

John M Christie

List of Publications by Year in descending order

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84
papers

11,301
citations

56860

44
h-index

65711

79
g-index

94
all docs

94
docs citations

94
times ranked

8459
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphorylation of Arabidopsis UVR8 photoreceptor modulates protein interactions and responses to UV-B radiation. <i>Nature Communications</i> , 2024, 15, .	13.2	4
2	Phototropin phosphorylation of <i>ROOT PHOTOTROPISM 2</i> and its role in mediating phototropism, leaf positioning, and chloroplast accumulation movement in Arabidopsis. <i>Plant Journal</i> , 2023, 114, 390-402.	5.9	7
3	Blue light receptor phototropin 1 suppresses immunity to promote <i>Phytophthora infestans</i> infection. <i>New Phytologist</i> , 2022, 233, 2282-2293.	7.8	6
4	The fluorescent protein iLOV as a reporter for screening of high yield production of antimicrobial peptides in <i>Pichia pastoris</i> . <i>Microbial Biotechnology</i> , 2022, 15, 2126-2139.	4.3	2
5	Optogenetics in plants. <i>New Phytologist</i> , 2021, 229, 3108-3115.	7.8	32
6	Evolution of rapid blue light response linked to explosive diversification of ferns in angiosperm forests. <i>New Phytologist</i> , 2021, 230, 1201-1213.	7.8	39
7	Spatio-temporal properties of oculomotor activation by multiple, simultaneous peripheral stimuli. <i>Vision Research</i> , 2021, 188, 251-261.	1.5	0
8	Regulation of plant phototropic growth by NPH3/RPT2-like substrate phosphorylation and 14-3-3 binding. <i>Nature Communications</i> , 2021, 12, 6129.	13.2	28
9	CIPK23 regulates blue light dependent stomatal opening in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2020, 104, 679-692.	5.9	20
10	Engineering the phototropin photocycle improves photoreceptor performance and plant biomass production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12550-12557.	7.6	42
11	Deetiolation Enhances Phototropism by Modulating NON-PHOTOTROPIC HYPOCOTYL3 Phosphorylation Status. <i>Plant Physiology</i> , 2019, 180, 1119-1131.	5.1	33
12	Native mass spectrometry reveals the conformational diversity of the UVR8 photoreceptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1116-1125.	7.6	38
13	A chemical genetic approach to engineer phototropin kinases for substrate labeling. <i>Journal of Biological Chemistry</i> , 2018, 293, 5613-5623.	3.5	12
14	Arabidopsis Blue Light Receptor Phototropin 1 Undergoes Blue Light-Induced Activation in Membrane Microdomains. <i>Molecular Plant</i> , 2018, 11, 846-859.	8.4	50
15	Geomagnetic field impacts on cryptochrome and phytochrome signaling. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 185, 32-40.	3.9	39
16	Two photon spectroscopy and microscopy of the fluorescent flavoprotein, iLOV. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16949-16955.	2.9	26
17	Shining Light on the Function of NPH3/RPT2-Like Proteins in Phototropin Signaling. <i>Plant Physiology</i> , 2018, 176, 1015-1024.	5.1	59
18	SipA Activation of Caspase-3 Is a Decisive Mediator of Host Cell Survival at Early Stages of Salmonella enterica Serovar Typhimurium Infection. <i>Infection and Immunity</i> , 2017, 85, .	2.4	30

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19	Functional characterization of a constitutively active kinase variant of Arabidopsis phototropin 1. <i>Journal of Biological Chemistry</i> , 2017, 292, 13843-13852.	3.5	17
20	Phytochrome A Mediates Blue-Light Enhancement of Second-Positive Phototropism in Arabidopsis. <i>Frontiers in Plant Science</i> , 2016, 7, 290.	3.8	27
21	Functional characterization of <i>Ostreococcus tauri</i> phototropin. <i>New Phytologist</i> , 2016, 209, 612-623.	7.8	21
22	Visualizing the Translocation and Localization of Bacterial Type III Effector Proteins by Using a Genetically Encoded Reporter System. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2700-2708.	3.2	26
23	Functional characterization of Arabidopsis phototropin 1 in the hypocotyl apex. <i>Plant Journal</i> , 2016, 88, 907-920.	5.9	16
24	Dimer/monomer status and <i>in vivo</i> function of salt-bridge mutants of the plant UV-B photoreceptor UVR8. <i>Plant Journal</i> , 2016, 88, 71-81.	5.9	26
25	Lighting Up <i>Clostridium Difficile</i> : Reporting Gene Expression Using Fluorescent Lov Domains. <i>Scientific Reports</i> , 2016, 6, 23463.	3.4	54
26	Plant Flavoprotein Photoreceptors. <i>Plant and Cell Physiology</i> , 2015, 56, 401-413.	3.2	222
27	LOV-based reporters for fluorescence imaging. <i>Current Opinion in Chemical Biology</i> , 2015, 27, 39-45.	6.4	105
28	UK guidelines on the management of variceal haemorrhage in cirrhotic patients. <i>Gut</i> , 2015, 64, 1680-1704.	13.7	542
29	Reaction dynamics of the UV-B photosensor UVR8. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 995-1004.	2.9	28
30	Plant Phototropic Growth. <i>Current Biology</i> , 2015, 25, R384-R389.	4.0	146
31	Proton-Coupled Electron Transfer Constitutes the Photoactivation Mechanism of the Plant Photoreceptor UVR8. <i>Journal of the American Chemical Society</i> , 2015, 137, 8113-8120.	14.6	30
32	Photoinduced transformation of UVR8 monitored by vibrational and fluorescence spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 252-257.	2.9	20
33	Lipid anchoring of Arabidopsis phototropin 1 to assess the functional significance of receptor internalization: should I stay or should I go?. <i>New Phytologist</i> , 2015, 206, 1038-1050.	7.8	34
34	Plant Physiology Sees the Light. <i>Plant Physiology</i> , 2014, 164, 12-12.	5.1	0
35	An infectious recombinant foot-and-mouth disease virus expressing a fluorescent marker protein. <i>Journal of General Virology</i> , 2013, 94, 1517-1527.	2.9	29
36	Exploring the size limit of protein diffusion through the periplasm in cyanobacterium <i>Anabaena</i> sp. PCC 7120 using the 13 kDa iLOV fluorescent protein. <i>Research in Microbiology</i> , 2013, 164, 710-717.	2.2	18

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37	Phosphorylation of BLUS1 kinase by phototropins is a primary step in stomatal opening. Nature Communications, 2013, 4, 2094.	13.2	162
38	Shoot phototropism in higher plants: New light through old concepts. American Journal of Botany, 2013, 100, 35-46.	1.9	123
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.	8.2	83
42	LOV to BLUF: Flavoprotein Contributions to the Optogenetic Toolkit. Molecular Plant, 2012, 5, 533-544.	8.4	118
43	C-terminal region of the UV-B photoreceptor LVR8 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.	7.6	172
44	Treatment of Hyperdynamic Nasal Tip Ptosis in Open Rhinoplasty: Using the Anatomic Relationship Between the Depressor Septi Nasi Muscle and the Dermocartilaginous Ligament. Aesthetic Plastic Surgery, 2012, 36, 819-826.	1.0	12
45	Express Your LOV: An Engineered Flavoprotein as a Reporter for Protein Expression and Purification. PLoS ONE, 2012, 7, e52962.	2.5	25
46	Structural Tuning of the Fluorescent Protein iLOV for Improved Photostability. Journal of Biological Chemistry, 2012, 287, 22295-22304.	3.5	133
47	2F1558 The study of the dissociation and recovery reaction kinetics for photo-sensor protein LVR8(Photobiology:Vision & Photoreception II,Oral Presentation,The 50th Annual Meeting of the) Tj ETQq1 1 0.784314rgBT /Over	0.1	0
48	A eukaryotic LOV-histidine kinase with circadian clock function in the picoalga <i>Ostreococcus</i> . Plant Journal, 2011, 65, 578-588.	5.9	56
49	phot1 Inhibition of ABCB19 Primes Lateral Auxin Fluxes in the Shoot Apex Required For Phototropism. PLoS Biology, 2011, 9, e1001076.	5.4	227
50	Light Sensing at the Plasma Membrane. Plant Cell Monographs, 2011, , 423-436.	0.0	0
51	Subcellular localization and turnover of Arabidopsis phototropin 1. Plant Signaling and Behavior, 2010, 5, 184-186.	2.4	16
52	<i>Phycomyces</i> MADB 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.	7.6	75
53	Domain Swapping to Assess the Mechanistic Basis of Arabidopsis Phototropin 1 Receptor Kinase Activation and Endocytosis by Blue Light Å. Å. Plant Cell, 2009, 21, 3226-3244.	6.7	117
54	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.	7.6	230

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55	In Vivo Phosphorylation Site Mapping and Functional Characterization of Arabidopsis Phototropin 1. <i>Molecular Plant</i> , 2008, 1, 178-194.	8.4	91
56	Mutational Analysis of Phototropin 1 Provides Insights into the Mechanism Underlying LOV2 Signal Transmission. <i>Journal of Biological Chemistry</i> , 2007, 282, 6405-6414.	3.5	80
57	Physiological Roles of the Light, Oxygen, or Voltage Domains of Phototropin 1 and Phototropin 2 in Arabidopsis. <i>Plant Physiology</i> , 2007, 143, 517-529.	5.1	96
58	Many hands make light work. <i>Journal of Experimental Botany</i> , 2007, 58, 3071-3077.	4.9	88
59	Steric Interactions Stabilize the Signaling State of the LOV2 Domain of Phototropin 1. <i>Biochemistry</i> , 2007, 46, 9310-9319.	2.6	103
60	Phototropins and Their LOV Domains: Versatile Plant Blue-Light Receptors. <i>Journal of Integrative Plant Biology</i> , 2007, 49, 4-10.	9.2	31
61	Phototropin Blue-Light Receptors. <i>Annual Review of Plant Biology</i> , 2007, 58, 21-45.	19.0	793
62	PHOTOTROPINS. , 2006, , 223-252.		1
63	Blue Light Sensing and Signaling by the Phototropins. , 2005, , 277-303.		15
64	Phototropin from <i>Chlamydomonas reinhardtii</i> is Functional in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2005, 46, 367-374.	3.2	56
65	Disruption of the LOV ² Helix Interaction Activates Phototropin Kinase Activity. <i>Biochemistry</i> , 2004, 43, 16184-16192.	2.6	278
66	Photochemical Properties of the Flavin Mononucleotide-Binding Domains of the Phototropins from Arabidopsis, Rice, and <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2002, 129, 762-773.	5.1	297
67	Phototropins 1 and 2: versatile plant blue-light receptors. <i>Trends in Plant Science</i> , 2002, 7, 204-210.	9.1	715
68	Phototropin LOV domains exhibit distinct roles in regulating photoreceptor function. <i>Plant Journal</i> , 2002, 32, 205-219.	5.9	284
69	Phototropins: A New Family of Flavin-Binding Blue Light Receptors in Plants. <i>Antioxidants and Redox Signaling</i> , 2001, 3, 775-788.	5.5	80
70	The Phototropin Family of Photoreceptors. <i>Plant Cell</i> , 2001, 13, 993-997.	6.7	338
71	<i>Arabidopsis</i> <i>nph1</i> and <i>npl1</i> : Blue light receptors that mediate both phototropism and chloroplast relocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 6969-6974.	7.6	688
72	Blue Light Sensing in Higher Plants. <i>Journal of Biological Chemistry</i> , 2001, 276, 11457-11460.	3.5	167

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73	The Photocycle of a Flavin-binding Domain of the Blue Light Photoreceptor Phototropin. Journal of Biological Chemistry, 2001, 276, 36493-36500.	3.5	503
74	The Phototropin Family of Photoreceptors. Plant Cell, 2001, 13, 993.	6.7	19
75	Photochemical and Mutational Analysis of the FMN-Binding Domains of the Plant Blue Light Receptor, Phototropin. Biochemistry, 2000, 39, 9401-9410.	2.6	566
76	Arabidopsis Contains at Least Four Independent Blue-Light-Activated Signal Transduction Pathways1. Plant Physiology, 1999, 120, 605-614.	5.1	131
77	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.	7.6	557
78	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.	4.0	155
79	Arabidopsis NPH1: A Flavoprotein with the Properties of a Photoreceptor for Phototropism. , 1998, 282, 1698-1701.		547
80	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.	6.7	247
81	Distinct UV-B and UV-A/Blue Light Signal Transduction Pathways Induce Chalcone Synthase Gene Expression in Arabidopsis Cells. Plant Cell, 1996, 8, 1555.	6.7	49
82	Plant responses to UV and blue light: biochemical and genetic approaches. Plant Science, 1995, 112, 117-138.	3.8	79
83	Phototropins and Other LOV-containing Proteins. , 0, , 49-78.		1
84	Phototropins and Other LOV-Containing Proteins. , 0, , 49-78.		0