Jonathan P Zehr

List of Publications by Year
in descending order

241	20,159	9756	12910
papers	citations	73 h-index	131 g-index

261	261	261	10032
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Trichodesmium, a Globally Significant Marine Cyanobacterium. Science, 1997, 276, 1221-1229.	6.0	1,195
2	Nitrogenase gene diversity and microbial community structure: a cross-system comparison. Environmental Microbiology, 2003, 5, 539-554.	1.8	844
3	Unicellular cyanobacteria fix N2 in the subtropical North Pacific Ocean. Nature, 2001, 412, 635-638.	13.7	678
4	High rates of N2 fixation by unicellular diazotrophs in the oligotrophic Pacific Ocean. Nature, 2004, 430, 1027-1031.	13.7	511
5	Unicellular Cyanobacterium Symbiotic with a Single-Celled Eukaryotic Alga. Science, 2012, 337, 1546-1550.	6.0	460
6	Use of degenerate oligonucleotides for amplification of the nifH gene from the marine cyanobacterium Trichodesmium thiebautii. Applied and Environmental Microbiology, 1989, 55, 2522-2526.	1.4	458
7	Effects of Growth Irradiance and Nitrogen Limitation on Photosynthetic Energy Conversion in Photosystem II. Plant Physiology, 1988, 88, 923-929.	2.3	444
8	Nitrogen fixation by marine cyanobacteria. Trends in Microbiology, 2011, 19, 162-173.	3.5	421
9	Nitrogen Cycling in the Ocean: New Perspectives on Processes and Paradigms. Applied and Environmental Microbiology, 2002, 68, 1015-1024.	1.4	416
10	Unicellular Cyanobacterial Distributions Broaden the Oceanic N ₂ Fixation Domain. Science, 2010, 327, 1512-1514.	6.0	394
11	New Nitrogen-Fixing Microorganisms Detected in Oligotrophic Oceans by Amplification of Nitrogenase (nifH) Genes. Applied and Environmental Microbiology, 1998, 64, 3444-3450.	1.4	355
12	Nitrogen fixation and transfer in open ocean diatomâ€“cyanobacterial symbioses. ISME Journal, 2011, 5, 1484-1493.	4.4	337
13	Globally Distributed Uncultivated Oceanic N ₂ -Fixing Cyanobacteria Lack Oxygenic Photosystem II. Science, 2008, 322, 1110-1112.	6.0	323
14	Database of diazotrophs in global ocean: abundance, biomass and nitrogen fixation rates. Earth System Science Data, 2012, 4, 47-73.	3.7	315
15	Nitrogen Cycle of the Open Ocean: From Genes to Ecosystems. Annual Review of Marine Science, 2011, 3, 197-225.	5.1	313
16	Metabolic streamlining in an open-ocean nitrogen-fixing cyanobacterium. Nature, 2010, 464, 90-94.	13.7	309
17	Comparative day/night metatranscriptomic analysis of microbial communities in the North Pacific subtropical gyre. Environmental Microbiology, 2009, 11, 1358-1375.	1.8	285
18	Temporal Patterns of Nitrogenase Gene (nifH) Expression in the Oligotrophic North Pacific Ocean. Applied and Environmental Microbiology, 2005, 71, 5362-5370.	1.4	264

#	Article	IF	Citations
19	GROWTH AND NITROGEN FIXATION OF THE DIAZOTROPHIC FILAMENTOUS NONHETEROCYSTOUS CYANOBACTERIUM TRICHODESMIUM SP. IMS 101 IN DEFINED MEDIA: EVIDENCE FOR A CIRCADIAN RHYTHM1. Journal of Phycology, 1996, 32, 916-923.	1.0	258
20	Vertical distributions of nitrogen-fixing phylotypes at Stn Aloha in the oligotrophic North Pacific Ocean. Aquatic Microbial Ecology, 2005, 38, 3-14.	0.9	247
21	Expression of nifH Genes in Natural Microbial Assemblages in Lake George, New York, Detected by Reverse Transcriptase PCR. Applied and Environmental Microbiology, 2000, 66, 3119-3124.	1.4	235
22	Changing perspectives in marine nitrogen fixation. Science, 2020, 368, .	6.0	223
23	Influence of the Amazon River plume on distributions of freeâ€living and symbiotic cyanobacteria in the western tropical north Atlantic Ocean. Limnology and Oceanography, 2007, 52, 517-532.	1.6	200
24	Physical forcing of nitrogen fixation and diazotroph community structure in the North Pacific subtropical gyre. Global Biogeochemical Cycles, 2009, 23, .	1.9	200
25	Bacterial diversity in Adirondack mountain lakes as revealed by 16S rRNA gene sequences. Applied and Environmental Microbiology, 1997, 63, 2957-2960.	1.4	188
26	Nearly Identical 16S rRNA Sequences Recovered from Lakes in North America and Europe Indicate the Existence of Clades of Globally Distributed Freshwater Bacteria. Systematic and Applied Microbiology, 1998, 21, 546-556.	1.2	187
27	Diversity of heterotrophic nitrogen fixation genes in a marine cyanobacterial mat. Applied and Environmental Microbiology, 1995, 61, 2527-2532.	1.4	185
28	Diversity and abundance of diazotrophic microorganisms in the South China Sea during intermonsoon. ISME Journal, 2008, 2, 954-967.	4.4	176
29	Regional distributions of nitrogenâ€fixing bacteria in the Pacific Ocean. Limnology and Oceanography, 2008, 53, 63-77.	1.6	154
30	Nitrogen fixation: Nitrogenase genes and gene expression. Methods in Microbiology, 2001, 30, 271-286.	0.4	147
31	Contrasts between marine and freshwater bacterial community composition: Analyses of communities in Lake George and six other Adirondack lakes. Limnology and Oceanography, 1998, 43, 368-374.	1.6	143
32	Global distribution patterns of distinct clades of the photosynthetic picoeukaryote Ostreococcus. ISME Journal, 2011, 5, 1095-1107.	4.4	142
33	Nitrogen fixation in an anticyclonic eddy in the oligotrophic North Pacific Ocean. ISME Journal, 2008, 2, 663-676.	4.4	137
34	Basis for Diel Variation in Nitrogenase Activity in the Marine Planktonic Cyanobacterium Trichodesmium thiebautii. Applied and Environmental Microbiology, 1990, 56, 3532-3536.	1.4	133
35	Nitrogen fixation by unicellular diazotrophic cyanobacteria in the temperate oligotrophic North Pacific Ocean. Limnology and Oceanography, 2007, 52, 1317-1327.	1.6	129
36	Characterization of diatomâ€“cyanobacteria symbioses on the basis of nifH, hetR and 16S rRNA sequences. Environmental Microbiology, 2006, 8, 1913-1925.	1.8	128

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37	New perspectives on nitrogen-fixing microorganisms in tropical and subtropical oceans. Trends in Microbiology, 2000, 8, 68-73.	3.5	127
38	Experiments linking nitrogenase gene expression to nitrogen fixation in the North Pacific subtropical gyre. Limnology and Oceanography, 2007, 52, 169-183.	1.6	127
39	Abundance and distribution of major groups of diazotrophic cyanobacteria and their potential contribution to N₂ fixation in the tropical Atlantic Ocean. Environmental Microbiology, 2010, 12, 3272-3289.	1.8	126
40	Nitrogen fixation within the water column associated with two hypoxic basins in the Southern California Bight. Aquatic Microbial Ecology, 2011, 63, 193-205.	0.9	126
41	Coordinated regulation of growth, activity and transcription in natural populations of the unicellular nitrogen-fixing cyanobacterium Crocosphaera. Nature Microbiology, 2017, 2, 17118.	5.9	122
42	Nutrient limitation of primary productivity in the Southeast Pacific (BIOSOPE cruise). Biogeosciences, 2008, 5, 215-225.	1.3	118
43	Genetic diversity of the unicellular nitrogenâ€fixing cyanobacteria <scp>UCYN</scp>â€<scp>A</scp> and its prymnesiophyte host. Environmental Microbiology, 2014, 16, 3238-3249.	1.8	118
44	Reduction of Selenate to Selenide by Sulfate-Respiring Bacteria: Experiments with Cell Suspensions and Estuarine Sediments. Applied and Environmental Microbiology, 1987, 53, 1365-1369.	1.4	118
45	Symbiotic unicellular cyanobacteria fix nitrogen in the Arctic Ocean. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 13371-13375.	3.3	117
46	Circadian Rhythm of Nitrogenase Gene Expression in the Diazotrophic Filamentous Nonheterocystous Cyanobacterium Trichodesmium sp. Strain IMS 101. Journal of Bacteriology, 1998, 180, 3598-3605.	1.0	115
47	<scp>nifH</scp> pyrosequencing reveals the potential for locationâ€specific soil chemistry to influence <scp>N</scp>₂â€fixing community dynamics. Environmental Microbiology, 2014, 16, 3211-3223.	1.8	112
48	Nitrogen fixation and nitrogenase (nifH) expression in tropical waters of the eastern North Atlantic. ISME Journal, 2011, 5, 1201-1212.	4.4	111
49	Diversity and Detection of Nitrate Assimilation Genes in Marine Bacteria. Applied and Environmental Microbiology, 2001, 67, 5343-5348.	1.4	110
50	Temporal variability of nitrogen fixation and particulate nitrogen export at Station ALOHA. Limnology and Oceanography, 2017, 62, 200-216.	1.6	110
51	Rates of dinitrogen fixation and the abundance of diazotrophs in North American coastal waters between Cape Hatteras and Georges Bank. Limnology and Oceanography, 2012, 57, 1067-1083.	1.6	106
52	Problems and promises of assaying the genetic potential for nitrogen fixation in the marine environment. Microbial Ecology, 1996, 32, 263-81.	1.4	103
53	Microbial community gene expression within colonies of the diazotroph, Trichodesmium, from the Southwest Pacific Ocean. ISME Journal, 2009, 3, 1286-1300.	4.4	103
54	Aphotic N2 Fixation in the Eastern Tropical South Pacific Ocean. PLoS ONE, 2013, 8, e81265.	1.1	101

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55	Development and Testing of a DNA Macroarray To Assess Nitrogenase (nifH) Gene Diversity. Applied and Environmental Microbiology, 2004, 70, 1455-1465.	1.4	99
56	The paradox of marine heterotrophic nitrogen fixation: abundances of heterotrophic diazotrophs do not account for nitrogen fixation rates in the <scp>E</scp>astern <scp>T</scp>ropical <scp>S</scp>outh <scp>P</scp>acific. Environmental Microbiology, 2014, 16, 3095-3114.	1.8	99
57	Diversity and activity of nitrogenâ€fixing communities across ocean basins. Limnology and Oceanography, 2017, 62, 1895-1909.	1.6	97
58	Genomic deletions disrupt nitrogen metabolism pathways of a cyanobacterial diatom symbiont. Nature Communications, 2013, 4, 1767.	5.8	96
59	Detection and expression of the phosphonate transporter gene phnD in marine and freshwater picocyanobacteria. Environmental Microbiology, 2009, 11, 1314-1324.	1.8	95
60	Homologous regions of the Salmonella enteritidis virulence plasmid and the chromosome of Salmonella typhi encode thiol: disulphide oxidoreductases belonging to the DsbA thioredoxin family. Microbiology (United Kingdom), 1997, 143, 1443-1450.	0.7	94
61	Gammaproteobacterial diazotrophs and nifH gene expression in surface waters of the South Pacific Ocean. ISME Journal, 2014, 8, 1962-1973.	4.4	93
62	Distribution and activity of diazotrophs in the Eastern Equatorial Atlantic. Environmental Microbiology, 2009, 11, 741-750.	1.8	92
63	Genome-wide analysis of diel gene expression in the unicellular N2-fixing cyanobacterium Crocosphaera watsonii WH 8501. ISME Journal, 2010, 4, 621-632.	4.4	91
64	Modification of the Fe Protein of Nitrogenase in Natural Populations of Trichodesmium thiebautii. Applied and Environmental Microbiology, 1993, 59, 669-676.	1.4	91
65	Determination of Nitrogen-Fixing Phylotypes in Lyngbya sp. and Microcoleus chthonoplastes Cyanobacterial Mats from Guerrero Negro, Baja California, Mexico. Applied and Environmental Microbiology, 2004, 70, 2119-2128.	1.4	89
66	Comparative genomics reveals surprising divergence of two closely related strains of uncultivated UCYN-A cyanobacteria. ISME Journal, 2014, 8, 2530-2542.	4.4	87
67	New insights into the ecology of the globally significant uncultured nitrogen-fixing symbiont UCYN-A. Aquatic Microbial Ecology, 2016, 77, 125-138.	0.9	85
68	Molecular evidence for zooplankton-associated nitrogen-fixing anaerobes based on amplification of the nifH gene. FEMS Microbiology Ecology, 1999, 28, 273-279.	1.3	83
69	Seasonality of N2 fixation and nifH gene diversity in the Gulf of Aqaba (Red Sea). Limnology and Oceanography, 2009, 54, 219-233.	1.6	83
70	Unusual marine unicellular symbiosis with the nitrogen-fixing cyanobacterium UCYN-A. Nature Microbiology, 2017, 2, 16214.	5.9	83
71	Fingerprinting Diazotroph Communities in the Chesapeake Bay by Using a DNA Macroarray. Applied and Environmental Microbiology, 2004, 70, 1767-1776.	1.4	82
72	Diverse diazotrophs are present on sinking particles in the North Pacific Subtropical Gyre. ISME Journal, 2019, 13, 170-182.	4.4	81

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73	Underwater Application of Quantitative PCR on an Ocean Mooring. PLoS ONE, 2011, 6, e22522.	1.1	80
74	Analogous nutrient limitations in unicellular diazotrophs and Prochlorococcus in the South Pacific Ocean. ISME Journal, 2012, 6, 733-744.	4.4	78
75	Regulation of nitrogen-fixation by different nitrogen sources in the marine non-heterocystous cyanobacterium Trichodesmium sp. NIBB1067. Archives of Microbiology, 1991, 156, 335-337.	1.0	77
76	Cyanobacterial symbionts diverged in the late Cretaceous towards lineage-specific nitrogen fixation factories in single-celled phytoplankton. Nature Communications, 2016, 7, 11071.	5.8	72
77	GROWTH AND CARBON CONTENT OF THREE DIFFERENTâ€SIZED DIAZOTROPHIC CYANOBACTERIA OBSERVED IN THE SUBTROPICAL NORTH PACIFIC¹. Journal of Phycology, 2008, 44, 1212-1220.	1.0	71
78	Nitrogen fixation in the South Atlantic Gyre and the Benguela Upwelling System. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	71
79	Low genomic diversity in tropical oceanic N ₂ -fixing cyanobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17807-17812.	3.3	70
80	Ecogenomic sensor reveals controls on N2-fixing microorganisms in the North Pacific Ocean. ISME Journal, 2014, 8, 1175-1185.	4.4	70
81	Genetic engineering of multispecies microbial cell factories as an alternative for bioenergy production. Trends in Biotechnology, 2013, 31, 521-529.	4.9	69
82	Spatial and Temporal Distribution of Two Diazotrophic Bacteria in the Chesapeake Bay. Applied and Environmental Microbiology, 2004, 70, 2186-2192.	1.4	67
83	In situ transcriptomic analysis of the globally important keystone N2-fixing taxon Crocosphaera watsonii. ISME Journal, 2009, 3, 618-631.	4.4	67
84	Nitrogenase genes in PCR and RT-PCR reagents: implications for studies of diversity of functional genes. BioTechniques, 2003, 35, 996-1005.	0.8	66
85	Distinct ecological niches of marine symbiotic N₂â€fixing cyanobacterium Candidatus Atelocyanobacterium thalassa sublineages. Journal of Phycology, 2017, 53, 451-461.	1.0	66
86	Distribution of nitrogen-fixing microorganisms along the Neuse River Estuary, North Carolina. Microbial Ecology, 2001, 41, 114-123.	1.4	64
87	Nitrogenase gene expression in the Chesapeake Bay Estuary. Environmental Microbiology, 2007, 9, 1591-1596.	1.8	64
88	What's New in the Nitrogen Cycle?. Oceanography, 2007, 20, 101-109.	0.5	63
89	Diazotroph community succession during the VAHINE mesocosm experiment (New Caledonia lagoon). Biogeosciences, 2015, 12, 7435-7452.	1.3	63
90	Short-term exposures to chronically toxic copper concentrations induce HSP70 proteins in midge larvae (Chironomus tentans). Science of the Total Environment, 2003, 312, 267-272.	3.9	59

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91	Nitrogenase (nifH) gene expression in diazotrophic cyanobacteria in the Tropical North Atlantic in response to nutrient amendments. Frontiers in Microbiology, 2012, 3, 386.	1.5	59
92	Formation of Methane and Carbon Dioxide from Dimethylselenide in Anoxic Sediments and by a Methanogenic Bacterium. Applied and Environmental Microbiology, 1986, 52, 1031-1036.	1.4	59
93	Unusual marine cyanobacteria/haptophyte symbiosis relies on N2 fixation even in N-rich environments. ISME Journal, 2020, 14, 2395-2406.	4.4	58
94	Misannotations of rRNA can now generate 90% false positive protein matches in metatranscriptomic studies. Nucleic Acids Research, 2011, 39, 8792-8802.	6.5	57
95	Regulation of nitrogenase activity in relation to the light-dark regime in the filamentous non-heterocystous cyanobacterium Trichodesmium sp. NIBB 1067. Journal of General Microbiology, 1992, 138, 2679-2685.	2.3	55
96	Comparison of diazotroph community structure in Lyngbya sp. and Microcoleus chthonoplastes dominated microbial mats from Guerrero Negro, Baja, Mexico. FEMS Microbiology Ecology, 2004, 47, 305-308.	1.3	55
97	ARBitrator: a software pipeline for on-demand retrieval of auto-curated nifH sequences from GenBank. Bioinformatics, 2014, 30, 2883-2890.	1.8	55
98	Nitrogen-Fixing Phylotypes of Chesapeake Bay and Neuse River Estuary Sediments. Microbial Ecology, 2002, 44, 336-343.	1.4	54
99	ISOLATION OF CALOTHRIX RHIZOSOLENIAE (CYANOBACTERIA) STRAIN SC01 FROM CHAETOCEROS (BACILLARIOPHYTA) SPP. DIATOMS OF THE SUBTROPICAL NORTH PACIFIC OCEAN1. Journal of Phycology, 2010, 46, 1028-1037.	1.0	53
100	Characteristics of diazotrophs in surface to abyssopelagic waters of the Sargasso Sea. Aquatic Microbial Ecology, 2007, 46, 15-30.	0.9	52
101	Vibrio diversity and dynamics in the Monterey Bay upwelling region. Frontiers in Microbiology, 2014, 5, 48.	1.5	51
102	Spatial-temporal variability in diazotroph assemblages in Chesapeake Bay using an oligonucleotidenifHmicroarray. Environmental Microbiology, 2007, 9, 1823-1835.	1.8	50
103	Diversity, Genomics, and Distribution of Phytoplankton-Cyanobacterium Single-Cell Symbiotic Associations. Annual Review of Microbiology, 2019, 73, 435-456.	2.9	49
104	Temporal Variability in Nitrogenase Gene Expression in Natural Populations of the Marine Cyanobacterium Trichodesmium thiebautii. Applied and Environmental Microbiology, 1996, 62, 1073-1075.	1.4	49
105	Distribution of diazotrophic microorganisms and nifH gene expression in the Mekong River plume during intermonsoon. Marine Ecology - Progress Series, 2011, 424, 39-52.	0.9	49
106	Title is missing!. , 1999, 401, 77-96.		48
107	Vertical Distribution of Nitrogen-Fixing Phylotypes in a Meromictic, Hypersaline Lake. Microbial Ecology, 2004, 47, 30-40.	1.4	48
108	Cellular interactions: lessons from the nitrogenâ€fixing cyanobacteria. Journal of Phycology, 2013, 49, 1024-1035.	1.0	47

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109	Application of a nifH oligonucleotide microarray for profiling diversity of N2-fixing microorganisms in marine microbial mats. Environmental Microbiology, 2006, 8, 1721-1735.	1.8	46
110	Diazotrophic bacterioplankton in a coral reef lagoon: phylogeny, diel nitrogenase expression and response to phosphate enrichment. ISME Journal, 2007, 1, 78-91.	4.4	46
111	Phylogenetic diversity of cyanobacterial narB genes from various marine habitats. Environmental Microbiology, 2008, 10, 3377-3387.	1.8	46
112	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.	1.6	46
113	Seasonal Synechococcus and Thaumarchaeal population dynamics examined with high resolution with remote in situ instrumentation. ISME Journal, 2012, 6, 513-523.	4.4	46
114	Detection and characterization of cyanobacterial nifH genes. Applied and Environmental Microbiology, 1994, 60, 880-887.	1.4	46
115	Differential Distributions of Synechococcus Subgroups Across the California Current System. Frontiers in Microbiology, 2011, 2, 59.	1.5	45
116	Unicellular cyanobacteria with a new mode of life: the lack of photosynthetic oxygen evolution allows nitrogen fixation to proceed. Archives of Microbiology, 2010, 192, 783-790.	1.0	44
117	Whole genome comparison of six <scp>C</scp>rocosphaera watsonii strains with differing phenotypes. Journal of Phycology, 2013, 49, 786-801.	1.0	44
118	Microbiological, molecular biological and stable isotopic evidence for nitrogen fixation in the open waters of Lake Michigan. Environmental Microbiology, 2001, 3, 205-219.	1.8	42
119	An emergent community ecosystem model applied to the California Current System. Journal of Marine Systems, 2010, 83, 221-241.	0.9	42
120	Quantitative Analysis of nifH Genes and Transcripts from Aquatic Environments. Methods in Enzymology, 2005, 397, 380-394.	0.4	41
121	Spatial patterns and lightâ€driven variation of microbial population gene expression in surface waters of the oligotrophic open ocean. Environmental Microbiology, 2010, 12, 1940-1956.	1.8	41
122	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.	1.6	40
123	Diazotroph Diversity in the Sea Ice, Melt Ponds, and Surface Waters of the Eurasian Basin of the Central Arctic Ocean. Frontiers in Microbiology, 2016, 7, 1884.	1.5	39
124	Differential effects of nitrate, ammonium, and urea as N sources for microbial communities in the North Pacific Ocean. Limnology and Oceanography, 2017, 62, 2550-2574.	1.6	39
125	What's in a name? The case of cyanobacteria. Journal of Phycology, 2020, 56, 1-5.	1.0	39
126	Modeled contributions of three types of diazotrophs to nitrogen fixation at Station ALOHA. ISME Journal, 2007, 1, 606-619.	4.4	38

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127	Single-taxon field measurements of bacterial gene regulation controlling DMSP fate. ISME Journal, 2015, 9, 1677-1686.	4.4	37
128	Application of multivariate statistics in detecting temporal and spatial patterns of water chemistry in Lake George, New York. Ecological Modelling, 1996, 91, 183-192.	1.2	35
129	The Nitrogen Cycle in the North Pacific Trades Biome. , 2008, , 705-769.		35
130	KÄ«lauea lava fuels phytoplankton bloom in the North Pacific Ocean. Science, 2019, 365, 1040-1044.	6.0	35
131	Intriguing size distribution of the uncultured and globally widespread marine non-cyanobacterial diazotroph Gamma-A. ISME Journal, 2021, 15, 124-128.	4.4	35
132	Hydrogen production by Trichodesmium erythraeum Cyanothece sp. and Crocosphaera watsonii. Aquatic Microbial Ecology, 2010, 59, 197-206.	0.9	35
133	Rapid annotation of nif<scp>H</scp> gene sequences using classification and regression trees facilitates environmental functional gene analysis. Environmental Microbiology Reports, 2016, 8, 905-916.	1.0	34
134	GENOTYPIC RELATIONSHIPS IN TRICHODESMIUM (CYANOPHYCEAE) BASED ON nifH SEQUENCE COMPARISONS1. Journal of Phycology, 1993, 29, 806-810.	1.0	33
135	Expression of photosynthesis genes in relation to nitrogen fixation in the diazotrophic filamentous nonheterocystous cyanobacterium Trichodesmium sp. IMS 101. Plant Molecular Biology, 1999, 41, 89-104.	2.0	33
136	Photosynthesis in the Open Ocean. Science, 2009, 326, 945-946.	6.0	33
137	How microbes survive in the open ocean. Science, 2017, 357, 646-647.	6.0	33
138	Two Strains of Crocosphaera watsonii with Highly Conserved Genomes are Distinguished by Strain-Specific Features. Frontiers in Microbiology, 2011, 2, 261.	1.5	32
139	Antiserum to Nitrogenase Generated from an Amplified DNA Fragment from Natural Populations of Trichodesmium spp. Applied and Environmental Microbiology, 1990, 56, 3527-3531.	1.4	32
140	Hopanoid lipids may facilitate aerobic nitrogen fixation in the ocean. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18269-18271.	3.3	31
141	The Transcriptional Cycle Is Suited to Daytime N ₂ Fixation in the Unicellular Cyanobacterium â€œ Candidatus Atelocyanobacterium thalassaâ€•(UCYN-A). MBio, 2019, 10, .	1.8	31
142	UCYNâ€A3, a newly characterized open ocean sublineage of the symbiotic N₂â€fixing cyanobacterium Candidatus Atelocyanobacterium thalassa. Environmental Microbiology, 2019, 21, 111-124.	1.8	31
143	Effects of inorganic nitrogen on taxa-specific cyanobacterial growth and nifH expression in a subtropical estuary. Limnology and Oceanography, 2008, 53, 2519-2532.	1.6	30
144	Title is missing!. , 1999, 401, 255-264.		29

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145	A microarray for assessing transcription from pelagic marine microbial taxa. ISME Journal, 2014, 8, 1476-1491.	4.4	29
146	Periodic and coordinated gene expression between a diazotroph and its diatom host. ISME Journal, 2019, 13, 118-131.	4.4	29
147	Seasonal change in the abundance of Synechococcus and multiple distinct phylotypes in Monterey Bay determined by rbcL and narB quantitative PCR. Environmental Microbiology, 2012, 14, 580-593.	1.8	28
148	Arrangement of nitrogenase structural genes in an aerobic filamentous nonheterocystous cyanobacterium. Journal of Bacteriology, 1991, 173, 7055-7058.	1.0	27
149	Unexpected presence of the nitrogenâ€fixing symbiotic cyanobacterium UCYNâ€A in Monterey Bay, California. Journal of Phycology, 2020, 56, 1521-1533.	1.0	27
150	PATHWAY OF AMMONIUM ASSIMILATION IN A MARINE DIATOM DETERMINED WITH THE RADIOTRACER¹³N¹. Journal of Phycology, 1988, 24, 588-591.	1.0	26
151	Identification of Associations between Bacterioplankton and Photosynthetic Picoeukaryotes in Coastal Waters. Frontiers in Microbiology, 2016, 7, 339.	1.5	26
152	Overlooked and widespread pennate diatom-diazotroph symbioses in the sea. Nature Communications, 2022, 13, 799.	5.8	26
153	Cyanobacterial assimilatory nitrate reductase gene diversity in coastal and oligotrophic marine environments. Environmental Microbiology, 2006, 8, 2083-2095.	1.8	25
154	WATERSHED CLASSIFICATION BY DISCRIMINANT ANALYSES OF LAKEWATER-CHEMISTRY AND TERRESTRIAL CHARACTERISTICS. , 1998, 8, 497-507.		24
155	Structural analysis of the Trichodesmium nitrogenase iron protein: implications for aerobic nitrogen fixation activity. FEMS Microbiology Letters, 2006, 153, 303-309.	0.7	24
156	Diel cycling of DNA staining and nifH gene regulation in the unicellular cyanobacterium Crocosphaera watsonii strain WH 8501 (Cyanophyta). Environmental Microbiology, 2010, 12, 1001-1010.	1.8	24
157	Metatranscriptomics of N2-fixing cyanobacteria in the Amazon River plume. ISME Journal, 2015, 9, 1557-1569.	4.4	24
158	Coupling between ammonium uptake and incorporation in a marine diatom: Experiments with the short-lived radioisotope 13 N. Limnology and Oceanography, 1988, 33, 518-527.	1.6	23
159	In Situ Diazotroph Population Dynamics Under Different Resource Ratios in the North Pacific Subtropical Gyre. Frontiers in Microbiology, 2018, 9, 1616.	1.5	23
160	Distributions and Abundances of Sublineages of the N2-Fixing Cyanobacterium Candidatus Atelocyanobacterium thalassa (UCYN-A) in the New Caledonian Coral Lagoon. Frontiers in Microbiology, 2018, 9, 554.	1.5	23
161	Diversity of bacterial communities in Adirondack lakes: do species assemblages reflect lake water chemistry?. , 1999, , 77-96.		23
162	PATHWAY OF AMMONIUM ASSIMILATION IN A MARINE DIATOM DETERMINED WITH THE RADIOTRACER¹³.N. Journal of Phycology, 1988, 24, 588-591.	1.0	23

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163	Hydrogen Cycling by the Unicellular Marine Diazotroph Crocosphaera watsonii Strain WH8501. Applied and Environmental Microbiology, 2010, 76, 6797-6803.	1.4	22
164	Modeled phytoplankton diversity and productivity in the California Current System. Ecological Modelling, 2013, 264, 37-47.	1.2	22
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