

Cheryl A Kerfeld

List of Publications by Year in descending order

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147
papers

14,232
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22153

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154
docs citations

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times ranked

11646
citing authors

#	ARTICLE	IF	CITATIONS
1	Frontiers, Opportunities, and Challenges in Biochemical and Chemical Catalysis of CO ₂ Fixation. <i>Chemical Reviews</i> , 2013, 113, 6621-6658.	47.7	1,786
2	Improving the coverage of the cyanobacterial phylum using diversity-driven genome sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1053-1058.	7.1	769
3	A genomic catalog of Earth's microbiomes. <i>Nature Biotechnology</i> , 2021, 39, 499-509.	17.5	457
4	Protein-based organelles in bacteria: carboxysomes and related microcompartments. <i>Nature Reviews Microbiology</i> , 2008, 6, 681-691.	28.6	421
5	Protein Structures Forming the Shell of Primitive Bacterial Organelles. <i>Science</i> , 2005, 309, 936-938.	12.6	420
6	A Soluble Carotenoid Protein Involved in Phycobilisome-Related Energy Dissipation in Cyanobacteria. <i>Plant Cell</i> , 2006, 18, 992-1007.	6.6	396
7	Atomic-Level Models of the Bacterial Carboxysome Shell. <i>Science</i> , 2008, 319, 1083-1086.	12.6	367
8	Bacterial microcompartments. <i>Nature Reviews Microbiology</i> , 2018, 16, 277-290.	28.6	328
9	A photoactive carotenoid protein acting as light intensity sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12075-12080.	7.1	324
10	Bacterial Microcompartments. <i>Annual Review of Microbiology</i> , 2010, 64, 391-408.	7.3	299
11	Biogenesis of a Bacterial Organelle: The Carboxysome Assembly Pathway. <i>Cell</i> , 2013, 155, 1131-1140.	28.9	274
12	The Crystal Structure of a Cyanobacterial Water-Soluble Carotenoid Binding Protein. <i>Structure</i> , 2003, 11, 55-65.	3.3	267
13	A Taxonomy of Bacterial Microcompartment Loci Constructed by a Novel Scoring Method. <i>PLoS Computational Biology</i> , 2014, 10, e1003898.	3.2	227
14	Dynamic cyanobacterial response to hydration and dehydration in a desert biological soil crust. <i>ISME Journal</i> , 2013, 7, 2178-2191.	9.8	217
15	Assembly, function and evolution of cyanobacterial carboxysomes. <i>Current Opinion in Plant Biology</i> , 2016, 31, 66-75.	7.1	197
16	Identification and Structural Analysis of a Novel Carboxysome Shell Protein with Implications for Metabolite Transport. <i>Journal of Molecular Biology</i> , 2009, 392, 319-333.	4.2	193
17	A 12 Å... carotenoid translocation in a photoswitch associated with cyanobacterial photoprotection. <i>Science</i> , 2015, 348, 1463-1466.	12.6	192
18	Assembly principles and structure of a 6.5-MDa bacterial microcompartment shell. <i>Science</i> , 2017, 356, 1293-1297.	12.6	187

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19	Phylum-wide comparative genomics unravel the diversity of secondary metabolism in Cyanobacteria. <i>BMC Genomics</i> , 2014, 15, 977.	2.8	175
20	The orange carotenoid protein in photoprotection of photosystem II in cyanobacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 158-166.	1.0	171
21	Cyanobacterial photoprotection by the orange carotenoid protein. <i>Nature Plants</i> , 2016, 2, 16180.	9.3	166
22	Bacterial microcompartments and the modular construction of microbial metabolism. <i>Trends in Microbiology</i> , 2015, 23, 22-34.	7.7	165
23	The Orange Carotenoid Protein: a blue-green light photoactive protein. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1135-1143.	2.9	162
24	The Structure of \hat{I}^2 -Carbonic Anhydrase from the Carboxysomal Shell Reveals a Distinct Subclass with One Active Site for the Price of Two. <i>Journal of Biological Chemistry</i> , 2006, 281, 7546-7555.	3.4	159
25	Connecting Earth observation to high-throughput biodiversity data. <i>Nature Ecology and Evolution</i> , 2017, 1, 176.	7.8	156
26	Structural Determinants Underlying Photoprotection in the Photoactive Orange Carotenoid Protein of Cyanobacteria. <i>Journal of Biological Chemistry</i> , 2010, 285, 18364-18375.	3.4	152
27	Structural Analysis of CsoS1A and the Protein Shell of the Halothiobacillus neapolitanus Carboxysome. <i>PLoS Biology</i> , 2007, 5, e144.	5.6	145
28	The Genome of Deep-Sea Vent Chemolithoautotroph <i>Thiomicrospira crunogena</i> XCL-2. <i>PLoS Biology</i> , 2006, 4, e383.	5.6	144
29	Elucidating Essential Role of Conserved Carboxysomal Protein CcmN Reveals Common Feature of Bacterial Microcompartment Assembly. <i>Journal of Biological Chemistry</i> , 2012, 287, 17729-17736.	3.4	140
30	Light-Induced Energy Dissipation in Iron-Starved Cyanobacteria: Roles of OCP and IsiA Proteins. <i>Plant Cell</i> , 2007, 19, 656-672.	6.6	134
31	Spectroscopic Properties of the Carotenoid β -Hydroxyechinenone in the Orange Carotenoid Protein from the Cyanobacterium <i>Arthrospira maxima</i> . <i>Biochemistry</i> , 2005, 44, 3994-4003.	2.5	124
32	Characterization of a Planctomycetal Organelle: a Novel Bacterial Microcompartment for the Aerobic Degradation of Plant Saccharides. <i>Applied and Environmental Microbiology</i> , 2014, 80, 2193-2205.	3.1	124
33	Cyanobacterial-based approaches to improving photosynthesis in plants. <i>Journal of Experimental Botany</i> , 2013, 64, 787-798.	4.8	121
34	Local and global structural drivers for the photoactivation of the orange carotenoid protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5567-74.	7.1	121
35	Structural and Functional Modularity of the Orange Carotenoid Protein: Distinct Roles for the N- and C-Terminal Domains in Cyanobacterial Photoprotection. <i>Plant Cell</i> , 2014, 26, 426-437.	6.6	114
36	Comparative analysis of carboxysome shell proteins. <i>Photosynthesis Research</i> , 2011, 109, 21-32.	2.9	112

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37	Biochemical characterization of predicted Precambrian RuBisCO. <i>Nature Communications</i> , 2016, 7, 10382.	12.8	112
38	Carboxysomal carbonic anhydrases: Structure and role in microbial CO ₂ fixation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 382-392.	2.3	109
39	Visualization of Bacterial Microcompartment Facet Assembly Using High-Speed Atomic Force Microscopy. <i>Nano Letters</i> , 2016, 16, 1590-1595.	9.1	106
40	The Structure of CcmP, a Tandem Bacterial Microcompartment Domain Protein from the $\hat{1}^2$ -Carboxysome, Forms a Subcompartment Within a Microcompartment. <i>Journal of Biological Chemistry</i> , 2013, 288, 16055-16063.	3.4	104
41	Crystal structure of the FRP and identification of the active site for modulation of OCP-mediated photoprotection in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10022-10027.	7.1	102
42	Assembly of Robust Bacterial Microcompartment Shells Using Building Blocks from an Organelle of Unknown Function. <i>Journal of Molecular Biology</i> , 2014, 426, 2217-2228.	4.2	102
43	PHOTOSYNTHETIC CYTOCHROMEScIN CYANOBACTERIA, ALGAE, AND PLANTS. <i>Annual Review of Plant Biology</i> , 1998, 49, 397-425.	14.3	93
44	Programmed loading and rapid purification of engineered bacterial microcompartment shells. <i>Nature Communications</i> , 2018, 9, 2881.	12.8	92
45	Genome Mining Expands the Chemical Diversity of the Cyanobactin Family to Include Highly Modified Linear Peptides. <i>Chemistry and Biology</i> , 2013, 20, 1033-1043.	6.0	90
46	Engineering Bacterial Microcompartment Shells: Chimeric Shell Proteins and Chimeric Carboxysome Shells. <i>ACS Synthetic Biology</i> , 2015, 4, 444-453.	3.8	88
47	Introduction of a Synthetic CO ₂ -fixing Photorespiratory Bypass into a Cyanobacterium. <i>Journal of Biological Chemistry</i> , 2014, 289, 9493-9500.	3.4	87
48	Structure, function and evolution of the cyanobacterial orange carotenoid protein and its homologs. <i>New Phytologist</i> , 2017, 215, 937-951.	7.3	87
49	Evidence for the widespread distribution of CRISPR-Cas system in the Phylum <i>Cyanobacteria</i> . <i>RNA Biology</i> , 2013, 10, 687-693.	3.1	86
50	Carboxysomes: metabolic modules for CO ₂ fixation. <i>FEMS Microbiology Letters</i> , 2017, 364, .	1.8	86
51	Structure, Diversity, and Evolution of a New Family of Soluble Carotenoid-Binding Proteins in Cyanobacteria. <i>Molecular Plant</i> , 2016, 9, 1379-1394.	8.3	83
52	The Essential Role of the N-Terminal Domain of the Orange Carotenoid Protein in Cyanobacterial Photoprotection: Importance of a Positive Charge for Phycobilisome Binding. <i>Plant Cell</i> , 2012, 24, 1972-1983.	6.6	82
53	Advances in Understanding Carboxysome Assembly in <i>Prochlorococcus</i> and <i>Synechococcus</i> Implicate CsoS2 as a Critical Component. <i>Life</i> , 2015, 5, 1141-1171.	2.4	82
54	Bacterial microcompartment assembly: The key role of encapsulation peptides. <i>Communicative and Integrative Biology</i> , 2015, 8, e1039755.	1.4	77

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55	Different Functions of the Paralogs to the N-Terminal Domain of the Orange Carotenoid Protein in the Cyanobacterium <i>Anabaena</i> sp. PCC 7120. <i>Plant Physiology</i> , 2016, 171, 1852-1866.	4.8	76
56	Structure and Function of the Water-Soluble Carotenoid-Binding Proteins of Cyanobacteria. <i>Photosynthesis Research</i> , 2004, 81, 215-225.	2.9	73
57	Water-soluble carotenoid proteins of cyanobacteria. <i>Archives of Biochemistry and Biophysics</i> , 2004, 430, 2-9.	3.0	71
58	Additional families of orange carotenoid proteins in the photoprotective system of cyanobacteria. <i>Nature Plants</i> , 2017, 3, 17089.	9.3	70
59	Isolation and Characterization of the Prochlorococcus Carboxysome Reveal the Presence of the Novel Shell Protein CsoS1D. <i>Journal of Bacteriology</i> , 2012, 194, 787-795.	2.2	67
60	Structures of Cytochrome c-549 and Cytochrome c6 from the Cyanobacterium <i>Arthrospira maxima</i> . <i>Biochemistry</i> , 2001, 40, 9215-9225.	2.5	65
61	Production and Characterization of Synthetic Carboxysome Shells with Incorporated Luminal Proteins. <i>Plant Physiology</i> , 2016, 170, 1868-77.	4.8	64
62	In Vitro Assembly of Diverse Bacterial Microcompartment Shell Architectures. <i>Nano Letters</i> , 2018, 18, 7030-7037.	9.1	61
63	Heterohexamers Formed by CcmK3 and CcmK4 Increase the Complexity of Beta Carboxysome Shells. <i>Plant Physiology</i> , 2019, 179, 156-167.	4.8	61
64	Structure and functions of Orange Carotenoid Protein homologs in cyanobacteria. <i>Current Opinion in Plant Biology</i> , 2017, 37, 1-9.	7.1	60
65	Bioinformatic Characterization of Glycyl Radical Enzyme-Associated Bacterial Microcompartments. <i>Applied and Environmental Microbiology</i> , 2015, 81, 8315-8329.	3.1	59
66	Structure and Function of a Bacterial Microcompartment Shell Protein Engineered to Bind a [4Fe-4S] Cluster. <i>Journal of the American Chemical Society</i> , 2016, 138, 5262-5270.	13.7	58
67	Using BLAST to Teach E -value-tionary Concepts. <i>PLoS Biology</i> , 2011, 9, e1001014.	5.6	58
68	Carotenoid-protein interaction alters the S1 energy of hydroxyechinenone in the Orange Carotenoid Protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 248-254.	1.0	57
69	Engineering the Bacterial Microcompartment Domain for Molecular Scaffolding Applications. <i>Frontiers in Microbiology</i> , 2017, 8, 1441.	3.5	57
70	Engineering nanoreactors using bacterial microcompartment architectures. <i>Current Opinion in Biotechnology</i> , 2018, 51, 1-7.	6.6	55
71	A catalog of the diversity and ubiquity of bacterial microcompartments. <i>Nature Communications</i> , 2021, 12, 3809.	12.8	55
72	Incorporating Genomics and Bioinformatics across the Life Sciences Curriculum. <i>PLoS Biology</i> , 2010, 8, e1000448.	5.6	54

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73	Structure of a Synthetic γ -Carboxysome Shell. <i>Plant Physiology</i> , 2019, 181, 1050-1058.	4.8	54
74	In Vitro Characterization and Concerted Function of Three Core Enzymes of a Glycyl Radical Enzyme - Associated Bacterial Microcompartment. <i>Scientific Reports</i> , 2017, 7, 42757.	3.3	51
75	The Plasticity of Molecular Interactions Governs Bacterial Microcompartment Shell Assembly. <i>Structure</i> , 2019, 27, 749-763.e4.	3.3	50
76	Streamlined Construction of the Cyanobacterial CO ₂ -Fixing Organelle via Protein Domain Fusions for Use in Plant Synthetic Biology. <i>Plant Cell</i> , 2015, 27, 2637-2644.	6.6	49
77	Comparative Analysis of 126 Cyanobacterial Genomes Reveals Evidence of Functional Diversity Among Homologs of the Redox-Regulated CP12 Protein Å Å. <i>Plant Physiology</i> , 2013, 161, 824-835.	4.8	47
78	Structural Characterization of a Newly Identified Component of γ -Carboxysomes: The AAA+ Domain Protein CsoCbbQ. <i>Scientific Reports</i> , 2015, 5, 16243.	3.3	45
79	Light harvesting in photosystems I and II. <i>Biochemical Society Transactions</i> , 1993, 21, 15-18.	3.4	42
80	Two new high-resolution crystal structures of carboxysome pentamer proteins reveal high structural conservation of CcmL orthologs among distantly related cyanobacterial species. <i>Photosynthesis Research</i> , 2013, 118, 9-16.	2.9	42
81	Cyanobacterial ultrastructure in light of genomic sequence data. <i>Photosynthesis Research</i> , 2016, 129, 147-157.	2.9	42
82	A designed bacterial microcompartment shell with tunable composition and precision cargo loading. <i>Metabolic Engineering</i> , 2019, 54, 286-291.	7.0	42
83	The Structural Basis of Coenzyme A Recycling in a Bacterial Organelle. <i>PLoS Biology</i> , 2016, 14, e1002399.	5.6	40
84	Structural and EPR Characterization of the Soluble Form of Cytochrome c-550 and of the psbV2 Gene Product from the Cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Plant and Cell Physiology</i> , 2003, 44, 697-706.	3.1	39
85	Purification and Characterization of Protein Nanotubes Assembled from a Single Bacterial Microcompartment Shell Subunit. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500295.	3.7	38
86	Raman Optical Activity Reveals Carotenoid Photoactivation Events in the Orange Carotenoid Protein in Solution. <i>Journal of the American Chemical Society</i> , 2017, 139, 10456-10460.	13.7	38
87	Excited-state properties of the 16 kDa red carotenoid protein from <i>Arthrospira maxima</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 30-35.	1.0	36
88	γ -Carboxysome bioinformatics: identification and evolution of new bacterial microcompartment protein gene classes and core locus constraints. <i>Journal of Experimental Botany</i> , 2017, 68, 3841-3855.	4.8	36
89	Synthetic γ OCP heterodimers are photoactive and recapitulate the fusion of two primitive carotenoproteins in the evolution of cyanobacterial photoprotection. <i>Plant Journal</i> , 2017, 91, 646-656.	5.7	33
90	Crystal Structure and Possible Dimerization of the High-Potential Iron-Sulfur Protein from <i>Chromatium purpuratum</i> . <i>Biochemistry</i> , 1998, 37, 13911-13917.	2.5	32

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91	Bacterial microcompartments as metabolic modules for plant synthetic biology. <i>Plant Journal</i> , 2016, 87, 66-75.	5.7	32
92	Genomes of ubiquitous marine and hypersaline <i>Hydrogenovibrio</i> , <i>Thiomicrospira</i> and <i>Thiomicrospira</i> spp. encode a diversity of mechanisms to sustain chemolithoautotrophy in heterogeneous environments. <i>Environmental Microbiology</i> , 2018, 20, 2686-2708.	3.8	32
93	Bacterial microcompartments: catalysis-enhancing metabolic modules for next generation metabolic and biomedical engineering. <i>BMC Biology</i> , 2019, 17, 79.	3.8	32
94	Specificity of the Cyanobacterial Orange Carotenoid Protein: Influences of Orange Carotenoid Protein and Phycobilisome Structures. <i>Plant Physiology</i> , 2014, 164, 790-804.	4.8	30
95	Glycyl Radical Enzyme-Associated Microcompartments: Redox-Replete Bacterial Organelles. <i>MBio</i> , 2019, 10, .	4.1	30
96	Cyanobacterial carboxysomes contain a unique rubisco-like protein. <i>New Phytologist</i> , 2020, 225, 793-806.	7.3	29
97	Evolutionary relationships among shell proteins of carboxysomes and metabolosomes. <i>Current Opinion in Microbiology</i> , 2021, 63, 1-9.	5.1	27
98	The 1.6 Å resolution structure of Fe-superoxide dismutase from the thermophilic cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 707-714.	2.6	25
99	X-ray radiolytic labeling reveals the molecular basis of orange carotenoid protein photoprotection and its interactions with fluorescence recovery protein. <i>Journal of Biological Chemistry</i> , 2019, 294, 8848-8860.	3.4	25
100	Structural Characterization of a Synthetic Tandem-Domain Bacterial Microcompartment Shell Protein Capable of Forming Icosahedral Shell Assemblies. <i>ACS Synthetic Biology</i> , 2019, 8, 668-674.	3.8	24
101	Toward a glycyl radical enzyme containing synthetic bacterial microcompartment to produce pyruvate from formate and acetate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	24
102	The Undergraduate Genomics Research Initiative. <i>PLoS Biology</i> , 2007, 5, e141.	5.6	23
103	Comparative ultrafast spectroscopy and structural analysis of OCP1 and OCP2 from <i>Tolypothrix</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148120.	1.0	22
104	Operational properties of fluctuation X-ray scattering data. <i>IUCr</i> , 2015, 2, 309-316.	2.2	21
105	Structural and spectroscopic characterization of HCP2. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 414-424.	1.0	21
106	Structural and functional insights into the unique CBS-CP12 fusion protein family in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7141-7146.	7.1	20
107	Engineered bacterial microcompartments: apps for programming metabolism. <i>Current Opinion in Biotechnology</i> , 2020, 65, 225-232.	6.6	20
108	Interrelated modules in cyanobacterial photosynthesis: the carbon-concentrating mechanism, photorespiration, and light perception. <i>Journal of Experimental Botany</i> , 2016, 67, 2931-2940.	4.8	19

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109	Bioinformatic analysis of the distribution of inorganic carbon transporters and prospective targets for bioengineering to increase Ci uptake by cyanobacteria. <i>Photosynthesis Research</i> , 2015, 126, 99-109.	2.9	18
110	Structural analysis of a new carotenoid-binding protein: the C-terminal domain homolog of the OCP. <i>Scientific Reports</i> , 2020, 10, 15564.	3.3	18
111	Functionalization of Bacterial Microcompartment Shell Proteins With Covalently Attached Heme. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 432.	4.1	17
112	Structure of the RuBisCO chaperone RbcX from <i>Synechocystis</i> sp. PCC6803. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 1109-1112.	2.5	16
113	A bioarchitectonic approach to the modular engineering of metabolism. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160387.	4.0	16
114	Crystals of the Carotenoid Protein from <i>Arthrospira maxima</i> Containing Uniformly Oriented Pigment Molecules. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1997, 53, 720-723.	2.5	15
115	Structural, Mechanistic and Genomic Insights into OCP-Mediated Photoprotection. <i>Advances in Botanical Research</i> , 2013, 65, 1-26.	1.1	14
116	Fluorescence and Excited-State Conformational Dynamics of the Orange Carotenoid Protein. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1792-1800.	2.6	14
117	Engineering the orange carotenoid protein for applications in synthetic biology. <i>Current Opinion in Structural Biology</i> , 2019, 57, 110-117.	5.7	14
118	Excited-State Properties of Canthaxanthin in Cyanobacterial Carotenoid-Binding Proteins HCP2 and HCP3. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4896-4905.	2.6	14
119	Bayesian Analysis of Congruence of Core Genes in <i>Prochlorococcus</i> and <i>Synechococcus</i> and Implications on Horizontal Gene Transfer. <i>PLoS ONE</i> , 2014, 9, e85103.	2.5	12
120	Rewiring <i>Escherichia coli</i> for carbon-dioxide fixation. <i>Nature Biotechnology</i> , 2016, 34, 1035-1036.	17.5	12
121	The crystal structures of the tri-functional <i>Chloroflexus aurantiacus</i> and bi-functional <i>Rhodobacter sphaeroides</i> malyl-CoA lyases and comparison with CitE-like superfamily enzymes and malate synthases. <i>BMC Structural Biology</i> , 2013, 13, 28.	2.3	11
122	Ubiquity and functional uniformity in CO ₂ concentrating mechanisms in multiple phyla of <i>Bacteria</i> is suggested by a diversity and prevalence of genes encoding candidate dissolved inorganic carbon transporters. <i>FEMS Microbiology Letters</i> , 2020, 367, .	1.8	10
123	Light-Driven Chloride Transport Kinetics of Halorhodopsin. <i>Biophysical Journal</i> , 2018, 115, 353-360.	0.5	9
124	Redox Characterization of Electrode-Immobilized Bacterial Microcompartment Shell Proteins Engineered To Bind Metal Centers. <i>ACS Applied Bio Materials</i> , 2020, 3, 685-692.	4.6	9
125	Visualizing in Vivo Dynamics of Designer Nanoscaffolds. <i>Nano Letters</i> , 2020, 20, 208-217.	9.1	9
126	The use of non-denaturing Deriphat-polyacrylamide gel electrophoresis to fractionate pigment-protein complexes of purple bacteria. <i>Photosynthesis Research</i> , 1991, 30, 139-143.	2.9	8

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127	Structural comparison of cytochrome c2and cytochrome c6. <i>Photosynthesis Research</i> , 1997, 54, 81-98.	2.9	8
128	Plug&and&play for improving primary productivity. <i>American Journal of Botany</i> , 2015, 102, 1949-1950.	1.7	8
129	BMC Caller: a webtool to identify and analyze bacterial microcompartment types in sequence data. <i>Biology Direct</i> , 2022, 17, 9.	4.6	8
130	David W. Krogmann, 1931â€“2016. <i>Photosynthesis Research</i> , 2017, 132, 1-12.	2.9	7
131	Bioinformatic Identification and Structural Characterization of a New Carboxysome Shell Protein. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 345-356.	1.0	6
132	Free-electron laser data for multiple-particle fluctuation scattering analysis. <i>Scientific Data</i> , 2018, 5, 180201.	5.3	6
133	A Survey of Bacterial Microcompartment Distribution in the Human Microbiome. <i>Frontiers in Microbiology</i> , 2021, 12, 669024.	3.5	5
134	Crystallization of two integral membrane pigmentâ€“protein complexes from the purpleâ€“sulfur bacterium <i>Chromatium purpuratum</i> . <i>Protein Science</i> , 1993, 2, 1352-1355.	7.6	4
135	Structure of cytochromec6from <i>Arthrospira maxima</i> : an assembly of 24 subunits in a nearly symmetric shell. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1104-1110.	2.5	4
136	Photoprotection in Cyanobacteria: The Orange Carotenoid Protein and Energy Dissipation. , 2011, , 395-421.		4
137	Structural and Functional Characterization of a Short-Chain Flavodoxin Associated with a Noncanonical 1,2-Propanediol Utilization Bacterial Microcompartment. <i>Biochemistry</i> , 2017, 56, 5679-5690.	2.5	4
138	Liposome-based measurement of light-driven chloride transport kinetics of halorhodopsin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183637.	2.6	4
139	Binding Options for the Small Subunit-Like Domain of Cyanobacteria to Rubisco. <i>Frontiers in Microbiology</i> , 2020, 11, 187.	3.5	2
140	UV Excitation of Carotenoid Binding Proteins OCP and HCP: Excitedâ€“state Dynamics and Product Formation. <i>ChemPhotoChem</i> , 2022, 6, .	3.0	2
141	Validation of an insertion-engineered isoprene synthase as a strategy to functionalize terpene synthases. <i>RSC Advances</i> , 2021, 11, 29997-30005.	3.6	1
142	Clues to the function of bacterial microcompartments from ancillary genes. <i>Biochemical Society Transactions</i> , 2021, 49, 1085-1098.	3.4	1
143	Characterization of Novel Homologs to the Câ€“terminal Domain of the Orange Carotenoid Protein. <i>FASEB Journal</i> , 2019, 33, 779.45.	0.5	1
144	Integrated Structural Studies for Elucidating Carotenoid-Protein Interactions. <i>Advances in Experimental Medicine and Biology</i> , 2021, , .	1.6	1

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145	Protein Nanotubes: Purification and Characterization of Protein Nanotubes Assembled from a Single Bacterial Microcompartment Shell Subunit (Adv. Mater. Interfaces 1/2016). Advanced Materials Interfaces, 2016, 3, .	3.7	0
146	Bioenergetics Theory and Components The Shells of Bacterial Microcompartments. , 2021, , 108-122.		0
147	Atypical Carboxysome Loci: JEEPs or Junk?. Frontiers in Microbiology, 2022, 13, .	3.5	0