

David M Karl

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

311 papers	27,384 citations	84 h-index	158 g-index
331 ext. papers	31,876 ext. citations	8.8 avg, IF	7.08 L-index

#	Paper	IF	Citations
311	Overlooked and widespread pennate diatom-diazotroph symbioses in the sea.. <i>Nature Communications</i> , 2022 , 13, 799	17.4	2
310	Microbial Sources of Exocellular DNA in the Ocean.. <i>Applied and Environmental Microbiology</i> , 2022 , e0209321	11.1	0
309	Viruses affect picocyanobacterial abundance and biogeography in the North Pacific Ocean.. <i>Nature Microbiology</i> , 2022 , 7, 570-580	26.6	1
308	Microbes and Climate Change: a Research Prospectus for the Future.. <i>MBio</i> , 2022 , e0080022	7.8	6
307	Temporal dynamics of total microbial biomass and particulate detritus at Station ALOHA. <i>Progress in Oceanography</i> , 2022 , 102803	3.8	1
306	Iron Depletion in the Deep Chlorophyll Maximum: Mesoscale Eddies as Natural Iron Fertilization Experiments. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2021GB007112	5.9	2
305	Euphotic Zone Metabolism in the North Pacific Subtropical Gyre Based on Oxygen Dynamics. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006744	5.9	2
304	Evaluation of argon-induced hydrogen production as a method to measure nitrogen fixation by cyanobacteria. <i>Journal of Phycology</i> , 2021 , 57, 863-873	3	3
303	Open Ocean Particle Flux Variability From Surface to Seafloor. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092895	4.9	2
302	Seasonal-to-decadal scale variability in primary production and particulate matter export at Station ALOHA. <i>Progress in Oceanography</i> , 2021 , 195, 102563	3.8	11
301	A method for characterizing dissolved DNA and its application to the North Pacific Subtropical Gyre. <i>Limnology and Oceanography: Methods</i> , 2021 , 19, 210-221	2.6	3
300	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,	11.5	15
299	Sustaining Long-Term Ecological Research: Perspectives from Inside the LTER Program. <i>Archimedes</i> , 2021 , 81-116	0.1	
298	A system of coordinated autonomous robots for Lagrangian studies of microbes in the oceanic deep chlorophyll maximum. <i>Science Robotics</i> , 2021 , 6,	18.6	6
297	Constraining growth rates and the ratio of living to nonliving particulate carbon using beam attenuation and adenosine-5'-triphosphate at Station ALOHA. <i>Limnology and Oceanography Letters</i> , 2021 , 6, 243-252	7.9	1
296	Phosphate Scavenging During Lava-Seawater Interaction Offshore of Kilauea Volcano, Hawaii. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC009754	3.6	
295	Production and diversity of microorganisms associated with sinking particles in the subtropical North Pacific Ocean. <i>Limnology and Oceanography</i> , 2021 , 66, 3255-3270	4.8	2

294	Light and depth dependency of nitrogen fixation by the non-photosynthetic, symbiotic cyanobacterium UCYN-A. <i>Environmental Microbiology</i> , 2021 , 23, 4518-4531	5.2	2
293	Microbial community transcriptional patterns vary in response to mesoscale forcing in the North Pacific Subtropical Gyre. <i>Environmental Microbiology</i> , 2021 , 23, 4807-4822	5.2	1
292	A sensitive fluorescent assay for measuring carbon-phosphorus lyase activity in aquatic systems. <i>Limnology and Oceanography: Methods</i> , 2021 , 19, 235-244	2.6	
291	Phosphonate cycling supports methane and ethylene supersaturation in the phosphate-depleted western North Atlantic Ocean. <i>Limnology and Oceanography</i> , 2020 , 65, 2443-2459	4.8	10
290	Metal isotope signatures from lava-seawater interaction during the 2018 eruption of Kilauea. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 282, 340-356	5.5	9
289	Life and death of Crocosphaera sp. in the Pacific Ocean: Fine scale predator-prey dynamics. <i>Limnology and Oceanography</i> , 2020 , 65, 2603-2617	4.8	9
288	Latitudinal constraints on the abundance and activity of the cyanobacterium UCYN-A and other marine diazotrophs in the North Pacific. <i>Limnology and Oceanography</i> , 2020 , 65, 1858-1875	4.8	16
287	Diel variability of bulk optical properties associated with the growth and division of small phytoplankton in the North Pacific Subtropical Gyre. <i>Applied Optics</i> , 2020 , 59, 6702-6716	1.7	5
286	Distinct nitrogen cycling and steep chemical gradients in Trichodesmium colonies. <i>ISME Journal</i> , 2020 , 14, 399-412	11.9	9
285	The Importance of the Phytoplankton Middle Class to Ocean Net Community Production. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006702	5.9	9
284	Anthropogenic Asian aerosols provide Fe to the North Pacific Ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27862-27868	11.5	23
283	. <i>IEEE Journal of Oceanic Engineering</i> , 2020 , 45, 1308-1321	3.3	10
282	Kilauea lava fuels phytoplankton bloom in the North Pacific Ocean. <i>Science</i> , 2019 , 365, 1040-1044	33.3	17
281	Biogeochemical controls of surface ocean phosphate. <i>Science Advances</i> , 2019 , 5, eaax0341	14.3	43
280	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	11.5	69
279	Climate-driven oscillation of phosphorus and iron limitation in the North Pacific Subtropical Gyre. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12720-12728	11.5	26
278	Scientists' warning to humanity: microorganisms and climate change. <i>Nature Reviews Microbiology</i> , 2019 , 17, 569-586	22.2	516
277	Methylphosphonate Oxidation in Strain MIT9301 Supports Phosphate Acquisition, Formate Excretion, and Carbon Assimilation into Purines. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	13

276	Coupling carbon and energy fluxes in the North Pacific Subtropical Gyre. <i>Nature Communications</i> , 2019 , 10, 1895	17.4	28
275	Improved ultraviolet photo-oxidation system yields estimates for deep-sea dissolved organic nitrogen and phosphorus. <i>Limnology and Oceanography: Methods</i> , 2019 , 17, 277-291	2.6	11
274	Size dependence of metabolism within marine picoplankton populations. <i>Limnology and Oceanography</i> , 2019 , 64, 1819-1827	4.8	8
273	Phosphate-limited ocean regions select for bacterial populations enriched in the carbon-phosphorus lyase pathway for phosphonate degradation. <i>Environmental Microbiology</i> , 2019 , 21, 2402-2414	5.2	34
272	Station ALOHA: A Gathering Place for Discovery, Education, and Scientific Collaboration. <i>Limnology and Oceanography Bulletin</i> , 2019 , 28, 10-12	0.9	7
271	Ocean Time Series Observations of Changing Marine Ecosystems: An Era of Integration, Synthesis, and Societal Applications. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	17
270	Monitoring Microbial Communities in the Marine Environment. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019 , 95, 717-721	4.6	2
269	Validation of the in vivo Iodo-Nitro-Tetrazolium (INT) Salt Reduction Method as a Proxy for Plankton Respiration. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	5
268	The ecological and biogeochemical state of the North Pacific Subtropical Gyre is linked to sea surface height. <i>Journal of Marine Research</i> , 2019 , 77, 215-245	1.5	16
267	The estimation of gross oxygen production and community respiration from autonomous time-series measurements in the oligotrophic ocean. <i>Limnology and Oceanography: Methods</i> , 2019 , 17, 650-664	2.6	10
266	Approaches to Measuring Marine Primary Production 2019 , 484-491		0
265	Seasonal resource conditions favor a summertime increase in North Pacific diatom-diazotroph associations. <i>ISME Journal</i> , 2018 , 12, 1543-1557	11.9	23
264	Carbon-Based Estimate of Nitrogen Fixation-Derived Net Community Production in N-Depleted Ocean Gyres. <i>Global Biogeochemical Cycles</i> , 2018 , 32, 1241-1252	5.9	8
263	Production of methane and ethylene from plastic in the environment. <i>PLoS ONE</i> , 2018 , 13, e0200574	3.7	165
262	ALOHA From the Edge: Reconciling Three Decades of in Situ Eulerian Observations and Geographic Variability in the North Pacific Subtropical Gyre. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	10
261	An intercomparison of oceanic methane and nitrous oxide measurements. <i>Biogeosciences</i> , 2018 , 15, 5891-5907	1.5	25
260	Dynamics of Prochlorococcus Diversity and Photoacclimation During Short-Term Shifts in Water Column Stratification at Station ALOHA. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	9
259	Spatial and Temporal Dynamics of Inorganic Phosphate and Adenosine-5'-Triphosphate in the North Pacific Ocean. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	12

258	Phosphorus dynamics in biogeochemically distinct regions of the southeast subtropical Pacific Ocean. <i>Progress in Oceanography</i> , 2017 , 151, 261-274	3.8	10
257	Allochthonous sources and dynamic cycling of ocean dissolved organic carbon revealed by carbon isotopes. <i>Geophysical Research Letters</i> , 2017 , 44, 2407-2415	4.9	35
256	Interannual Variability of Methane and Nitrous Oxide in the North Pacific Subtropical Gyre. <i>Geophysical Research Letters</i> , 2017 , 44, 9885-9892	4.9	16
255	Environmental drivers of a microbial genomic transition zone in the ocean's interior. <i>Nature Microbiology</i> , 2017 , 2, 1367-1373	26.6	91
254	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	26.6	66
253	Light absorption by phytoplankton in the North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , 2017 , 62, 1526-1540	4.8	21
252	Ecosystem Structure and Dynamics in the North Pacific Subtropical Gyre: New Views of an Old Ocean. <i>Ecosystems</i> , 2017 , 20, 433-457	3.9	49
251	Temporal variability of nitrogen fixation and particulate nitrogen export at Station ALOHA. <i>Limnology and Oceanography</i> , 2017 , 62, 200-216	4.8	71
250	Chemical microenvironments and single-cell carbon and nitrogen uptake in field-collected colonies of <i>Trichodesmium</i> under different pCO ₂ . <i>ISME Journal</i> , 2017 , 11, 1305-1317	11.9	32
249	Productivity diagnosed from the diel cycle of particulate carbon in the North Pacific Subtropical Gyre. <i>Geophysical Research Letters</i> , 2017 , 44, 3752-3760	4.9	24
248	Dynamics of <i>Prochlorococcus</i> and <i>Synechococcus</i> at Station ALOHA Revealed through Flow Cytometry and High-Resolution Vertical Sampling. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	18
247	The Importance of H in Particulate Organic Matter Stoichiometry, Export and Energy Flow. <i>Frontiers in Microbiology</i> , 2017 , 8, 826	5.7	5
246	Isolation and Characterization of Bacteria That Degrade Phosphonates in Marine Dissolved Organic Matter. <i>Frontiers in Microbiology</i> , 2017 , 8, 1786	5.7	26
245	Light-Enhanced Microbial Organic Carbon Yield. <i>Frontiers in Microbiology</i> , 2017 , 8, 2157	5.7	5
244	Validation of Ti(III) as a reducing agent in the chemiluminescent determination of nitrate and nitrite in seawater. <i>Marine Chemistry</i> , 2016 , 186, 83-89	3.7	18
243	Adaptive Evolution of Phosphorus Metabolism in. <i>MSystems</i> , 2016 , 1,	7.6	13
242	Seasonal and long-term changes in elemental concentrations and ratios of marine particulate organic matter. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 1699-1711	5.9	16
241	Marine methane paradox explained by bacterial degradation of dissolved organic matter. <i>Nature Geoscience</i> , 2016 , 9, 884-887	18.3	140

240	Variable depth distribution of Trichodesmium clades in the North Pacific Ocean. <i>Environmental Microbiology Reports</i> , 2016 , 8, 1058-1066	3.7	10
239	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	4.8	45
238	Wind and sunlight shape microbial diversity in surface waters of the North Pacific Subtropical Gyre. <i>ISME Journal</i> , 2016 , 10, 1308-22	11.9	48
237	Diversity and Activity of Communities Inhabiting Plastic Debris in the North Pacific Gyre. <i>MSystems</i> , 2016 , 1,	7.6	191
236	Application of membrane inlet mass spectrometry to measure aquatic gross primary production by the 18O in vitro method. <i>Limnology and Oceanography: Methods</i> , 2016 , 14, 610-622	2.6	19
235	Polyphosphate dynamics at Station ALOHA, North Pacific subtropical gyre. <i>Limnology and Oceanography</i> , 2016 , 61, 227-239	4.8	24
234	Measurements of nitrogen fixation in the oligotrophic North Pacific Subtropical Gyre using a free-drifting submersible incubation device. <i>Journal of Plankton Research</i> , 2015 , 37, 727-739	2.2	15
233	Microbial respiration in the euphotic zone at Station ALOHA. <i>Limnology and Oceanography</i> , 2015 , 60, 1039-1050	4.8	11
232	Particle distributions and dynamics in the euphotic zone of the North Pacific Subtropical Gyre. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 3229-3247	3.3	22
231	Substrate selection for heterotrophic bacterial growth in the sea. <i>Marine Chemistry</i> , 2015 , 177, 349-356	3.7	6
230	Dynamics of Dissolved Organic Phosphorus 2015 , 233-334		41
229	Metabolic balance in the mixed layer of the oligotrophic North Pacific Ocean from diel changes in O ₂ /Ar saturation ratios. <i>Geophysical Research Letters</i> , 2015 , 42, 3421-3430	4.9	23
228	Quantifying subtropical North Pacific gyre mixed layer primary productivity from Seaglider observations of diel oxygen cycles. <i>Geophysical Research Letters</i> , 2015 , 42, 4032-4039	4.9	33
227	Short-term variability in euphotic zone biogeochemistry and primary productivity at Station ALOHA: A case study of summer 2012. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 1145-1164	5.9	18
226	Phenology of particle size distributions and primary productivity in the North Pacific subtropical gyre (Station ALOHA). <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 7381-7399	3.3	25
225	Variability in photosynthetic production of dissolved and particulate organic carbon in the North Pacific Subtropical Gyre. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	15
224	Microbial community structure and function on sinking particles in the North Pacific Subtropical Gyre. <i>Frontiers in Microbiology</i> , 2015 , 6, 469	5.7	96
223	Differential Assimilation of Inorganic Carbon and Leucine by Prochlorococcus in the Oligotrophic North Pacific Subtropical Gyre. <i>Frontiers in Microbiology</i> , 2015 , 6, 1401	5.7	17

222	Environmental Properties of Coastal Waters in Mamala Bay, Oahu, Hawaii, at the Future Site of a Seawater Air Conditioning Outfall. <i>Oceanography</i> , 2015 , 25, 230-239	2.3	8
221	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	11.5	83
220	Estimating the compensation irradiance in the ocean: The importance of accounting for non-photosynthetic uptake of inorganic carbon. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014 , 93, 35-40	2.5	22
219	Microbial oceanography and the Hawaii Ocean Time-series programme. <i>Nature Reviews Microbiology</i> , 2014 , 12, 699-713	22.2	114
218	Ecogenomic sensor reveals controls on N ₂ -fixing microorganisms in the North Pacific Ocean. <i>ISME Journal</i> , 2014 , 8, 1175-85	11.9	56
217	A role for nitrite in the production of nitrous oxide in the lower euphotic zone of the oligotrophic North Pacific Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014 , 85, 47-55	2.5	21
216	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	15.4	187
215	Experimental assessment of diazotroph responses to elevated seawater pCO ₂ in the North Pacific Subtropical Gyre. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 601-616	5.9	29
214	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. <i>Standards in Genomic Sciences</i> , 2014 , 9, 632-45		24
213	The Contemporary Challenge of the Sea: Science, Society, and Sustainability. <i>Oceanography</i> , 2014 , 27, 208-225	2.3	4
212	Evaluation of the utility of xanthophyll cycle pigment dynamics for assessing upper ocean mixing processes at Station ALOHA. <i>Journal of Plankton Research</i> , 2014 , 36, 1423-1433	2.2	12
211	Chemical oceanography. Increasing anthropogenic nitrogen in the North Pacific Ocean. <i>Science</i> , 2014 , 346, 1102-6	33.3	132
210	Paired windward and leeward biogeochemical time series reveal consistent surface ocean CO ₂ trends across the Hawaiian Ridge. <i>Geophysical Research Letters</i> , 2014 , 41, 6459-6467	4.9	3
209	Distinct dissolved organic matter sources induce rapid transcriptional responses in coexisting populations of <i>Prochlorococcus</i> , <i>Pelagibacter</i> and the OM60 clade. <i>Environmental Microbiology</i> , 2014 , 16, 2815-30	5.2	35
208	Solar energy capture and transformation in the sea. <i>Elementa</i> , 2014 , 2,	3.6	13
207	Variability of chromophytic phytoplankton in the North Pacific Subtropical Gyre. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013 , 93, 84-95	2.3	16
206	Dissolved hydrogen and nitrogen fixation in the oligotrophic North Pacific Subtropical Gyre. <i>Environmental Microbiology Reports</i> , 2013 , 5, 697-704	3.7	9
205	Relationship between abundance and specific activity of bacterioplankton in open ocean surface waters. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 177-84	4.8	102

204	Physical and biological controls of nitrate concentrations in the upper subtropical North Pacific Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013 , 93, 119-134	2.3	33
203	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, 9824-9	11.5	727
202	Metatranscriptomic and functional metagenomic analysis of methylphosphonate utilization by marine bacteria. <i>Frontiers in Microbiology</i> , 2013 , 4, 340	5.7	38
201	Workshop Report: Major Bioelements. <i>Geophysical Monograph Series</i> , 2013 , 33-42	1.1	2
200	Dissolved hydrogen and nitrogen fixation in the oligotrophic North Pacific Subtropical Gyre. <i>Environmental Microbiology Reports</i> , 2013 , 5, 697-704	3.7	4
199	NITROGEN FIXATION, HYDROGEN CYCLING, AND ELECTRON TRANSPORT KINETICS IN TRICHODESMIUM ERYTHRAEUM (CYANOBACTERIA) STRAIN IMS101(1). <i>Journal of Phycology</i> , 2012 , 48, 595-606	3	16
198	Does eddy-eddy interaction control surface phytoplankton distribution and carbon export in the North Pacific Subtropical Gyre?. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		52
197	Evaluating triple oxygen isotope estimates of gross primary production at the Hawaii Ocean Time-series and Bermuda Atlantic Time-series Study sites. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		40
196	Interannual variability of primary production and dissolved organic nitrogen storage in the North Pacific Subtropical Gyre. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		9
195	Microbial group specific uptake kinetics of inorganic phosphate and adenosine-5'-triphosphate (ATP) in the north pacific subtropical gyre. <i>Frontiers in Microbiology</i> , 2012 , 3, 189	5.7	30
194	Bacterial dimethylsulfoniopropionate degradation genes in the oligotrophic north pacific subtropical gyre. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 2775-82	4.8	29
193	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, 1842-9	11.5	202
192	Comparative assessment of nitrogen fixation methodologies, conducted in the oligotrophic North Pacific Ocean. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 6516-23	4.8	131
191	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, 14041-5	11.5	127
190	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	4.9	59
189	The annual silica cycle of the North Pacific subtropical gyre. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2011 , 58, 988-1001	2.5	44
188	ALOHA cabled observatory installation 2011 ,		8
187	Draft genome sequence of strain HIMB100, a cultured representative of the SAR116 clade of marine Alphaproteobacteria. <i>Standards in Genomic Sciences</i> , 2011 , 5, 269-78		20

186	Will ocean acidification affect marine microbes?. <i>ISME Journal</i> , 2011 , 5, 1-7	11.9	167
185	Weaving marine food webs from end to end under global change. <i>Journal of Marine Systems</i> , 2011 , 84, 106-116	2.7	35
184	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	4.8	48
183	Nitrate supply from deep to near-surface waters of the North Pacific subtropical gyre. <i>Nature</i> , 2010 , 465, 1062-5	50.4	171
182	Abundances of crenarchaeal amoA genes and transcripts in the Pacific Ocean. <i>Environmental Microbiology</i> , 2010 , 12, 679-88	5.2	162
181	Oceanic Ecosystem Time-Series Programs: Ten Lessons Learned. <i>Oceanography</i> , 2010 , 23, 104-125	2.3	20
180	Hydrogen cycling by the unicellular marine diazotroph <i>Crocospaera watsonii</i> strain WH8501. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 6797-803	4.8	19
179	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, n/a-n/a	5.9	122
178	An Open Ocean Trial of Controlled Upwelling Using Wave Pump Technology. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010 , 27, 385-396	2	32
177	Alkaline phosphatase activity and regulation in the North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , 2010 , 55, 1414-1425	4.8	98
176	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	2.6	170
175	Vitamin B12 excretion by cultures of the marine cyanobacteria <i>Crocospaera</i> and <i>Synechococcus</i> . <i>Limnology and Oceanography</i> , 2010 , 55, 1959-1964	4.8	65
174	The NOPP O-SCOPE and MOSEAN Projects: Advanced Sensing for Ocean Observing Systems. <i>Oceanography</i> , 2009 , 22, 168-181	2.3	33
173	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, 12235-40	11.5	360
172	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, 5345-55	4.8	170
171	Phytoplankton in the ocean use non-phosphorus lipids in response to phosphorus scarcity. <i>Nature</i> , 2009 , 458, 69-72	50.4	528
170	Microbial oceanography in a sea of opportunity. <i>Nature</i> , 2009 , 459, 180-4	50.4	72
169	Dynamics of the SAR11 bacterioplankton lineage in relation to environmental conditions in the oligotrophic North Pacific subtropical gyre. <i>Environmental Microbiology</i> , 2009 , 11, 2291-300	5.2	68

168	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	2.5	49
167	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	2.5	135
166	The relationship between dissolved hydrogen and nitrogen fixation in ocean waters. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009 , 56, 1449-1458	2.5	21
165	Physical forcing of nitrogen fixation and diazotroph community structure in the North Pacific subtropical gyre. <i>Global Biogeochemical Cycles</i> , 2009 , 23, n/a-n/a	5.9	150
164	Sinking organic matter spreads the nitrogen isotope signal of pelagic denitrification in the North Pacific. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	58
163	Metagenomic potential of microbial assemblages in the surface waters of the central Pacific Ocean tracks variability in oceanic habitat. <i>Limnology and Oceanography</i> , 2009 , 54, 1981-1994	4.8	33
162	IV.9 Seascape Microbial Ecology: Habitat Structure, Biodiversity, and Ecosystem Function 2009 , 488-500		3
161	Nitrogen fixation in an anticyclonic eddy in the oligotrophic North Pacific Ocean. <i>ISME Journal</i> , 2008 , 2, 663-76	11.9	104
160	Aerobic production of methane in the sea. <i>Nature Geoscience</i> , 2008 , 1, 473-478	18.3	353
159	Summer phytoplankton blooms in the oligotrophic North Pacific Subtropical Gyre: Historical perspective and recent observations. <i>Progress in Oceanography</i> , 2008 , 76, 2-38	3.8	148
158	Particle export from the upper ocean over the continental shelf of the west Antarctic Peninsula: A long-term record, 1992-2007. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008 , 55, 2118-2131	2.3	45
157	Primary production and implications for metabolic balance in Hawaiian lee eddies. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008 , 55, 1300-1309	2.3	10
156	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	2.3	57
155	Nitrogen dynamics within a wind-driven eddy. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008 , 55, 1398-1411	2.3	25
154	Environment. Ocean iron fertilization--moving forward in a sea of uncertainty. <i>Science</i> , 2008 , 319, 162	33.3	120
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