

Brian Palenik

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4175755/brian-palenik-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

99
papers

8,983
citations

47
h-index

94
g-index

101
ext. papers

10,241
ext. citations

7.7
avg, IF

5.64
L-index

#	Paper	IF	Citations
99	Spatial and temporal variations in <i>Synechococcus</i> microdiversity in the Southern California coastal ecosystem. <i>Environmental Microbiology</i> , 2021 , 23, 252-266	5.2	4
98	Screening and characterization of polyhydroxyalkanoate granules, and phylogenetic analysis of polyhydroxyalkanoate synthase gene PhaC in cyanobacteria. <i>Journal of Phycology</i> , 2021 , 57, 754-765	3	1
97	Relating sinking and suspended microbial communities in the California Current Ecosystem: digestion resistance and the contributions of phytoplankton taxa to export. <i>Environmental Microbiology</i> , 2021 , 23, 6734-6748	5.2	1
96	Reaction of O with a diiron protein generates a mixed-valent Fe/Fe center and peroxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2058-2067	11.5	13
95	Feeding and grazing impact by the bloom-forming euglenophyte <i>Eutreptiella eupharyngea</i> on marine eubacteria and cyanobacteria. <i>Harmful Algae</i> , 2018 , 73, 98-109	5.3	6
94	Temporal dynamics of eukaryotic microbial diversity at a coastal Pacific site. <i>ISME Journal</i> , 2018 , 12, 2278-2291	8.2	13
93	Transcriptomic and microRNAomic profiling reveals multi-faceted mechanisms to cope with phosphate stress in a dinoflagellate. <i>ISME Journal</i> , 2017 , 11, 2209-2218	11.9	56
92	Use of plankton-derived vitamin B1 precursors, especially thiazole-related precursor, by key marine picoeukaryotic phytoplankton. <i>ISME Journal</i> , 2017 , 11, 753-765	11.9	38
91	Copper toxicity response influences mesotrophic <i>Synechococcus</i> community structure. <i>Environmental Microbiology</i> , 2017 , 19, 756-769	5.2	4
90	Characterization of <i>Picochlorum</i> sp. use of wastewater generated from hydrothermal liquefaction as a nitrogen source. <i>Algal Research</i> , 2016 , 13, 311-317	5	20
89	The unexpected extremophile: Tolerance to fluctuating salinity in the green alga <i>Picochlorum</i> . <i>Algal Research</i> , 2016 , 16, 465-472	5	52
88	Comparison of the seasonal variations of <i>Synechococcus</i> assemblage structures in estuarine waters and coastal waters of Hong Kong. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 7644-55	4.8	44
87	Genomes and gene expression across light and productivity gradients in eastern subtropical Pacific microbial communities. <i>ISME Journal</i> , 2015 , 9, 1076-92	11.9	67
86	Genome of the halotolerant green alga <i>Picochlorum</i> sp. reveals strategies for thriving under fluctuating environmental conditions. <i>Environmental Microbiology</i> , 2015 , 17, 412-26	5.2	64
85	Halomethane production by vanadium-dependent bromoperoxidase in marine <i>Synechococcus</i> . <i>Limnology and Oceanography</i> , 2015 , 60, 1823-1835	4.8	17
84	Molecular mechanisms by which marine phytoplankton respond to their dynamic chemical environment. <i>Annual Review of Marine Science</i> , 2015 , 7, 325-40	15.4	14
83	Vitamin B1 ecophysiology of marine picoeukaryotic algae: Strain-specific differences and a new role for bacteria in vitamin cycling. <i>Limnology and Oceanography</i> , 2015 , 60, 215-228	4.8	49

82	Ingestion of the unicellular cyanobacterium <i>Synechococcus</i> by the mixotrophic red tide ciliate <i>Mesodinium rubrum</i> . <i>Algae</i> , 2015 , 30, 281-290	2.4	11
81	Microalgal assemblages in a poikilohaline pond. <i>Journal of Phycology</i> , 2014 , 50, 303-9	3	19
80	Fine spatial structure of genetically distinct picocyanobacterial populations across environmental gradients in the Costa Rica Dome. <i>Limnology and Oceanography</i> , 2014 , 59, 705-723	4.8	19
79	Diversity and genome dynamics of marine cyanophages using metagenomic analyses. <i>Environmental Microbiology Reports</i> , 2014 , 6, 583-94	3.7	14
78	Broad-host-range vector system for synthetic biology and biotechnology in cyanobacteria. <i>Nucleic Acids Research</i> , 2014 , 42, e136	20.1	108
77	The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): illuminating the functional diversity of eukaryotic life in the oceans through transcriptome sequencing. <i>PLoS Biology</i> , 2014 , 12, e1001889	9.7	617
76	Exposure to bloom-like concentrations of two marine <i>Synechococcus</i> cyanobacteria (strains CC9311 and CC9902) differentially alters fish behaviour 2014 , 2, cou020		23
75	Genomic island genes in a coastal marine <i>Synechococcus</i> strain confer enhanced tolerance to copper and oxidative stress. <i>ISME Journal</i> , 2013 , 7, 1139-49	11.9	32
74	Role of a microcin-C-like biosynthetic gene cluster in allelopathic interactions in marine <i>Synechococcus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12030-5	11.5	39
73	Bringing the ocean into the laboratory to probe the chemical complexity of sea spray aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7550-5	11.5	345
72	Impact of DNA damaging agents on genome-wide transcriptional profiles in two marine <i>Synechococcus</i> species. <i>Frontiers in Microbiology</i> , 2013 , 4, 232	5.7	12
71	Analysis of two marine metagenomes reveals the diversity of plasmids in oceanic environments. <i>Environmental Microbiology</i> , 2012 , 14, 453-66	5.2	32
70	Recent Functional Genomics Studies in Marine <i>Synechococcus</i> . <i>Advances in Photosynthesis and Respiration</i> , 2012 , 103-118	1.7	2
69	Genetic identification of a high-affinity Ni transporter and the transcriptional response to Ni deprivation in <i>Synechococcus</i> sp. strain WH8102. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 7822-32	4.8	18
68	Learning to read the oceans genomics of marine phytoplankton. <i>Advances in Marine Biology</i> , 2011 , 60, 1-39	2.1	15
67	Detection and phylogenetic analysis of coastal bioaerosols using culture dependent and independent techniques. <i>Biogeosciences</i> , 2011 , 8, 301-309	4.6	51
66	The green ribbon: Multiscale physical control of phytoplankton productivity and community structure over a narrow continental shelf. <i>Limnology and Oceanography</i> , 2011 , 56, 611-626	4.8	47
65	CHARACTERIZATION OF A FUNCTIONAL VANADIUM-DEPENDENT BROMOPEROXIDASE IN THE MARINE CYANOBACTERIUM <i>SYNECHOCOCCUS</i> SP. CC9311(1). <i>Journal of Phycology</i> , 2011 , 47, 792-801	3	28

64	Effect of organic compounds on cloud condensation nuclei (CCN) activity of sea spray aerosol produced by bubble bursting. <i>Atmospheric Environment</i> , 2011 , 45, 7462-7469	5.3	41
63	Variability in protist grazing and growth on different marine <i>Synechococcus</i> isolates. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 3074-84	4.8	58
62	Selection in coastal <i>Synechococcus</i> (cyanobacteria) populations evaluated from environmental metagenomes. <i>PLoS ONE</i> , 2011 , 6, e24249	3.7	15
61	Temporal and spatial distributions of marine <i>Synechococcus</i> in the Southern California Bight assessed by hybridization to bead-arrays. <i>Marine Ecology - Progress Series</i> , 2011 , 426, 133-147	2.6	21
60	PtrA is required for coordinate regulation of gene expression during phosphate stress in a marine <i>Synechococcus</i> . <i>ISME Journal</i> , 2010 , 4, 908-21	11.9	34
59	Dynamics of marine bacterial and phytoplankton populations using multiplex liquid bead array technology. <i>Environmental Microbiology</i> , 2010 , 12, 975-89	5.2	18
58	Nickel utilization in phytoplankton assemblages from contrasting oceanic regimes. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010 , 57, 553-566	2.5	38
57	Computational prediction of the osmoregulation network in <i>Synechococcus</i> sp. WH8102. <i>BMC Genomics</i> , 2010 , 11, 291	4.5	12
56	Structure of compositionally simple lipopolysaccharide from marine <i>synechococcus</i> . <i>Journal of Bacteriology</i> , 2009 , 191, 5499-509	3.5	47
55	Statistical analysis of microarray data with replicated spots: a case study with <i>synechococcus</i> WH8102. <i>Comparative and Functional Genomics</i> , 2009 , 950171		3
54	Coastal strains of marine <i>Synechococcus</i> species exhibit increased tolerance to copper shock and a distinctive transcriptional response relative to those of open-ocean strains. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 5047-57	4.8	53
53	Microarray analysis of phosphate regulation in the marine cyanobacterium <i>Synechococcus</i> sp. WH8102. <i>ISME Journal</i> , 2009 , 3, 835-49	11.9	97
52	Temporal variation of <i>Synechococcus</i> clades at a coastal Pacific Ocean monitoring site. <i>ISME Journal</i> , 2009 , 3, 903-15	11.9	116
51	Coastal <i>Synechococcus</i> metagenome reveals major roles for horizontal gene transfer and plasmids in population diversity. <i>Environmental Microbiology</i> , 2009 , 11, 349-59	5.2	77
50	Whole-genome microarray analyses of <i>Synechococcus</i> - <i>Vibrio</i> interactions. <i>Environmental Microbiology</i> , 2009 , 11, 2698-709	5.2	34
49	MOLECULAR CHARACTERIZATION AND ANTIBODY DETECTION OF A NITROGEN-REGULATED CELL-SURFACE PROTEIN OF THE COCCOLITHOPHORE EMILIANIA HUXLEYI (PRYMNESIOPHYCEAE)(1). <i>Journal of Phycology</i> , 2009 , 45, 650-9	3	1
48	Diversity, function and evolution of genes coding for putative Ni-containing superoxide dismutases. <i>Environmental Microbiology</i> , 2008 , 10, 1831-43	5.2	89
47	Characterization of a modular, cell-surface protein and identification of a new gene family in the diatom <i>Thalassiosira pseudonana</i> . <i>Protist</i> , 2008 , 159, 195-207	2.5	7

46	Unraveling the genomic mosaic of a ubiquitous genus of marine cyanobacteria. <i>Genome Biology</i> , 2008 , 9, R90	18.3	242
45	Ni uptake and limitation in marine <i>Synechococcus</i> strains. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 23-31	4.8	70
44	Immersed in situ microcosms: A tool for the assessment of pollution impact on phytoplankton. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007 , 341, 274-281	2.1	17
43	The tiny eukaryote <i>Ostreococcus</i> provides genomic insights into the paradox of plankton speciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 7705-10	11.5	482
42	Genome sequence of <i>Synechococcus</i> CC9311: Insights into adaptation to a coastal environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 13555-9	11.5	200
41	Modern proteomes contain putative imprints of ancient shifts in trace metal geochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 17822-7	11.5	182
40	Gene expression induced by copper stress in the diatom <i>Thalassiosira pseudonana</i> . <i>Eukaryotic Cell</i> , 2006 , 5, 1157-68		51
39	Computational inference and experimental validation of the nitrogen assimilation regulatory network in cyanobacterium <i>Synechococcus</i> sp. WH 8102. <i>Nucleic Acids Research</i> , 2006 , 34, 1050-65	20.1	54
38	MOLECULAR CHARACTERIZATION OF A PHOSPHATE-REGULATED CELL-SURFACE PROTEIN FROM THE COCCOLITHOPHORID, EMILIANIA HUXLEYI (PRYMNESIOPHYCEAE)1. <i>Journal of Phycology</i> , 2006 , 42, 814-821	3	13
37	A STRESS-INDUCED PROTEIN ASSOCIATED WITH THE GIRDLE BAND REGION OF THE DIATOM THALASSIOSIRA PSEUDONANA (BACILLARIOPHYTA)1. <i>Journal of Phycology</i> , 2005 , 41, 577-589	3	45
36	Merging Biological Self-Assembly with Synthetic Chemical Tailoring: The Potential for 3-D Genetically Engineered Micro/Nano-Devices (3-D GEMS). <i>International Journal of Applied Ceramic Technology</i> , 2005 , 2, 317-326	2	60
35	Operon prediction by comparative genomics: an application to the <i>Synechococcus</i> sp. WH8102 genome. <i>Nucleic Acids Research</i> , 2004 , 32, 2147-57	20.1	49
34	The genome of the diatom <i>Thalassiosira pseudonana</i> : ecology, evolution, and metabolism. <i>Science</i> , 2004 , 306, 79-86	33.3	1586
33	Assessing the dynamics and ecology of marine picophytoplankton: The importance of the eukaryotic component. <i>Limnology and Oceanography</i> , 2004 , 49, 168-179	4.8	346
32	A <i>Synechococcus</i> serotype is found preferentially in surface marine waters. <i>Limnology and Oceanography</i> , 2003 , 48, 1744-1755	4.8	33
31	The genome of a motile marine <i>Synechococcus</i> . <i>Nature</i> , 2003 , 424, 1037-42	50.4	534
30	Phycocyanin-containing picoplankton in the Southern California Bight. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003 , 50, 2405-2422	2.3	26
29	Characterization of ectoenzyme activity and phosphate-regulated proteins in the coccolithophorid <i>Emiliana huxleyi</i> . <i>Journal of Plankton Research</i> , 2003 , 25, 1215-1225	2.2	57

28	Computational inference of regulatory pathways in microbes: an application to phosphorus assimilation pathways in <i>Synechococcus</i> sp. WH8102. <i>Genome Informatics</i> , 2003 , 14, 3-13		15
27	The genomics of symbiosis: hosts keep the baby and the bath water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 11996-7	11.5	25
26	A SINGLE-CELL IMMUNOASSAY FOR PHOSPHATE STRESS IN THE DINOFLAGELLATE PROROCENTRUM MINIMUM (DINOPHYCEAE). <i>Journal of Phycology</i> , 2001 , 37, 400-410	3	37
25	Chromatic adaptation in marine <i>Synechococcus</i> strains. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 991-4	4.8	150
24	Swimming marine <i>Synechococcus</i> strains with widely different photosynthetic pigment ratios form a monophyletic group. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 5247-51	4.8	73
23	The marine cyanobacterium <i>Synechococcus</i> sp. WH7805 requires urease (urea amidohydrolase, EC 3.5.1.5) to utilize urea as a nitrogen source: molecular-genetic and biochemical analysis of the enzyme. <i>Microbiology (United Kingdom)</i> , 1999 , 145 (Pt 2), 447-459	2.9	96
22	Phosphate stress in cultures and field populations of the dinoflagellate prorocentrum minimum detected by a single-cell alkaline phosphatase assay. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 3205-12	4.8	106
21	Niche adaptation in ocean cyanobacteria. <i>Nature</i> , 1998 , 396, 226-228	50.4	138
20	Molecular Markers of Phytoplankton Physiological Status and Their Application at the Level of Individual Cells 1998 , 187-205		7
19	The use of amides and other organic nitrogen sources by the phytoplankton <i>Emiliana huxleyi</i> . <i>Limnology and Oceanography</i> , 1997 , 42, 1544-1551	4.8	51
18	THE IDENTIFICATION AND PURIFICATION OF A CELL-SURFACE ALKALINE PHOSPHATASE FROM THE DINOFLAGELLATE PROROCENTRUM MINIMUM (DINOPHYCEAE)1. <i>Journal of Phycology</i> , 1997 , 33, 602-612	3	47
17	CYANOBACTERIAL EVOLUTION AND PROCHLOROPHYTE DIVERSITY AS SEEN IN DNA-DEPENDENT RNA POLYMERASE GENE SEQUENCES1. <i>Journal of Phycology</i> , 1996 , 32, 638-646	3	43
16	Synthesis and use of fluorescent molecular probes for measuring cell-surface enzymatic oxidation of amino acids and amines in seawater. <i>Analytical Biochemistry</i> , 1993 , 211, 210-8	3.1	15
15	Polymerase evolution and organism evolution. <i>Current Opinion in Genetics and Development</i> , 1992 , 2, 931-6	4.9	15
14	<i>Prochlorococcus marinus</i> nov. gen. nov. sp.: an oxyphototrophic marine prokaryote containing divinyl chlorophyll a and b. <i>Archives of Microbiology</i> , 1992 , 157, 297-300	3	337
13	Multiple evolutionary origins of prochlorophytes, the chlorophyll b-containing prokaryotes. <i>Nature</i> , 1992 , 355, 265-7	50.4	224
12	Prochlorophyte Evolution and the Origin of Chloroplasts: Morphological and Molecular Evidence 1992 , 123-139		3
11	Potential effects of UV-B on the chemical environment of marine organisms: a review. <i>Environmental Pollution</i> , 1991 , 70, 117-30	9.3	53

10	Amine oxidases of marine phytoplankton. <i>Applied and Environmental Microbiology</i> , 1991 , 57, 2440-3	4.8	68
9	A method for the measurement of choline and hydrogen peroxide in seawater. <i>Marine Chemistry</i> , 1990 , 30, 409-421	3.7	17
8	Amino acid utilization by marine phytoplankton: A novel mechanism. <i>Limnology and Oceanography</i> , 1990 , 35, 260-269	4.8	122
7	Comparison of cell-surface L-amino acid oxidases from several marine phytoplankton. <i>Marine Ecology - Progress Series</i> , 1990 , 59, 195-201	2.6	76
6	Preparation and Chemistry of the Artificial Algal Culture Medium Aquil 1989 , 6, 443-461		316
5	Dark production of H ₂ O ₂ in the Sargasso Sea. <i>Limnology and Oceanography</i> , 1988 , 33, 1606-1611	4.8	56
4	Hydrogen peroxide production by a marine phytoplankter ¹ . <i>Limnology and Oceanography</i> , 1987 , 32, 1365-1369	4.8	89
3	TRACE METAL REDUCTION BY PHYTOPLANKTON: THE ROLE OF PLASMALEMMA REDOX ENZYMES ^{1,2} . <i>Journal of Phycology</i> , 1987 , 23, 237-244	3	101
2	Vitamin B ₁₂ auxotrophy of the red tide dinoflagellate <i>Heterocapsa rotundata</i> and the effects of feeding on <i>Synechococcus</i> and vitamin B ₁₂ availability upon phagotrophic activity. <i>Phycologia</i> , 1-8	2.7	
1	Growth and grazing of the chlorarachniophyte <i>Bigelowiella natans</i> (Chlorarachniophyceae) on the marine cyanobacterium <i>Synechococcus</i> . <i>Phycologia</i> , 1-9	2.7	