Sallie W Chisholm Or Penny Chisholm

List of Publications by Citations

174 papers	24,054 citations	82 h-index	154 g-index
186 ext. papers	27,726 ext. citations	11.1 avg, IF	6.73 L-index

#	Paper	IF	Citations
174	Testing the iron hypothesis in ecosystems of the equatorial Pacific Ocean. *Nature*, **1994**, 371, 123-129	50.4	1070
173	Community genomics among stratified microbial assemblages in the ocean's interior. *Science*, **2006**, 311, 496-503	33.3	1055
172	Genome divergence in two Prochlorococcus ecotypes reflects oceanic niche differentiation. *Nature*, **2003**, 424, 1042-7	50.4	904
171	A novel free-living prochlorophyte abundant in the oceanic euphotic zone. *Nature*, **1988**, 334, 340-343	50.4	890
170	Niche partitioning among Prochlorococcus ecotypes along ocean-scale environmental gradients. *Science*, **2006**, 311, 1737-40	33.3	682
169	Microbial community gene expression in ocean surface waters. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 3805-10	11.5	620
168	Emergent biogeography of microbial communities in a model ocean. *Science*, **2007**, 315, 1843-6	33.3	591
167	Physiology and molecular phylogeny of coexisting Prochlorococcus ecotypes. *Nature*, **1998**, 393, 464-7	50.4	571
166	Three Prochlorococcus cyanophage genomes: signature features and ecological interpretations. *PLoS Biology*, **2005**, 3, e144	9.7	411
165	Transfer of photosynthesis genes to and from Prochlorococcus viruses. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 11013-8	11.5	406
164	Resolution of Prochlorococcus and Synechococcus ecotypes by using 16S-23S ribosomal DNA internal transcribed spacer sequences. *Applied and Environmental Microbiology*, **2002**, 68, 1180-91	4.8	406
163	Patterns and implications of gene gain and loss in the evolution of Prochlorococcus. *PLoS Genetics*, **2007**, 3, e231	6	397
162	Cyanophages infecting the oceanic cyanobacterium Prochlorococcus. *Nature*, **2003**, 424, 1047-51	50.4	393
161	Genomic islands and the ecology and evolution of Prochlorococcus. *Science*, **2006**, 311, 1768-70	33.3	362
160	Single-cell genomics reveals hundreds of coexisting subpopulations in wild Prochlorococcus. *Science*, **2014**, 344, 416-20	33.3	361
159	Phytoplankton Size **1992**, 213-237		361
158	Sequencing genomes from single cells by polymerase cloning. *Nature Biotechnology*, **2006**, 24, 680-6	44.5	353

157	Utilization of different nitrogen sources by the marine cyanobacteria Prochlorococcus and Synechococcus. *Limnology and Oceanography*, **2002**, 47, 989-996	4.8	352
156	Photosynthesis genes in marine viruses yield proteins during host infection. *Nature*, **2005**, 438, 86-9	50.4	348
155	PHYTOPLANKTON LIPIDS: INTERSPECIFIC DIFFERENCES AND EFFECTS OF NITRATE, SILICATE AND LIGHT-DARK CYCLES1. *Journal of Phycology*, **1981**, 17, 374-384	3	345
154	Prochlorococcus marinus nov. gen. nov. sp.: an oxyphototrophic marine prokaryote containing divinyl chlorophyll a and b. *Archives of Microbiology*, **1992**, 157, 297-300	3	337
153	Prevalence and evolution of core photosystem II genes in marine cyanobacterial viruses and their hosts. *PLoS Biology*, **2006**, 4, e234	9.7	326
152	Bacterial vesicles in marine ecosystems. *Science*, **2014**, 343, 183-6	33.3	310
151	Microbial community transcriptomes reveal microbes and metabolic pathways associated with dissolved organic matter turnover in the sea. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 16420-7	11.5	297
150	Elemental composition of marine Prochlorococcus and Synechococcus: Implications for the ecological stoichiometry of the sea. *Limnology and Oceanography*, **2003**, 48, 1721-1731	4.8	295
149	Multiple evolutionary origins of prochlorophytes within the cyanobacterial radiation. *Nature*, **1992**, 355, 267-70	50.4	277
148	Phytoplankton population dynamics at the Bermuda Atlantic Time-series station in the Sargasso Sea. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2001**, 48, 1983-2003	2.3	276
147	Prochlorococcus: the structure and function of collective diversity. *Nature Reviews Microbiology*, **2015**, 13, 13-27	22.2	274
146	Cyanobacterial photosynthesis in the oceans: the origins and significance of divergent light-harvesting strategies. *Trends in Microbiology*, **2002**, 10, 134-42	12.4	267
145	Spatial and temporal distributions of prochlorophyte picoplankton in the North Atlantic Ocean. *Deep-sea Research Part A, Oceanographic Research Papers*, **1990**, 37, 1033-1051		264
144	Phage auxiliary metabolic genes and the redirection of cyanobacterial host carbon metabolism. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, E757-64	11.5	262
143	Genome-wide expression dynamics of a marine virus and host reveal features of co-evolution. *Nature*, **2007**, 449, 83-6	50.4	248
142	Phosphate acquisition genes in Prochlorococcus ecotypes: evidence for genome-wide adaptation. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 12552-7	11.5	244
141	Genomic analysis of oceanic cyanobacterial myoviruses compared with T4-like myoviruses from diverse hosts and environments. *Environmental Microbiology*, **2010**, 12, 3035-56	5.2	237
140	Pigments, size, and distributions of Synechococcus in the North Atlantic and Pacific Oceans. *Limnology and Oceanography*, **1990**, 35, 45-58	4.8	230

139	Photophysiology of the marine cyanobacterium Prochlorococcus: Ecotypic differences among cultured isolates. *Limnology and Oceanography*, **1999**, 44, 628-638	4.8	220
138	Ecosystem experiments. *Science*, **1995**, 269, 324-7	33.3	216
137	Whole genome amplification and de novo assembly of single bacterial cells. *PLoS ONE*, **2009**, 4, e6864	3.7	204
136	Catalytic promiscuity in the biosynthesis of cyclic peptide secondary metabolites in planktonic marine cyanobacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 10430-5	11.5	201
135	Ecosystem-specific selection pressures revealed through comparative population genomics. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 18634-9	11.5	197
134	Culturing the marine cyanobacterium Prochlorococcus. *Limnology and Oceanography: Methods*, **2007**, 5, 353-362	2.6	181
133	Rapid diversification of marine picophytoplankton with dissimilar light-harvesting structures inferred from sequences of Prochlorococcus and Synechococcus (Cyanobacteria). *Journal of Molecular Evolution*, **1998**, 46, 188-201	3.1	179
132	Cobalt limitation and uptake in Prochlorococcus. *Limnology and Oceanography*, **2002**, 47, 1629-1636	4.8	175
131	Temporal dynamics of Prochlorococcus ecotypes in the Atlantic and Pacific oceans. *ISME Journal*, **2010**, 4, 1252-64	11.9	166
130	Identification and structural analysis of a novel carboxysome shell protein with implications for metabolite transport. *Journal of Molecular Biology*, **2009**, 392, 319-33	6.5	161
129	Taxonomic resolution, ecotypes and the biogeography of Prochlorococcus. *Environmental Microbiology*, **2009**, 11, 823-32	5.2	155
128	Choreography of the transcriptome, photophysiology, and cell cycle of a minimal photoautotroph, prochlorococcus. *PLoS ONE*, **2009**, 4, e5135	3.7	147
127	Copper toxicity and cyanobacteria ecology in the Sargasso Sea. *Limnology and Oceanography*, **2002**, 47, 976-988	4.8	146
126	Isoprene production by Prochlorococcus, a marine cyanobacterium, and other phytoplankton. *Marine Chemistry*, **2003**, 80, 227-245	3.7	137
125	Nutrient gradients in the western North Atlantic Ocean: Relationship to microbial community structure and comparison to patterns in the Pacific Ocean. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2001**, 48, 2373-2395	2.5	136
124	Unlocking short read sequencing for metagenomics. *PLoS ONE*, **2010**, 5, e11840	3.7	135
123	The photosynthetic apparatus of Prochlorococcus: Insights through comparative genomics. *Photosynthesis Research*, **2001**, 70, 53-71	3.7	131
122	Efficient phage-mediated pigment biosynthesis in oceanic cyanobacteria. *Current Biology*, **2008**, 18, 442-8	8.3	128

121	Oceans. Dis-crediting ocean fertilization. *Science*, **2001**, 294, 309-10	33.3	128
120	Influence of light and temperature on Prochlorococcus ecotype distributions in the Atlantic Ocean. *Limnology and Oceanography*, **2007**, 52, 2205-2220	4.8	127
119	Marine phytoplankton distributions measured using shipboard flow cytometry. *Deep-sea Research Part A, Oceanographic Research Papers*, **1985**, 32, 1273-1280		123
118	Structural changes in a marine podovirus associated with release of its genome into Prochlorococcus. *Nature Structural and Molecular Biology*, **2010**, 17, 830-6	17.6	121
117	Prochlorococcus ecotype abundances in the North Atlantic Ocean as revealed by an improved quantitative PCR method. *Applied and Environmental Microbiology*, **2006**, 72, 723-32	4.8	120
116	Contribution of cyanobacterial alkane production to the ocean hydrocarbon cycle. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 13591-6	11.5	117
115	Global gene expression of Prochlorococcus ecotypes in response to changes in nitrogen availability. *Molecular Systems Biology*, **2006**, 2, 53	12.2	115
114	Analysis of Synechococcus pigment types in the sea using single and dual beam flow cytometry. *Deep-sea Research Part A, Oceanographic Research Papers*, **1988**, 35, 425-440		115
113	Code and context: Prochlorococcus as a model for cross-scale biology. *Trends in Microbiology*, **2007**, 15, 398-407	12.4	114
112	The challenge of regulation in a minimal photoautotroph: non-coding RNAs in Prochlorococcus. *PLoS Genetics*, **2008**, 4, e1000173	6	112
111	Stirring times in the Southern Ocean. *Nature*, **2000**, 407, 685-7	50.4	112
110	Properties of overlapping genes are conserved across microbial genomes. *Genome Research*, **2004**, 14, 2268-72	9.7	107
109	Transcriptome and proteome dynamics of a light-dark synchronized bacterial cell cycle. *PLoS ONE*, **2012**, 7, e43432	3.7	105
108	Differential response of equatorial Pacific phytoplankton to iron fertilization. *Limnology and Oceanography*, **1999**, 44, 237-246	4.8	104
107	Response of Prochlorococcus ecotypes to co-culture with diverse marine bacteria. *ISME Journal*, **2011**, 5, 1125-32	11.9	102
106	Use of stable isotope-labelled cells to identify active grazers of picocyanobacteria in ocean surface waters. *Environmental Microbiology*, **2009**, 11, 512-25	5.2	101
105	The calculation of in situ growth rates of phytoplankton populations from fractions of cells undergoing mitosis: A clarification1. *Limnology and Oceanography*, **1982**, 27, 783-788	4.8	99
104	The genome and structural proteome of an ocean siphovirus: a new window into the cyanobacterial Vmobilome V *Environmental Microbiology*, **2009**, 11, 2935-51	5.2	97

103	Dynamics of picophytoplankton, ultraphytoplankton and bacteria in the central equatorial Pacific. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **1996**, 43, 907-931	2.3	95
102	Relationship between DNA cycle and growth rate in Synechococcus sp. strain PCC 6301. *Journal of Bacteriology*, **1990**, 172, 2313-9	3.5	93
101	Effects of environmental stresses on the cell cycle of two marine phytoplankton species. *Plant Physiology*, **1986**, 80, 918-25	6.6	92
100	Transcriptome response of high- and low-light-adapted Prochlorococcus strains to changing iron availability. *ISME Journal*, **2011**, 5, 1580-94	11.9	90
99	Portal protein diversity and phage ecology. *Environmental Microbiology*, **2008**, 10, 2810-23	5.2	87
98	Measurement of Prochlorococcus ecotypes using real-time polymerase chain reaction reveals different abundances of genotypes with similar light physiologies. *Environmental Microbiology*, **2006**, 8, 441-54	5.2	87
97	Iron limits the cell division rate of Prochlorococcus in the eastern equatorial Pacific. *Limnology and Oceanography*, **2000**, 45, 1067-1076	4.8	87
96	The effect of zooplankton grazing on estuarine blooms of the toxic dinoflagellate Gonyaulax tamarensis. *Journal of Plankton Research*, **1985**, 7, 891-908	2.2	87
95	Physiology and evolution of nitrate acquisition in Prochlorococcus. *ISME Journal*, **2015**, 9, 1195-207	11.9	84
94	Genomes of diverse isolates of the marine cyanobacterium Prochlorococcus. *Scientific Data*, **2014**, 1, 140034	8.2	82
93	An inexpensive flow cytometer for the analysis of fluorescence signals in phytoplankton: Chlorophyll and DNA distributions. *Journal of Experimental Marine Biology and Ecology*, **1983**, 68, 129-144	2.1	82
92	Silicic acid incorporation in marine diatoms on light:dark cycles: Use as an assay for phased cell division 1. *Limnology and Oceanography*, **1978**, 23, 518-529	4.8	82
91	Metabolic evolution and the self-organization of ecosystems. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E3091-E3100	11.5	79
90	Marine viruses exploit their host\'s two-component regulatory system in response to resource limitation. *Current Biology*, **2012**, 22, 124-8	6.3	78
89	Ecology of uncultured Prochlorococcus clades revealed through single-cell genomics and biogeographic analysis. *ISME Journal*, **2013**, 7, 184-98	11.9	78
88	Phased cell division in natural populations of marine dinoflagellates from shipboard cultures. *Journal of Experimental Marine Biology and Ecology*, **1976**, 25, 239-247	2.1	78
87	Microbial size spectra from natural and nutrient enriched ecosystems. *Limnology and Oceanography* , **2001**, 46, 778-789	4.8	74
86	Regulation of growth in an estuarine clone of Gonyaulax tam arensis Lebour: Salinity-dependent temperature responses. *Journal of Experimental Marine Biology and Ecology*, **1982**, 62, 25-37	2.1	73

85	Silicic acid uptake and incorporation by natural marine phytoplankton populations1. *Limnology and Oceanography*, **1976**, 21, 427-435	4.8	73
84	Charting the Complexity of the Marine Microbiome through Single-Cell Genomics. *Cell*, **2019**, 179, 1623-1635.e11	36.2	73
83	Closely related phytoplankton species produce similar suites of dissolved organic matter. *Frontiers in Microbiology*, **2014**, 5, 111	5.7	72
82	Light and dark control of the cell cycle in two marine phytoplankton species. *Experimental Cell Research*, **1986**, 167, 38-52	4.2	69
81	Modeling the fitness consequences of a cyanophage-encoded photosynthesis gene. *PLoS ONE*, **2008**, 3, e3550	3.7	68
80	PHYTOPLANKTON LIPIDS: INTERSPECIFIC DIFFERENCES AND EFFECTS OF NITRATE, SILICATE AND LIGHT-DARK CYCLES1. *Journal of Phycology*, **1981**, 17, 374-384	3	67
79	Analysis of high-throughput sequencing and annotation strategies for phage genomes. *PLoS ONE*, **2010**, 5, e9083	3.7	65
78	Short RNA half-lives in the slow-growing marine cyanobacterium Prochlorococcus. *Genome Biology*, **2010**, 11, R54	18.3	65
77	Marine microbial metagenomes sampled across space and time. *Scientific Data*, **2018**, 5, 180176	8.2	63
76	Chlorophyll fluorescence from single cells: Interpretation of flow cytometric signals. *Limnology and Oceanography*, **1989**, 34, 1749-1761	4.8	62
75	CuSO4 treatment of nuisance algal blooms in drinking water reservoirs. *Environmental Management* , **1983**, 7, 311-320	3.1	61
74	Phosphite utilization by the marine picocyanobacterium Prochlorococcus MIT9301. *Environmental Microbiology*, **2012**, 14, 1363-77	5.2	60
73	Membrane vesicles in sea water: heterogeneous DNA content and implications for viral abundance estimates. *ISME Journal*, **2017**, 11, 394-404	11.9	58
72	Use of a neural net computer system for analysis of flow cytometric data of phytoplankton populations. *Cytometry*, **1989**, 10, 540-50		58
71	In situ hybridization of Prochlorococcus and Synechococcus (marine cyanobacteria) spp. with RRNA-targeted peptide nucleic acid probes. *Applied and Environmental Microbiology*, **2000**, 66, 284-9	4.8	56
70	Effects of light and nitrogen limitation on the cell cycle of the dinoflagellate Amphidinium carteri. *Journal of Plankton Research*, **1986**, 8, 785-793	2.2	56
69	Global genetic capacity for mixotrophy in marine picocyanobacteria. *ISME Journal*, **2016**, 10, 2946-2957	11.9	53
68	Genetic diversity in cultured and wild marine cyanomyoviruses reveals phosphorus stress as a strong selective agent. *ISME Journal*, **2013**, 7, 1827-41	11.9	52

67	Ocean fertilization: time to move on. *Nature*, **2009**, 461, 347-8	50.4	52
66	INFLUENCE OF ENVIRONMENTAL FACTORS AND POPULATION COMPOSITION ON THE TIMING OF CELL DIVISION IN THALASSIOSIRA FLUVIATILIS (BACILLARIOPHYCEAE) GROWN ON LIGHT/DARK CYCLES1. *Journal of Phycology*, **1980**, 16, 375-383	3	49
65	Single cell genomes of Prochlorococcus, Synechococcus, and sympatric microbes from diverse marine environments. *Scientific Data*, **2018**, 5, 180154	8.2	49
64	Genome-wide analysis of light sensing in Prochlorococcus. *Journal of Bacteriology*, **2006**, 188, 7796-806	3.5	47
63	A comparison of two methods for measuring phosphate uptake by Monochrysis lutheri droop grown in continuous culture. *Journal of Experimental Marine Biology and Ecology*, **1979**, 39, 187-202	2.1	46
62	Simulating bacterial clustering around phytoplankton cells in a turbulent ocean. *Limnology and Oceanography*, **1993**, 38, 36-51	4.8	45
61	Evolutionary radiation of lanthipeptides in marine cyanobacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E5424-E5433	11.5	43
60	CAUSES OF DAILY RHYTHMS IN PHOTOSYNTHETIC RATES OF PHYTOPLANKTON. *Biological Bulletin* , **1973**, 145, 200-209	1.5	43
59	Genetic diversity in Prochlorococcus populations flow cytometrically sorted from the Sargasso Sea and Gulf Stream. *Limnology and Oceanography*, **1998**, 43, 1615-1630	4.8	40
58	EFFECTS OF COPPER TOXICITY ON SILICIC ACID UPTAKE AND GROWTH IN THALASSIOSIRA PSEUDONANA11. *Journal of Phycology*, **1981**, 17, 270-278	3	37
57	Persistence of cell division phasing in marine phytoplankton in continuous light after entrainment to light: Dark cycles. *Journal of Experimental Marine Biology and Ecology*, **1981**, 51, 107-118	2.1	36
56	Fundamental differences in diversity and genomic population structure between Atlantic and Pacific Prochlorococcus. *ISME Journal*, **2017**, 11, 1997-2011	11.9	35
55	A simple model of the growth of phytoplankton populations in light/dark cycles. *Journal of Plankton Research*, **1987**, 9, 345-366	2.2	35
54	Survival of Prochlorococcus in extended darkness. *Limnology and Oceanography*, **2016**, 61, 1375-1388	4.8	35
53	Co-culture and biogeography of Prochlorococcus and SAR11. *ISME Journal*, **2019**, 13, 1506-1519	11.9	34
52	Direct single-cell biomass estimates for marine bacteria via ArchimedesVprinciple. *ISME Journal*, **2017**, 11, 825-828	11.9	33
51	Cross-scale ecological dynamics and microbial size spectra in marine ecosystems. *Proceedings of the Royal Society B: Biological Sciences*, **2002**, 269, 2051-9	4.4	33
50	Seasonal and depth variation in microbial size spectra at the Bermuda Atlantic time series station. *Deep-Sea Research Part I: Oceanographic Research Papers*, **1999**, 46, 1221-1245	2.5	32

49	Iron-enrichment bottle experiments in the equatorial Pacific: responses of individual phytoplankton cells. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **1996**, 43, 1017-1029	2.3	31
48	Torn apart and reunited: impact of a heterotroph on the transcriptome of Prochlorococcus. *ISME Journal*, **2016**, 10, 2831-2843	11.9	30
47	Phycobiliprotein genes of the marine photosynthetic prokaryote Prochlorococcus: evidence for rapid evolution of genetic heterogeneity. *Microbiology (United Kingdom)*, **2001**, 147, 3171-82	2.9	30
46	ProPortal: a resource for integrated systems biology of Prochlorococcus and its phage. *Nucleic Acids Research*, **2012**, 40, D632-40	20.1	29
45	EFFECTS OF PHOTOCYCLES AND PERIODIC AMMONIUM SUPPLY ON THREE MARINE PHYTOPLANKTON SPECIES. I. CELL DIVISION PATTERNS1. *Journal of Phycology*, **1983**, 19, 522-528	3	26
44	EFFECTS OF PHOTOCYCLES AND PERIODIC AMMONIUM SUPPLY ON THREE MARINE PHYTOPLANKTON SPECIES. II. AMMONIUM UPTAKE AND ASSIMILATION1. *Journal of Phycology*, **1983**, 19, 528-533	3	26
43	The influence of cell size on the growth rate of Thalassiosira weissflogii. *Journal of Plankton Research*, **1981**, 3, 415-419	2.2	25
42	A dual sheath flow cytometer for shipboard analyses of phytoplankton communities from the oligotrophic oceans. *Limnology and Oceanography*, **1998**, 43, 1383-1388	4.8	24
41	Emergence of trait variability through the lens of nitrogen assimilation in. *ELife*, **2019**, 8,	8.9	24
40	The spontaneous mutation frequencies of Prochlorococcus strains are commensurate with those of other bacteria. *Environmental Microbiology Reports*, **2011**, 3, 744-9	3.7	23
39	Gene Expression Patterns during Light and Dark Infection of Prochlorococcus by Cyanophage. *PLoS ONE*, **2016**, 11, e0165375	3.7	23
38	UV hyper-resistance in Prochlorococcus MED4 results from a single base pair deletion just upstream of an operon encoding nudix hydrolase and photolyase. *Environmental Microbiology*, **2010**, 12, 1978-88	5.2	22
37	Investigating the Heterogeneous Ice Nucleation of Sea Spray Aerosols Using Prochlorococcus as a Model Source of Marine Organic Matter. *Environmental Science & Technology*, **2019**, 53, 1139-1149	10.3	21
36	Marine alga Platymonas sp. accumulates silicon without apparent requirement. *Nature*, **1978**, 272, 244-246	36.4	20
35	Heterotroph Interactions Alter Transcriptome Dynamics during Extended Periods of Darkness. *MSystems*, **2018**, 3,	7.6	20
34	Nitrogen cost minimization is promoted by structural changes in the transcriptome of N-deprived Prochlorococcus cells. *ISME Journal*, **2017**, 11, 2267-2278	11.9	19
33	Temporal dynamics of Prochlorococcus cells with the potential for nitrate assimilation in the subtropical Atlantic and Pacific oceans. *Limnology and Oceanography*, **2016**, 61, 482-495	4.8	19
32	Modeling selective pressures on phytoplankton in the global ocean. *PLoS ONE*, **2010**, 5, e9569	3.7	18

31	FLOW CYTOMETRIC ANALYSIS OF SPERMATOGENESIS IN THE DIATOM THALASSIOSIRA WEISSFLOGII (BACILLARIOPHYCEAE)1. *Journal of Phycology*, **2004**, 23, 132-137	3	18
30	Effect of temperature on growth and ingestion rates of Favella sp. *Journal of Plankton Research*, **1985**, 7, 821-830	2.2	17
29	Frequency distributions of phytoplankton single-cell fluorescence and vertical mixing in the surface ocean. *Limnology and Oceanography*, **1999**, 44, 431-435	4.8	16
28	Prochlorococcus. *Current Biology*, **2017**, 27, R447-R448	6.3	15
27	Visualizing Adsorption of Cyanophage P-SSP7 onto Marine Prochlorococcus. *Scientific Reports*, **2017**, 7, 44176	4.9	15
26	Draft Genome Sequence of Alteromonas macleodii Strain MIT1002, Isolated from an Enrichment Culture of the Marine Cyanobacterium Prochlorococcus. *Genome Announcements*, **2015**, 3,		15
25	Response of Prochlorococcus to varying CO2:O2 ratios. *ISME Journal*, **2015**, 9, 2232-45	11.9	14
24	High-sensitivity flow cytometer for studying picoplankton. *Limnology and Oceanography*, **1990**, 35, 1164-1169	4.8	11
23	Toward a genetic system in the marine cyanobacterium. *Access Microbiology*, **2020**, 2, acmi000107	1	11
22	Change in Photosynthetic Capacity over the Cell Cycle in Light/Dark-Synchronized Amphidinium carteri Is Due Solely to the Photocycle. *Plant Physiology*, **1989**, 91, 999-1005	6.6	10
21	Microbial diversity of co-occurring heterotrophs in cultures of marine picocyanobacteria. *Environmental Microbiomes*, **2021**, 16, 1	5.6	8
20	Flow cytometry in oceanography: Status and prospects. *Eos*, **1988**, 69, 562	1.5	7
19	Novel integrative elements and genomic plasticity in ocean ecosystems		7
18	INFLUENCE OF ENVIRONMENTAL FACTORS AND POPULATION COMPOSITION ON THE TIMING OF CELL DIVISION IN THALASSIOSIRA FLUVIATILIS (BACILLARIOPHYCEAE) GROWN ON LIGHT/DARK CYCLES1. *Journal of Phycology*, **1980**, 16, 375-383	3	5
17	Frequency of mispackaging of Prochlorococcus DNA by cyanophage. *ISME Journal*, **2021**, 15, 129-140	11.9	5
16	Genetic engineering of marine cyanophages reveals integration but not lysogeny in T7-like cyanophages. *ISME Journal*, **2021**,	11.9	5
15	The iron hypothesis: Basic research meets environmental policy. *Reviews of Geophysics*, **1995**, 33, 1277-1286	25.1	4
14	SUNDAY, A Simulation Model of an Arctic Daphnia Population. *Oikos*, **1979**, 32, 349	4	4

List of Publications

13	FLOW CYTOMETRIC ANALYSIS OF SPERMATOGENESIS IN THE DIATOM THALASSIOSIRA WEISSFLOGII (BACILLARIOPHYCEAE)1. *Journal of Phycology*, **2007**, 23, 132-137	3	3
12	Reply to Luo and Konstantinidis: Phosphorus-related genes are enriched in Prochlorococcus populations from the North Atlantic. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, E64-E66	11.5	2
11	Use of Cyclostat Cultures to Study Phytoplankton Ecology **2017**, 159-186		2
10	Co-culture and biogeography of Prochlorococcus and SAR11		2
9	Prochlorococcus extracellular vesicles: molecular composition and adsorption to diverse microbes. *Environmental Microbiology*, **2021**,	5.2	1
8	Characterization of Phycoerythrin Genes in the Chlorophyll A2/B2-Containing Prokaryote, Prochlorococcus SP. MIT9303 **1998**, 225-228		1
7	Phosphonate production by marine microbes: exploring new sources and potential function		1
6	Emergence of trait variability through the lens of nitrogen assimilation in Prochlorococcus		1
5	Toward a genetic system in the marine cyanobacteriumProchlorococcus		1
4	Coping with darkness: The adaptive response of marine picocyanobacteria to repeated light energy deprivation. *Limnology and Oceanography*, **2021**, 66, 3300-3312	4.8	1
3	Phosphonate production by marine microbes: Exploring new sources and potential function.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2113386119	11.5	0
2	Portal protein diversity and phage ecology. *Environmental Microbiology*, **2011**, 13, 2832-2832	5.2	
1	Filter Plating Method for Rendering Picocyanobacteria Cultures Free of Heterotrophic Bacterial Contaminants and Clonal.. *Frontiers in Microbiology*, **2022**, 13, 821803	5.7	