Gareth I Jenkins

List of Publications by Year
in descending order

60	7,879	71102	144013
papers	citations	41 h-index	57 g-index

64	64	64	5244
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Perception of UV-B by the Arabidopsis UVR8 Protein. Science, 2011, 332, 103-106.	12.6	943
2	Signal Transduction in Responses to UV-B Radiation. Annual Review of Plant Biology, 2009, 60, 407-431.	18.7	592
3	Interaction of COP1 and UVR8 regulates UV-B-induced photomorphogenesis and stress acclimation in Arabidopsis. EMBO Journal, 2009, 28, 591-601.	7.8	559
4	A UV-B-specific signaling component orchestrates plant UV protection. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18225-18230.	7.1	495
5	Occurrence of Flavonols in Tomatoes and Tomato-Based Products. Journal of Agricultural and Food Chemistry, 2000, 48, 2663-2669.	5.2	404
6	Plant UVR8 Photoreceptor Senses UV-B by Tryptophan-Mediated Disruption of Cross-Dimer Salt Bridges. Science, 2012, 335, 1492-1496.	12.6	397
7	UV-B Signaling Pathways with Different Fluence-Rate Response Profiles Are Distinguished in Mature Arabidopsis Leaf Tissue by Requirement for UVR8, HY5, and HYH. Plant Physiology, 2008, 146, 323-324.	4.8	296
8	The UV-B Photoreceptor UVR8: From Structure to Physiology. Plant Cell, 2014, 26, 21-37.	6.6	258
9	UV-B Promotes Rapid Nuclear Translocation of the Arabidopsis UV-Bâ€“Specific Signaling Component UVR8 and Activates Its Function in the Nucleus. Plant Cell, 2007, 19, 2662-2673.	6.6	229
10	Photomorphogenic responses to ultravioletâ€B light. Plant, Cell and Environment, 2017, 40, 2544-2557.	5.7	183
11	Signal perception, transduction, and gene expression involved in anthocyanin biosynthesis. Critical Reviews in Plant Sciences, 1996, 15, 525-557.	5.7	179
12	Interactions within a network of phytochrome, cryptochrome and UV-B phototransduction pathways regulate chalcone synthase gene expression in Arabidopsis leaf tissue. Plant Journal, 2001, 25, 675-685.	5.7	175
13	Multiple Roles for UV RESISTANCE LOCUS8 in Regulating Gene Expression and Metabolite Accumulation in Arabidopsis under Solar Ultraviolet Radiation Â Â. Plant Physiology, 2013, 161, 744-759.	4.8	170
14	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
15	UV-B detected by the UVR8 photoreceptor antagonizes auxin signaling and plant shade avoidance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11894-11899.	7.1	165
16	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
17	UV and blue light signalling: pathways regulating chalcone synthase gene expression inArabidopsis. New Phytologist, 2001, 151, 121-131.	7.3	148
18	UV-B Perceived by the UVR8 Photoreceptor Inhibits Plant Thermomorphogenesis. Current Biology, 2017, 27, 120-127.	3.9	142

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19	UVR8 in Arabidopsis thaliana regulates multiple aspects of cellular differentiation during leaf development in response to ultraviolet B radiation. New Phytologist, 2009, 183, 315-326.	7.3	138
20	Metabolite Control Overrides Circadian Regulation of Phosphoenolpyruvate Carboxylase Kinase and CO2 Fixation in Crassulacean Acid Metabolism. Plant Physiology, 1999, 121, 889-896.	4.8	136
21	Interaction of the Arabidopsis UV-B-Specific Signaling Component UVR8 with Chromatin. Molecular Plant, 2008, 1, 118-128.	8.3	120
22	Higher plant phosphoenolpyruvate carboxylase kinase is regulated at the level of translatable mRNA in response to light or a circadian rhythm. Plant Journal, 1996, 10, 1071-1078.	5.7	117
23	Ultraviolet-B-Induced Stomatal Closure in Arabidopsis Is Regulated by the UV RESISTANCE LOCUS8 Photoreceptor in a Nitric Oxide-Dependent Mechanism Â Â. Plant Physiology, 2014, 164, 2220-2230.	4.8	108
24	Involvement of Plasma Membrane Redox Activity and Calcium Homeostasis in the UV-B and UV-A/Blue Light Induction of Gene Expression in Arabidopsis. Plant Cell, 1998, 10, 2077-2086.	6.6	103
25	The Arabidopsis RCC1 Family Protein TCF1 Regulates Freezing Tolerance and Cold Acclimation through Modulating Lignin Biosynthesis. PLoS Genetics, 2015, 11, e1005471.	3.5	92
26	Extension-growth responses and expression of flavonoid biosynthesis genes in the Arabidopsis hy4 mutant. Planta, 1995, 197, 233-9.	3.2	80
27	In Vivo Function of Tryptophans in the Arabidopsis UV-B Photoreceptor UVR8. Plant Cell, 2012, 24, 3755-3766.	6.6	77
28	Regulation of UVR8 photoreceptor dimer/monomer photoâ€equilibrium in Arabidopsis plants grown under photoperiodic conditions. Plant, Cell and Environment, 2016, 39, 1706-1714.	5.7	71
29	A perspective on ecologically relevant plant-UV research and its practical application. Photochemical and Photobiological Sciences, 2019, 18, 970-988.	2.9	69
30	UVâ€B Action Spectrum for UVR8â€Mediated HY5 Transcript Accumulation in Arabidopsis. Photochemistry and Photobiology, 2009, 85, 1147-1155.	2.5	65
31	Rapid Reversion from Monomer to Dimer Regenerates the Ultraviolet-B Photoreceptor UV RESISTANCE LOCUS8 in Intact Arabidopsis Plants Â Â. Plant Physiology, 2012, 161, 547-555.	4.8	65
32	Arabidopsis ICX1 Is a Negative Regulator of Several Pathways Regulating Flavonoid Biosynthesis Genes. Plant Physiology, 2003, 131, 707-715.	4.8	64
33	Structure and function of the UV-B photoreceptor UVR8. Current Opinion in Structural Biology, 2014, 29, 52-57.	5.7	61
34	Q&A: How do plants sense and respond to UV-B radiation?. BMC Biology, 2015, 13, 45.	3.8	61
35	UVR8 disrupts stabilisation of PIF5 by COP1 to inhibit plant stem elongation in sunlight. Nature Communications, 2019, 10, 4417.	12.8	61
36	The UV-B photoreceptor UVR8 promotes photosynthetic efficiency in Arabidopsis thaliana exposed to elevated levels of UV-B. Photosynthesis Research, 2012, 114, 121-131.	2.9	59

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37	Transcripts of a gene encoding a putative cell wall-plasma membrane linker protein are specifically cold-induced in Brassica napus. Plant Molecular Biology, 1996, 31, 771-781.	3.9	55
38	The photoreceptor UVR8 mediates the perception of both UVâ€B and UVâ€A wavelengths up to 350â€‰nm of sunlight with responsivity moderated by cryptochromes. Plant, Cell and Environment, 2020, 43, 1513-1527.	5.7	52
39	Evolutionary conservation of structure and function of the <scp>UVR</scp>8 photoreceptor from the liverwort Marchantia polymorpha and the moss Physcomitrella patens. New Phytologist, 2018, 217, 151-162.	7.3	51
40	PEP carboxylase kinase is a novel protein kinase controlled at the level of expression. New Phytologist, 2001, 151, 91-97.	7.3	48
41	The promoter of a Brassica napus lipid transfer protein gene is active in a range of tissues and stimulated by light and viral infection in transgenic Arabidopsis. Plant Molecular Biology, 1999, 41, 75-87.	3.9	41
42	A sucrose repression element in the Phaseolus vulgaris rbcS2 gene promoter resembles elements responsible for sugar stimulation of plant and mammalian genes. , 1997, 35, 929-942.		35
43	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
44	UV-B Perception and Signal Transduction. , 0, , 155-182.		34
45	Regulation of Arabidopsis gene expression by low fluence rate UV-B independently of UVR8 and stress signaling. Photochemical and Photobiological Sciences, 2019, 18, 1675-1684.	2.9	33
46	Probing the circadian control of phosphoenolpyruvate carboxylase kinase expression in KalanchoÃ« fedtschenkoi. Functional Plant Biology, 2002, 29, 663.	2.1	33
47	Transcripts of maize RbcS genes accumulate differentially in C3 and C4 tissues. Plant Molecular Biology, 1998, 36, 593-599.	3.9	28
48	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
49	Regulation of transcription by the Arabidopsis UVR8 photoreceptor involves a specific histone modification. Plant Molecular Biology, 2016, 92, 425-443.	3.9	26
50	The RCC 1 family protein SAB 1 negatively regulates ABI 5 through multidimensional mechanisms during postgermination in Arabidopsis. New Phytologist, 2019, 222, 907-922.	7.3	26
51	A dynamic model of UVR8 photoreceptor signalling in UVâ€Bâ€acclimated Arabidopsis. New Phytologist, 2020, 227, 857-866.	7.3	26
52	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
53	Difference in the action spectra for UVR8 monomerisation and HY5 transcript accumulation in Arabidopsis. Photochemical and Photobiological Sciences, 2018, 17, 1108-1117.	2.9	23
54	Photoinduced transformation of UVR8 monitored by vibrational and fluorescence spectroscopy. Photochemical and Photobiological Sciences, 2015, 14, 252-257.	2.9	19

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55	Effect of CWG methylation on expression of plant genes. Biochemical Journal, 1999, 341, 473-476.	3.7	13
56	Ontogenetic regulation and photoregulation of members of the Phaseolus vulgaris L. rbcS gene family. Planta, 1996, 198, 31-8.	3.2	9
57	A FRET method for investigating dimer/monomer status and conformation of the UVR8 photoreceptor. Photochemical and Photobiological Sciences, 2019, 18, 367-374.	2.9	8
58	Cauliflower mosaic virus infection stimulates lipid transfer protein gene expression in Arabidopsis. Journal of Experimental Botany, 1999, 50, 1727-1733.	4.8	7
59	Two phytochrome-mediated effects of light on transcription of genes encoding the small subunit of ribulose-1,5-bisphosphate carboxylase-oxygenase in dark-grown pea (Pisum sativum) plants. FEBS Letters, 1987, 224, 287-290.	2.8	5
60	Cysteines have a role in conformation of the <scp>UVR8</scp> photoreceptor. Plant Journal, 0, , .	5.7	1