Donald A Bryant

List of Publications by Year
in descending order

294 papers	18,211 citations	8172 76 h-index	22808 112 g-index
302 all docs	302 docs citations	302 times ranked	10597 citing authors

#	Article	IF	Citations
1	Prokaryotic photosynthesis and phototrophy illuminated. Trends in Microbiology, 2006, 14, 488-496.	3.5	470
2	<i>Candidatus</i> Chloracidobacterium thermophilum: An Aerobic Phototrophic Acidobacterium. Science, 2007, 317, 523-526.	6.0	384
3	The complete genome sequence of Chlorobium tepidum TLS, a photosynthetic, anaerobic, green-sulfur bacterium. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9509-9514.	3.3	362
4	The structure of cyanobacterial phycobilisomes: a model. Archives of Microbiology, 1979, 123, 113-127.	1.0	344
5	Extensive remodeling of a cyanobacterial photosynthetic apparatus in far-red light. Science, 2014, 345, 1312-1317.	6.0	332
6	The Tricarboxylic Acid Cycle in Cyanobacteria. Science, 2011, 334, 1551-1553.	6.0	312
7	Alternating <i>syn-anti</i> bacteriochlorophylls form concentric helical nanotubes in chlorosomes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8525-8530.	3.3	283
8	Chlorophyll Biosynthesis in Bacteria: The Origins of Structural and Functional Diversity. Annual Review of Microbiology, 2007, 61, 113-129.	2.9	249
9	Type IV pilus biogenesis and motility in the cyanobacteriumSynechocystissp. PCC6803. Molecular Microbiology, 2000, 37, 941-951.	1.2	226
10	Photosystem I. , 1991, , 83-177.		221
11	Mechanisms and Evolution of Oxidative Sulfur Metabolism in Green Sulfur Bacteria. Frontiers in Microbiology, 2011, 2, 116.	1.5	206
12	Community ecology of hot spring cyanobacterial mats: predominant populations and their functional potential. ISME Journal, 2011, 5, 1262-1278.	4.4	206
13	Characterization and structural properties of the major biliproteins of Anabaena sp.. Archives of Microbiology, 1976, 110, 61-75.	1.0	203
14	Biosynthesis of the modified tetrapyrrolesâ€"the pigments of life. Journal of Biological Chemistry, 2020, 295, 6888-6925.	1.6	170
15	Complete Genome of Ignavibacterium album, a Metabolically Versatile, Flagellated, Facultative Anaerobe from the Phylum Chlorobi. Frontiers in Microbiology, 2012, 3, 185.	1.5	168
16	Temporal metatranscriptomic patterning in phototrophic Chloroflexi inhabiting a microbial mat in a geothermal spring. ISME Journal, 2013, 7, 1775-1789.	4.4	168
17	Chlorobium Tepidum: Insights into the Structure, Physiology, and Metabolism of a Green Sulfur Bacterium Derived from the Complete Genome Sequence. Photosynthesis Research, 2003, 78, 93-117.	1.6	158
18	Adaptive and acclimative responses of cyanobacteria to farâ€red light. Environmental Microbiology, 2015, 17, 3450-3465.	1.8	158

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19	Synechococcus sp. Strain PCC 7002 Transcriptome: Acclimation to Temperature, Salinity, Oxidative Stress, and Mixotrophic Growth Conditions. Frontiers in Microbiology, 2012, 3, 354.	1.5	157
20	Solar hydrogen-producing bionanodevice outperforms natural photosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20988-20991.	3.3	156
21	Molecular characterization of ferredoxin-NADP+ oxidoreductase in cyanobacteria: cloning and sequence of the petH gene of Synechococcus sp. PCC 7002 and studies on the gene product. Biochemistry, 1992, 31, 3092-3102.	1.2	155
22	Occurrence of Far-Red Light Photoacclimation (FaRLiP) in Diverse Cyanobacteria. Life, 2015, 5, 4-24.	1.1	155
23	Light-dependent chlorophyll f synthase is a highly divergent paralog of PsbA of photosystem II. Science, 2016, 353, .	6.0	155
24	The role of biology in planetary evolution: cyanobacterial primary production in lowâ€oxygen Proterozoic oceans. Environmental Microbiology, 2016, 18, 325-340.	1.8	151
25	The structure of Gloeobacter violaceus and its phycobilisomes. Archives of Microbiology, 1981, 129, 181-189.	1.0	146
26	Comparative and Functional Genomics of Anoxygenic Green Bacteria from the Taxa Chlorobi, Chloroflexi, and Acidobacteria. Advances in Photosynthesis and Respiration, 2012, , 47-102.	1.0	145
27	Wiring Photosystem I for Direct Solar Hydrogen Production. Biochemistry, 2010, 49, 404-414.	1.2	143
28	Photosystem I/Molecular Wire/Metal Nanoparticle Bioconjugates for the Photocatalytic Production of H₂. Journal of the American Chemical Society, 2008, 130, 6308-6309.	6.6	135
29	Longâ€range organization of bacteriochlorophyll in chlorosomes of <i>Chlorobium tepidum</i> investigated by cryoâ€electron microscopy. FEBS Letters, 2007, 581, 5435-5439.	1.3	129
30	Transcription Profiling of the Model Cyanobacterium Synechococcus sp. Strain PCC 7002 by Next-Gen (SOLiDâ„¢) Sequencing of cDNA. Frontiers in Microbiology, 2011, 2, 41.	1.5	127
31	Acclimation of the Global Transcriptome of the Cyanobacterium Synechococcus sp. Strain PCC 7002 to Nutrient Limitations and Different Nitrogen Sources. Frontiers in Microbiology, 2012, 3, 145.	1.5	124
32	Recruitment of a Foreign Quinone into the A1 Site of Photosystem I. Journal of Biological Chemistry, 2000, 275, 8523-8530.	1.6	123
33	The Dark Side of the Mushroom Spring Microbial Mat: Life in the Shadow of Chlorophototrophs. I. Microbial Diversity Based on 16S rRNA Gene Amplicons and Metagenomic Sequencing. Frontiers in Microbiology, 2016, 7, 919.	1.5	123
34	Site-directed conversion of a cysteine to aspartate leads to the assembly of a N iron-sulfur[3Fe-4S] cluster to PsaC of photosystem I. The photoreduction of FA is independent of FB. Biochemistry, 1992, 31, 5093-5099.	1.2	119
35	Altered carbohydrate metabolism in glycogen synthase mutants of Synechococcus sp. strain PCC 7002: Cell factories for soluble sugars. Metabolic Engineering, 2013, 16, 56-67.	3.6	116
36	The microbiomes of blowflies and houseflies as bacterial transmission reservoirs. Scientific Reports, 2017, 7, 16324.	1.6	115

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37	A physiological perspective on the origin and evolution of photosynthesis. FEMS Microbiology Reviews, 2018, 42, 205-231.	3.9	115
38	Assembly of Photosystem I. Journal of Biological Chemistry, 2002, 277, 20343-20354.	1.6	113
39	Complete Genome Sequence of the Aerobic CO-Oxidizing Thermophile Thermomicrobium roseum. PLoS ONE, 2009, 4, e4207.	1.1	113
40	Community Structure and Function of High-Temperature Chlorophototrophic Microbial Mats Inhabiting Diverse Geothermal Environments. Frontiers in Microbiology, 2013, 4, 106.	1.5	112
41	Ether- and Ester-Bound <i>iso</i> -Diabolic Acid and Other Lipids in Members of Acidobacteria Subdivision 4. Applied and Environmental Microbiology, 2014, 80, 5207-5218.	1.4	112
42	Seeing green bacteria in a new light: genomics-enabled studies of the photosynthetic apparatus in green sulfur bacteria and filamentous anoxygenic phototrophic bacteria. Archives of Microbiology, 2004, 182, 265-276.	1.0	108
43	â€˜<i>Candidatus</i> Thermochlorobacter aerophilum:â€™ an aerobic chlorophotoheterotrophic member of the phylum <i>Chlorobi</i> defined by metagenomics and metatranscriptomics. ISME Journal, 2012, 6, 1869-1882.	4.4	108
44	Molecular cloning and nucleotide sequence of the psaA and psaB genes of the cyanobacterium Synechococcus sp. PCC 7002. Plant Molecular Biology, 1987, 9, 453-468.	2.0	107
45	Expression of Genes in Cyanobacteria: Adaptation of Endogenous Plasmids as Platforms for High-Level Gene Expression in Synechococcus sp. PCC 7002. Methods in Molecular Biology, 2011, 684, 273-293.	0.4	107
46	Characterization of <i>psaI</i> and <i>psaL</i> Mutants of <i>Synechococcus</i> sp. Strain PCC 7002: A New Model for State Transitions in Cyanobacteria. Photochemistry and Photobiology, 1996, 64, 53-66.	1.3	104
47	Diel metabolomics analysis of a hot spring chlorophototrophic microbial mat leads to new hypotheses of community member metabolisms. Frontiers in Microbiology, 2015, 6, 209.	1.5	104
48	State transitions in a phycobilisome-less mutant of the cyanobacterium Synechococcus sp. PCC 7002. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 974, 66-73.	0.5	103
49	The biochemical basis for structural diversity in the carotenoids of chlorophototrophic bacteria. Photosynthesis Research, 2008, 97, 121-140.	1.6	101
50	Roles of xanthophyll carotenoids in protection against photoinhibition and oxidative stress in the cyanobacterium Synechococcus sp. strain PCC 7002. Archives of Biochemistry and Biophysics, 2010, 504, 86-99.	1.4	101
51	Metatranscriptomic analyses of chlorophototrophs of a hot-spring microbial mat. ISME Journal, 2011, 5, 1279-1290.	4.4	101
52	Temperature-regulated mRNA accumulation and stabilization for fatty acid desaturase genes in the cyanobacterium Synechococcus sp. strain PCC 7002. Molecular Microbiology, 1997, 23, 1281-1292.	1.2	100
53	Cultivation and Genomic, Nutritional, and Lipid Biomarker Characterization of <i>Roseiflexus</i> Strains Closely Related to Predominant <i>In Situ</i> Populations Inhabiting Yellowstone Hot Spring Microbial Mats. Journal of Bacteriology, 2010, 192, 3033-3042.	1.0	100
54	The Dark Side of the Mushroom Spring Microbial Mat: Life in the Shadow of Chlorophototrophs. II. Metabolic Functions of Abundant Community Members Predicted from Metagenomic Analyses. Frontiers in Microbiology, 2017, 8, 943.	1.5	100

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55	ApcD is necessary for efficient energy transfer from phycobilisomes to photosystem I and helps to prevent photoinhibition in the cyanobacterium Synechococcus sp. PCC 7002. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1122-1128.	0.5	97
56	How nature designs light-harvesting antenna systems: design principles and functional realization in chlorophototrophic prokaryotes. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 033001.	0.6	97
57	Chloracidobacterium thermophilum gen. nov., sp. nov.: an anoxygenic microaerophilic chlorophotoheterotrophic acidobacterium. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 1426-1430.	0.8	96
58	Bacteriochlorophyllide c C-8 2 and C-12 1 Methyltransferases Are Essential for Adaptation to Low Light in Chlorobaculum tepidum. Journal of Bacteriology, 2007, 189, 6176-6184.	1.0	95
59	Chlorosomes: Antenna Organelles in Photosynthetic Green Bacteria. Microbiology Monographs, 2006, , 79-114.	0.3	94
60	Diversity of Chlorophototrophic Bacteria Revealed in the Omics Era. Annual Review of Plant Biology, 2018, 69, 21-49.	8.6	94
61	Light regulation of pigment and photosystem biosynthesis in cyanobacteria. Current Opinion in Plant Biology, 2017, 37, 24-33.	3.5	93
62	Genetic Manipulation of Carotenoid Biosynthesis in the Green Sulfur Bacterium Chlorobium tepidum. Journal of Bacteriology, 2004, 186, 5210-5220.	1.0	92
63	Regulatory Roles for IscA and SufA in Iron Homeostasis and Redox Stress Responses in the Cyanobacterium Synechococcus sp. Strain PCC 7002. Journal of Bacteriology, 2006, 188, 3182-3191.	1.0	88
64	Chromosomal Gene Inactivation in the Green Sulfur Bacterium Chlorobium tepidum by Natural Transformation. Applied and Environmental Microbiology, 2001, 67, 2538-2544.	1.4	87
65	Identification and Characterization of a New Class of Bilin Lyase. Journal of Biological Chemistry, 2006, 281, 17768-17778.	1.6	87
66	Biogenesis of Phycobiliproteins. Journal of Biological Chemistry, 2008, 283, 7503-7512.	1.6	87
67	The Photoregulated Expression of Multiple Phycocyanin Species. A General Mechanism for the Control of Phycocyanin Synthesis is Chromatically Adapting Cyanobacteria. FEBS Journal, 1981, 119, 425-429.	0.2	85
68	Assembly of Photosystem I. Journal of Biological Chemistry, 2002, 277, 20355-20366.	1.6	85
69	Transcriptional Regulation of the CO 2 -Concentrating Mechanism in a Euryhaline, Coastal Marine Cyanobacterium, Synechococcus sp. Strain PCC 7002: Role of NdhR/CcmR. Journal of Bacteriology, 2007, 189, 3335-3347.	1.0	85
70	Phycobilisome structure in the cyanobacteria Mastigocladus laminosus and Anabaena sp. PCC 7120. FEBS Journal, 1992, 205, 907-915.	0.2	82
71	Identification of a fourth family of lycopene cyclases in photosynthetic bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11784-11789.	3.3	82
72	RfpA, RfpB, and RfpC are the Master Control Elements of Far-Red Light Photoacclimation (FaRLiP). Frontiers in Microbiology, 2015, 6, 1303.	1.5	82

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73	Growth on Urea Can Trigger Death and Peroxidation of the Cyanobacterium <i>Synechococcus</i> sp. Strain PCC 7002. Applied and Environmental Microbiology, 1998, 64, 2361-2366.	1.4	82
74	The sufR Gene (sll0088 in Synechocystis sp. Strain PCC 6803) Functions as a Repressor of the sufBCDS Operon in Iron-Sulfur Cluster Biogenesis in Cyanobacteria. Journal of Bacteriology, 2004, 186, 956-967.	1.0	81
75	Complete genome of <i>Candidatus</i> Chloracidobacterium thermophilum, a chlorophyllâ€based photoheterotroph belonging to the phylum <i>Acidobacteria</i>. Environmental Microbiology, 2012, 14, 177-190.	1.8	79
76	Effects of Chromatic Illumination on Cyanobacterial Phycobilisomes. Evidence for the Specific Induction of a Second Pair of Phycocyanin Subunits in Pseudanabaena 7409 Grown in Red Light. FEBS Journal, 1981, 119, 415-424.	0.2	78
77	Gene Inactivation in the Cyanobacterium <I>Synechococcus </I>sp. PCC 7002 and the Green Sulfur Bacterium <I>Chlorobium tepidum</I> Using In Vitro-Made DNA Constructs and Natural Transformation. , 2004, 274, 325-340.		78
78	Reconstitution of electron transport in photosystem I with PsaC and PsaD proteins expressed in Escherichia coli. FEBS Letters, 1990, 276, 175-180.	1.3	77
79	Monomeric C-phycocyanin at room temperature and 77 K: resolution of the absorption and fluorescence spectra of the individual chromophores and the energy-transfer rate constants. The Journal of Physical Chemistry, 1993, 97, 9852-9862.	2.9	77
80	The Biosynthetic Pathway for Synechoxanthin, an Aromatic Carotenoid Synthesized by the Euryhaline, Unicellular Cyanobacterium <i>Synechococcus</i> sp. Strain PCC 7002. Journal of Bacteriology, 2008, 190, 7966-7974.	1.0	77
81	Comparison of Calculated and Experimentally Resolved Rate Constants for Excitation Energy Transfer in C-Phycocyanin. 2. Trimers. The Journal of Physical Chemistry, 1995, 99, 8420-8431.	2.9	76
82	The Biosynthetic Pathway for Myxol-2â€² Fucoside (Myxoxanthophyll) in the Cyanobacterium <i>Synechococcus</i> sp. Strain PCC 7002. Journal of Bacteriology, 2009, 191, 3292-3300.	1.0	76
83	Inference of interactions in cyanobacterialâ€“heterotrophic co-cultures via transcriptome sequencing. ISME Journal, 2014, 8, 2243-2255.	4.4	75
84	Far-red light photoacclimation (FaRLiP) in Synechococcus sp. PCC 7335. II.Characterization of phycobiliproteins produced during acclimation to far-red light. Photosynthesis Research, 2017, 131, 187-202.	1.6	75
85	A Novel Nitrate/Nitrite Permease in the Marine Cyanobacterium <i>Synechococcus</i> sp. Strain PCC 7002. Journal of Bacteriology, 1999, 181, 7363-7372.	1.0	75
86	Spectroscopic studies of phycobilisome subcore preparations lacking key core chromophores: Assignment of excited state energies to the Lcm, Î²18 and Î±AP-B chromophores. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1186, 153-162.	0.5	74
87	The bchU Gene of Chlorobium tepidum Encodes the C-20 Methyltransferase in Bacteriochlorophyll c Biosynthesis. Journal of Bacteriology, 2004, 186, 2558-2566.	1.0	72
88	Genetic analysis of a 9 kDa phycocyanin-associated linker polypeptide. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1019, 29-41.	0.5	71
89	Chlorobium tepidum Mutant Lacking Bacteriochlorophyll c Made by Inactivation of the bchK Gene, Encoding Bacteriochlorophyll c Synthase. Journal of Bacteriology, 2002, 184, 3368-3376.	1.0	70
90	Biosynthesis of Cyanobacterial Phycobiliproteins in <i>Escherichia coli</i> : Chromophorylation Efficiency and Specificity of All Bilin Lyases from <i>Synechococcus</i> sp. Strain PCC 7002. Applied and Environmental Microbiology, 2010, 76, 2729-2739.	1.4	70

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91	Nine Mutants of Chlorobium tepidum Each Unable To Synthesize a Different Chlorosome Protein Still Assemble Functional Chlorosomes. Journal of Bacteriology, 2004, 186, 646-653.	1.0	69
92	Biochemical Validation of the Glyoxylate Cycle in the Cyanobacterium Chlorogloeopsis fritschii Strain PCC 9212. Journal of Biological Chemistry, 2015, 290, 14019-14030.	1.6	69
93	Deletion of the PsaF Polypeptide Modifies the Environment of the Redox-Active Phylloquinone (A1). Evidence for Unidirectionality of Electron Transfer in Photosystem I. Journal of Physical Chemistry B, 1998, 102, 8288-8299.	1.2	68
94	The molecular dimension of microbial species: 3. Comparative genomics of Synechococcus strains with different light responses and in situ diel transcription patterns of associated putative ecotypes in the Mushroom Spring microbial mat. Frontiers in Microbiology, 2015, 6, 604.	1.5	67
95	Far-red light photoacclimation (FaRLiP) in Synechococcus sp. PCC 7335: I. Regulation of FaRLiP gene expression. Photosynthesis Research, 2017, 131, 173-186.	1.6	67
96	Comparison of Calculated and Experimentally Resolved Rate Constants for Excitation Energy Transfer in C-Phycocyanin. 1. Monomers. The Journal of Physical Chemistry, 1995, 99, 8412-8419.	2.9	66
97	Subcellular Localization of Chlorosome Proteins in Chlorobium tepidum and Characterization of Three New Chlorosome Proteins:â€‰ CsmF, CsmH, and CsmX. Biochemistry, 2002, 41, 4358-4370.	1.2	66
98	Low-temperature-induced desaturation of fatty acids and expression of desaturase genes in the cyanobacterium Synechococcus sp. PCC 7002. FEMS Microbiology Letters, 2006, 152, 313-320.	0.7	66
99	SufR Coordinates Two [4Fe-4S]2+, 1+ Clusters and Functions as a Transcriptional Repressor of the sufBCDS Operon and an Autoregulator of sufR in Cyanobacteria. Journal of Biological Chemistry, 2007, 282, 31909-31919.	1.6	65
100	Identification of the Bacteriochlorophylls, Carotenoids, Quinones, Lipids, and Hopanoids of "Candidatus Chloracidobacterium thermophilum". Journal of Bacteriology, 2012, 194, 1158-1168.	1.0	65
101	Nutrient requirements and growth physiology of the photoheterotrophic Acidobacterium, Chloracidobacterium thermophilum. Frontiers in Microbiology, 2015, 06, 226.	1.5	65
102	Characterization of the biliproteins of Gloeobacter violaceus chromophore content of a cyanobacterial phycoerythrin carrying phycourobilin chromophore. Archives of Microbiology, 1981, 129, 190-198.	1.0	63
103	Biogenesis of Phycobiliproteins. Journal of Biological Chemistry, 2008, 283, 7513-7522.	1.6	62
104	A Panoply of Phototrophs: An Overview of the Thermophilic Chlorophototrophs of the Microbial Mats of Alkaline Siliceous Hot Springs in Yellowstone National Park, WY, USA. , 2017, , 87-137.		62
105	Vipp1 Is Essential for the Biogenesis of Photosystem I but Not Thylakoid Membranes in Synechococcus sp. PCC 7002. Journal of Biological Chemistry, 2014, 289, 15904-15914.	1.6	60
106	Selective Protein Extraction fromChlorobium tepidumChlorosomes Using Detergents. Evidence That CsmA Forms Multimers and Binds Bacteriochlorophyllaâ€. Biochemistry, 2002, 41, 14403-14411.	1.2	59
107	Characterization of a Plant-like Protochlorophyllide a Divinyl Reductase in Green Sulfur Bacteria. Journal of Biological Chemistry, 2007, 282, 2967-2975.	1.6	59
108	Cyanobacteriochrome-based photoswitchable adenylyl cyclases (cPACs) for broad spectrum light regulation of cAMP levels in cells. Journal of Biological Chemistry, 2018, 293, 8473-8483.	1.6	59

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109	Spectroscopic studies of cyanobacterial phycobilisomes lacking core polypeptides. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 977, 40-51.	0.5	58
110	Phycobiliprotein Biosynthesis in Cyanobacteria: Structure and Function of Enzymes Involved in Post-translational Modification. Advances in Experimental Medicine and Biology, 2010, 675, 211-228.	0.8	58
111	â€œCandidatus Thermonerobacter thiotrophicus,â€•A Non-phototrophic Member of the Bacteroidetes/Chlorobi With Dissimilatory Sulfur Metabolism in Hot Spring Mat Communities. Frontiers in Microbiology, 2018, 9, 3159.	1.5	57
112	The molecular dimension of microbial species: 2. Synechococcus strains representative of putative ecotypes inhabiting different depths in the Mushroom Spring microbial mat exhibit different adaptive and acclimative responses to light. Frontiers in Microbiology, 2015, 6, 626.	1.5	56
113	Characterization of chlorophyll f synthase heterologously produced in Synechococcus sp. PCC 7002. Photosynthesis Research, 2019, 140, 77-92.	1.6	56
114	Structural and compositional analyses of the phycobilisomes of Synechococcus sp. PCC 7002. Analyses of the wild-type strain and a phycocyanin-less mutant constructed by interposon mutagenesis. Archives of Microbiology, 1990, 153, 550-560.	1.0	55
115	Characterization of a Synechococcus sp. strain PCC 7002 mutant lacking Photosystem I. Protein assembly and energy distribution in the absence of the Photosystem I reaction center core complex. Photosynthesis Research, 1995, 44, 41-53.	1.6	55
116	Roles for hemeâ€“copper oxidases in extreme high-light and oxidative stress response in the cyanobacterium Synechococcus sp. PCC 7002. Archives of Microbiology, 2006, 185, 471-479.	1.0	55
117	Comparative genomics and functional analysis of rhamnose catabolic pathways and regulons in bacteria. Frontiers in Microbiology, 2013, 4, 407.	1.5	55
118	Proteogenomic analysis and global discovery of posttranslational modifications in prokaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5633-42.	3.3	55
119	Structure of Light-Harvesting Aggregates in Individual Chlorosomes. Journal of Physical Chemistry B, 2016, 120, 5367-5376.	1.2	55
120	Interaction of Ferredoxin:NADP+ Oxidoreductase with Phycobilisomes and Phycobilisome Substructures of the Cyanobacterium Synechococcus sp. Strain PCC 7002. Biochemistry, 2003, 42, 13800-13811.	1.2	53
121	Polyphasic Characterization of a Thermotolerant Siderophilic Filamentous Cyanobacterium That Produces Intracellular Iron Deposits. Applied and Environmental Microbiology, 2010, 76, 6664-6672.	1.4	53
122	Attachment of Noncognate Chromophores to CpcA of <i>Synechocystis</i> sp. PCC 6803 and <i>Synechococcus</i> sp. PCC 7002 by Heterologous Expression in <i>Escherichia coli</i>. Biochemistry, 2011, 50, 4890-4902.	1.2	53
123	Absorption Linear Dichroism Measured Directly on a Single Light-Harvesting System: The Role of Disorder in Chlorosomes of Green Photosynthetic Bacteria. Journal of the American Chemical Society, 2011, 133, 6703-6710.	6.6	53
124	Cyanobacterial Phycobilisomes: Progress toward Complete Structural and Functional Analysis via Molecular Genetics. , 1991, , 257-300.		53
125	Ultrastructural Analysis and Identification of Envelope Proteins of "Candidatus Chloracidobacterium thermophilum" Chlorosomes. Journal of Bacteriology, 2011, 193, 6701-6711.	1.0	52
126	Genes encoding two chlorosome components from the green sulfur bacteriaChlorobium vibrioforme strain 8327D andChlorobium tepidum. Photosynthesis Research, 1994, 41, 261-275.	1.6	51

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127	Genomic Insights into the Sulfur Metabolism of Phototrophic Green Sulfur Bacteria. Advances in Photosynthesis and Respiration, 2008, , 337-355.	1.0	51
128	Evidence for a mixed-ligand [4Fe-4S] cluster in the C14D mutant of PsaC. Altered reduction potentials and EPR spectral properties of the FA and FB clusters on rebinding to the P700-FX core. Biochemistry, 1995, 34, 7861-7868.	1.2	50
129	Fur-type transcriptional repressors and metal homeostasis in the cyanobacterium Synechococcus sp. PCC 7002. Frontiers in Microbiology, 2015, 6, 1217.	1.5	50
130	Metabolic engineering of Synechococcus sp. PCC 7002 to produce poly-3-hydroxybutyrate and poly-3-hydroxybutyrate-co-4-hydroxybutyrate. Metabolic Engineering, 2015, 32, 174-183.	3.6	50
131	NpR3784 is the prototype for a distinctive group of red/green cyanobacteriochromes using alternative Phe residues for photoproduct tuning. Photochemical and Photobiological Sciences, 2015, 14, 258-269.	1.6	50
132	The structure of Photosystem I acclimated to far-red light illuminates an ecologically important acclimation process in photosynthesis. Science Advances, 2020, 6, eaay6415.	4.7	50
133	Bacteriochlorophyll f: properties of chlorosomes containing the â€œforbidden chlorophyllâ€. Frontiers in Microbiology, 2012, 3, 298.	1.5	49
134	The molecular dimension of microbial species: 1. Ecological distinctions among, and homogeneity within, putative ecotypes of Synechococcus inhabiting the cyanobacterial mat of Mushroom Spring, Yellowstone National Park. Frontiers in Microbiology, 2015, 6, 590.	1.5	49
135	Core mutations of Synechococcus sp. PCC 7002 phycobilisomes: A spectroscopic study. Journal of Photochemistry and Photobiology B: Biology, 1992, 15, 75-89.	1.7	47
136	Isorenieratene Biosynthesis in Green Sulfur Bacteria Requires the Cooperative Actions of Two Carotenoid Cyclases. Journal of Bacteriology, 2008, 190, 6384-6391.	1.0	47
137	Complete genome sequence of the filamentous gliding predatory bacterium Herpetosiphon aurantiacus type strain (114-95T). Standards in Genomic Sciences, 2011, 5, 356-370.	1.5	47
138	Structural Variability in Wild-Type and <i>bchQ bchR</i> Mutant Chlorosomes of the Green Sulfur Bacterium <i>Chlorobaculum tepidum</i>. Biochemistry, 2012, 51, 4488-4498.	1.2	47
139	Energy transfer from chlorophyll f to the trapping center in naturally occurring and engineered Photosystem I complexes. Photosynthesis Research, 2019, 141, 151-163.	1.6	47
140	Structure and mutation of a gene encoding a Mr 33000 phycocyanin-associated linker polypeptide. Archives of Microbiology, 1990, 153, 541-549.	1.0	46
141	Natural osmolytes are much less effective substrates than glycogen for catabolic energy production in the marine cyanobacterium Synechococcus sp. strain PCC 7002. Journal of Biotechnology, 2013, 166, 65-75.	1.9	46
142	Natural and Synthetic Variants of the Tricarboxylic Acid Cycle in Cyanobacteria: Introduction of the GABA Shunt into Synechococcus sp. PCC 7002. Frontiers in Microbiology, 2016, 7, 1972.	1.5	46
143	Extensive remodeling of the photosynthetic apparatus alters energy transfer among photosynthetic complexes when cyanobacteria acclimate to far-red light. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148064.	0.5	46
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293	The phylogenetic relationships of Chlorobium tepidum and Chloroflexus aurantiacus based upon their RecA sequences. FEMS Microbiology Letters, 1998, 162, 53-60.	0.7	1
294	Elioraea tepida, sp. nov., a Moderately Thermophilic Aerobic Anoxygenic Phototrophic Bacterium Isolated from the Mat Community of an Alkaline Siliceous Hot Spring in Yellowstone National Park, WY, USA. Microorganisms, 2022, 10, 80.	1.6	1