

# Karen J Halliday

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

4,293  
citations

147801

31  
h-index

289244

40  
g-index

55  
all docs

55  
docs citations

55  
times ranked

4917  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular and genetic control of plant thermomorphogenesis. <i>Nature Plants</i> , 2016, 2, 15190.	9.3	432
2	The clock gene circuit in <i>Arabidopsis</i> includes a repressilator with additional feedback loops. <i>Molecular Systems Biology</i> , 2012, 8, 574.	7.2	386
3	The HY5-PIF Regulatory Module Coordinates Light and Temperature Control of Photosynthetic Gene Transcription. <i>PLoS Genetics</i> , 2014, 10, e1004416.	3.5	339
4	Phytochrome control of flowering is temperature sensitive and correlates with expression of the floral integrator FT. <i>Plant Journal</i> , 2003, 33, 875-885.	5.7	274
5	Strengths and Limitations of Period Estimation Methods for Circadian Data. <i>PLoS ONE</i> , 2014, 9, e96462.	2.5	268
6	Phytochromes B, D, and E Act Redundantly to Control Multiple Physiological Responses in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2003, 131, 1340-1346.	4.8	253
7	Phytochrome coordinates <i>Arabidopsis</i> shoot and root development. <i>Plant Journal</i> , 2007, 50, 429-438.	5.7	180
8	Integration of Light and Auxin Signaling. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a001586-a001586.	5.5	149
9	Changes in Photoperiod or Temperature Alter the Functional Relationships between Phytochromes and Reveal Roles for phyD and phyE. <i>Plant Physiology</i> , 2003, 131, 1913-1920.	4.8	122
10	Light receptor action is critical for maintaining plant biomass at warm ambient temperatures. <i>Plant Journal</i> , 2011, 65, 441-452.	5.7	122
11	The rosette habit of <i>Arabidopsis thaliana</i> is dependent upon phytochrome action: novel phytochromes control internode elongation and flowering time. <i>Plant Journal</i> , 1996, 10, 1127-1134.	5.7	115
12	Photoreceptor effects on plant biomass, resource allocation, and metabolic state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7667-7672.	7.1	115
13	Prediction of Photoperiodic Regulators from Quantitative Gene Circuit Models. <i>Cell</i> , 2009, 139, 1170-1179.	28.9	111
14	Phytochrome-hormonal signalling networks. <i>New Phytologist</i> , 2003, 157, 449-463.	7.3	108
15	Interaction of light and temperature signalling. <i>Journal of Experimental Botany</i> , 2014, 65, 2859-2871.	4.8	102
16	Mutations in the huge <i>Arabidopsis</i> gene BIG affect a range of hormone and light responses. <i>Plant Journal</i> , 2003, 35, 57-70.	5.7	97
17	Circadian Waves of Transcriptional Repression Shape PIF-Regulated Photoperiod-Responsive Growth in <i>Arabidopsis</i> . <i>Current Biology</i> , 2018, 28, 311-318.e5.	3.9	93
18	Multiscale digital <i>Arabidopsis</i> predicts individual organ and whole-organism growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4127-36.	7.1	88

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19	Linked circadian outputs control elongation growth and flowering in response to photoperiod and temperature. <i>Molecular Systems Biology</i> , 2015, 11, 776.	7.2	87
20	Network balance <i>via</i> CRY signalling controls the <i>Arabidopsis</i> circadian clock over ambient temperatures. <i>Molecular Systems Biology</i> , 2013, 9, 650.	7.2	78
21	A stress-free walk from <i>Arabidopsis</i> to crops. <i>Current Opinion in Biotechnology</i> , 2011, 22, 281-286.	6.6	71
22	Expression of heterologous phytochromes A, B or C in transgenic tobacco plants alters vegetative development and flowering time. <i>Plant Journal</i> , 1997, 12, 1079-1090.	5.7	67
23	Plant Hormones: The Interplay of Brassinosteroids and Auxin. <i>Current Biology</i> , 2004, 14, R1008-R1010.	3.9	66
24	<i>Arabidopsis</i> cell expansion is controlled by a photothermal switch. <i>Nature Communications</i> , 2014, 5, 4848.	12.8	63
25	A photometric stereo-based 3D imaging system using computer vision and deep learning for tracking plant growth. <i>GigaScience</i> , 2019, 8, .	6.4	62
26	An augmented <i>Arabidopsis</i> phenology model reveals seasonal temperature control of flowering time. <i>New Phytologist</i> , 2012, 194, 654-665.	7.3	57
27	SPATULA Links Daytime Temperature and Plant Growth Rate. <i>Current Biology</i> , 2010, 20, 1493-1497.	3.9	47
28	Phytochrome, Carbon Sensing, Metabolism, and Plant Growth Plasticity. <i>Plant Physiology</i> , 2018, 176, 1039-1048.	4.8	46
29	Defining the robust behaviour of the plant clock gene circuit with absolute RNA timeseries and open infrastructure. <i>Open Biology</i> , 2015, 5, 150042.	3.6	42
30	Mathematical Models Light Up Plant Signaling. <i>Plant Cell</i> , 2014, 26, 5-20.	6.6	41
31	Time-resolved interaction proteomics of the <i>GIGANTEA</i> protein under diurnal cycles in <i>Arabidopsis</i> . <i>FEBS Letters</i> , 2019, 593, 319-338.	2.8	35
32	Paths through the phytochrome network. <i>Plant, Cell and Environment</i> , 2008, 31, 667-678.	5.7	34
33	Dawn and photoperiod sensing by phytochrome A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10523-10528.	7.1	34
34	SRL1: a new locus specific to the phyB-signaling pathway in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2000, 23, 461-470.	5.7	24
35	Phytochrome regulates cellular response plasticity and the basic molecular machinery of leaf development. <i>Plant Physiology</i> , 2021, 186, 1220-1239.	4.8	19
36	Overexpression of rice phytochrome A partially complements phytochrome B deficiency in <i>Arabidopsis</i> . <i>Planta</i> , 1999, 207, 401-409.	3.2	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.	3.9	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, .	7.1	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.	4.8	6
41	Fruit Development: New Directions for an Old Pathway. Current Biology, 2010, 20, R1081-R1083.	3.9	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