

# John Clark Lagarias

## List of Publications by Year in Descending Order

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

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	Protein-chromophore interactions controlling photoisomerization in red/green cyanobacteriochromes.. <i>Photochemical and Photobiological Sciences</i> , <b>2022</b> , 21, 471	4.2	0
147	Crystal structure of a far-red-sensing cyanobacteriochrome reveals an atypical bilin conformation and spectral tuning mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
146	Natural diversity provides a broad spectrum of cyanobacteriochrome-based diguanylate cyclases. <i>Plant Physiology</i> , <b>2021</b> , 187, 632-645	6.6	2
145	Bilin-dependent regulation of chlorophyll biosynthesis by GUN4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	3
144	Comparison of the Forward and Reverse Photocycle Dynamics of Two Highly Similar Canonical Red/Green Cyanobacteriochromes Reveals Unexpected Differences. <i>Biochemistry</i> , <b>2021</b> , 60, 274-288	3.2	5
143	Evolution-inspired design of multicolored photoswitches from a single cyanobacteriochrome scaffold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 15573-15580	11.5	80
142	Regulation of monocot and dicot plant development with constitutively active alleles of phytochrome B. <i>Plant Direct</i> , <b>2020</b> , 4, e00210	3.3	4
141	Spectral and photochemical diversity of tandem cysteine cyanobacterial phytochromes. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 6754-6766	5.4	5
140	Phytochrome evolution in 3D: deletion, duplication, and diversification. <i>New Phytologist</i> , <b>2020</b> , 225, 2283-2300	3.2	44
139	Conservation and Diversity in the Primary Reverse Photodynamics of the Canonical Red/Green Cyanobacteriochrome Family. <i>Biochemistry</i> , <b>2020</b> , 59, 4015-4028	3.2	1
138	A far-red cyanobacteriochrome lineage specific for verdins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 27962-27970	11.5	7
137	Conservation and diversity in the secondary forward photodynamics of red/green cyanobacteriochromes. <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 2539-2552	4.2	3
136	Reverse Photodynamics of the Noncanonical Red/Green NpR3784 Cyanobacteriochrome from <i>Nostoc punctiforme</i> . <i>Biochemistry</i> , <b>2019</b> , 58, 2307-2317	3.2	5
135	Forward Photodynamics of the Noncanonical Red/Green NpR3784 Cyanobacteriochrome from <i>Nostoc punctiforme</i> . <i>Biochemistry</i> , <b>2019</b> , 58, 2297-2306	3.2	4
134	Noncanonical Photodynamics of the Orange/Green Cyanobacteriochrome Power Sensor NpF2164g7 from the PtxD Phototaxis Regulator of <i>Nostoc punctiforme</i> . <i>Biochemistry</i> , <b>2018</b> , 57, 2636-2648	3.2	6
133	Correlating structural and photochemical heterogeneity in cyanobacteriochrome NpR6012g4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 4387-4392	11.5	49
132	Cyanobacteriochrome-based photoswitchable adenylyl cyclases (cPACs) for broad spectrum light regulation of cAMP levels in cells. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 8473-8483	5.4	42

131	Protonation Heterogeneity Modulates the Ultrafast Photocycle Initiation Dynamics of Phytochrome Cph1. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3454-3462	6.4	17
130	Phototaxis in a wild isolate of the cyanobacterium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E12378-E12387	11.5	36
129	The phycocyanobilin chromophore of streptophyte algal phytochromes is synthesized by HY2. <i>New Phytologist</i> , <b>2017</b> , 214, 1145-1157	9.8	15
128	There and Back Again: Loss and Reacquisition of Two-Cys Photocycles in Cyanobacteriochromes. <i>Photochemistry and Photobiology</i> , <b>2017</b> , 93, 741-754	3.6	21
127	Algal light sensing and photoacclimation in aquatic environments. <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 2558-2570	8.4	29
126	Designing brighter near-infrared fluorescent proteins: insights from structural and biochemical studies. <i>Chemical Science</i> , <b>2017</b> , 8, 4546-4557	9.4	36
125	Phytochrome diversification in cyanobacteria and eukaryotic algae. <i>Current Opinion in Plant Biology</i> , <b>2017</b> , 37, 87-93	9.9	46
124	Ferredoxin-dependent bilin reductases in eukaryotic algae: Ubiquity and diversity. <i>Journal of Plant Physiology</i> , <b>2017</b> , 217, 57-67	3.6	12
123	Light-Regulated Synthesis of Cyclic-di-GMP by a Bidomain Construct of the Cyanobacteriochrome Tlr0924 (SesA) without Stable Dimerization. <i>Biochemistry</i> , <b>2017</b> , 56, 6145-6154	3.2	11
122	Bilin-Dependent Photoacclimation in. <i>Plant Cell</i> , <b>2017</b> , 29, 2711-2726	11.6	20
121	A Tightly Regulated Genetic Selection System with Signaling-Active Alleles of Phytochrome B. <i>Plant Physiology</i> , <b>2017</b> , 173, 366-375	6.6	3
120	Cyanobacteriochrome Photoreceptors Lacking the Canonical Cys Residue. <i>Biochemistry</i> , <b>2016</b> , 55, 6981-6995	25	
119	<sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N chemical shift assignments of cyanobacteriochrome NpR6012g4 in the green-absorbing photoproduct state. <i>Biomolecular NMR Assignments</i> , <b>2016</b> , 10, 157-61	0.7	6
118	Identification of Cyanobacteriochromes Detecting Far-Red Light. <i>Biochemistry</i> , <b>2016</b> , 55, 3907-19	3.2	57
117	Tracking the secondary photodynamics of the green/red cyanobacteriochrome RcaE from <i>Fremyella diplosiphon</i> . <i>Chemical Physics Letters</i> , <b>2016</b> , 644, 225-230	2.5	6
116	<sup>1</sup> H, <sup>15</sup> N, and <sup>13</sup> C chemical shift assignments of cyanobacteriochrome NpR6012g4 in the red-absorbing dark state. <i>Biomolecular NMR Assignments</i> , <b>2016</b> , 10, 139-42	0.7	6
115	Characterization of Red/Green Cyanobacteriochrome NpR6012g4 by Solution Nuclear Magnetic Resonance Spectroscopy: A Hydrophobic Pocket for the C15-E,anti Chromophore in the Photoproduct. <i>Biochemistry</i> , <b>2015</b> , 54, 3772-83	3.2	32
114	Photoactivatable genetically encoded calcium indicators for targeted neuronal imaging. <i>Nature Methods</i> , <b>2015</b> , 12, 852-8	21.6	67

113	Characterization of Red/Green Cyanobacteriochrome NpR6012g4 by Solution Nuclear Magnetic Resonance Spectroscopy: A Protonated Bilin Ring System in Both Photostates. <i>Biochemistry</i> , <b>2015</b> , 54, 2581-600	3.2	32
112	A Constitutively Active Allele of Phytochrome B Maintains Circadian Robustness in the Absence of Light. <i>Plant Physiology</i> , <b>2015</b> , 169, 814-25	6.6	17
111	NpR3784 is the prototype for a distinctive group of red/green cyanobacteriochromes using alternative Phe residues for photoproduct tuning. <i>Photochemical and Photobiological Sciences</i> , <b>2015</b> , 14, 258-69	4.2	45
110	Identification of DXCF cyanobacteriochrome lineages with predictable photocycles. <i>Photochemical and Photobiological Sciences</i> , <b>2015</b> , 14, 929-41	4.2	43
109	Conservation and diversity in the primary forward photodynamics of red/green cyanobacteriochromes. <i>Biochemistry</i> , <b>2015</b> , 54, 1028-42	3.2	29
108	Marine algae and land plants share conserved phytochrome signaling systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 15827-32	11.5	87
107	Photoconversion changes bilin chromophore conjugation and protein secondary structure in the violet/orange cyanobacteriochrome NpF2164g3V[corrected]. <i>Photochemical and Photobiological Sciences</i> , <b>2014</b> , 13, 951-62	4.2	30
106	Dynamic inhomogeneity in the photodynamics of cyanobacterial phytochrome Cph1. <i>Biochemistry</i> , <b>2014</b> , 53, 2818-26	3.2	57
105	Primary and secondary photodynamics of the violet/orange dual-cysteine NpF2164g3 cyanobacteriochrome domain from <i>Nostoc punctiforme</i> . <i>Biochemistry</i> , <b>2014</b> , 53, 1029-40	3.2	21
104	Extensive remodeling of a cyanobacterial photosynthetic apparatus in far-red light. <i>Science</i> , <b>2014</b> , 345, 1312-7	33.3	239
103	Conserved phenylalanine residues are required for blue-shifting of cyanobacteriochrome photoproducts. <i>Biochemistry</i> , <b>2014</b> , 53, 3118-30	3.2	60
102	Optically Guided Photoactivity: Coordinating Tautomerization, Photoisomerization, Inhomogeneity, and Reactive Intermediates within the RcaE Cyanobacteriochrome. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1527-33	6.4	9
101	Heterogeneous photodynamics of the pfr state in the cyanobacterial phytochrome Cph1. <i>Biochemistry</i> , <b>2014</b> , 53, 4601-11	3.2	28
100	<sup>1</sup> H, <sup>15</sup> N, and <sup>13</sup> C chemical shift assignments of cyanobacteriochrome NpF2164g3 in the photoproduct state. <i>Biomolecular NMR Assignments</i> , <b>2014</b> , 8, 259-62	0.7	8
99	Primary endosymbiosis and the evolution of light and oxygen sensing in photosynthetic eukaryotes. <i>Frontiers in Ecology and Evolution</i> , <b>2014</b> , 2,	3.7	31
98	Eukaryotic algal phytochromes span the visible spectrum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 3871-6	11.5	130
97	Phytochrome C plays a major role in the acceleration of wheat flowering under long-day photoperiod. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 10037-44	11.5	121
96	Unraveling the Primary Isomerization Dynamics in Cyanobacterial Phytochrome Cph1 with Multi-pulse Manipulations. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 2605-2609	6.4	40

95	His74 conservation in the bilin reductase PcyA family reflects an important role in protein-substrate structure and dynamics. <i>Archives of Biochemistry and Biophysics</i> , <b>2013</b> , 537, 233-42	4.1	6
94	Green/red cyanobacteriochromes regulate complementary chromatic acclimation via a protochromic photocycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 4974-9	11.5	121
93	Reactive ground-state pathways are not ubiquitous in red/green cyanobacteriochromes. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 11229-38	3.4	27
92	Primary photodynamics of the green/red-absorbing photoswitching regulator of the chromatic adaptation E domain from <i>Fremyella diplosiphon</i> . <i>Biochemistry</i> , <b>2013</b> , 52, 8198-208	3.2	27
91	Unanticipated regulatory roles for Arabidopsis phytochromes revealed by null mutant analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 1542-7	11.5	79
90	Retrograde bilin signaling enables <i>Chlamydomonas</i> greening and phototrophic survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 3621-6	11.5	81
89	Phytochrome B inhibits binding of phytochrome-interacting factors to their target promoters. <i>Plant Journal</i> , <b>2012</b> , 72, 537-46	6.9	118
88	Red/green cyanobacteriochromes: sensors of color and power. <i>Biochemistry</i> , <b>2012</b> , 51, 9667-77	3.2	111
87	Ultrafast E to Z photoisomerization dynamics of the Cph1 phytochrome. <i>Chemical Physics Letters</i> , <b>2012</b> , 549, 86-92	2.5	16
86	Femtosecond photodynamics of the red/green cyanobacteriochrome NpR6012g4 from <i>Nostoc punctiforme</i> . 1. Forward dynamics. <i>Biochemistry</i> , <b>2012</b> , 51, 608-18	3.2	69
85	Phycoviolobin formation and spectral tuning in the DXCF cyanobacteriochrome subfamily. <i>Biochemistry</i> , <b>2012</b> , 51, 1449-63	3.2	109
84	Mechanistic insight into the photosensory versatility of DXCF cyanobacteriochromes. <i>Biochemistry</i> , <b>2012</b> , 51, 3576-85	3.2	75
83	Femtosecond photodynamics of the red/green cyanobacteriochrome NpR6012g4 from <i>Nostoc punctiforme</i> . 2. reverse dynamics. <i>Biochemistry</i> , <b>2012</b> , 51, 619-30	3.2	66
82	Second-chance forward isomerization dynamics of the red/green cyanobacteriochrome NpR6012g4 from <i>Nostoc punctiforme</i> . <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 130-3	16.4	52
81	Chemical inhomogeneity in the ultrafast dynamics of the DXCF cyanobacteriochrome Tlr0924. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 10571-81	3.4	30
80	Near-UV cyanobacteriochrome signaling system elicits negative phototaxis in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 10780-5	11.5	133
79	Diverse two-cysteine photocycles in phytochromes and cyanobacteriochromes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 11854-9	11.5	156
78	Structural insights into vinyl reduction regiospecificity of phycocyanobilin:ferredoxin oxidoreductase (PcyA). <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 1000-7	5.4	19

77	Climate change and the integrity of science. <i>Science</i> , <b>2010</b> , 328, 689-90	33.3	116
76	Structural basis for hydration dynamics in radical stabilization of bilin reductase mutants. <i>Biochemistry</i> , <b>2010</b> , 49, 6206-18	3.2	12
75	Biliverdin amides reveal roles for propionate side chains in bilin reductase recognition and in holophytochrome assembly and photoconversion. <i>Biochemistry</i> , <b>2010</b> , 49, 6070-82	3.2	25
74	A brief history of phytochromes. <i>ChemPhysChem</i> , <b>2010</b> , 11, 1172-80	3.2	272
73	Distinct classes of red/far-red photochemistry within the phytochrome superfamily. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 6123-7	11.5	111
72	Ultrafast excited-state isomerization in phytochrome revealed by femtosecond stimulated Raman spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1784-9	11.5	151
71	A light-independent allele of phytochrome B faithfully recapitulates photomorphogenic transcriptional networks. <i>Molecular Plant</i> , <b>2009</b> , 2, 166-82	14.4	57
70	Homogeneity of phytochrome Cph1 vibronic absorption revealed by resonance Raman intensity analysis. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 13946-8	16.4	36
69	Structure of the biliverdin radical intermediate in phycocyanobilin:ferredoxin oxidoreductase identified by high-field EPR and DFT. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 1986-95	16.4	36
68	A second conserved GAF domain cysteine is required for the blue/green photoreversibility of cyanobacteriochrome Tlr0924 from <i>Thermosynechococcus elongatus</i> . <i>Biochemistry</i> , <b>2008</b> , 47, 7304-16	3.2	110
67	Insight into the radical mechanism of phycocyanobilin-ferredoxin oxidoreductase (PcyA) revealed by X-ray crystallography and biochemical measurements. <i>Biochemistry</i> , <b>2007</b> , 46, 1484-94	3.2	45
66	Flexible mapping of homology onto structure with homolmapper. <i>BMC Bioinformatics</i> , <b>2007</b> , 8, 123	3.6	17
65	Light-independent phytochrome signaling mediated by dominant GAF domain tyrosine mutants of <i>Arabidopsis</i> phytochromes in transgenic plants. <i>Plant Cell</i> , <b>2007</b> , 19, 2124-39	11.6	102
64	The structure of phytochrome: a picture is worth a thousand spectra. <i>Plant Cell</i> , <b>2006</b> , 18, 4-14	11.6	92
63	Single-molecule dynamics of phytochrome-bound fluorophores probed by fluorescence correlation spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 11136-41	11.5	31
62	A conserved histidine-aspartate pair is required for exovinyl reduction of biliverdin by a cyanobacterial phycocyanobilin:ferredoxin oxidoreductase. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 3127-36	5.4	20
61	Phytochrome structure and signaling mechanisms. <i>Annual Review of Plant Biology</i> , <b>2006</b> , 57, 837-58	30.7	807
60	Multiple roles of a conserved GAF domain tyrosine residue in cyanobacterial and plant phytochromes. <i>Biochemistry</i> , <b>2005</b> , 44, 15203-15	3.2	83



59	The Phytochromes <b>2005</b> , 121-149		16
58	Complementation of phytochrome chromophore-deficient Arabidopsis by expression of phycocyanobilin:ferredoxin oxidoreductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 1099-104	11.5	28
57	Harnessing phytochrome's glowing potential. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 17334-9	11.5	156
56	RcaE is a complementary chromatic adaptation photoreceptor required for green and red light responsiveness. <i>Molecular Microbiology</i> , <b>2004</b> , 51, 567-77	4.1	110
55	Biliverdin reduction by cyanobacterial phycocyanobilin:ferredoxin oxidoreductase (PcyA) proceeds via linear tetrapyrrole radical intermediates. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 8682-93	16.4	52
54	Engineering phytochromes: biliproteins that switch and glow <b>2004</b> , 5329, 33		
53	Phycocyanobilin:ferredoxin oxidoreductase of Anabaena sp. PCC 7120. Biochemical and spectroscopic. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 9219-26	5.4	71
52	Misregulation of tetrapyrrole biosynthesis in transgenic tobacco seedlings expressing mammalian biliverdin reductase. <i>Plant Journal</i> , <b>2003</b> , 35, 717-28	6.9	19
51	Two-photon excitation of a phytofluor protein. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2002</b> , 150, 13-19	4.7	3
50	Analysis and Reconstitution of Phytochromes <b>2002</b> , 293-309		
49	Phytochrome ancestry: sensors of bilins and light. <i>Trends in Plant Science</i> , <b>2002</b> , 7, 357-66	13.1	241
48	The Arabidopsis HY2 gene encodes phytochromobilin synthase, a ferredoxin-dependent biliverdin reductase. <i>Plant Cell</i> , <b>2001</b> , 13, 425-36	11.6	209
47	Functional genomic analysis of the HY2 family of ferredoxin-dependent bilin reductases from oxygenic photosynthetic organisms. <i>Plant Cell</i> , <b>2001</b> , 13, 965-78	11.6	209
46	The Arabidopsis HY2 Gene Encodes Phytochromobilin Synthase, a Ferredoxin-Dependent Biliverdin Reductase. <i>Plant Cell</i> , <b>2001</b> , 13, 425	11.6	9
45	Genetic engineering of phytochrome biosynthesis in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 10566-71	11.5	192
44	Purification and biochemical properties of phytochromobilin synthase from etiolated oat seedlings. <i>Plant Physiology</i> , <b>2001</b> , 126, 1546-54	6.6	23
43	Biliverdin reductase-induced phytochrome chromophore deficiency in transgenic tobacco. <i>Plant Physiology</i> , <b>2001</b> , 125, 266-77	6.6	14
42	Functional Genomic Analysis of the HY2 Family of Ferredoxin-Dependent Bilin Reductases from Oxygenic Photosynthetic Organisms. <i>Plant Cell</i> , <b>2001</b> , 13, 965	11.6	4

41	Probing the photoreaction mechanism of phytochrome through analysis of resonance Raman vibrational spectra of recombinant analogues. <i>Biochemistry</i> , <b>2000</b> , 39, 2667-76	3.2	82
40	Defining the bilin lyase domain: lessons from the extended phytochrome superfamily. <i>Biochemistry</i> , <b>2000</b> , 39, 13487-95	3.2	169
39	Phytofluors: Phytochrome-Based Orange Fluorescent Protein Probes. <i>Microscopy and Microanalysis</i> , <b>1999</b> , 5, 1050-1051	0.5	
38	Modification of distinct aspects of photomorphogenesis via targeted expression of mammalian biliverdin reductase in transgenic Arabidopsis plants. <i>Plant Physiology</i> , <b>1999</b> , 121, 629-39	6.6	40
37	A phytochrome from the fern Adiantum with features of the putative photoreceptor NPH1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 15826-30	11.5	184
36	Eukaryotic phytochromes: light-regulated serine/threonine protein kinases with histidine kinase ancestry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 13976-81	11.5	377
35	Regulation of Photomorphogenesis by Expression of Mammalian Biliverdin Reductase in Transgenic Arabidopsis Plants. <i>Plant Cell</i> , <b>1997</b> , 9, 675	11.6	1
34	Phycocyanobilin is the natural precursor of the phytochrome chromophore in the green alga Mesotaenium caldariorum. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 25700-5	5.4	58
33	A cyanobacterial phytochrome two-component light sensory system. <i>Science</i> , <b>1997</b> , 277, 1505-8	33.3	482
32	Purification and characterization of recombinant affinity peptide-tagged oat phytochrome A. <i>Photochemistry and Photobiology</i> , <b>1997</b> , 65, 750-8	3.6	44
31	The phytofluors: a new class of fluorescent protein probes. <i>Current Biology</i> , <b>1997</b> , 7, 870-6	6.3	97
30	Resonance raman analysis of chromophore structure in the lumi-R photoproduct of phytochrome. <i>Biochemistry</i> , <b>1996</b> , 35, 15997-6008	3.2	104
29	The methylotrophic yeast <i>Pichia pastoris</i> synthesizes a functionally active chromophore precursor of the plant photoreceptor phytochrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 8989-94	11.5	35
28	Atypical phytochrome gene structure in the green alga Mesotaenium caldariorum. <i>Plant Molecular Biology</i> , <b>1995</b> , 29, 1127-42	4.6	79
27	(3Z)- and (3E)-phytochromobilin are intermediates in the biosynthesis of the phytochrome chromophore. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 11111-8	5.4	43
26	Continuous fluorescence assay of phytochrome assembly in vitro. <i>Biochemistry</i> , <b>1995</b> , 34, 7923-30	3.2	55
25	Phytochrome assembly in living cells of the yeast <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1994</b> , 91, 12535-9	11.5	32
24	Biosynthesis of the plant photoreceptor phytochrome. <i>Archives of Biochemistry and Biophysics</i> , <b>1993</b> , 306, 1-15	4.1	109



23	Expression and assembly of spectrally active recombinant holophytochrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1991</b> , 88, 10387-91	11.5	72
22	Calcium Transport in the Green Alga <i>Mesotaenium caldariorum</i> : Preliminary Characterization and Subcellular Distribution. <i>Plant Physiology</i> , <b>1990</b> , 93, 748-57	6.6	13
21	Phosphopeptide mapping of <i>Avena</i> phytochrome phosphorylated by protein kinases in vitro. <i>Biochemistry</i> , <b>1990</b> , 29, 3872-8	3.2	66
20	Resonance Raman analysis of the Pr and Pfr forms of phytochrome. <i>Biochemistry</i> , <b>1990</b> , 29, 11141-6	3.2	93
19	Properties of a polycation-stimulated protein kinase associated with purified <i>Avena</i> phytochrome. <i>Plant Physiology</i> , <b>1989</b> , 91, 709-18	6.6	58
18	Self-assembly of synthetic phytochrome holoprotein in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1989</b> , 86, 5778-80	11.5	107
17	Resonance Raman spectra of the Pr-form of phytochrome. <i>Photochemistry and Photobiology</i> , <b>1988</b> , 48, 129-36	3.6	49
16	4-amino-5-hexynoic Acid-a potent inhibitor of tetrapyrrole biosynthesis in plants. <i>Plant Physiology</i> , <b>1988</b> , 88, 747-51	6.6	20
15	Phytochrome Chromophore Biosynthesis : Both 5-Aminolevulinic Acid and Biliverdin Overcome Inhibition by Gabaculine in Etiolated <i>Avena sativa</i> L. Seedlings. <i>Plant Physiology</i> , <b>1987</b> , 84, 304-10	6.6	66
14	COMPARATIVE PHOTOCHEMICAL ANALYSIS OF HIGHLY PURIFIED 124 KILODALTON OAT and RYE PHYTOCHROMES in vitro. <i>Photochemistry and Photobiology</i> , <b>1987</b> , 46, 5-13	3.6	121
13	Visualization of bilin-linked peptides and proteins in polyacrylamide gels. <i>Analytical Biochemistry</i> , <b>1986</b> , 156, 194-201	3.1	229
12	PROGRESS IN THE MOLECULAR ANALYSIS OF PHYTOCHROME. <i>Photochemistry and Photobiology</i> , <b>1985</b> , 42, 811-820	3.6	75
11	Photochemistry of 124-kilodalton <i>Avena</i> phytochrome under constant illumination in vitro. <i>Biochemistry</i> , <b>1985</b> , 24, 6003-6010	3.2	120
10	Low-temperature luminescence characterization of 124-kilodalton phytochrome from <i>Avena sativa</i> . <i>Biochemistry</i> , <b>1983</b> , 22, 2846-2851	3.2	19
9	Cyclopeptide alkaloids. Conformational analysis of the dihydro-p-phencyclopeptide nucleus. <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 1031-1040	16.4	8
8	Bile pigment--protein interactions. Coupled oxidation of cytochrome c. <i>Biochemistry</i> , <b>1982</b> , 21, 5962-7	3.2	6
7	Chromopeptides from phytochrome. The structure and linkage of the PR form of the phytochrome chromophore. <i>Journal of the American Chemical Society</i> , <b>1980</b> , 102, 4821-4828	16.4	276
6	Cyclopeptide alkaloids. Synthetic, spectroscopic and conformational studies of phencyclopeptide model compounds. <i>Journal of Organic Chemistry</i> , <b>1980</b> , 45, 4813-4817	4.2	21

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2	Cyclopeptide alkaloids. Synthesis of the ring system and its ion affinity. <i>Journal of the American Chemical Society</i> , <b>1978</b> , 100, 8202-8209	16.4	44
1	Molecular Basis of Far-red Sensing in Cyanobacteriochrome		2