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	Blueâ€light receptor phototropin 1 suppresses immunity to promote Phytophthora infestans infection. New Phytologist, 2022, 233, 2282-2293.	7.3	5
2	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
3	Optogenetics in plants. New Phytologist, 2021, 229, 3108-3115.	7.3	26
4	Evolution of rapid blueâ€light response linked to explosive diversification of ferns in angiosperm forests. New Phytologist, 2021, 230, 1201-1213.	7.3	33
5	Spatio-temporal properties of oculomotor activation by multiple, simultaneous peripheral stimuli. Vision Research, 2021, 188, 251-261.	1.4	0
6	Regulation of plant phototropic growth by NPH3/RPT2-like substrate phosphorylation and 14-3-3 binding. Nature Communications, 2021, 12, 6129.	12.8	23
7	CIPK23 regulates blue lightâ€dependent stomatal opening in Arabidopsis thaliana. Plant Journal, 2020, 104, 679-692.	5.7	18
8	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
9	Optogenetic manipulation of stomatal kinetics improves carbon assimilation, water use, and growth. Science, 2019, 363, 1456-1459.	12.6	205
10	Deetiolation Enhances Phototropism by Modulating NON-PHOTOTROPIC HYPOCOTYL3 Phosphorylation Status. Plant Physiology, 2019, 180, 1119-1131.	4.8	32
11	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
12	A chemical genetic approach to engineer phototropin kinases for substrate labeling. Journal of Biological Chemistry, 2018, 293, 5613-5623.	3.4	11
13	Arabidopsis Blue Light Receptor Phototropin 1 Undergoes Blue Light-Induced Activation in Membrane Microdomains. Molecular Plant, 2018, 11, 846-859.	8.3	44
14	Geomagnetic field impacts on cryptochrome and phytochrome signaling. Journal of Photochemistry and Photobiology B: Biology, 2018, 185, 32-40.	3.8	38
15	Two photon spectroscopy and microscopy of the fluorescent flavoprotein, iLOV. Physical Chemistry Chemical Physics, 2018, 20, 16949-16955.	2.8	25
16	Shining Light on the Function of NPH3/RPT2-Like Proteins in Phototropin Signaling. Plant Physiology, 2018, 176, 1015-1024.	4.8	54
17	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
18	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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19	Phytochrome A Mediates Blue-Light Enhancement of Second-Positive Phototropism in Arabidopsis. Frontiers in Plant Science, 2016, 7, 290.	3.6	26
20	Functional characterization of Ostreococcus tauri phototropin. New Phytologist, 2016, 209, 612-623.	7.3	21
21	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
22	Functional characterization of Arabidopsis phototropin 1 in the hypocotyl apex. Plant Journal, 2016, 88, 907-920.	5.7	16
23	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
24	Lighting Up Clostridium Difficile: Reporting Gene Expression Using Fluorescent Lov Domains. Scientific Reports, 2016, 6, 23463.	3.3	51
25	Plant Flavoprotein Photoreceptors. Plant and Cell Physiology, 2015, 56, 401-413.	3.1	213
26	LOV-based reporters for fluorescence imaging. Current Opinion in Chemical Biology, 2015, 27, 39-45.	6.1	104
27	UK guidelines on the management of variceal haemorrhage in cirrhotic patients. Gut, 2015, 64, 1680-1704.	12.1	518
28	Reaction dynamics of the UV-B photosensor UVR8. Photochemical and Photobiological Sciences, 2015, 14, 995-1004.	2.9	26
29	Plant Phototropic Growth. Current Biology, 2015, 25, R384-R389.	3.9	141
30	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
31	Engineering of a light-gated potassium channel. Science, 2015, 348, 707-710.	12.6	133
32	Photoinduced transformation of UVR8 monitored by vibrational and fluorescence spectroscopy. Photochemical and Photobiological Sciences, 2015, 14, 252-257.	2.9	19
33	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
34	Plant Physiology Sees the Light. Plant Physiology, 2014, 164, 12-12.	4.8	0
35	An infectious recombinant foot-and-mouth disease virus expressing a fluorescent marker protein. Journal of General Virology, 2013, 94, 1517-1527.	2.9	28
36	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

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37	Phosphorylation of BLUS1 kinase by phototropins is a primary step in stomatal opening. Nature Communications, 2013, 4, 2094.	12.8	154
38	Shoot phototropism in higher plants: New light through old concepts. American Journal of Botany, 2013, 100, 35-46.	1.7	119
39	3P243 Photochemistry of full-length phototropin from green algae(18A. Photobiology: Vision &) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	0
40	Initiation of phototropic growth: The where, the how and the now. Biochemist, 2013, 35, 8-12.	0.5	0
41	Phytochrome Kinase Substrate 4 is phosphorylated by the phototropin 1 photoreceptor. EMBO Journal, 2012, 31, 3457-3467.	7.8	82
42	LOV to BLUF: Flavoprotein Contributions to the Optogenetic Toolkit. Molecular Plant, 2012, 5, 533-544.	8.3	116
43	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
44	Express Your LOV: An Engineered Flavoprotein as a Reporter for Protein Expression and Purification. PLoS ONE, 2012, 7, e52962.	2.5	24
45	Structural Tuning of the Fluorescent Protein iLOV for Improved Photostability. Journal of Biological Chemistry, 2012, 287, 22295-22304.	3.4	130
46	Plant UVR8 Photoreceptor Senses UV-B by Tryptophan-Mediated Disruption of Cross-Dimer Salt Bridges. Science, 2012, 335, 1492-1496.	12.6	397
47	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 ETQq1 1 0.784314 rgBT /Ov	0.1	0
48	A eukaryotic LOVâ€histidine kinase with circadian clock function in the picoalga Ostreococcus. Plant Journal, 2011, 65, 578-588.	5.7	55
49	phot1 Inhibition of ABCB19 Primes Lateral Auxin Fluxes in the Shoot Apex Required For Phototropism. PLoS Biology, 2011, 9, e1001076.	5.6	222
50	Light Sensing at the Plasma Membrane. Plant Cell Monographs, 2011, , 423-436.	0.4	0
51	Subcellular localization and turnover of Arabidopsis phototropin 1. Plant Signaling and Behavior, 2010, 5, 184-186.	2.4	16
52	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
53	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
54	Interaction specificity of Arabidopsis 14â€3â€3 proteins with phototropin receptor kinases. FEBS Letters, 2009, 583, 2187-2193.	2.8	75

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55	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
56	In Vivo Phosphorylation Site Mapping and Functional Characterization of Arabidopsis Phototropin 1. Molecular Plant, 2008, 1, 178-194.	8.3	89
57	Phototropin Receptor Kinase Activation by Blue Light. Plant Signaling and Behavior, 2008, 3, 44-46.	2.4	9
58	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
59	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
60	Many hands make light work. Journal of Experimental Botany, 2007, 58, 3071-3077.	4.8	85
61	Steric Interactions Stabilize the Signaling State of the LOV2 Domain of Phototropin 1. Biochemistry, 2007, 46, 9310-9319.	2.5	98
62	Phototropins and Their LOV Domains: Versatile Plant Blue-Light Receptors. Journal of Integrative Plant Biology, 2007, 49, 4-10.	8.5	30
63	Phototropin Blue-Light Receptors. Annual Review of Plant Biology, 2007, 58, 21-45.	18.7	777
64	PHOTOTROPINS. , 2006, , 223-252.		1
65	Blue Light Sensing and Signaling by the Phototropins. , 2005, , 277-303.		15
66	Phototropin from Chlamydomonas reinhardtii is Functional in Arabidopsisthaliana. Plant and Cell Physiology, 2005, 46, 367-374.	3.1	56
67	Disruption of the LOVâ^'JÎ± Helix Interaction Activates Phototropin Kinase Activityâ€. Biochemistry, 2004, 43, 16184-16192.	2.5	276
68	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
69	Phototropins 1 and 2: versatile plant blue-light receptors. Trends in Plant Science, 2002, 7, 204-210.	8.8	701
70	Phototropin LOV domains exhibit distinct roles in regulating photoreceptor function. Plant Journal, 2002, 32, 205-219.	5.7	283
71	Phototropins: A New Family of Flavin-Binding Blue Light Receptors in Plants. Antioxidants and Redox Signaling, 2001, 3, 775-788.	5.4	79
72	The Phototropin Family of Photoreceptors. Plant Cell, 2001, 13, 993-997.	6.6	337

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73	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
74	Blue Light Sensing in Higher Plants. Journal of Biological Chemistry, 2001, 276, 11457-11460.	3.4	167
75	The Photocycle of a Flavin-binding Domain of the Blue Light Photoreceptor Phototropin. Journal of Biological Chemistry, 2001, 276, 36493-36500.	3.4	492
76	The Phototropin Family of Photoreceptors. Plant Cell, 2001, 13, 993.	6.6	19
77	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
78	Arabidopsis Contains at Least Four Independent Blue-Light-Activated Signal Transduction Pathways1. Plant Physiology, 1999, 120, 605-614.	4.8	131
79	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
80	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
81	Arabidopsis NPH1: A Flavoprotein with the Properties of a Photoreceptor for Phototropism. , 1998, 282, 1698-1701.		543
82	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
83	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
84	Plant responses to UV and blue light: biochemical and genetic approaches. Plant Science, 1995, 112, 117-138.	3.6	79
85	Phototropins and Other LOV-containing Proteins. , 0, , 49-78.		1