John Clark Lagarias

List of Publications by Year
in descending order

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149 papers	11,786 citations	22153 59 h-index	29157 104 g-index
155 all docs	155 docs citations	155 times ranked	5359 citing authors

#	Article	IF	Citations
1	PHYTOCHROME STRUCTURE AND SIGNALING MECHANISMS. Annual Review of Plant Biology, 2006, 57, 837-858.	18.7	950
2	A Cyanobacterial Phytochrome Two-Component Light Sensory System. Science, 1997, 277, 1505-1508.	12.6	529
3	Eukaryotic phytochromes: Light-regulated serine/threonine protein kinases with histidine kinase ancestry. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 13976-13981.	7.1	414
4	Extensive remodeling of a cyanobacterial photosynthetic apparatus in far-red light. Science, 2014, 345, 1312-1317.	12.6	332
5	A Brief History of Phytochromes. ChemPhysChem, 2010, 11, 1172-1180.	2.1	320
6	Chromopeptides from phytochrome. The structure and linkage of the PR form of the phytochrome chromophore. Journal of the American Chemical Society, 1980, 102, 4821-4828.	13.7	302
7	The Arabidopsis HY2 Gene Encodes Phytochromobilin Synthase, a Ferredoxin-Dependent Biliverdin Reductase. Plant Cell, 2001, 13, 425-436.	6.6	269
8	Phytochrome ancestry: sensors of bilins and light. Trends in Plant Science, 2002, 7, 357-366.	8.8	260
9	Visualization of bilin-linked peptides and proteins in polyacrylamide gels. Analytical Biochemistry, 1986, 156, 194-201.	2.4	257
10	Functional Genomic Analysis of the HY2 Family of Ferredoxin-Dependent Bilin Reductases from Oxygenic Photosynthetic Organisms. Plant Cell, 2001, 13, 965-978.	6.6	232
11	Genetic engineering of phytochrome biosynthesis in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 10566-10571.	7.1	220
12	A phytochrome from the fern Adiantum with features of the putative photoreceptor NPH1. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 15826-15830.	7.1	198
13	Ultrafast excited-state isomerization in phytochrome revealed by femtosecond stimulated Raman spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1784-1789.	7.1	190
14	Diverse two-cysteine photocycles in phytochromes and cyanobacteriochromes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11854-11859.	7.1	182
15	Defining the Bilin Lyase Domain:â€‰ Lessons from the Extended Phytochrome Superfamily. Biochemistry, 2000, 39, 13487-13495.	2.5	178
16	PHYTOCHROME C plays a major role in the acceleration of wheat flowering under long-day photoperiod. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10037-10044.	7.1	175
17	Harnessing phytochrome's glowing potential. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17334-17339.	7.1	166
18	Near-UV cyanobacteriochrome signaling system elicits negative phototaxis in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10780-10785.	7.1	162

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19	Eukaryotic algal phytochromes span the visible spectrum. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3871-3876.	7.1	153
20	Phytochrome B inhibits binding of phytochromeâ€interacting factors to their target promoters. Plant Journal, 2012, 72, 537-546.	5.7	151
21	Green/red cyanobacteriochromes regulate complementary chromatic acclimation via a protochromic photocycle. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4974-4979.	7.1	147
22	Climate Change and the Integrity of Science. Science, 2010, 328, 689-690.	12.6	143
23	Photochemistry of 124-kilodalton Avena phytochrome under constant illumination in vitro. Biochemistry, 1985, 24, 6003-6010.	2.5	136
24	COMPARATIVE PHOTOCHEMICAL ANALYSIS OF HIGHLY PURIFIED 124 KILODALTON OAT and RYE PHYTOCHROMES <i>in vitro</i>. Photochemistry and Photobiology, 1987, 46, 5-13.	2.5	133
25	Red/Green Cyanobacteriochromes: Sensors of Color and Power. Biochemistry, 2012, 51, 9667-9677.	2.5	133
26	Phycoviolobilin Formation and Spectral Tuning in the DXCF Cyanobacteriochrome Subfamily. Biochemistry, 2012, 51, 1449-1463.	2.5	129
27	Light-Independent Phytochrome Signaling Mediated by Dominant GAF Domain Tyrosine Mutants of<i>Arabidopsis</i>Phytochromes in Transgenic Plants. Plant Cell, 2007, 19, 2124-2139.	6.6	128
28	Distinct classes of red/far-red photochemistry within the phytochrome superfamily. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6123-6127.	7.1	127
29	Biosynthesis of the Plant Photoreceptor Phytochrome. Archives of Biochemistry and Biophysics, 1993, 306, 1-15.	3.0	120
30	Self-assembly of synthetic phytochrome holoprotein in vitro. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 5778-5780.	7.1	119
31	A Second Conserved GAF Domain Cysteine Is Required for the Blue/Green Photoreversibility of Cyanobacteriochrome Tlr0924 from <i>Thermosynechococcus elongatus</i>. Biochemistry, 2008, 47, 7304-7316.	2.5	119
32	RcaE is a complementary chromatic adaptation photoreceptor required for green and red light responsiveness. Molecular Microbiology, 2004, 51, 567-577.	2.5	118
33	Resonance Raman Analysis of Chromophore Structure in the Lumi-R Photoproduct of Phytochromeâ€. Biochemistry, 1996, 35, 15997-16008.	2.5	114
34	The phytofluors: a new class of fluorescent protein probes. Current Biology, 1997, 7, 870-876.	3.9	111
35	Marine algae and land plants share conserved phytochrome signaling systems. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15827-15832.	7.1	108
36	Unanticipated regulatory roles for <i>Arabidopsis</i> phytochromes revealed by null mutant analysis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1542-1547.	7.1	107

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37	Retrograde bilin signaling enables <i>Chlamydomonas</i> greening and phototrophic survival. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3621-3626.	7.1	107
38	Resonance Raman analysis of the Pr and Pfr forms of phytochrome. Biochemistry, 1990, 29, 11141-11146.	2.5	101
39	The Structure of Phytochrome: A Picture Is Worth a Thousand Spectra. Plant Cell, 2006, 18, 4-14.	6.6	100
40	Atypical phytochrome gene structure in the green alga Mesotaenium caldariorum. Plant Molecular Biology, 1995, 29, 1127-1142.	3.9	92
41	Probing the Photoreaction Mechanism of Phytochrome through Analysis of Resonance Raman Vibrational Spectra of Recombinant Analogues. Biochemistry, 2000, 39, 2667-2676.	2.5	91
42	Multiple Roles of a Conserved GAF Domain Tyrosine Residue in Cyanobacterial and Plant Phytochromesâ€. Biochemistry, 2005, 44, 15203-15215.	2.5	89
43	Mechanistic Insight into the Photosensory Versatility of DXCF Cyanobacteriochromes. Biochemistry, 2012, 51, 3576-3585.	2.5	87
44	PROGRESS IN THE MOLECULAR ANALYSIS OF PHYTOCHROME. Photochemistry and Photobiology, 1985, 42, 811-820.	2.5	85
45	Photoactivatable genetically encoded calcium indicators for targeted neuronal imaging. Nature Methods, 2015, 12, 852-858.	19.0	85
46	Phycocyanobilin:Ferredoxin Oxidoreductase ofAnabaena sp. PCC 7120. Journal of Biological Chemistry, 2003, 278, 9219-9226.	3.4	83
47	Femtosecond Photodynamics of the Red/Green Cyanobacteriochrome NpR6012g4 from <i>Nostoc punctiforme</i>. 1. Forward Dynamics. Biochemistry, 2012, 51, 608-618.	2.5	81
48	Phytochrome evolution in 3D: deletion, duplication, and diversification. New Phytologist, 2020, 225, 2283-2300.	7.3	77
49	Phosphopeptide mapping of Avena phytochrome phosphorylated by protein kinases in vitro. Biochemistry, 1990, 29, 3872-3878.	2.5	76
50	Expression and assembly of spectrally active recombinant holophytochrome.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 10387-10391.	7.1	75
51	Conserved Phenylalanine Residues Are Required for Blue-Shifting of Cyanobacteriochrome Photoproducts. Biochemistry, 2014, 53, 3118-3130.	2.5	74
52	Femtosecond Photodynamics of the Red/Green Cyanobacteriochrome NpR6012g4 from <i>Nostoc punctiforme</i>. 2. Reverse Dynamics. Biochemistry, 2012, 51, 619-630.	2.5	72
53	Phytochrome Chromophore Biosynthesis. Plant Physiology, 1987, 84, 304-310.	4.8	71
54	A Light-Independent Allele of Phytochrome B Faithfully Recapitulates Photomorphogenic Transcriptional Networks. Molecular Plant, 2009, 2, 166-182.	8.3	71

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55	Identification of Cyanobacteriochromes Detecting Far-Red Light. Biochemistry, 2016, 55, 3907-3919.	2.5	71
56	Phycocyanobilin Is the Natural Precursor of the Phytochrome Chromophore in the Green Alga Mesotaenium caldariorum. Journal of Biological Chemistry, 1997, 272, 25700-25705.	3.4	67
57	Chromopeptides from C-phycocyanin. Structure and linkage of a phycocyanobilin bound to the .beta. subunit. Journal of the American Chemical Society, 1979, 101, 5030-5037.	13.7	66
58	Dynamic Inhomogeneity in the Photodynamics of Cyanobacterial Phytochrome Cph1. Biochemistry, 2014, 53, 2818-2826.	2.5	65
59	Correlating structural and photochemical heterogeneity in cyanobacteriochrome NpR6012g4. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4387-4392.	7.1	65
60	Phytochrome diversification in cyanobacteria and eukaryotic algae. Current Opinion in Plant Biology, 2017, 37, 87-93.	7.1	63
61	Properties of a Polycation-Stimulated Protein Kinase Associated with Purified <i>Avena</i> Phytochrome. Plant Physiology, 1989, 91, 709-718.	4.8	62
62	Phototaxis in a wild isolate of the cyanobacterium <i>Synechococcus elongatus</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12378-E12387.	7.1	61
63	Continuous Fluorescence Assay of Phytochrome Assembly in Vitro. Biochemistry, 1995, 34, 7923-7930.	2.5	59
64	Biliverdin Reduction by Cyanobacterial Phycocyanobilin:Ferredoxin Oxidoreductase (PcyA) Proceeds via Linear Tetrapyrrole Radical Intermediates. Journal of the American Chemical Society, 2004, 126, 8682-8693.	13.7	59
65	Cyanobacteriochrome-based photoswitchable adenylyl cyclases (cPACs) for broad spectrum light regulation of cAMP levels in cells. Journal of Biological Chemistry, 2018, 293, 8473-8483.	3.4	59
66	Second-Chance Forward Isomerization Dynamics of the Red/Green Cyanobacteriochrome NpR6012g4 from Nostoc punctiforme. Journal of the American Chemical Society, 2012, 134, 130-133.	13.7	58
67	RESONANCE RAMAN SPECTRA OF THE P_râ€FORM OF PHYTOCHROME. Photochemistry and Photobiology, 1988, 48, 129-136.	2.5	52
68	Cyclopeptide alkaloids. Synthesis of the ring system and its ion affinity. Journal of the American Chemical Society, 1978, 100, 8202-8209.	13.7	51
69	Identification of DXCF cyanobacteriochrome lineages with predictable photocycles. Photochemical and Photobiological Sciences, 2015, 14, 929-941.	2.9	50
70	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.	2.9	50
71	Designing brighter near-infrared fluorescent proteins: insights from structural and biochemical studies. Chemical Science, 2017, 8, 4546-4557.	7.4	49
72	(3Z)- and (3E)-Phytochromobilin Are Intermediates in the Biosynthesis of the Phytochrome Chromophore. Journal of Biological Chemistry, 1995, 270, 11111-11118.	3.4	48

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73	Modification of Distinct Aspects of Photomorphogenesis via Targeted Expression of Mammalian Biliverdin Reductase in Transgenic Arabidopsis Plants. Plant Physiology, 1999, 121, 629-640.	4.8	47
74	Insight into the Radical Mechanism of Phycocyanobilinâˆ’Ferredoxin Oxidoreductase (PcyA) Revealed by X-ray Crystallography and Biochemical Measurementsâ€. Biochemistry, 2007, 46, 1484-1494.	2.5	47
75	Algal light sensing and photoacclimation in aquatic environments. Plant, Cell and Environment, 2017, 40, 2558-2570.	5.7	46
76	Purification and Characterization of Recombinant Affinity Peptideâ€Tagged Oat Phytochrome A. Photochemistry and Photobiology, 1997, 65, 750-758.	2.5	45
77	Primary endosymbiosis and the evolution of light and oxygen sensing in photosynthetic eukaryotes. Frontiers in Ecology and Evolution, 2014, 2, .	2.2	45
78	Unraveling the Primary Isomerization Dynamics in Cyanobacterial Phytochrome Cph1 with Multipulse Manipulations. Journal of Physical Chemistry Letters, 2013, 4, 2605-2609.	4.6	40
79	Characterization of Red/Green Cyanobacteriochrome NpR6012g4 by Solution Nuclear Magnetic Resonance Spectroscopy: A Protonated Bilin Ring System in Both Photostates. Biochemistry, 2015, 54, 2581-2600.	2.5	40
80	Characterization of Red/Green Cyanobacteriochrome NpR6012g4 by Solution Nuclear Magnetic Resonance Spectroscopy: A Hydrophobic Pocket for the C15-<i>E,anti</i> Chromophore in the Photoproduct. Biochemistry, 2015, 54, 3772-3783.	2.5	39
81	Homogeneity of Phytochrome Cph1 Vibronic Absorption Revealed by Resonance Raman Intensity Analysis. Journal of the American Chemical Society, 2009, 131, 13946-13948.	13.7	38
82	Structure of the Biliverdin Radical Intermediate in Phycocyanobilin:Ferredoxin Oxidoreductase Identified by High-Field EPR and DFT. Journal of the American Chemical Society, 2009, 131, 1986-1995.	13.7	38
83	The methylotrophic yeast Pichia pastoris synthesizes a functionally active chromophore precursor of the plant photoreceptor phytochrome.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 8989-8994.	7.1	37
84	Phytochrome assembly in living cells of the yeast Saccharomyces cerevisiae.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 12535-12539.	7.1	36
85	Heterogeneous Photodynamics of the Pfr State in the Cyanobacterial Phytochrome Cph1. Biochemistry, 2014, 53, 4601-4611.	2.5	36
86	Bilin-Dependent Photoacclimation in <i>Chlamydomonas reinhardtii</i>. Plant Cell, 2017, 29, 2711-2726.	6.6	36
87	Primary Photodynamics of the Green/Red-Absorbing Photoswitching Regulator of the Chromatic Adaptation E Domain from <i>Fremyella diplosiphon</i>. Biochemistry, 2013, 52, 8198-8208.	2.5	34
88	Cyanobacteriochrome Photoreceptors Lacking the Canonical Cys Residue. Biochemistry, 2016, 55, 6981-6995.	2.5	34
89	Complementation of phytochrome chromophore-deficient Arabidopsis by expression of phycocyanobilin:ferredoxin oxidoreductase. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1099-1104.	7.1	32
90	Photoconversion changes bilin chromophore conjugation and protein secondary structure in the violet/orange cyanobacteriochrome NpF2163g3. Photochemical and Photobiological Sciences, 2014, 13, 951-962.	2.9	32

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91	Conservation and Diversity in the Primary Forward Photodynamics of Red/Green Cyanobacteriochromes. Biochemistry, 2015, 54, 1028-1042.	2.5	32
92	Single-molecule dynamics of phytochrome-bound fluorophores probed by fluorescence correlation spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11136-11141.	7.1	31
93	Chemical Inhomogeneity in the Ultrafast Dynamics of the DXCF Cyanobacteriochrome Tlr0924. Journal of Physical Chemistry B, 2012, 116, 10571-10581.	2.6	31
94	Reactive Ground-State Pathways Are Not Ubiquitous in Red/Green Cyanobacteriochromes. Journal of Physical Chemistry B, 2013, 117, 11229-11238.	2.6	31
95	There and Back Again: Loss and Reacquisition of Twoâ€Cys Photocycles in Cyanobacteriochromes. Photochemistry and Photobiology, 2017, 93, 741-754.	2.5	31
96	Purification and Biochemical Properties of Phytochromobilin Synthase from Etiolated Oat Seedlings. Plant Physiology, 2001, 126, 1546-1554.	4.8	30
97	Biliverdin Amides Reveal Roles for Propionate Side Chains in Bilin Reductase Recognition and in Holophytochrome Assembly and Photoconversion. Biochemistry, 2010, 49, 6070-6082.	2.5	28
98	Misregulation of tetrapyrrole biosynthesis in transgenic tobacco seedlings expressing mammalian biliverdin reductase. Plant Journal, 2003, 35, 717-728.	5.7	27
99	The phycocyanobilin chromophore of streptophyte algal phytochromes is synthesized by HY2. New Phytologist, 2017, 214, 1145-1157.	7.3	27
100	Structural Insights into Vinyl Reduction Regiospecificity of Phycocyanobilin:Ferredoxin Oxidoreductase (PcyA). Journal of Biological Chemistry, 2010, 285, 1000-1007.	3.4	26
101	A Constitutively Active Allele of Phytochrome B Maintains Circadian Robustness in the Absence of Light Â. Plant Physiology, 2015, 169, 814-825.	4.8	26
102	Cyclopeptide alkaloids. Synthetic, spectroscopic and conformational studies of phencyclopeptine model compounds. Journal of Organic Chemistry, 1980, 45, 4813-4817.	3.2	24
103	Primary and Secondary Photodynamics of the Violet/Orange Dual-Cysteine NpF2164g3 Cyanobacteriochrome Domain from <i>Nostoc punctiforme</i>. Biochemistry, 2014, 53, 1029-1040.	2.5	24
104	Ferredoxin-dependent bilin reductases in eukaryotic algae: Ubiquity and diversity. Journal of Plant Physiology, 2017, 217, 57-67.	3.5	24
105	Protonation Heterogeneity Modulates the Ultrafast Photocycle Initiation Dynamics of Phytochrome Cph1. Journal of Physical Chemistry Letters, 2018, 9, 3454-3462.	4.6	24
106	A Conserved Histidine-Aspartate Pair Is Required for Exovinyl Reduction of Biliverdin by a Cyanobacterial Phycocyanobilin:Ferredoxin Oxidoreductase. Journal of Biological Chemistry, 2006, 281, 3127-3136.	3.4	23
107	4-Amino-5-Hexynoic Acidâ€"A Potent Inhibitor of Tetrapyrrole Biosynthesis in Plants. Plant Physiology, 1988, 88, 747-751.	4.8	22
108	Low-temperature luminescence characterization of 124-kilodalton phytochrome from Avena sativa. Biochemistry, 1983, 22, 2846-2851.	2.5	20

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109	Biliverdin Reductase-Induced Phytochrome Chromophore Deficiency in Transgenic Tobacco. Plant Physiology, 2001, 125, 266-277.	4.8	20
110	Flexible mapping of homology onto structure with Homolmapper. BMC Bioinformatics, 2007, 8, 123.	2.6	20
111	A far-red cyanobacteriochrome lineage specific for verdins. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27962-27970.	7.1	20
112	The Arabidopsis HY2 Gene Encodes Phytochromobilin Synthase, a Ferredoxin-Dependent Biliverdin Reductase. Plant Cell, 2001, 13, 425.	6.6	19
113	The Phytochromes. , 2005, , 121-149.		18
114	Ultrafast E to Z photoisomerization dynamics of the Cph1 phytochrome. Chemical Physics Letters, 2012, 549, 86-92.	2.6	18
115	Bilin-dependent regulation of chlorophyll biosynthesis by GUN4. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18
116	Calcium Transport in the Green Alga Mesotaenium caldariorum. Plant Physiology, 1990, 93, 748-757.	4.8	16
117	Functional Genomic Analysis of the HY2 Family of Ferredoxin-Dependent Bilin Reductases from Oxygenic Photosynthetic Organisms. Plant Cell, 2001, 13, 965.	6.6	16
118	Evolution-inspired design of multicolored photoswitches from a single cyanobacteriochrome scaffold. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15573-15580.	7.1	16
119	Cyclopeptide Alkaloids. Phencyclopeptines From the Polymorphic Species Ceanothus integerrimus. Journal of Natural Products, 1979, 42, 220-227.	3.0	15
120	Structural Basis for Hydration Dynamics in Radical Stabilization of Bilin Reductase Mutants. Biochemistry, 2010, 49, 6206-6218.	2.5	15
121	Light-Regulated Synthesis of Cyclic-di-GMP by a Bidomain Construct of the Cyanobacteriochrome Tlr0924 (SesA) without Stable Dimerization. Biochemistry, 2017, 56, 6145-6154.	2.5	15
122	Crystal structure of a far-redâ€"sensing cyanobacteriochrome reveals an atypical bilin conformation and spectral tuning mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
123	Natural diversity provides a broad spectrum of cyanobacteriochrome-based diguanylate cyclases. Plant Physiology, 2021, 187, 632-645.	4.8	11
124	Cyclopeptide Alkaloids. Phencyclopeptines From Ceanothus sanguineus. Journal of Natural Products, 1979, 42, 663-668.	3.0	10
125	Cyclopeptide alkaloids. Conformational analysis of the dihydro-p-phencyclopeptine nucleus. Journal of the American Chemical Society, 1983, 105, 1031-1040.	13.7	10
126	Optically Guided Photoactivity: Coordinating Tautomerization, Photoisomerization, Inhomogeneity, and Reactive Intermediates within the RcaE Cyanobacteriochrome. Journal of Physical Chemistry Letters, 2014, 5, 1527-1533.	4.6	10

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127	Noncanonical Photodynamics of the Orange/Green Cyanobacteriochrome Power Sensor NpF2164g7 from the PtxD Phototaxis Regulator of <i>Nostoc punctiforme</i>. Biochemistry, 2018, 57, 2636-2648.	2.5	9
128	Comparison of the Forward and Reverse Photocycle Dynamics of Two Highly Similar Canonical Red/Green Cyanobacteriochromes Reveals Unexpected Differences. Biochemistry, 2021, 60, 274-288.	2.5	9
129	Bile pigment-protein interactions. Coupled oxidation of cytochrome c. Biochemistry, 1982, 21, 5962-5967.	2.5	8
130	1H, 15N, and 13C chemical shift assignments of cyanobacteriochrome NpF2164g3 in the photoproduct state. Biomolecular NMR Assignments, 2014, 8, 259-262.	0.8	8
131	Spectral and photochemical diversity of tandem cysteine cyanobacterial phytochromes. Journal of Biological Chemistry, 2020, 295, 6754-6766.	3.4	8
132	Regulation of monocot and dicot plant development with constitutively active alleles of phytochrome B. Plant Direct, 2020, 4, e00210.	1.9	7
133	Proteinâ€“chromophore interactions controlling photoisomerization in red/green cyanobacteriochromes. Photochemical and Photobiological Sciences, 2022, 21, 471-491.	2.9	7
134	His74 conservation in the bilin reductase PcyA family reflects an important role in protein-substrate structure and dynamics. Archives of Biochemistry and Biophysics, 2013, 537, 233-242.	3.0	6
135	1H, 13C, and 15N chemical shift assignments of cyanobacteriochrome NpR6012g4 in the green-absorbing photoproduct state. Biomolecular NMR Assignments, 2016, 10, 157-161.	0.8	6
136	Tracking the secondary photodynamics of the green/red cyanobacteriochrome RcaE from Fremyella diplosiphon. Chemical Physics Letters, 2016, 644, 225-230.	2.6	6
137	1H, 15N, and 13C chemical shift assignments of cyanobacteriochrome NpR6012g4 in the red-absorbing dark state. Biomolecular NMR Assignments, 2016, 10, 139-142.	0.8	6
138	Conservation and diversity in the secondary forward photodynamics of red/green cyanobacteriochromesâ€. Photochemical and Photobiological Sciences, 2019, 18, 2539-2552.	2.9	6
139	Reverse Photodynamics of the Noncanonical Red/Green NpR3784 Cyanobacteriochrome from <i>Nostoc punctiforme</i>. Biochemistry, 2019, 58, 2307-2317.	2.5	6
140	Forward Photodynamics of the Noncanonical Red/Green NpR3784 Cyanobacteriochrome from <i>Nostoc punctiforme</i>. Biochemistry, 2019, 58, 2297-2306.	2.5	6
141	A Tightly Regulated Genetic Selection System with Signaling-Active Alleles of Phytochrome B. Plant Physiology, 2017, 173, 366-375.	4.8	5
142	Two-photon excitation of a phytofluor protein. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 150, 13-19.	3.9	4
143	Regulation of Photomorphogenesis by Expression of Mammalian Biliverdin Reductase in Transgenic Arabidopsis Plants. Plant Cell, 1997, 9, 675.	6.6	1
144	Engineering phytochromes: biliproteins that switch and glow. , 2004, 5329, 33.		1

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145	Conservation and Diversity in the Primary Reverse Photodynamics of the Canonical Red/Green Cyanobacteriochrome Family. Biochemistry, 2020, 59, 4015-4028.	2.5	1
146	Phytofluors: Phytochrome-Based Orange Fluorescent Protein Probes. Microscopy and Microanalysis, 1999, 5, 1050-1051.	0.4	0
147	Analysis and Reconstitution of Phytochromes. , 2002, , 293-309.		0
148	A Light-Independent Allele of Phytochrome B Faithfully Recapitulates Photomorphogenic Transcriptional Networks. Molecular Plant, 2015, 8, 493.	8.3	0
149	LOF and GOF Alleles Shed Light on the Molecular Basis of phyB Signaling in Plants. Plant Cell, 2019, 31, 1400-1401.	6.6	0