Emmanuel Liscum

List of Publications by Year
in descending order

51 papers	5,366 citations	159585 30 h-index	233421 45 g-index
53 all docs	53 docs citations	53 times ranked	3878 citing authors

#	Article	IF	Citations
1	Arabidopsis NPH1: A Protein Kinase with a Putative Redox-Sensing Domain. Science, 1997, 278, 2120-2123.	12.6	700
2	Arabidopsis NPH1: A Flavoprotein with the Properties of a Photoreceptor for Phototropism. , 1998, 282, 1698-1701.		543
3	Mutations in the NPH1 locus of Arabidopsis disrupt the perception of phototropic stimuli.. Plant Cell, 1995, 7, 473-485.	6.6	430
4	MASSUGU2 Encodes Aux/IAA19, an Auxin-Regulated Protein That Functions Together with the Transcriptional Activator NPH4/ARF7 to Regulate Differential Growth Responses of Hypocotyl and Formation of Lateral Roots in Arabidopsis thaliana. Plant Cell, 2004, 16, 379-393.	6.6	411
5	The NPH4 Locus Encodes the Auxin Response Factor ARF7, a Conditional Regulator of Differential Growth in Aerial Arabidopsis Tissue. Plant Cell, 2000, 12, 757-770.	6.6	385
6	Arabidopsis NPH3: A NPH1 Photoreceptor-Interacting Protein Essential for Phototropism. Science, 1999, 286, 961-964.	12.6	302
7	Development and mapping of SSR markers for maize. Plant Molecular Biology, 2002, 48, 463-481.	3.9	274
8	A gradient of auxin and auxin-dependent transcription precedes tropic growth responses. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 236-241.	7.1	210
9	PHYTOCHROME KINASE SUBSTRATE 1 is a phototropin 1 binding protein required for phototropism. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10134-10139.	7.1	176
10	NPH4, a Conditional Modulator of Auxin-Dependent Differential Growth Responses in Arabidopsis. Plant Physiology, 1998, 118, 1265-1275.	4.8	146
11	Phototropism: Growing towards an Understanding of Plant Movement. Plant Cell, 2014, 26, 38-55.	6.6	142
12	Regulation of Phototropic Signaling in Arabidopsis via Phosphorylation State Changes in the Phototropin 1-interacting Protein NPH3. Journal of Biological Chemistry, 2007, 282, 19992-20001.	3.4	138
13	Arabidopsis Contains at Least Four Independent Blue-Light-Activated Signal Transduction Pathways1. Plant Physiology, 1999, 120, 605-614.	4.8	131
14	Modulation of Phototropic Responsiveness in Arabidopsis through Ubiquitination of Phototropin 1 by the CUL3-Ring E3 Ubiquitin Ligase CRL3NPH3 Â. Plant Cell, 2011, 23, 3627-3640.	6.6	131
15	Plant tropisms: providing the power of movement to a sessile organism. International Journal of Developmental Biology, 2005, 49, 665-674.	0.6	113
16	A Mutant Arabidopsis Heterotrimeric G-Protein beta Subunit Affects Leaf, Flower, and Fruit Development. Plant Cell, 2001, 13, 2631-2641.	6.6	112
17	Functional ecology of a blue light photoreceptor: effects of phototropinâ€1 on root growth enhance drought tolerance in Arabidopsis thaliana. New Phytologist, 2007, 173, 91-99.	7.3	93
18	The Enhancement of Phototropin-Induced Phototropic Curvature in Arabidopsis Occurs via a Photoreversible Phytochrome A-Dependent Modulation of Auxin Responsiveness. Plant Physiology, 2001, 126, 826-834.	4.8	81

#	Article	IF	Citations
19	Understanding phototropism: from Darwin to today. Journal of Experimental Botany, 2009, 60, 1969-1978.	4.8	79
20	Blue Light Signaling through the Cryptochromes and Phototropins. So That's What the Blues Is All About. Plant Physiology, 2003, 133, 1429-1436.	4.8	75
21	Spectral-dependence of light-inhibited hypocotyl elongation in photomorphogenic mutants ofArabidopsis: evidence for a UV-A photosensor. Planta, 1992, 188, 106-114.	3.2	69
22	AN EXPERIMENTAL TEST OF THE ADAPTIVE EVOLUTION OF PHOTOTROPINS: BLUE-LIGHT PHOTORECEPTORS CONTROLLING PHOTOTROPISM IN ARABIDOPSIS THALIANA. Evolution; International Journal of Organic Evolution, 2004, 58, 515-523.	2.3	59
23	Access to the Maize Genome: An Integrated Physical and Genetic Map. Plant Physiology, 2002, 128, 9-12.	4.8	57
24	Disruptions in AUX1-Dependent Auxin Influx Alter Hypocotyl Phototropism in Arabidopsis. Molecular Plant, 2008, 1, 129-144.	8.3	53
25	Phototropism: A â€œSimpleâ€•Physiological Response Modulated by Multiple Interacting Photosensory-response PathwaysÂ¶. Photochemistry and Photobiology, 2000, 72, 273.	2.5	48
26	Light-Sensing in Roots. Plant Signaling and Behavior, 2007, 2, 106-108.	2.4	45
27	Phototropism: Mechanism and Outcomes. The Arabidopsis Book, 2010, 8, e0125.	0.5	43
28	Phytochrome B Is Required for Systemic Stomatal Responses and Reactive Oxygen Species Signaling during Light Stress. Plant Physiology, 2020, 184, 1563-1572.	4.8	39
29	Phototropins and Associated Signaling: Providing the Power of Movement in Higher PlantsÂ¶. Photochemistry and Photobiology, 2005, 81, 73.	2.5	37
30	Photomorphogenic mutants of Arabidopsis thaliana reveal activities of multiple photosensory systems during light-stimulated apical-hook opening. Planta, 1993, 191, 214.	3.2	36
31	TWISTED DWARF 1 Associates with BRASSINOSTEROID-INSENSITIVE 1 to Regulate Early Events of the Brassinosteroid Signaling Pathway. Molecular Plant, 2016, 9, 582-592.	8.3	36
32	Manipulation of Ploidy Level in Cultured Haploid Petunia Tissue by Phytohormone Treatments. Journal of Plant Physiology, 1991, 138, 33-38.	3.5	26
33	Spectral-dependence of light-inhibited hypocotyl elongation in photomorphogenic mutants of Arabidopsis: evidence for a UV-A photosensor. Planta, 1992, 188, 106-14.	3.2	20
34	Arabidopsis Mutants Lacking Blue Light-Dependent Inhibition of Hypocotyl Elongation. Plant Cell, 1991, 3, 685.	6.6	18
35	Phototropins and associated signaling: Providing the power of movement in higher plants. Photochemistry and Photobiology, 2004, 81, 73-80.	2.5	17
36	The continuing arc toward phototropic enlightenment. Journal of Experimental Botany, 2020, 71, 1652-1658.	4.8	16

#	Article	IF	Citations
37	An experimental test of the adaptive evolution of phototropins: blue-light photoreceptors controlling phototropism in Arabidopsis thaliana. Evolution; International Journal of Organic Evolution, 2004, 58, 515-23.	2.3	12
38	Phototropins, Other Photoreceptors, and Associated Signaling: The Lead and Supporting Cast in the Control of Plant Movement Responses. Current Topics in Developmental Biology, 2005, 66, 215-238.	2.2	10
39	Blue Light-Induced Intracellular Movement of Phototropins: Functional Relevance or Red Herring?. Frontiers in Plant Science, 2016, 7, 827.	3.6	10
40	You can't keep a bad idea down: Dark history, death, and potential rebirth of eugenics. Anatomical Record, 2022, 305, 902-937.	1.4	8
41	Phototropism in land plants: Molecules and mechanism from light perception to response. Frontiers in Biology, 2018, 13, 342-357.	0.7	7
42	A Mutant Arabidopsis Heterotrimeric G-Protein b Subunit Affects Leaf, Flower, and Fruit Development. Plant Cell, 2001, 13, 2631.	6.6	6
43	Amplified fragment length polymorphism. , 1999, , 505-519.		4
44	AN EXPERIMENTAL TEST OF THE ADAPTIVE EVOLUTION OF PHOTOTROPINS: BLUE-LIGHT PHOTORECEPTORS CONTROLLING PHOTOTROPISM IN ARABIDOPSIS THALIANA. Evolution; International Journal of Organic Evolution, 2004, 58, 515.	2.3	3
45	Phototropins and Associated Signaling: Providing the Power of Movement in Higher Plants^{Â¶}. Photochemistry and Photobiology, 2005, 81, 73-80.	2.5	3
46	Phototropism: A â€œSimpleâ€•Physiological Response Modulated by Multiple Interacting Photosensory-response Pathways Â¶. Photochemistry and Photobiology, 2007, 72, 273-282.	2.5	3
47	Photoreceptors and Associated Signaling III: Phototropins. , 2004, , 889-892.		1
48	Plant Photobiology 2001: A Thousand Points of Enlightenment from Receptor Structures to Ecological Adaptation. Plant Cell, 2001, 13, 1704.	6.6	0
49	The Longest Winter: The Battle of the Bulge and the Epic Story of World War II's Most Decorated Platoon (review). The Journal of Military History, 2005, 69, 596-597.	0.0	0
50	A Method for Investigating the Pseudomonas syringae-Arabidopsis thaliana Pathosystem Under Various Light Environments. Methods in Molecular Biology, 2019, 1991, 107-113.	0.9	0
51	Photomorphogenic Systems. , 1996, , 159-167.		0