Brian Palenik

List of Publications by Year
in descending order

101 papers	11,256 citations	38742 50 h-index	39675 94 g-index
101 all docs	101 docs citations	101 times ranked	10479 citing authors

#	Article	IF	Citations
1	Spatial and temporal variations in Synechococcus microdiversity in the Southern California coastal ecosystem. Environmental Microbiology, 2021, 23, 252-266.	3.8	10
2	Screening and characterization of polyhydroxyalkanoate granules, and phylogenetic analysis of polyhydroxyalkanoate synthase gene PhaC in cyanobacteria. Journal of Phycology, 2021, 57, 754-765.	2.3	6
3	Growth and grazing of the chlorarachniophyte Bigelowiella natans (Chlorarachniophyceae) on the marine cyanobacterium Synechococcus. Phycologia, 2021, 60, 375-383.	1.4	1
4	Relating sinking and suspended microbial communities in the California Current Ecosystem: digestion resistance and the contributions of phytoplankton taxa to export. Environmental Microbiology, 2021, 23, 6734-6748.	3.8	8
5	Reaction of O ₂ with a diiron protein generates a mixed-valent Fe ²⁺ /Fe ³⁺ center and peroxide. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2058-2067.	7.1	22
6	Feeding and grazing impact by the bloom-forming euglenophyte Eutreptiella eupharyngea on marine eubacteria and cyanobacteria. Harmful Algae, 2018, 73, 98-109.	4.8	10
7	Temporal dynamics of eukaryotic microbial diversity at a coastal Pacific site. ISME Journal, 2018, 12, 2278-2291.	9.8	19
8	Transcriptomic and microRNAomic profiling reveals multi-faceted mechanisms to cope with phosphate stress in a dinoflagellate. ISME Journal, 2017, 11, 2209-2218.	9.8	88
9	Use of plankton-derived vitamin B1 precursors, especially thiazole-related precursor, by key marine picoeukaryotic phytoplankton. ISME Journal, 2017, 11, 753-765.	9.8	69
10	Copper toxicity response influences mesotrophic <scp>S</scp>ynechococcus community structure. Environmental Microbiology, 2017, 19, 756-769.	3.8	6
11	The unexpected extremophile: Tolerance to fluctuating salinity in the green alga Picochlorum. Algal Research, 2016, 16, 465-472.	4.6	67
12	Characterization of Picochlorum sp. use of wastewater generated from hydrothermal liquefaction as a nitrogen source. Algal Research, 2016, 13, 311-317.	4.6	22
13	Halomethane production by vanadiumâ€dependent bromoperoxidase in marine Synechococcus. Limnology and Oceanography, 2015, 60, 1823-1835.	3.1	20
14	Molecular Mechanisms by Which Marine Phytoplankton Respond to Their Dynamic Chemical Environment. Annual Review of Marine Science, 2015, 7, 325-340.	11.6	26
15	Vitamin B1 ecophysiology of marine picoeukaryotic algae: Strainâ€specific differences and a new role for bacteria in vitamin cycling. Limnology and Oceanography, 2015, 60, 215-228.	3.1	76
16	Comparison of the Seasonal Variations of Synechococcus Assemblage Structures in Estuarine Waters and Coastal Waters of Hong Kong. Applied and Environmental Microbiology, 2015, 81, 7644-7655.	3.1	69
17	Genomes and gene expression across light and productivity gradients in eastern subtropical Pacific microbial communities. ISME Journal, 2015, 9, 1076-1092.	9.8	108
18	Genome of the halotolerant green alga <scp>P</scp>icochlorum sp. reveals strategies for thriving under fluctuating environmental conditions. Environmental Microbiology, 2015, 17, 412-426.	3.8	85

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19	Ingestion of the unicellular cyanobacterium Synechococcus by the mixotrophic red tide ciliate Mesodinium rubrum. Algae, 2015, 30, 281-290.	2.3	13
20	Fine spatial structure of genetically distinct picocyanobacterial populations across environmental gradients in the Costa Rica Dome. Limnology and Oceanography, 2014, 59, 705-723.	3.1	23
21	A Deg-protease family protein in marine Synechococcus is involved in outer membrane protein organization. Frontiers in Marine Science, 2014, 1, .	2.5	0
22	Diversity and genome dynamics of marine cyanophages using metagenomic analyses. Environmental Microbiology Reports, 2014, 6, 583-594.	2.4	26
23	Broad-host-range vector system for synthetic biology and biotechnology in cyanobacteria. Nucleic Acids Research, 2014, 42, e136-e136.	14.5	141
24	The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. PLoS Biology, 2014, 12, e1001889.	5.6	885
25	Exposure to bloom-like concentrations of two marine Synechococcus cyanobacteria (strains CC9311) Tj ETQq1 1 0.784314 rgBT /Ove		30
26	Microalgal assemblages in a poikilohaline pond. Journal of Phycology, 2014, 50, 303-309.	2.3	28
27	Genomic island genes in a coastal marine Synechococcus strain confer enhanced tolerance to copper and oxidative stress. ISME Journal, 2013, 7, 1139-1149.	9.8	56
28	Role of a Microcin-Câ€“like biosynthetic gene cluster in allelopathic interactions in marine Synechococcus. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12030-12035.	7.1	45
29	Bringing the ocean into the laboratory to probe the chemical complexity of sea spray aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7550-7555.	7.1	439
30	Impact of DNA damaging agents on genome-wide transcriptional profiles in two marine Synechococcus species. Frontiers in Microbiology, 2013, 4, 232.	3.5	25
31	Genetic Identification of a High-Affinity Ni Transporter and the Transcriptional Response to Ni Deprivation in Synechococcus sp. Strain WH8102. Applied and Environmental Microbiology, 2012, 78, 7822-7832.	3.1	23
32	Recent Functional Genomics Studies in Marine Synechococcus. Advances in Photosynthesis and Respiration, 2012, , 103-118.	1.0	2
33	Analysis of two marine metagenomes reveals the diversity of plasmids in oceanic environments. Environmental Microbiology, 2012, 14, 453-466.	3.8	45
34	Variability in Protist Grazing and Growth on Different Marine Synechococcus Isolates. Applied and Environmental Microbiology, 2011, 77, 3074-3084.	3.1	71
35	Learning to Read the Oceans. Advances in Marine Biology, 2011, 60, 1-39.	1.4	19
36	Detection and phylogenetic analysis of coastal bioaerosols using culture dependent and independent techniques. Biogeosciences, 2011, 8, 301-309.	3.3	60

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37	The green ribbon: Multiscale physical control of phytoplankton productivity and community structure over a narrow continental shelf. Limnology and Oceanography, 2011, 56, 611-626.	3.1	58
38	CHARACTERIZATION OF A FUNCTIONAL VANADIUM-DEPENDENT BROMOPEROXIDASE IN THE MARINE CYANOBACTERIUM SYNECHOCOCCUS SP. CC93111. Journal of Phycology, 2011, 47, 792-801.	2.3	31
39	Effect of organic compounds on cloud condensation nuclei (CCN) activity of sea spray aerosol produced by bubble bursting. Atmospheric Environment, 2011, 45, 7462-7469.	4.1	50
40	Selection in Coastal Synechococcus (Cyanobacteria) Populations Evaluated from Environmental Metagenomes. PLoS ONE, 2011, 6, e24249.	2.5	15
41	Temporal and spatial distributions of marine Synechococcus in the Southern California Bight assessed by hybridization to bead-arrays. Marine Ecology - Progress Series, 2011, 426, 133-147.	1.9	26
42	Computational prediction of the osmoregulation network in Synechococcus sp. WH8102. BMC Genomics, 2010, 11, 291.	2.8	14
43	PtrA is required for coordinate regulation of gene expression during phosphate stress in a marine Synechococcus. ISME Journal, 2010, 4, 908-921.	9.8	42
44	Dynamics of marine bacterial and phytoplankton populations using multiplex liquid bead array technology. Environmental Microbiology, 2010, 12, 975-989.	3.8	28
45	Nickel utilization in phytoplankton assemblages from contrasting oceanic regimes. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 553-566.	1.4	55
46	Structure of Compositionally Simple Lipopolysaccharide from Marine Synechococcus. Journal of Bacteriology, 2009, 191, 5499-5509.	2.2	62
47	Statistical Analysis of Microarray Data with Replicated Spots: A Case Study withSynechococcusWH8102. Comparative and Functional Genomics, 2009, 2009, 1-11.	2.0	5
48	Coastal Strains of Marine Synechococcus Species Exhibit Increased Tolerance to Copper Shock and a Distinctive Transcriptional Response Relative to Those of Open-Ocean Strains. Applied and Environmental Microbiology, 2009, 75, 5047-5057.	3.1	65
49	Microarray analysis of phosphate regulation in the marine cyanobacterium Synechococcus sp. WH8102. ISME Journal, 2009, 3, 835-849.	9.8	131
50	Temporal variation of Synechococcus clades at a coastal Pacific Ocean monitoring site. ISME Journal, 2009, 3, 903-915.	9.8	142
51	Coastal Synechococcus metagenome reveals major roles for horizontal gene transfer and plasmids in population diversity. Environmental Microbiology, 2009, 11, 349-359.	3.8	86
52	Wholeâ€genome microarray analyses of Synechococcusâ€“Vibrio interactions. Environmental Microbiology, 2009, 11, 2698-2709.	3.8	41
53	MOLECULAR CHARACTERIZATION AND ANTIBODY DETECTION OF A NITROGENâ€REGULATED CELLâ€SURFACE PROTEIN OF THE COCCOLITHOPHORE EMILIANIA HUXLEYI (PRYMNESIOPHYCEAE)¹. Journal of Phycology, 2009, 45, 650-659.	2.3	1
54	Diversity, function and evolution of genes coding for putative Niâ€containing superoxide dismutases. Environmental Microbiology, 2008, 10, 1831-1843.	3.8	101

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55	Characterization of a Modular, Cell-Surface Protein and Identification of a New Gene Family in the Diatom Thalassiosira pseudonana. Protist, 2008, 159, 195-207.	1.5	7
56	Unravelling the genomic mosaic of a ubiquitous genus of marine cyanobacteria. Genome Biology, 2008, 9, R90.	9.6	288
57	Ni Uptake and Limitation in Marine Synechococcus Strains. Applied and Environmental Microbiology, 2008, 74, 23-31.	3.1	92
58	The tiny eukaryote Ostreococcus provides genomic insights into the paradox of plankton speciation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7705-7710.	7.1	563
59	Immersed in situ microcosms: A tool for the assessment of pollution impact on phytoplankton. Journal of Experimental Marine Biology and Ecology, 2007, 341, 274-281.	1.5	23
60	Computational inference and experimental validation of the nitrogen assimilation regulatory network in cyanobacterium Synechococcus sp. WH 8102. Nucleic Acids Research, 2006, 34, 1050-1065.	14.5	64
61	MOLECULAR CHARACTERIZATION OF A PHOSPHATE-REGULATED CELL-SURFACE PROTEIN FROM THE COCCOLITHOPHORID,EMILIANIA HUXLEYI(PRYMNESIOPHYCEAE). Journal of Phycology, 2006, 42, 814-821.	2.3	14
62	Genome sequence of Synechococcus CC9311: Insights into adaptation to a coastal environment. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13555-13559.	7.1	230
63	Modern proteomes contain putative imprints of ancient shifts in trace metal geochemistry. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17822-17827.	7.1	215
64	Gene Expression Induced by Copper Stress in the Diatom Thalassiosira pseudonana. Eukaryotic Cell, 2006, 5, 1157-1168.	3.4	65
65	A STRESS-INDUCED PROTEIN ASSOCIATED WITH THE GIRDLE BAND REGION OF THE DIATOM THALASSIOSIRA PSEUDONANA (BACILLARIOPHYTA)1. Journal of Phycology, 2005, 41, 577-589.	2.3	53
66	Merging Biological Self-Assembly with Synthetic Chemical Tailoring: The Potential for 3-D Genetically Engineered Micro/Nano-Devices (3-D GEMS). International Journal of Applied Ceramic Technology, 2005, 2, 317-326.	2.1	67
67	Operon prediction by comparative genomics: an application to the Synechococcus sp. WH8102 genome. Nucleic Acids Research, 2004, 32, 2147-2157.	14.5	59
68	The Genome of the Diatom Thalassiosira Pseudonana: Ecology, Evolution, and Metabolism. Science, 2004, 306, 79-86.	12.6	1,862
69	Assessing the dynamics and ecology of marine picophytoplankton: The importance of the eukaryotic component. Limnology and Oceanography, 2004, 49, 168-179.	3.1	469
70	The genome of a motile marine Synechococcus. Nature, 2003, 424, 1037-1042.	27.8	611
71	Phycoerythrin-containing picoplankton in the Southern California Bight. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 2405-2422.	1.4	35
72	Characterization of ectoenzyme activity and phosphate-regulated proteins in the coccolithophorid Emiliania huxleyi. Journal of Plankton Research, 2003, 25, 1215-1225.	1.8	76

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73	A Synechococcus serotype is found preferentially in surface marine waters. Limnology and Oceanography, 2003, 48, 1744-1755.	3.1	36
74	Computational inference of regulatory pathways in microbes: an application to phosphorus assimilation pathways in Synechococcus sp. WH8102. Genome Informatics, 2003, 14, 3-13.	0.4	16
75	The genomics of symbiosis: Hosts keep the baby and the bath water. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11996-11997.	7.1	35
76	Chromatic Adaptation in Marine Synechococcus Strains. Applied and Environmental Microbiology, 2001, 67, 991-994.	3.1	174
77	A SINGLE-CELL IMMUNOASSAY FOR PHOSPHATE STRESS IN THE DINOFLAGELLATE PROROCENTRUM MINIMUM (DINOPHYCEAE). Journal of Phycology, 2001, 37, 400-410.	2.3	40
78	Swimming MarineSynechococcusStrains with Widely Different Photosynthetic Pigment Ratios Form a Monophyletic Group. Applied and Environmental Microbiology, 1999, 65, 5247-5251.	3.1	84
79	The marine cyanobacterium Synechococcus sp. WH7805 requires urease (urea amiohydrolase, EC 3.5.1.5) to utilize urea as a nitrogen source: molecular-genetic and biochemical analysis of the enzyme. Microbiology (United Kingdom), 1999, 145, 447-459.	1.8	118
80	Phosphate Stress in Cultures and Field Populations of the Dinoflagellate Prorocentrum minimum Detected by a Single-Cell Alkaline Phosphatase Assay. Applied and Environmental Microbiology, 1999, 65, 3205-3212.	3.1	138
81	Niche adaptation in ocean cyanobacteria. Nature, 1998, 396, 226-228.	27.8	170
82	Molecular Markers of Phytoplankton Physiological Status and Their Application at the Level of Individual Cells. , 1998, , 187-205.		8
83	The use of amides and other organic nitrogen sources by the phytoplankton Emiliania huxleyi. Limnology and Oceanography, 1997, 42, 1544-1551.	3.1	64
84	THE IDENTIFICATION AND PURIFICATION OF A CELL-SURFACE ALKALINE PHOSPHATASE FROM THE DINOFLAGELLATE PROROCENTRUM MINIMUM (DINOPHYCEAE)1. Journal of Phycology, 1997, 33, 602-612.	2.3	56
85	CYANOBACTERIAL EVOLUTION AND PROCHLOROPHYTE DIVERSITY AS SEEN IN DNA-DEPENDENT RNA POLYMERASE GENE SEQUENCES1. Journal of Phycology, 1996, 32, 638-646.	2.3	47
86	Synthesis and Use of Fluorescent Molecular Probes for Measuring Cell-Surface Enzymatic Oxidation of Amino Acids and Amines in Seawater. Analytical Biochemistry, 1993, 211, 210-218.	2.4	16
87	Polymerase evolution and organism evolution. Current Opinion in Genetics and Development, 1992, 2, 931-936.	3.3	21
88	Prochlorococcus marinus nov. gen. nov. sp.: an oxyphototrophic marine prokaryote containing divinyl chlorophyll a and b. Archives of Microbiology, 1992, 157, 297-300.	2.2	402
89	Multiple evolutionary origins of prochlorophytes, the chlorophyllb-containing prokaryotes. Nature, 1992, 355, 265-267.	27.8	263
90	Prochlorophyte Evolution and the Origin of Chloroplasts: Morphological and Molecular Evidence. , 1992, , 123-139.		5

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91	Potential effects of UV-B on the chemical environment of marine organisms: A review. Environmental Pollution, 1991, 70, 117-130.	7.5	67
92	Amine Oxidases of Marine Phytoplankton. Applied and Environmental Microbiology, 1991, 57, 2440-2443.	3.1	83
93	A method for the measurement of choline and hydrogen peroxide in seawater. Marine Chemistry, 1990, 30, 409-421.	2.3	19
94	Amino acid utilization by marine phytoplankton: A novel mechanism. Limnology and Oceanography, 1990, 35, 260-269.	3.1	156
95	Comparison of cell-surface L-amino acid oxidases from several marine phytoplankton. Marine Ecology - Progress Series, 1990, 59, 195-201.	1.9	100
96	Preparation and Chemistry of the Artificial Algal Culture Medium Aquil. Biological Oceanography, 1989, 6, 443-461.	0.0	461
97	Dark production of H2O2 in the Sargasso Sea. Limnology and Oceanography, 1988, 33, 1606-1611.	3.1	64
98	Hydrogen peroxide production by a marine phytoplankter1. Limnology and Oceanography, 1987, 32, 1365-1369.	3.1	113
99	TRACE METAL REDUCTION BY PHYTOPLANKTON: THE ROLE OF PLASMALEMMA REDOX ENZYMES. Journal of Phycology, 1987, 23, 237-244.	2.3	111
100	Understanding microbial genomic structures and applications to biological pathway inference. , 0, , .		0
101	Vitamin B12 auxotrophy of the red tide dinoflagellate Heterocapsa rotundata and the effects of feeding on Synechococcus and vitamin B12 availability upon phagotrophic activity. Phycologia, 0, , 1-8.	1.4	0