John Christie

List of Publications by Year
in descending order

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85 papers	11,011 citations	61984 43 h-index	74163 75 g-index
89 all docs	89 docs citations	89 times ranked	7118 citing authors

#	Article	IF	Citations
1	Phototropin Blue-Light Receptors. Annual Review of Plant Biology, 2007, 58, 21-45.	18.7	777
2	Phototropins 1 and 2: versatile plant blue-light receptors. Trends in Plant Science, 2002, 7, 204-210.	8.8	701
3	Arabidopsis nph1 and npl1: Blue light receptors that mediate both phototropism and chloroplast relocation. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 6969-6974.	7.1	683
4	Photochemical and Mutational Analysis of the FMN-Binding Domains of the Plant Blue Light Receptor, Phototropinâ€,â€¡. Biochemistry, 2000, 39, 9401-9410.	2.5	558
5	LOV (light, oxygen, or voltage) domains of the blue-light photoreceptor phototropin (nph1): Binding sites for the chromophore flavin mononucleotide. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8779-8783.	7.1	550
6	Arabidopsis NPH1: A Flavoprotein with the Properties of a Photoreceptor for Phototropism. , 1998, 282, 1698-1701.		543
7	UK guidelines on the management of variceal haemorrhage in cirrhotic patients. Gut, 2015, 64, 1680-1704.	12.1	518
8	The Photocycle of a Flavin-binding Domain of the Blue Light Photoreceptor Phototropin. Journal of Biological Chemistry, 2001, 276, 36493-36500.	3.4	492
9	Plant UVR8 Photoreceptor Senses UV-B by Tryptophan-Mediated Disruption of Cross-Dimer Salt Bridges. Science, 2012, 335, 1492-1496.	12.6	397
10	The Phototropin Family of Photoreceptors. Plant Cell, 2001, 13, 993-997.	6.6	337
11	Photochemical Properties of the Flavin Mononucleotide-Binding Domains of the Phototropins from Arabidopsis, Rice, andChlamydomonas reinhardtii. Plant Physiology, 2002, 129, 762-773.	4.8	292
12	Phototropin LOV domains exhibit distinct roles in regulating photoreceptor function. Plant Journal, 2002, 32, 205-219.	5.7	283
13	Disruption of the LOVâ^'Jα Helix Interaction Activates Phototropin Kinase Activityâ€. Biochemistry, 2004, 43, 16184-16192.	2.5	276
14	Distinct UV-B and UV-A/blue light signal transduction pathways induce chalcone synthase gene expression in Arabidopsis cells.. Plant Cell, 1996, 8, 1555-1567.	6.6	244
15	The photoreversible fluorescent protein iLOV outperforms GFP as a reporter of plant virus infection. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20038-20043.	7.1	225
16	phot1 Inhibition of ABCB19 Primes Lateral Auxin Fluxes in the Shoot Apex Required For Phototropism. PLoS Biology, 2011, 9, e1001076.	5.6	222
17	Plant Flavoprotein Photoreceptors. Plant and Cell Physiology, 2015, 56, 401-413.	3.1	213
18	Optogenetic manipulation of stomatal kinetics improves carbon assimilation, water use, and growth. Science, 2019, 363, 1456-1459.	12.6	205

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19	C-terminal region of the UV-B photoreceptor UVR8 initiates signaling through interaction with the COP1 protein. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16366-16370.	7.1	168
20	Blue Light Sensing in Higher Plants. Journal of Biological Chemistry, 2001, 276, 11457-11460.	3.4	167
21	Identification of UV/blue light-response elements in the Arabidopsis thaliana chalcone synthase promoter using a homologous protoplast transient expression system. Plant Molecular Biology, 1998, 36, 741-754.	3.9	154
22	Phosphorylation of BLUS1 kinase by phototropins is a primary step in stomatal opening. Nature Communications, 2013, 4, 2094.	12.8	154
23	Plant Phototropic Growth. Current Biology, 2015, 25, R384-R389.	3.9	141
24	Engineering of a light-gated potassium channel. Science, 2015, 348, 707-710.	12.6	133
25	Arabidopsis Contains at Least Four Independent Blue-Light-Activated Signal Transduction Pathways1. Plant Physiology, 1999, 120, 605-614.	4.8	131
26	Structural Tuning of the Fluorescent Protein iLOV for Improved Photostability. Journal of Biological Chemistry, 2012, 287, 22295-22304.	3.4	130
27	Shoot phototropism in higher plants: New light through old concepts. American Journal of Botany, 2013, 100, 35-46.	1.7	119
28	Domain Swapping to Assess the Mechanistic Basis ofArabidopsisPhototropin 1 Receptor Kinase Activation and Endocytosis by Blue Light Â Â. Plant Cell, 2009, 21, 3226-3244.	6.6	116
29	LOV to BLUF: Flavoprotein Contributions to the Optogenetic Toolkit. Molecular Plant, 2012, 5, 533-544.	8.3	116
30	LOV-based reporters for fluorescence imaging. Current Opinion in Chemical Biology, 2015, 27, 39-45.	6.1	104
31	Steric Interactions Stabilize the Signaling State of the LOV2 Domain of Phototropin 1. Biochemistry, 2007, 46, 9310-9319.	2.5	98
32	Physiological Roles of the Light, Oxygen, or Voltage Domains of Phototropin 1 and Phototropin 2 in Arabidopsis. Plant Physiology, 2007, 143, 517-529.	4.8	96
33	In Vivo Phosphorylation Site Mapping and Functional Characterization of Arabidopsis Phototropin 1. Molecular Plant, 2008, 1, 178-194.	8.3	89
34	Many hands make light work. Journal of Experimental Botany, 2007, 58, 3071-3077.	4.8	85
35	Phytochrome Kinase Substrate 4 is phosphorylated by the phototropin 1 photoreceptor. EMBO Journal, 2012, 31, 3457-3467.	7.8	82
36	Plant responses to UV and blue light: biochemical and genetic approaches. Plant Science, 1995, 112, 117-138.	3.6	79

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37	Phototropins: A New Family of Flavin-Binding Blue Light Receptors in Plants. Antioxidants and Redox Signaling, 2001, 3, 775-788.	5.4	79
38	Mutational Analysis of Phototropin 1 Provides Insights into the Mechanism Underlying LOV2 Signal Transmission. Journal of Biological Chemistry, 2007, 282, 6405-6414.	3.4	79
39	Interaction specificity of Arabidopsis 14â€3â€3 proteins with phototropin receptor kinases. FEBS Letters, 2009, 583, 2187-2193.	2.8	75
40	PhycomycesMADB interacts with MADA to form the primary photoreceptor complex for fungal phototropism. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7095-7100.	7.1	73
41	Phototropin from Chlamydomonas reinhardtii is Functional in Arabidopsisthaliana. Plant and Cell Physiology, 2005, 46, 367-374.	3.1	56
42	A eukaryotic LOVâ€histidine kinase with circadian clock function in the picoalga Ostreococcus. Plant Journal, 2011, 65, 578-588.	5.7	55
43	Shining Light on the Function of NPH3/RPT2-Like Proteins in Phototropin Signaling. Plant Physiology, 2018, 176, 1015-1024.	4.8	54
44	Lighting Up Clostridium Difficile: Reporting Gene Expression Using Fluorescent Lov Domains. Scientific Reports, 2016, 6, 23463.	3.3	51
45	Distinct UV-B and UV-A/Blue Light Signal Transduction Pathways Induce Chalcone Synthase Gene Expression in Arabidopsis Cells. Plant Cell, 1996, 8, 1555.	6.6	49
46	Arabidopsis Blue Light Receptor Phototropin 1 Undergoes Blue Light-Induced Activation in Membrane Microdomains. Molecular Plant, 2018, 11, 846-859.	8.3	44
47	Engineering the phototropin photocycle improves photoreceptor performance and plant biomass production. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12550-12557.	7.1	40
48	Geomagnetic field impacts on cryptochrome and phytochrome signaling. Journal of Photochemistry and Photobiology B: Biology, 2018, 185, 32-40.	3.8	38
49	Native mass spectrometry reveals the conformational diversity of the UVR8 photoreceptor. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1116-1125.	7.1	35
50	Lipid anchoring of A rabidopsis phototropin 1 to assess the functional significance of receptor internalization: should I stay or should I go?. New Phytologist, 2015, 206, 1038-1050.	7.3	34
51	Evolution of rapid blueâ€light response linked to explosive diversification of ferns in angiosperm forests. New Phytologist, 2021, 230, 1201-1213.	7.3	33
52	Deetiolation Enhances Phototropism by Modulating NON-PHOTOTROPIC HYPOCOTYL3 Phosphorylation Status. Plant Physiology, 2019, 180, 1119-1131.	4.8	32
53	Phototropins and Their LOV Domains: Versatile Plant Blue-Light Receptors. Journal of Integrative Plant Biology, 2007, 49, 4-10.	8.5	30
54	SipA Activation of Caspase-3 Is a Decisive Mediator of Host Cell Survival at Early Stages of Salmonella enterica Serovar Typhimurium Infection. Infection and Immunity, 2017, 85, .	2.2	29

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55	An infectious recombinant foot-and-mouth disease virus expressing a fluorescent marker protein. Journal of General Virology, 2013, 94, 1517-1527.	2.9	28
56	Proton-Coupled Electron Transfer Constitutes the Photoactivation Mechanism of the Plant Photoreceptor UVR8. Journal of the American Chemical Society, 2015, 137, 8113-8120.	13.7	28
57	Reaction dynamics of the UV-B photosensor UVR8. Photochemical and Photobiological Sciences, 2015, 14, 995-1004.	2.9	26
58	Phytochrome A Mediates Blue-Light Enhancement of Second-Positive Phototropism in Arabidopsis. Frontiers in Plant Science, 2016, 7, 290.	3.6	26
59	Visualizing the Translocation and Localization of Bacterial Type III Effector Proteins by Using a Genetically Encoded Reporter System. Applied and Environmental Microbiology, 2016, 82, 2700-2708.	3.1	26
60	Optogenetics in plants. New Phytologist, 2021, 229, 3108-3115.	7.3	26
61	Dimer/monomer status and inÂvivo function of saltâ€bridge mutants of the plant <scp>UV</scp>â€B photoreceptor <scp>UVR</scp>8. Plant Journal, 2016, 88, 71-81.	5.7	25
62	Two photon spectroscopy and microscopy of the fluorescent flavoprotein, iLOV. Physical Chemistry Chemical Physics, 2018, 20, 16949-16955.	2.8	25
63	Express Your LOV: An Engineered Flavoprotein as a Reporter for Protein Expression and Purification. PLoS ONE, 2012, 7, e52962.	2.5	24
64	Regulation of plant phototropic growth by NPH3/RPT2-like substrate phosphorylation and 14-3-3 binding. Nature Communications, 2021, 12, 6129.	12.8	23
65	Functional characterization of Ostreococcus tauri phototropin. New Phytologist, 2016, 209, 612-623.	7.3	21
66	The Phototropin Family of Photoreceptors. Plant Cell, 2001, 13, 993.	6.6	19
67	Photoinduced transformation of UVR8 monitored by vibrational and fluorescence spectroscopy. Photochemical and Photobiological Sciences, 2015, 14, 252-257.	2.9	19
68	Exploring the size limit of protein diffusion through the periplasm in cyanobacterium Anabaena sp. PCC 7120 using the 13ÂkDa iLOV fluorescentÂprotein. Research in Microbiology, 2013, 164, 710-717.	2.1	18
69	CIPK23 regulates blue lightâ€dependent stomatal opening in Arabidopsis thaliana. Plant Journal, 2020, 104, 679-692.	5.7	18
70	Subcellular localization and turnover of Arabidopsis phototropin 1. Plant Signaling and Behavior, 2010, 5, 184-186.	2.4	16
71	Functional characterization of Arabidopsis phototropin 1 in the hypocotyl apex. Plant Journal, 2016, 88, 907-920.	5.7	16
72	Functional characterization of a constitutively active kinase variant of Arabidopsis phototropin 1. Journal of Biological Chemistry, 2017, 292, 13843-13852.	3.4	16

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73	Blue Light Sensing and Signaling by the Phototropins. , 2005, , 277-303.		15
74	A chemical genetic approach to engineer phototropin kinases for substrate labeling. Journal of Biological Chemistry, 2018, 293, 5613-5623.	3.4	11
75	Phototropin Receptor Kinase Activation by Blue Light. Plant Signaling and Behavior, 2008, 3, 44-46.	2.4	9
76	Blueâ€light receptor phototropin 1 suppresses immunity to promote Phytophthora infestans infection. New Phytologist, 2022, 233, 2282-2293.	7.3	5
77	The fluorescent protein iLOV as a reporter for screening of highâ€yield production of antimicrobial peptides in Pichia pastoris. Microbial Biotechnology, 2022, 15, 2126-2139.	4.2	2
78	Phototropins and Other LOV-containing Proteins. , 0, , 49-78.		1
79	PHOTOTROPINS. , 2006, , 223-252.		1
80	Light Sensing at the Plasma Membrane. Plant Cell Monographs, 2011, , 423-436.	0.4	0
81	3P243 Photochemistry of full-length phototropin from green algae(18A. Photobiology: Vision &) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	0
82	Plant Physiology Sees the Light. Plant Physiology, 2014, 164, 12-12.	4.8	0
83	Spatio-temporal properties of oculomotor activation by multiple, simultaneous peripheral stimuli. Vision Research, 2021, 188, 251-261.	1.4	0
84	2F1558 The study of the dissociation and recovery reaction kinetics for photo-sensor protein UVR8(Photobiology:Vision & Photoreception II,Oral Presentation,The 50th Annual Meeting of the) Tj ETQq0 0 0 rgBT /Overlock	0.1	0
85	Initiation of phototropic growth: The where, the how and the now. Biochemist, 2013, 35, 8-12.	0.5	0