60</scp> clade. Environmental Microbiology, 2014, 16, 2815-2830.	3.8	47
103	Estimating the compensation irradiance in the ocean: The importance of accounting for non-photosynthetic uptake of inorganic carbon. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 93, 35-40.	1.4	25
104	Microbial oceanography and the Hawaii Ocean Time-series programme. Nature Reviews Microbiology, 2014, 12, 699-713.	28.6	183
105	Ecogenomic sensor reveals controls on N2-fixing microorganisms in the North Pacific Ocean. ISME Journal, 2014, 8, 1175-1185.	9.8	70
106	A role for nitrite in the production of nitrous oxide in the lower euphotic zone of the oligotrophic North Pacific Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 85, 47-55.	1.4	28
107	Microbially Mediated Transformations of Phosphorus in the Sea: New Views of an Old Cycle. Annual Review of Marine Science, 2014, 6, 279-337.	11.6	285
108	Experimental assessment of diazotroph responses to elevated seawater pCO₂ in the North Pacific Subtropical Gyre. Global Biogeochemical Cycles, 2014, 28, 601-616.	4.9	36

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109	Draft genome sequence of marine alphaproteobacterial strain HIMB11, the first cultivated representative of a unique lineage within the Roseobacter clade possessing an unusually small genome. Standards in Genomic Sciences, 2014, 9, 632-645.	1.5	40
110	Solar energy capture and transformation in the sea. Elementa, 2014, 2, .	3.2	15
111	Variability of chromophytic phytoplankton in the North Pacific Subtropical Gyre. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 93, 84-95.	1.4	21
112	Dissolved hydrogen and nitrogen fixation in the oligotrophic <scp>N</scp>orth <scp>P</scp>acific <scp>S</scp>ubtropical <scp>G</scp>yre. Environmental Microbiology Reports, 2013, 5, 697-704.	2.4	12
113	Relationship between Abundance and Specific Activity of Bacterioplankton in Open Ocean Surface Waters. Applied and Environmental Microbiology, 2013, 79, 177-184.	3.1	127
114	Physical and biological controls of nitrate concentrations in the upper subtropical North Pacific Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 93, 119-134.	1.4	39
115	Present and future global distributions of the marine Cyanobacteria Prochlorococcus and Synechococcus. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9824-9829.	7.1	1,097
116	Metatranscriptomic and functional metagenomic analysis of methylphosphonate utilization by marine bacteria. Frontiers in Microbiology, 2013, 4, 340.	3.5	63
117	Dissolved hydrogen and nitrogen fixation in the oligotrophic North Pacific Subtropical Gyre. Environmental Microbiology Reports, 2013, 5, 697-704.	2.4	5
118	Bacterial Dimethylsulfoniopropionate Degradation Genes in the Oligotrophic North Pacific Subtropical Gyre. Applied and Environmental Microbiology, 2012, 78, 2775-2782.	3.1	39
119	Predictable and efficient carbon sequestration in the North Pacific Ocean supported by symbiotic nitrogen fixation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1842-1849.	7.1	258
120	Comparative Assessment of Nitrogen Fixation Methodologies, Conducted in the Oligotrophic North Pacific Ocean. Applied and Environmental Microbiology, 2012, 78, 6516-6523.	3.1	155
121	Multiple B-vitamin depletion in large areas of the coastal ocean. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14041-14045.	7.1	188
122	Does eddyâ€eddy interaction control surface phytoplankton distribution and carbon export in the North Pacific Subtropical Gyre?. Journal of Geophysical Research, 2012, 117, .	3.3	80
123	Evaluating triple oxygen isotope estimates of gross primary production at the Hawaii Ocean Timeâ€series and Bermuda Atlantic Timeâ€series Study sites. Journal of Geophysical Research, 2012, 117, .	3.3	43
124	Interannual variability of primary production and dissolved organic nitrogen storage in the North Pacific Subtropical Gyre. Journal of Geophysical Research, 2012, 117, .	3.3	16
125	Microbial Group Specific Uptake Kinetics of Inorganic Phosphate and Adenosine-5â€²-Triphosphate (ATP) in the North Pacific Subtropical Gyre. Frontiers in Microbiology, 2012, 3, 189.	3.5	42
126	NITROGEN FIXATION, HYDROGEN CYCLING, AND ELECTRON TRANSPORT KINETICS IN TRICHODESMIUM ERYTHRAEUM (CYANOBACTERIA) STRAIN IMS101¹. Journal of Phycology, 2012, 48, 595-606.	2.3	21

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127	Shifts in biogenic carbon flow from particulate to dissolved forms under high carbon dioxide and warm ocean conditions. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	70
128	The annual silica cycle of the North Pacific subtropical gyre. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 988-1001.	1.4	55
129	ALOHA cabled observatory installation. , 2011, , .		17
130	Draft genome sequence of strain HIMB100, a cultured representative of the SAR116 clade of marine Alphaproteobacteria. Standards in Genomic Sciences, 2011, 5, 269-278.	1.5	27
131	Will ocean acidification affect marine microbes?. ISME Journal, 2011, 5, 1-7.	9.8	200
132	Weaving marine food webs from end to end under global change. Journal of Marine Systems, 2011, 84, 106-116.	2.1	45
133	Characterization of alkaline phosphatase activity in the North and South Pacific Subtropical Gyres: Implications for phosphorus cycling. Limnology and Oceanography, 2011, 56, 1244-1254.	3.1	68
134	Alkaline phosphatase activity and regulation in the North Pacific Subtropical Gyre. Limnology and Oceanography, 2010, 55, 1414-1425.	3.1	132
135	The Underwater Vision Profiler 5: An advanced instrument for high spatial resolution studies of particle size spectra and zooplankton. Limnology and Oceanography: Methods, 2010, 8, 462-473.	2.0	255
136	Vitamin B₁₂ excretion by cultures of the marine cyanobacteria Crocosphaera and Synechococcus. Limnology and Oceanography, 2010, 55, 1959-1964.	3.1	107
137	Nitrate supply from deep to near-surface waters of the North Pacific subtropical gyre. Nature, 2010, 465, 1062-1065.	27.8	225
138	Abundances of crenarchaeal amoA genes and transcripts in the Pacific Ocean. Environmental Microbiology, 2010, 12, 679-688.	3.8	209
139	Oceanic Ecosystem Time-Series Programs: Ten Lessons Learned. Oceanography, 2010, 23, 104-125.	1.0	32
140	Hydrogen Cycling by the Unicellular Marine Diazotroph Crocosphaera watsonii Strain WH8501. Applied and Environmental Microbiology, 2010, 76, 6797-6803.	3.1	22
141	Challenges of modeling depthâ€integrated marine primary productivity over multiple decades: A case study at BATS and HOT. Global Biogeochemical Cycles, 2010, 24, .	4.9	150
142	An Open Ocean Trial of Controlled Upwelling Using Wave Pump Technology. Journal of Atmospheric and Oceanic Technology, 2010, 27, 385-396.	1.3	42
143	IV.9 Seascape Microbial Ecology: Habitat Structure, Biodiversity, and Ecosystem Function. , 2009, , 488-500.		3
144	The NOPP O-SCOPE and MOSEAN Projects: Advanced Sensing for Ocean Observing Systems. Oceanography, 2009, 22, 168-181.	1.0	35

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145	Physical and biogeochemical modulation of ocean acidification in the central North Pacific. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12235-12240.	7.1	440
146	Comparative Metagenomic Analysis of a Microbial Community Residing at a Depth of 4,000 Meters at Station ALOHA in the North Pacific Subtropical Gyre. Applied and Environmental Microbiology, 2009, 75, 5345-5355.	3.1	203
147	Phytoplankton in the ocean use non-phosphorus lipids in response to phosphorus scarcity. Nature, 2009, 458, 69-72.	27.8	662
148	Microbial oceanography in a sea of opportunity. Nature, 2009, 459, 180-184.	27.8	79
149	Dynamics of the SAR11 bacterioplankton lineage in relation to environmental conditions in the oligotrophic North Pacific subtropical gyre. Environmental Microbiology, 2009, 11, 2291-2300.	3.8	82
150	Export stoichiometry and migrant-mediated flux of phosphorus in the North Pacific Subtropical Gyre. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 73-88.	1.4	66
151	The dual isotopes of deep nitrate as a constraint on the cycle and budget of oceanic fixed nitrogen. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 1419-1439.	1.4	177
152	The relationship between dissolved hydrogen and nitrogen fixation in ocean waters. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 1449-1458.	1.4	30
153	Physical forcing of nitrogen fixation and diazotroph community structure in the North Pacific subtropical gyre. Global Biogeochemical Cycles, 2009, 23, .	4.9	200
154	Sinking organic matter spreads the nitrogen isotope signal of pelagic denitrification in the North Pacific. Geophysical Research Letters, 2009, 36, .	4.0	66
155	Metagenomic potential of microbial assemblages in the surface waters of the central Pacific Ocean tracks variability in oceanic habitat. Limnology and Oceanography, 2009, 54, 1981-1994.	3.1	46
156	Nitrogen fixation in an anticyclonic eddy in the oligotrophic North Pacific Ocean. ISME Journal, 2008, 2, 663-676.	9.8	137
157	Aerobic production of methane in the sea. Nature Geoscience, 2008, 1, 473-478.	12.9	450
158	Summer phytoplankton blooms in the oligotrophic North Pacific Subtropical Gyre: Historical perspective and recent observations. Progress in Oceanography, 2008, 76, 2-38.	3.2	181
159	Particle export from the upper ocean over the continental shelf of the west Antarctic Peninsula: A long-term record, 1992â€“2007. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 2118-2131.	1.4	56
160	Primary production and implications for metabolic balance in Hawaiian lee eddies. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1300-1309.	1.4	11
161	The transient oasis: Nutrient-phytoplankton dynamics and particle export in Hawaiian lee cyclones. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1275-1290.	1.4	74
162	Nitrogen dynamics within a wind-driven eddy. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1398-1411.	1.4	28

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163	Ocean Iron Fertilization–Moving Forward in a Sea of Uncertainty. Science, 2008, 319, 162-162.	12.6	156
164	Regional distributions of nitrogenâ€fixing bacteria in the Pacific Ocean. Limnology and Oceanography, 2008, 53, 63-77.	3.1	154
165	Bacterial vs. zooplankton control of sinking particle flux in the ocean's twilight zone. Limnology and Oceanography, 2008, 53, 1327-1338.	3.1	350
166	Temporal and vertical variability in photosynthesis in the North Pacific Subtropical Gyre. Limnology and Oceanography, 2008, 53, 1252-1265.	3.1	14
167	The Nitrogen Cycle in the North Pacific Trades Biome. , 2008, , 705-769.		35
168	Revisiting Carbon Flux Through the Ocean's Twilight Zone. Science, 2007, 316, 567-570.	12.6	547
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