

Gareth I Jenkins

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

7,879
citations

71102

41
h-index

144013

57
g-index

64
all docs

64
docs citations

64
times ranked

5244
citing authors

#	ARTICLE	IF	CITATIONS
1	The photoreceptor UVR8 mediates the perception of both UV-B and UV-A wavelengths up to 350nm of sunlight with responsivity moderated by cryptochromes. <i>Plant, Cell and Environment</i> , 2020, 43, 1513-1527.	5.7	52
2	A dynamic model of UVR8 photoreceptor signalling in UV-B acclimated <i>Arabidopsis</i> . <i>New Phytologist</i> , 2020, 227, 857-866.	7.3	26
3	UVR8 disrupts stabilisation of PIF5 by COP1 to inhibit plant stem elongation in sunlight. <i>Nature Communications</i> , 2019, 10, 4417.	12.8	61
4	A FRET method for investigating dimer/monomer status and conformation of the UVR8 photoreceptor. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 367-374.	2.9	8
5	A perspective on ecologically relevant plant-UV research and its practical application. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 970-988.	2.9	69
6	Regulation of <i>Arabidopsis</i> gene expression by low fluence rate UV-B independently of UVR8 and stress signaling. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1675-1684.	2.9	33
7	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.	7.1	35
8	The RCC 1 family protein SAB 1 negatively regulates ABI 5 through multidimensional mechanisms during postgermination in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2019, 222, 907-922.	7.3	26
9	Evolutionary conservation of structure and function of the UVR8 photoreceptor from the liverwort <i>Marchantia polymorpha</i> and the moss <i>Physcomitrella patens</i> . <i>New Phytologist</i> , 2018, 217, 151-162.	7.3	51
10	Difference in the action spectra for UVR8 monomerisation and HY5 transcript accumulation in <i>Arabidopsis</i> . <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1108-1117.	2.9	23
11	Photomorphogenic responses to ultraviolet-B light. <i>Plant, Cell and Environment</i> , 2017, 40, 2544-2557.	5.7	183
12	UV-B Perceived by the UVR8 Photoreceptor Inhibits Plant Thermomorphogenesis. <i>Current Biology</i> , 2017, 27, 120-127.	3.9	142
13	Regulation of UVR8 photoreceptor dimer/monomer photoequilibrium in <i>Arabidopsis</i> plants grown under photoperiodic conditions. <i>Plant, Cell and Environment</i> , 2016, 39, 1706-1714.	5.7	71
14	Regulation of transcription by the <i>Arabidopsis</i> UVR8 photoreceptor involves a specific histone modification. <i>Plant Molecular Biology</i> , 2016, 92, 425-443.	3.9	26
15	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.	5.7	25
16	The <i>Arabidopsis</i> RCC1 Family Protein TCF1 Regulates Freezing Tolerance and Cold Acclimation through Modulating Lignin Biosynthesis. <i>PLoS Genetics</i> , 2015, 11, e1005471.	3.5	92
17	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.	13.7	28
18	Photoinduced transformation of UVR8 monitored by vibrational and fluorescence spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 252-257.	2.9	19

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19	Q&A: How do plants sense and respond to UV-B radiation?. BMC Biology, 2015, 13, 45.	3.8	61
20	Structure and function of the UV-B photoreceptor UVR8. Current Opinion in Structural Biology, 2014, 29, 52-57.	5.7	61
21	The UV-B Photoreceptor UVR8: From Structure to Physiology. Plant Cell, 2014, 26, 21-37.	6.6	258
22	Ultraviolet-B-Induced Stomatal Closure in Arabidopsis Is Regulated by the UV RESISTANCE LOCUS8 Photoreceptor in a Nitric Oxide-Dependent Mechanism. Plant Physiology, 2014, 164, 2220-2230.	4.8	108
23	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
24	Multiple Roles for UV RESISTANCE LOCUS8 in Regulating Gene Expression and Metabolite Accumulation in Arabidopsis under Solar Ultraviolet Radiation. Plant Physiology, 2013, 161, 744-759.	4.8	170
25	Rapid Reversion from Monomer to Dimer Regenerates the Ultraviolet-B Photoreceptor UV RESISTANCE LOCUS8 in Intact Arabidopsis Plants. Plant Physiology, 2012, 161, 547-555.	4.8	65
26	In Vivo Function of Tryptophans in the Arabidopsis UV-B Photoreceptor UVR8. Plant Cell, 2012, 24, 3755-3766.	6.6	77
27	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
28	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
29	Plant UVR8 Photoreceptor Senses UV-B by Tryptophan-Mediated Disruption of Cross-Dimer Salt Bridges. Science, 2012, 335, 1492-1496.	12.6	397
30	Perception of UV-B by the Arabidopsis UVR8 Protein. Science, 2011, 332, 103-106.	12.6	943
31	Interaction of COP1 and UVR8 regulates UV-B-induced photomorphogenesis and stress acclimation in Arabidopsis. EMBO Journal, 2009, 28, 591-601.	7.8	559
32	UV-B Action Spectrum for UVR8-Mediated HY5 Transcript Accumulation in Arabidopsis. Photochemistry and Photobiology, 2009, 85, 1147-1155.	2.5	65
33	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
34	Signal Transduction in Responses to UV-B Radiation. Annual Review of Plant Biology, 2009, 60, 407-431.	18.7	592
35	Interaction of the Arabidopsis UV-B-Specific Signaling Component UVR8 with Chromatin. Molecular Plant, 2008, 1, 118-128.	8.3	120
36	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

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37	UV-B Promotes Rapid Nuclear Translocation of the <i>Arabidopsis</i> UV-B-Specific Signaling Component UVR8 and Activates Its Function in the Nucleus. <i>Plant Cell</i> , 2007, 19, 2662-2673.	6.6	229
38	A UV-B-specific signaling component orchestrates plant UV protection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18225-18230.	7.1	495
39	<i>Arabidopsis</i> ICX1 Is a Negative Regulator of Several Pathways Regulating Flavonoid Biosynthesis Genes. <i>Plant Physiology</i> , 2003, 131, 707-715.	4.8	64
40	Probing the circadian control of phosphoenolpyruvate carboxylase kinase expression in <i>Kalanchoë fedtschenkoi</i> . <i>Functional Plant Biology</i> , 2002, 29, 663.	2.1	33
41	UV and blue light signalling: pathways regulating chalcone synthase gene expression in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2001, 151, 121-131.	7.3	148
42	PEP carboxylase kinase is a novel protein kinase controlled at the level of expression. <i>New Phytologist</i> , 2001, 151, 91-97.	7.3	48
43	Interactions within a network of phytochrome, cryptochrome and UV-B phototransduction pathways regulate chalcone synthase gene expression in <i>Arabidopsis</i> leaf tissue. <i>Plant Journal</i> , 2001, 25, 675-685.	5.7	175
44	Occurrence of Flavonols in Tomatoes and Tomato-Based Products. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 2663-2669.	5.2	404
45	Metabolite Control Overrides Circadian Regulation of Phosphoenolpyruvate Carboxylase Kinase and CO ₂ Fixation in Crassulacean Acid Metabolism. <i>Plant Physiology</i> , 1999, 121, 889-896.	4.8	136
46	The promoter of a <i>Brassica napus</i> lipid transfer protein gene is active in a range of tissues and stimulated by light and viral infection in transgenic <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 1999, 41, 75-87.	3.9	41
47	Effect of CWG methylation on expression of plant genes. <i>Biochemical Journal</i> , 1999, 341, 473-476.	3.7	13
48	Cauliflower mosaic virus infection stimulates lipid transfer protein gene expression in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 1999, 50, 1727-1733.	4.8	7
49	Identification of UV/blue light-response elements in the <i>Arabidopsis thaliana</i> chalcone synthase promoter using a homologous protoplast transient expression system. <i>Plant Molecular Biology</i> , 1998, 36, 741-754.	3.9	154
50	Transcripts of maize <i>RbcS</i> genes accumulate differentially in C ₃ and C ₄ tissues. <i>Plant Molecular Biology</i> , 1998, 36, 593-599.	3.9	28
51	Involvement of Plasma Membrane Redox Activity and Calcium Homeostasis in the UV-B and UV-A/Blue Light Induction of Gene Expression in <i>Arabidopsis</i> . <i>Plant Cell</i> , 1998, 10, 2077-2086.	6.6	103
52	A sucrose repression element in the <i>Phaseolus vulgaris</i> <i>rbcS2</i> gene promoter resembles elements responsible for sugar stimulation of plant and mammalian genes. , 1997, 35, 929-942.		35
53	Higher plant phosphoenolpyruvate carboxylase kinase is regulated at the level of translatable mRNA in response to light or a circadian rhythm. <i>Plant Journal</i> , 1996, 10, 1071-1078.	5.7	117
54	Transcripts of a gene encoding a putative cell wall-plasma membrane linker protein are specifically cold-induced in <i>Brassica napus</i> . <i>Plant Molecular Biology</i> , 1996, 31, 771-781.	3.9	55

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55	Ontogenetic regulation and photoregulation of members of the Phaseolus vulgaris L. rbcS gene family. Planta, 1996, 198, 31-8.	3.2	9
56	Signal perception, transduction, and gene expression involved in anthocyanin biosynthesis. Critical Reviews in Plant Sciences, 1996, 15, 525-557.	5.7	179
57	Extension-growth responses and expression of flavonoid biosynthesis genes in the Arabidopsis hy4 mutant. Planta, 1995, 197, 233-9.	3.2	80
58	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
59	UV-B Perception and Signal Transduction. , 0, , 155-182.		34
60	Cysteines have a role in conformation of the <scp>UVR8</scp> photoreceptor. Plant Journal, 0, , .	5.7	1