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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	The Sorcerer II Global Ocean Sampling expedition: northwest Atlantic through eastern tropical Pacific. <i>PLoS Biology</i> , 2007 , 5, e77	9.7	1476
310	VERTEX: carbon cycling in the northeast Pacific. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1987 , 34, 267-285		1411
309	Archaeal dominance in the mesopelagic zone of the Pacific Ocean. <i>Nature</i> , 2001 , 409, 507-10	50.4	1134
308	Community genomics among stratified microbial assemblages in the ocean's interior. <i>Science</i> , 2006 , 311, 496-503	33.3	1055
307	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
306	Phosphate depletion in the western North Atlantic Ocean. <i>Science</i> , 2000 , 289, 759-62	33.3	588
305	Unicellular cyanobacteria fix N ₂ in the subtropical North Pacific Ocean. <i>Nature</i> , 2001 , 412, 635-8	50.4	574
304	Phytoplankton in the ocean use non-phosphorus lipids in response to phosphorus scarcity. <i>Nature</i> , 2009 , 458, 69-72	50.4	528
303	Scientists' warning to humanity: microorganisms and climate change. <i>Nature Reviews Microbiology</i> , 2019 , 17, 569-586	22.2	516
302	Revisiting carbon flux through the ocean's twilight zone. <i>Science</i> , 2007 , 316, 567-70	33.3	449
301	Quantitative distribution of presumptive archaeal and bacterial nitrifiers in Monterey Bay and the North Pacific Subtropical Gyre. <i>Environmental Microbiology</i> , 2007 , 9, 1162-75	5.2	396
300	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
299	Aerobic production of methane in the sea. <i>Nature Geoscience</i> , 2008 , 1, 473-478	18.3	353
298	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	2.3	336
297	Primary production, new production and vertical flux in the eastern Pacific Ocean. <i>Nature</i> , 1987 , 325, 803-804	50.4	307
296	MAGIC: A sensitive and precise method for measuring dissolved phosphorus in aquatic environments. <i>Limnology and Oceanography</i> , 1992 , 37, 105-116	4.8	297
295	A Sea of Change: Biogeochemical Variability in the North Pacific Subtropical Gyre. <i>Ecosystems</i> , 1999 , 2, 181-214	3.9	281

294	Elevated consumption of carbon relative to nitrogen in the surface ocean. <i>Nature</i> , 1993 , 363, 248-250	50.4	276
293	Reduced mixing generates oscillations and chaos in the oceanic deep chlorophyll maximum. <i>Nature</i> , 2006 , 439, 322-5	50.4	261
292	Introduction to "A Sea of Microbes" Special Issue. <i>Oceanography</i> , 2007 , 20, 14-15	2.3	256
291	Bacterial vs. zooplankton control of sinking particle flux in the ocean's twilight zone. <i>Limnology and Oceanography</i> , 2008 , 53, 1327-1338	4.8	252
290	Downward flux of particulate organic matter in the ocean: a particle decomposition paradox. <i>Nature</i> , 1988 , 332, 438-441	50.4	232
289	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, 12830-5	11.5	222
288	Temporal patterns of nitrogenase gene (nifH) expression in the oligotrophic North Pacific Ocean. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 5362-70	4.8	219
287	Ecological nitrogen-to-phosphorus stoichiometry at station ALOHA. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001 , 48, 1529-1566	2.3	212
286	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
285	Genomic perspectives in microbial oceanography. <i>Nature</i> , 2005 , 437, 336-42	50.4	191
284	Diversity and Activity of Communities Inhabiting Plastic Debris in the North Pacific Gyre. <i>MSystems</i> , 2016 , 1,	7.6	191
283	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	4.8	190
282	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
281	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	4.8	184
280	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	4.8	182
279	Nitrate supply from deep to near-surface waters of the North Pacific subtropical gyre. <i>Nature</i> , 2010 , 465, 1062-5	50.4	171
278	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
277	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

276	Production and transport of methane in oceanic particulate organic matter. <i>Nature</i> , 1994 , 368, 732-734	50.4	170
275	Will ocean acidification affect marine microbes?. <i>ISME Journal</i> , 2011 , 5, 1-7	11.9	167
274	A large source of atmospheric nitrous oxide from subtropical North Pacific surface waters. <i>Nature</i> , 1998 , 396, 63-66	50.4	166
273	Production of methane and ethylene from plastic in the environment. <i>PLoS ONE</i> , 2018 , 13, e0200574	3.7	165
272	Abundances of crenarchaeal amoA genes and transcripts in the Pacific Ocean. <i>Environmental Microbiology</i> , 2010 , 12, 679-88	5.2	162
271	Abundance and distribution of planktonic Archaea and Bacteria in the waters west of the Antarctic Peninsula. <i>Limnology and Oceanography</i> , 2003 , 48, 1893-1902	4.8	162
270	Dissolved inorganic phosphorus, dissolved iron, and Trichodesmium in the oligotrophic South China Sea. <i>Global Biogeochemical Cycles</i> , 2003 , 17, 8-18-10	5.9	156
269	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
268	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	4.8	150
267	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
266	Marine methane paradox explained by bacterial degradation of dissolved organic matter. <i>Nature Geoscience</i> , 2016 , 9, 884-887	18.3	140
265	Nutrient dynamics in the deep blue sea. <i>Trends in Microbiology</i> , 2002 , 10, 410-8	12.4	138
264	Microbial oceanography: paradigms, processes and promise. <i>Nature Reviews Microbiology</i> , 2007 , 5, 759-622.2	22.2	137
263	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		137
262	In situ effects of selected preservatives on total carbon, nitrogen and metals collected in sediment traps. <i>Journal of Marine Research</i> , 1984 , 42, 445-462	1.5	137
261	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	2.5	136
260	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
259	Chemical oceanography. Increasing anthropogenic nitrogen in the North Pacific Ocean. <i>Science</i> , 2014 , 346, 1102-6	33.3	132

258	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
257	A time-series study of particulate matter export in the North Pacific Subtropical Gyre based on $^{234}\text{Th} : ^{238}\text{U}$ disequilibrium. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001 , 48, 2595-2615	2.5	131
256	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		130
255	Regional distributions of nitrogen-fixing bacteria in the Pacific Ocean. <i>Limnology and Oceanography</i> , 2008 , 53, 63-77	4.8	129
254	Climate-driven changes to the atmospheric CO ₂ sink in the subtropical North Pacific Ocean. <i>Nature</i> , 2003 , 424, 754-7	50.4	129
253	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	4.8	129
252	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
251	The measurement and distribution of dissolved nucleic acids in aquatic environments. <i>Limnology and Oceanography</i> , 1989 , 34, 543-558	4.8	127
250	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
249	Environment. Ocean iron fertilization--moving forward in a sea of uncertainty. <i>Science</i> , 2008 , 319, 162	33.3	120
248	Global carbon cycle: metabolic balance of the open sea. <i>Nature</i> , 2003 , 426, 32	50.4	119
247	Nitrogen modulates phytoplankton growth in spring in the South China Sea. <i>Continental Shelf Research</i> , 2004 , 24, 527-541	2.4	117
246	Microbial oceanography and the Hawaii Ocean Time-series programme. <i>Nature Reviews Microbiology</i> , 2014 , 12, 699-713	22.2	114
245	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		113
244	Freezing as a method of sample preservation for the analysis of dissolved inorganic nutrients in seawater. <i>Marine Chemistry</i> , 1996 , 53, 173-185	3.7	106
243	Bacterial ectoenzymes in marine waters: Activity ratios and temperature responses in three oceanographic provinces. <i>Limnology and Oceanography</i> , 1995 , 40, 1042-1049	4.8	105
242	Nitrogen fixation in an anticyclonic eddy in the oligotrophic North Pacific Ocean. <i>ISME Journal</i> , 2008 , 2, 663-76	11.9	104
241	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, 13023-8	11.5	103

240	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
239	Experiments linking nitrogenase gene expression to nitrogen fixation in the North Pacific subtropical gyre. <i>Limnology and Oceanography</i> , 2007 , 52, 169-183	4.8	101
238	Trichodesmium Blooms and New Nitrogen in the North Pacific Gyre 1992 , 219-237		100
237	Alkaline phosphatase activity and regulation in the North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , 2010 , 55, 1414-1425	4.8	98
236	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
235	Adenosine Triphosphate Measurements in Soil and Marine Sediments. <i>Journal of the Fisheries Research Board of Canada</i> , 1975 , 32, 599-607		95
234	Application of a novel method for phosphorus determinations in the oligotrophic North Pacific Ocean. <i>Limnology and Oceanography</i> , 1998 , 43, 1565-1577	4.8	93
233	Temporal variability in dissolved phosphorus concentrations in the subtropical North Pacific Ocean. <i>Marine Chemistry</i> , 1997 , 56, 77-96	3.7	92
232	Environmental drivers of a microbial genomic transition zone in the ocean's interior. <i>Nature Microbiology</i> , 2017 , 2, 1367-1373	26.6	91
231	Microorganisms in deep-sea hydrothermal plumes. <i>Nature</i> , 1986 , 320, 744-746	50.4	88
230	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	5.9	87
229	The Palmer LTER: A Long-Term Ecological Research Program at Palmer Station, Antarctica. <i>Oceanography</i> , 1995 , 8, 77-86	2.3	84
228	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
227	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	2.5	82
226	Element Stoichiometry, New Production and Nitrogen Fixation. <i>Oceanography</i> , 2001 , 14, 68-77	2.3	82
225	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	2.5	79
224	Nitrite distributions and dynamics at Station ALOHA. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1996 , 43, 385-402	2.3	78
223	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	4.8	77

222	Seasonal variability in the phytoplankton community of the North Pacific Subtropical Gyre. <i>Global Biogeochemical Cycles</i> , 1995 , 9, 605-620	5.9	76
221	On the chlorophyll a retention properties of glass-fiber GF/F filters. <i>Limnology and Oceanography</i> , 1995 , 40, 428-433	4.8	75
220	Rising surface ocean dissolved inorganic carbon at the Hawaii Ocean Time-series site. <i>Marine Chemistry</i> , 1998 , 60, 33-47	3.7	74
219	Methane sources, distributions and sinks from California coastal waters to the oligotrophic North Pacific gyre. <i>Marine Chemistry</i> , 1995 , 49, 51-64	3.7	74
218	Microbial oceanography in a sea of opportunity. <i>Nature</i> , 2009 , 459, 180-4	50.4	72
217	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
216	Measurement of microbial activity and growth in the ocean by rates of stable ribonucleic Acid synthesis. <i>Applied and Environmental Microbiology</i> , 1979 , 38, 850-60	4.8	72
215	Temporal variability of nitrogen fixation and particulate nitrogen export at Station ALOHA. <i>Limnology and Oceanography</i> , 2017 , 62, 200-216	4.8	71
214	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
213	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
212	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	2.3	67
211	Light dependence of [3H]leucine incorporation in the oligotrophic North Pacific ocean. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 4079-87	4.8	67
210	Building the Long-Term Picture: The U.S. JGOFS Time-Series Programs. <i>Oceanography</i> , 2001 , 14, 6-17	2.3	67
209	Coordinated regulation of growth, activity and transcription in natural populations of the unicellular nitrogen-fixing cyanobacterium Crocosphaera. <i>Nature Microbiology</i> , 2017 , 2, 17118	26.6	66
208	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	4.8	66
207	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, 802-10	4.8	66
206	Vitamin B12 excretion by cultures of the marine cyanobacteria Crocosphaera and Synechococcus. <i>Limnology and Oceanography</i> , 2010 , 55, 1959-1964	4.8	65
205	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		65

204	Flexible elemental stoichiometry in <i>Trichodesmium</i> spp. and its ecological implications. <i>Limnology and Oceanography</i> , 2006 , 51, 1777-1790	4.8	64
203	Partial characterization of the dissolved organic phosphorus pool in the oligotrophic North Pacific Ocean. <i>Limnology and Oceanography</i> , 1997 , 42, 1398-1405	4.8	61
202	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	2.3	61
201	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		61
200	Swimmers: A Recapitulation of the Problem and a Potential Solution. <i>Oceanography</i> , 1989 , 2, 32-35	2.3	61
199	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		60
198	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
197	Dissolved organic carbon in oligotrophic waters: experiments on sample preservation, storage and analysis. <i>Marine Chemistry</i> , 1994 , 45, 207-216	3.7	59
196	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
195	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
194	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		57
193	Total dissolved nitrogen and phosphorus concentrations at US-JGOFS station ALOHA: Redfield reconciliation. <i>Marine Chemistry</i> , 1993 , 41, 203-208	3.7	57
192	New production at the VERTEX time-series site. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1990 , 37, 1121-1134		57
191	Selected nucleic Acid precursors in studies of aquatic microbial ecology. <i>Applied and Environmental Microbiology</i> , 1982 , 44, 891-902	4.8	57
190	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
189	Impact of climate forcing on ecosystem processes in the North Pacific Subtropical Gyre. <i>Journal of Geophysical Research</i> , 2007 , 112,		55
188	Processes regulating oxygen and carbon dioxide in surface waters west of the Antarctic Peninsula. <i>Marine Chemistry</i> , 2004 , 84, 161-179	3.7	55
187	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	4.9	55

186	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	5.9	55
185	Distribution, abundance, and metabolic states of microorganisms in the water column and sediments of the Black Sea1. <i>Limnology and Oceanography</i> , 1978 , 23, 936-949	4.8	54
184	Ecology and biogeochemistry of alkenone production at Station ALOHA. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005 , 52, 699-719	2.5	53
183	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	2.5	53
182	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	2.3	53
181	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		53
180	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
179	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		50
178	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	3	50
177	[8] Biomass and adenylate energy charge determination in microbial cell extracts and environmental samples. <i>Methods in Enzymology</i> , 1978 , 57, 73-85	1.7	50
176	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
175	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
174	From genes to ecosystems: the ocean's new frontier. <i>Frontiers in Ecology and the Environment</i> , 2004 , 2, 457-468	5.5	49
173	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
172	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
171	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,		47
170	A deterministic model for N2 fixation at stn. ALOHA in the subtropical North Pacific Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001 , 49, 149-174	2.3	47
169	Metabolic activity and bioluminescence of oceanic faecal pellets and sediment trap particles. <i>Nature</i> , 1984 , 307, 539-541	50.4	46

168	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
167	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
166	Differences in the biological carbon pump at three subtropical ocean sites. <i>Geophysical Research Letters</i> , 2002 , 29, 32-1-32-4	4.9	45
165	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
164	A predictive model for estimating rates of primary production in the subtropical North Pacific Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001 , 48, 1837-1863	2.3	44
163	Biogeochemical controls of surface ocean phosphate. <i>Science Advances</i> , 2019 , 5, eaax0341	14.3	43
162	Autotrophic production and elemental fluxes at 26°N, 155°W in the North Pacific subtropical gyre. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1989 , 36, 103-120		42
161	Dynamics of Dissolved Organic Phosphorus 2015 , 233-334		41
160	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
159	Temporal Studies of Biogeochemical Processes Determined from Ocean Time-Series Observations During the JGOFS Era 2003 , 239-267		39
158	Metatranscriptomic and functional metagenomic analysis of methylphosphonate utilization by marine bacteria. <i>Frontiers in Microbiology</i> , 2013 , 4, 340	5.7	38
157	A novel method for the measurement of dissolved adenosine and guanosine triphosphate in aquatic habitats: applications to marine microbial ecology. <i>Journal of Microbiological Methods</i> , 2001 , 47, 159-67	2.8	37
156	Nitrogen metabolism by heterotrophic bacterial assemblages in Antarctic coastal waters. <i>Polar Biology</i> , 1994 , 14, 195	2	36
155	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
154	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
153	Weaving marine food webs from end to end under global change. <i>Journal of Marine Systems</i> , 2011 , 84, 106-116	2.7	35
152	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
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