Karen J Halliday

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Molecular and genetic control of plant thermomorphogenesis. Nature Plants, 2016, 2, 15190.	4.7	432
2	The clock gene circuit in <i>Arabidopsis</i> includes a repressilator with additional feedback loops. Molecular Systems Biology, 2012, 8, 574.	3.2	386
3	The HY5-PIF Regulatory Module Coordinates Light and Temperature Control of Photosynthetic Gene Transcription. PLoS Genetics, 2014, 10, e1004416.	1.5	339
4	Phytochrome control of flowering is temperature sensitive and correlates with expression of the floral integratorFT. Plant Journal, 2003, 33, 875-885.	2.8	274
5	Strengths and Limitations of Period Estimation Methods for Circadian Data. PLoS ONE, 2014, 9, e96462.	1.1	268
6	Phytochromes B, D, and E Act Redundantly to Control Multiple Physiological Responses in Arabidopsis. Plant Physiology, 2003, 131, 1340-1346.	2.3	253
7	Phytochrome coordinates Arabidopsis shoot and root development. Plant Journal, 2007, 50, 429-438.	2.8	180
8	Integration of Light and Auxin Signaling. Cold Spring Harbor Perspectives in Biology, 2009, 1, a001586-a001586.	2.3	149
9	Changes in Photoperiod or Temperature Alter the Functional Relationships between Phytochromes and Reveal Roles for phyD and phyE. Plant Physiology, 2003, 131, 1913-1920.	2.3	122
10	Light receptor action is critical for maintaining plant biomass at warm ambient temperatures. Plant Journal, 2011, 65, 441-452.	2.8	122
11	The rosette habit of Arabidopsis thaliana is dependent upon phytochrome action: novel phytochromes control internode elongation and flowering time. Plant Journal, 1996, 10, 1127-1134.	2.8	115
12	Photoreceptor effects on plant biomass, resource allocation, and metabolic state. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7667-7672.	3.3	115
13	Prediction of Photoperiodic Regulators from Quantitative Gene Circuit Models. Cell, 2009, 139, 1170-1179.	13.5	111
14	Phytochromeâ€hormonal signalling networks. New Phytologist, 2003, 157, 449-463.	3.5	108
15	Interaction of light and temperature signalling. Journal of Experimental Botany, 2014, 65, 2859-2871.	2.4	102
16	Mutations in the huge Arabidopsis gene BIG affect a range of hormone and light responses. Plant Journal, 2003, 35, 57-70.	2.8	97
17	Circadian Waves of Transcriptional Repression Shape PIF-Regulated Photoperiod-Responsive Growth in Arabidopsis. Current Biology, 2018, 28, 311-318.e5.	1.8	93
18	Multiscale digital <i>Arabidopsis</i> predicts individual organ and whole-organism growth. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4127-36.	3.3	88

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19	Linked circadian outputs control elongation growth and flowering in response to photoperiod and temperature. Molecular Systems Biology, 2015, 11, 776.	3.2	87
20	Network balance <i>via</i> CRY signalling controls the <i>Arabidopsis</i> circadian clock over ambient temperatures. Molecular Systems Biology, 2013, 9, 650.	3.2	78
21	A stress-free walk from Arabidopsis to crops. Current Opinion in Biotechnology, 2011, 22, 281-286.	3.3	71
22	Expression of heterologous phytochromes A, B or C in transgenic tobacco plants alters vegetative development and flowering time. Plant Journal, 1997, 12, 1079-1090.	2.8	67
23	Plant Hormones: The Interplay of Brassinosteroids and Auxin. Current Biology, 2004, 14, R1008-R1010.	1.8	66
24	Arabidopsis cell expansion is controlled by a photothermal switch. Nature Communications, 2014, 5, 4848.	5.8	63
25	A photometric stereo-based 3D imaging system using computer vision and deep learning for tracking plant growth. GigaScience, 2019, 8, .	3.3	62
26	An augmented Arabidopsis phenology model reveals seasonal temperature control of flowering time. New Phytologist, 2012, 194, 654-665.	3.5	57
27	SPATULA Links Daytime Temperature and Plant Growth Rate. Current Biology, 2010, 20, 1493-1497.	1.8	47
28	Phytochrome, Carbon Sensing, Metabolism, and Plant Growth Plasticity. Plant Physiology, 2018, 176, 1039-1048.	2.3	46
29	Defining the robust behaviour of the plant clock gene circuit with absolute RNA timeseries and open infrastructure. Open Biology, 2015, 5, 150042.	1.5	42
30	Mathematical Models Light Up Plant Signaling. Plant Cell, 2014, 26, 5-20.	3.1	41
31	Timeâ€resolved interaction proteomics of the <scp>GIGANTEA</scp> protein under diurnal cycles in <i>Arabidopsis</i>. FEBS Letters, 2019, 593, 319-338.	1.3	35
32	Paths through the phytochrome network. Plant, Cell and Environment, 2008, 31, 667-678.	2.8	34
33	Dawn and photoperiod sensing by phytochrome A. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10523-10528.	3.3	34
34	SRL1: a new locus specific to the phyB-signaling pathway in Arabidopsis. Plant Journal, 2000, 23, 461-470.	2.8	24
35	Phytochrome regulates cellular response plasticity and the basic molecular machinery of leaf development. Plant Physiology, 2021, 186, 1220-1239.	2.3	19
36	Overexpression of rice phytochrome A partially complements phytochrome B deficiency in Arabidopsis. Planta, 1999, 207, 401-409.	1.6	14

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37	Red:Far-Red Ratio Perception and Shade Avoidance. , 0, , 211-234.		11
38	Photomorphogenesis: Phytochrome takes a partner!. Current Biology, 1999, 9, R225-R227.	1.8	9
39	PIF7 controls leaf cell proliferation through an AN3 substitution repression mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	8
40	Phytochromes control metabolic flux, and their action at the seedling stage determines adult plant biomass. Journal of Experimental Botany, 2021, 72, 3263-3278.	2.4	6
41	Fruit Development: New Directions for an Old Pathway. Current Biology, 2010, 20, R1081-R1083.	1.8	2
42	Photoreceptor Biotechnology. , 0, , 267-289.		1
43	Photocontrol of Flowering. , 0, , 185-210.		1
44	Photoreceptor Interactions with Other Signals. , 0, , 235-264.		0
45	Functions and Actions of Arabidopsis Phytochromes. , 2001, , 9-17.		0
46	Photoreceptors and Associated Signaling I: Phytochromes. , 2004, , 881-884.		0