John Clark Lagarias

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148 papers	9,981 citations	57 h-index	97 g-index
155 ext. papers	10,961 ext. citations	7.6 avg, IF	6.3 L-index

#	Paper	IF	Citations
148	Phytochrome structure and signaling mechanisms. *Annual Review of Plant Biology*, **2006**, 57, 837-58	30.7	807
147	A cyanobacterial phytochrome two-component light sensory system. *Science*, **1997**, 277, 1505-8	33.3	482
146	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, 13976-81	11.5	377
145	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	16.4	276
144	A brief history of phytochromes. *ChemPhysChem*, **2010**, 11, 1172-80	3.2	272
143	Phytochrome ancestry: sensors of bilins and light. *Trends in Plant Science*, **2002**, 7, 357-66	13.1	241
142	Extensive remodeling of a cyanobacterial photosynthetic apparatus in far-red light. *Science*, **2014**, 345, 1312-7	33.3	239
141	Visualization of bilin-linked peptides and proteins in polyacrylamide gels. *Analytical Biochemistry*, **1986**, 156, 194-201	3.1	229
140	The Arabidopsis HY2 gene encodes phytochromobilin synthase, a ferredoxin-dependent biliverdin reductase. *Plant Cell*, **2001**, 13, 425-36	11.6	209
139	Functional genomic analysis of the HY2 family of ferredoxin-dependent bilin reductases from oxygenic photosynthetic organisms. *Plant Cell*, **2001**, 13, 965-78	11.6	209
138	Genetic engineering of phytochrome biosynthesis in bacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 10566-71	11.5	192
137	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, 15826-30	11.5	184
136	Defining the bilin lyase domain: lessons from the extended phytochrome superfamily. *Biochemistry*, **2000**, 39, 13487-95	3.2	169
135	Diverse two-cysteine photocycles in phytochromes and cyanobacteriochromes. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 11854-9	11.5	156
134	Harnessing phytochrome's glowing potential. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 17334-9	11.5	156
133	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, 1784-9	11.5	151
132	Near-UV cyanobacteriochrome signaling system elicits negative phototaxis in the cyanobacterium Synechocystis sp. PCC 6803. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 10780-5	11.5	133

131	Eukaryotic algal phytochromes span the visible spectrum. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 3871-6	11.5	130
130	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, 4974-9	11.5	121
129	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, 10037-44	11.5	121
128	COMPARATIVE PHOTOCHEMICAL ANALYSIS OF HIGHLY PURIFIED 124 KILODALTON OAT and RYE PHYTOCHROMES in vitro. *Photochemistry and Photobiology*, **1987**, 46, 5-13	3.6	121
127	Photochemistry of 124-kilodalton Avena phytochrome under constant illumination in vitro. *Biochemistry*, **1985**, 24, 6003-6010	3.2	120
126	Phytochrome B inhibits binding of phytochrome-interacting factors to their target promoters. *Plant Journal*, **2012**, 72, 537-46	6.9	118
125	Climate change and the integrity of science. *Science*, **2010**, 328, 689-90	33.3	116
124	Red/green cyanobacteriochromes: sensors of color and power. *Biochemistry*, **2012**, 51, 9667-77	3.2	111
123	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, 6123-7	11.5	111
122	A second conserved GAF domain cysteine is required for the blue/green photoreversibility of cyanobacteriochrome Tlr0924 from Thermosynechococcus elongatus. *Biochemistry*, **2008**, 47, 7304-16	3.2	110
121	RcaE is a complementary chromatic adaptation photoreceptor required for green and red light responsiveness. *Molecular Microbiology*, **2004**, 51, 567-77	4.1	110
120	Phycoviolobilin formation and spectral tuning in the DXCF cyanobacteriochrome subfamily. *Biochemistry*, **2012**, 51, 1449-63	3.2	109
119	Biosynthesis of the plant photoreceptor phytochrome. *Archives of Biochemistry and Biophysics*, **1993**, 306, 1-15	4.1	109
118	Self-assembly of synthetic phytochrome holoprotein in vitro. *Proceedings of the National Academy of Sciences of the United States of America*, **1989**, 86, 5778-80	11.5	107
117	Resonance raman analysis of chromophore structure in the lumi-R photoproduct of phytochrome. *Biochemistry*, **1996**, 35, 15997-6008	3.2	104
116	Light-independent phytochrome signaling mediated by dominant GAF domain tyrosine mutants of Arabidopsis phytochromes in transgenic plants. *Plant Cell*, **2007**, 19, 2124-39	11.6	102
115	The phytofluors: a new class of fluorescent protein probes. *Current Biology*, **1997**, 7, 870-6	6.3	97
114	Resonance Raman analysis of the Pr and Pfr forms of phytochrome. *Biochemistry*, **1990**, 29, 11141-6	3.2	93

113	The structure of phytochrome: a picture is worth a thousand spectra. *Plant Cell*, **2006**, 18, 4-14	11.6	92
112	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, 15827-32	11.5	87
111	Multiple roles of a conserved GAF domain tyrosine residue in cyanobacterial and plant phytochromes. *Biochemistry*, **2005**, 44, 15203-15	3.2	83
110	Probing the photoreaction mechanism of phytochrome through analysis of resonance Raman vibrational spectra of recombinant analogues. *Biochemistry*, **2000**, 39, 2667-76	3.2	82
109	Retrograde bilin signaling enables Chlamydomonas greening and phototrophic survival. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 3621-6	11.5	81
108	Unanticipated regulatory roles for Arabidopsis phytochromes revealed by null mutant analysis. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 1542-7	11.5	79
107	Atypical phytochrome gene structure in the green alga Mesotaenium caldariorum. *Plant Molecular Biology*, **1995**, 29, 1127-42	4.6	79
106	Mechanistic insight into the photosensory versatility of DXCF cyanobacteriochromes. *Biochemistry*, **2012**, 51, 3576-85	3.2	75
105	PROGRESS IN THE MOLECULAR ANALYSIS OF PHYTOCHROME. *Photochemistry and Photobiology*, **1985**, 42, 811-820	3.6	75
104	Expression and assembly of spectrally active recombinant holophytochrome. *Proceedings of the National Academy of Sciences of the United States of America*, **1991**, 88, 10387-91	11.5	72
103	Phycocyanobilin:ferredoxin oxidoreductase of Anabaena sp. PCC 7120. Biochemical and spectroscopic. *Journal of Biological Chemistry*, **2003**, 278, 9219-26	5.4	71
102	Femtosecond photodynamics of the red/green cyanobacteriochrome NpR6012g4 from Nostoc punctiforme. 1. Forward dynamics. *Biochemistry*, **2012**, 51, 608-18	3.2	69
101	Photoactivatable genetically encoded calcium indicators for targeted neuronal imaging. *Nature Methods*, **2015**, 12, 852-8	21.6	67
100	Femtosecond photodynamics of the red/green cyanobacteriochrome NpR6012g4 from Nostoc punctiforme. 2. reverse dynamics. *Biochemistry*, **2012**, 51, 619-30	3.2	66
99	Phosphopeptide mapping of Avena phytochrome phosphorylated by protein kinases in vitro. *Biochemistry*, **1990**, 29, 3872-8	3.2	66
98	Phytochrome Chromophore Biosynthesis : Both 5-Aminolevulinic Acid and Biliverdin Overcome Inhibition by Gabaculine in Etiolated Avena sativa L. Seedlings. *Plant Physiology*, **1987**, 84, 304-10	6.6	66
97	Conserved phenylalanine residues are required for blue-shifting of cyanobacteriochrome photoproducts. *Biochemistry*, **2014**, 53, 3118-30	3.2	60
96	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	16.4	59

95	Phycocyanobilin is the natural precursor of the phytochrome chromophore in the green alga Mesotaenium caldariorum. *Journal of Biological Chemistry*, **1997**, 272, 25700-5	5.4	58
94	Properties of a polycation-stimulated protein kinase associated with purified Avena phytochrome. *Plant Physiology*, **1989**, 91, 709-18	6.6	58
93	Identification of Cyanobacteriochromes Detecting Far-Red Light. *Biochemistry*, **2016**, 55, 3907-19	3.2	57
92	Dynamic inhomogeneity in the photodynamics of cyanobacterial phytochrome Cph1. *Biochemistry*, **2014**, 53, 2818-26	3.2	57
91	A light-independent allele of phytochrome B faithfully recapitulates photomorphogenic transcriptional networks. *Molecular Plant*, **2009**, 2, 166-82	14.4	57
90	Continuous fluorescence assay of phytochrome assembly in vitro. *Biochemistry*, **1995**, 34, 7923-30	3.2	55
89	Second-chance forward isomerization dynamics of the red/green cyanobacteriochrome NpR6012g4 from Nostoc punctiforme. *Journal of the American Chemical Society*, **2012**, 134, 130-3	16.4	52
88	Biliverdin reduction by cyanobacterial phycocyanobilin:ferredoxin oxidoreductase (PcyA) proceeds via linear tetrapyrrole radical intermediates. *Journal of the American Chemical Society*, **2004**, 126, 8682-93	16.4	52
87	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	11.5	49
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85	Phytochrome diversification in cyanobacteria and eukaryotic algae. *Current Opinion in Plant Biology*, **2017**, 37, 87-93	9.9	46
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83	Insight into the radical mechanism of phycocyanobilin-ferredoxin oxidoreductase (PcyA) revealed by X-ray crystallography and biochemical measurements. *Biochemistry*, **2007**, 46, 1484-94	3.2	45
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81	Cyclopeptide alkaloids. Synthesis of the ring system and its ion affinity. *Journal of the American Chemical Society*, **1978**, 100, 8202-8209	16.4	44
80	Phytochrome evolution in 3D: deletion, duplication, and diversification. *New Phytologist*, **2020**, 225, 2283-2300	9.4	44
79	Identification of DXCF cyanobacteriochrome lineages with predictable photocycles. *Photochemical and Photobiological Sciences*, **2015**, 14, 929-41	4.2	43
78	(3Z)- and (3E)-phytochromobilin are intermediates in the biosynthesis of the phytochrome chromophore. *Journal of Biological Chemistry*, **1995**, 270, 11111-8	5.4	43

77	Cyanobacteriochrome-based photoswitchable adenylyl cyclases (cPACs) for broad spectrum light regulation of cAMP levels in cells. *Journal of Biological Chemistry*, **2018**, 293, 8473-8483	5.4	42
76	Unraveling the Primary Isomerization Dynamics in Cyanobacterial Phytochrome Cph1 with Multi-pulse Manipulations. *Journal of Physical Chemistry Letters*, **2013**, 4, 2605-2609	6.4	40
75	Modification of distinct aspects of photomorphogenesis via targeted expression of mammalian biliverdin reductase in transgenic Arabidopsis plants. *Plant Physiology*, **1999**, 121, 629-39	6.6	40
74	Designing brighter near-infrared fluorescent proteins: insights from structural and biochemical studies. *Chemical Science*, **2017**, 8, 4546-4557	9.4	36
73	Homogeneity of phytochrome Cph1 vibronic absorption revealed by resonance Raman intensity analysis. *Journal of the American Chemical Society*, **2009**, 131, 13946-8	16.4	36
72	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, 1986-95	16.4	36
71	Phototaxis in a wild isolate of the cyanobacterium. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E12378-E12387	11.5	36
70	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, 8989-94	11.5	35
69	Characterization of Red/Green Cyanobacteriochrome NpR6012g4 by Solution Nuclear Magnetic Resonance Spectroscopy: A Hydrophobic Pocket for the C15-E,anti Chromophore in the Photoproduct. *Biochemistry*, **2015**, 54, 3772-83	3.2	32
68	Characterization of Red/Green Cyanobacteriochrome NpR6012g4 by Solution Nuclear Magnetic Resonance Spectroscopy: A Protonated Bilin Ring System in Both Photostates. *Biochemistry*, **2015**, 54, 2581-600	3.2	32
67	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, 12535-9	11.5	32
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64	Photoconversion changes bilin chromophore conjugation and protein secondary structure in the violet/orange cyanobacteriochrome NpF2164g3V[corrected]. *Photochemical and Photobiological Sciences*, **2014**, 13, 951-62	4.2	30
63	Chemical inhomogeneity in the ultrafast dynamics of the DXCF cyanobacteriochrome Tlr0924. *Journal of Physical Chemistry B*, **2012**, 116, 10571-81	3.4	30
62	Algal light sensing and photoacclimation in aquatic environments. *Plant, Cell and Environment*, **2017** , 40, 2558-2570	8.4	29
61	Conservation and diversity in the primary forward photodynamics of red/green cyanobacteriochromes. *Biochemistry*, **2015**, 54, 1028-42	3.2	29
60	Heterogeneous photodynamics of the pfr state in the cyanobacterial phytochrome Cph1. *Biochemistry*, **2014**, 53, 4601-11	3.2	28

59	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, 1099-104	11.5	28
58	Reactive ground-state pathways are not ubiquitous in red/green cyanobacteriochromes. *Journal of Physical Chemistry B*, **2013**, 117, 11229-38	3.4	27
57	Primary photodynamics of the green/red-absorbing photoswitching regulator of the chromatic adaptation E domain from Fremyella diplosiphon. *Biochemistry*, **2013**, 52, 8198-208	3.2	27
56	Cyanobacteriochrome Photoreceptors Lacking the Canonical Cys Residue. *Biochemistry*, **2016**, 55, 6981-6995	3.2	25
55	Biliverdin amides reveal roles for propionate side chains in bilin reductase recognition and in holophytochrome assembly and photoconversion. *Biochemistry*, **2010**, 49, 6070-82	3.2	25
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53	There and Back Again: Loss and Reacquisition of Two-Cys Photocycles in Cyanobacteriochromes. *Photochemistry and Photobiology*, **2017**, 93, 741-754	3.6	21
52	Primary and secondary photodynamics of the violet/orange dual-cysteine NpF2164g3 cyanobacteriochrome domain from Nostoc punctiforme. *Biochemistry*, **2014**, 53, 1029-40	3.2	21
51	Cyclopeptide alkaloids. Synthetic, spectroscopic and conformational studies of phencyclopeptine model compounds. *Journal of Organic Chemistry*, **1980**, 45, 4813-4817	4.2	21
50	Bilin-Dependent Photoacclimation in. *Plant Cell*, **2017**, 29, 2711-2726	11.6	20
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48	4-amino-5-hexynoic Acid-a potent inhibitor of tetrapyrrole biosynthesis in plants. *Plant Physiology*, **1988**, 88, 747-51	6.6	20
47	Structural insights into vinyl reduction regiospecificity of phycocyanobilin:ferredoxin oxidoreductase (PcyA). *Journal of Biological Chemistry*, **2010**, 285, 1000-7	5.4	19
46	Misregulation of tetrapyrrole biosynthesis in transgenic tobacco seedlings expressing mammalian biliverdin reductase. *Plant Journal*, **2003**, 35, 717-28	6.9	19
45	Low-temperature luminescence characterization of 124-kilodalton phytochrome from Avena sativa. *Biochemistry*, **1983**, 22, 2846-2851	3.2	19
44	A Constitutively Active Allele of Phytochrome B Maintains Circadian Robustness in the Absence of Light. *Plant Physiology*, **2015**, 169, 814-25	6.6	17
43	Protonation Heterogeneity Modulates the Ultrafast Photocycle Initiation Dynamics of Phytochrome Cph1. *Journal of Physical Chemistry Letters*, **2018**, 9, 3454-3462	6.4	17
42	Flexible mapping of homology onto structure with homolmapper. *BMC Bioinformatics*, **2007**, 8, 123	3.6	17

41	Ultrafast E to Z photoisomerization dynamics of the Cph1 phytochrome. *Chemical Physics Letters*, **2012**, 549, 86-92	2.5	16
40	The Phytochromes **2005**, 121-149		16
39	The phycocyanobilin chromophore of streptophyte algal phytochromes is synthesized by HY2. *New Phytologist*, **2017**, 214, 1145-1157	9.8	15
38	Biliverdin reductase-induced phytochrome chromophore deficiency in transgenic tobacco. *Plant Physiology*, **2001**, 125, 266-77	6.6	14
37	Calcium Transport in the Green Alga Mesotaenium caldariorum: Preliminary Characterization and Subcellular Distribution. *Plant Physiology*, **1990**, 93, 748-57	6.6	13
36	Ferredoxin-dependent bilin reductases in eukaryotic algae: Ubiquity and diversity. *Journal of Plant Physiology*, **2017**, 217, 57-67	3.6	12
35	Structural basis for hydration dynamics in radical stabilization of bilin reductase mutants. *Biochemistry*, **2010**, 49, 6206-18	3.2	12
34	Cyclopeptide Alkaloids. Phencyclopeptines From the Polymorphic Species Ceanothus integerrimus. *Journal of Natural Products*, **1979**, 42, 220-227	4.9	12
33	Light-Regulated Synthesis of Cyclic-di-GMP by a Bidomain Construct of the Cyanobacteriochrome Tlr0924 (SesA) without Stable Dimerization. *Biochemistry*, **2017**, 56, 6145-6154	3.2	11
32	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	11.5	9
31	Optically Guided Photoactivity: Coordinating Tautomerization, Photoisomerization, Inhomogeneity, and Reactive Intermediates within the RcaE Cyanobacteriochrome. *Journal of Physical Chemistry Letters*, **2014**, 5, 1527-33	6.4	9
30	The Arabidopsis HY2 Gene Encodes Phytochromobilin Synthase, a Ferredoxin-Dependent Biliverdin Reductase. *Plant Cell*, **2001**, 13, 425	11.6	9
29	□H, □N, and □□C chemical shift assignments of cyanobacteriochrome NpF2164g3 in the photoproduct state. *Biomolecular NMR Assignments*, **2014**, 8, 259-62	0.7	8
28	Cyclopeptide alkaloids. Conformational analysis of the dihydro-p-phencyclopeptine nucleus. *Journal of the American Chemical Society*, **1983**, 105, 1031-1040	16.4	8
27	Cyclopeptide Alkaloids. Phencyclopeptines From Ceanothus sanguineus. *Journal of Natural Products*, **1979**, 42, 663-668	4.9	8
26	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	11.5	7
25	Noncanonical Photodynamics of the Orange/Green Cyanobacteriochrome Power Sensor NpF2164g7 from the PtxD Phototaxis Regulator of Nostoc punctiforme. *Biochemistry*, **2018**, 57, 2636-2648	3.2	6
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20	Bile pigment--protein interactions. Coupled oxidation of cytochrome c. *Biochemistry*, **1982**, 21, 5962-7	3.2	6
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18	Spectral and photochemical diversity of tandem cysteine cyanobacterial phytochromes. *Journal of Biological Chemistry*, **2020**, 295, 6754-6766	5.4	5
17	Crystal structure of a far-red-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,	11.5	5
16	Comparison of the Forward and Reverse Photocycle Dynamics of Two Highly Similar Canonical Red/Green Cyanobacteriochromes Reveals Unexpected Differences. *Biochemistry*, **2021**, 60, 274-288	3.2	5
15	Forward Photodynamics of the Noncanonical Red/Green NpR3784 Cyanobacteriochrome from Nostoc punctiforme. *Biochemistry*, **2019**, 58, 2297-2306	3.2	4
14	Regulation of monocot and dicot plant development with constitutively active alleles of phytochrome B. *Plant Direct*, **2020**, 4, e00210	3.3	4
13	Functional Genomic Analysis of the HY2 Family of Ferredoxin-Dependent Bilin Reductases from Oxygenic Photosynthetic Organisms. *Plant Cell*, **2001**, 13, 965	11.6	4
12	Conservation and diversity in the secondary forward photodynamics of red/green cyanobacteriochromes. *Photochemical and Photobiological Sciences*, **2019**, 18, 2539-2552	4.2	3
11	A Tightly Regulated Genetic Selection System with Signaling-Active Alleles of Phytochrome B. *Plant Physiology*, **2017**, 173, 366-375	6.6	3
10	Two-photon excitation of a phytofluor protein. *Journal of Photochemistry and Photobiology A: Chemistry*, **2002**, 150, 13-19	4.7	3
9	Bilin-dependent regulation of chlorophyll biosynthesis by GUN4. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
8	Molecular Basis of Far-red Sensing in Cyanobacteriochrome		2
7	Natural diversity provides a broad spectrum of cyanobacteriochrome-based diguanylate cyclases. *Plant Physiology*, **2021**, 187, 632-645	6.6	2
6	Regulation of Photomorphogenesis by Expression of Mammalian Biliverdin Reductase in Transgenic Arabidopsis Plants. *Plant Cell*, **1997**, 9, 675	11.6	1

5	Conservation and Diversity in the Primary Reverse Photodynamics of the Canonical Red/Green Cyanobacteriochrome Family. *Biochemistry*, **2020**, 59, 4015-4028	3.2	1
4	Protein-chromophore interactions controlling photoisomerization in red/green cyanobacteriochromes.. *Photochemical and Photobiological Sciences*, **2022**, 21, 471	4.2	0
3	Engineering phytochromes: biliproteins that switch and glow **2004**, 5329, 33		
2	Analysis and Reconstitution of Phytochromes **2002**, 293-309		
1	Phytofluors: Phytochrome-Based Orange Fluorescent Protein Probes. *Microscopy and Microanalysis*, **1999**, 5, 1050-1051	0.5	