

Roman Ulm

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

7,026
citations

94433

37
h-index

182427

51
g-index

67
all docs

67
docs citations

67
times ranked

5019
citing authors

#	ARTICLE	IF	CITATIONS
1	Perception of UV-B by the <i>Arabidopsis</i> UVR8 Protein. <i>Science</i> , 2011, 332, 103-106.	12.6	943
2	Interaction of COP1 and UVR8 regulates UV-B-induced photomorphogenesis and stress acclimation in <i>Arabidopsis</i> . <i>EMBO Journal</i> , 2009, 28, 591-601.	7.8	559
3	Genome-wide analysis of gene expression reveals function of the bZIP transcription factor HY5 in the UV-B response of <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1397-1402.	7.1	447
4	UV-B photoreceptor-mediated signalling in plants. <i>Trends in Plant Science</i> , 2012, 17, 230-237.	8.8	382
5	CONSTITUTIVELY PHOTOMORPHOGENIC1 Is Required for the UV-B Response in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2006, 18, 1975-1990.	6.6	338
6	The <i>Arabidopsis</i> bZIP transcription factor HY5 regulates expression of the <i>PFG1</i> / <i>MYB12</i> gene in response to light and ultraviolet-B radiation. <i>Plant, Cell and Environment</i> , 2010, 33, 88-103.	5.7	324
7	Negative feedback regulation of UV-B-induced photomorphogenesis and stress acclimation in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20132-20137.	7.1	224
8	MAP KINASE PHOSPHATASE1 and PROTEIN TYROSINE PHOSPHATASE1 Are Repressors of Salicylic Acid Synthesis and SNC1-Mediated Responses in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2009, 21, 2884-2897.	6.6	216
9	Distinct regulation of salinity and genotoxic stress responses by <i>Arabidopsis</i> MAP kinase phosphatase 1. <i>EMBO Journal</i> , 2002, 21, 6483-6493.	7.8	213
10	The UVR8 UV-B Photoreceptor: Perception, Signaling and Response. <i>The Arabidopsis Book</i> , 2013, 11, e0164.	0.5	213
11	Photoreceptor-mediated regulation of the COP1/SPA E3 ubiquitin ligase. <i>Current Opinion in Plant Biology</i> , 2018, 45, 18-25.	7.1	200
12	Signalling and gene regulation in response to ultraviolet light. <i>Current Opinion in Plant Biology</i> , 2005, 8, 477-482.	7.1	184
13	Reversion of the <i>Arabidopsis</i> UV-B photoreceptor UVR8 to the homodimeric ground state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1113-1118.	7.1	179
14	UV-B-Responsive Association of the <i>Arabidopsis</i> bZIP Transcription Factor ELONGATED HYPOCOTYL5 with Target Genes, Including Its Own Promoter. <i>Plant Cell</i> , 2014, 26, 4200-4213.	6.6	171
15	How plants cope with UV-B: from perception to response. <i>Current Opinion in Plant Biology</i> , 2017, 37, 42-48.	7.1	156
16	The Molecular and Physiological Responses of <i>Physcomitrella patens</i> to Ultraviolet-B Radiation. <i>Plant Physiology</i> , 2010, 153, 1123-1134.	4.8	152
17	Multi-chromatic control of mammalian gene expression and signaling. <i>Nucleic Acids Research</i> , 2013, 41, e124-e124.	14.5	138
18	<i>Arabidopsis</i> MAP kinase phosphatase 1 and its target MAP kinases 3 and 6 antagonistically determine UV-B stress tolerance, independent of the UVR8 photoreceptor pathway. <i>Plant Journal</i> , 2011, 68, 727-737.	5.7	136

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19	UV-B photoreceptor-mediated protection of the photosynthetic machinery in <i>Chlamydomonas reinhardtii</i> . Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14864-14869.	7.1	129
20	COP1 is required for UV-B-induced nuclear accumulation of the UVR8 photoreceptor. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4415-22.	7.1	119
21	Arabidopsis MAP Kinase Phosphatase 1 (AtMKP1) negatively regulates MPK6-mediated PAMP responses and resistance against bacteria. Plant Journal, 2011, 67, 258-268.	5.7	116
22	UV-B Perception and Acclimation in <i>Chlamydomonas reinhardtii</i> . Plant Cell, 2016, 28, 966-983.	6.6	116
23	Plant photoreceptors and their signaling components compete for COP1 binding via VP peptide motifs. EMBO Journal, 2019, 38, e102140.	7.8	114
24	Functional interaction of the circadian clock and UV RESISTANCE LOCUS8-controlled UV-B signaling pathways in <i>Arabidopsis thaliana</i> . Plant Journal, 2011, 67, 37-48.	5.7	109
25	Two Distinct Domains of the UVR8 Photoreceptor Interact with COP1 to Initiate UV-B Signaling in Arabidopsis. Plant Cell, 2015, 27, 202-213.	6.6	102
26	Emerging functions for plant MAP kinase phosphatases. Trends in Plant Science, 2010, 15, 322-329.	8.8	101
27	Constitutively active UVR8 photoreceptor variant in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20326-20331.	7.1	87
28	Coping with "Dark Sides of the Sun" through Photoreceptor Signaling. Trends in Plant Science, 2018, 23, 260-271.	8.8	82
29	Degradation of the transcription factors PIF4 and PIF5 under UV-B promotes UVR8-mediated inhibition of hypocotyl growth in Arabidopsis. Plant Journal, 2020, 101, 507-517.	5.7	76
30	Photoreceptor-Mediated Bending towards UV-B in Arabidopsis. Molecular Plant, 2014, 7, 1041-1052.	8.3	68
31	Perception and Signaling of Ultraviolet-B Radiation in Plants. Annual Review of Plant Biology, 2021, 72, 793-822.	18.7	67
32	Q&A: How do plants sense and respond to UV-B radiation?. BMC Biology, 2015, 13, 45.	3.8	61
33	Cryptochrome-mediated blue-light signalling modulates UVR8 photoreceptor activity and contributes to UV-B tolerance in Arabidopsis. Nature Communications, 2020, 11, 1323.	12.8	55
34	Identification of a novel cis-regulatory element for UV-B-induced transcription in Arabidopsis. Plant Journal, 2008, 54, 402-414.	5.7	51
35	Phosphorylation and Stabilization of Arabidopsis MAP Kinase Phosphatase 1 in Response to UV-B Stress. Journal of Biological Chemistry, 2013, 288, 480-486.	3.4	45
36	<i>Arabidopsis</i> RUP2 represses UVR8-mediated flowering in noninductive photoperiods. Genes and Development, 2018, 32, 1332-1343.	5.9	44

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37	Perception of Sunflecks by the UV-B Photoreceptor UV RESISTANCE LOCUS8. <i>Plant Physiology</i> , 2018, 177, 75-81.	4.8	40
38	<scp>ATR</scp> and <scp>MKP</scp>1 play distinct roles in response to <scp>UV</scp> stress in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2013, 73, 1034-1043.	5.7	37
39	Light-regulated interactions with SPA proteins underlie cryptochrome-mediated gene expression: Figure 1.. <i>Genes and Development</i> , 2011, 25, 1004-1009.	5.9	34
40	Revisiting chromatin binding of the <i>Arabidopsis</i> UV-B photoreceptor UVR8. <i>BMC Plant Biology</i> , 2016, 16, 42.	3.6	33
41	UVR8-mediated inhibition of shade avoidance involves HFR1 stabilization in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2020, 16, e1008797.	3.5	27
42	Expression of the UVR8 photoreceptor in different tissues reveals tissue-autonomous features of UV signalling. <i>Plant, Cell and Environment</i> , 2017, 40, 1104-1114.	5.7	26
43	A constitutively monomeric UVR8 photoreceptor confers enhanced UV-B photomorphogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	26
44	A Short Amino-Terminal Part of <i>Arabidopsis</i> Phytochrome A Induces Constitutive Photomorphogenic Response. <i>Molecular Plant</i> , 2012, 5, 629-641.	8.3	22
45	<i>Arabidopsis</i> Box transcription factors <scp>BBX20</scp> promote <scp>UVR8</scp> photoreceptor-mediated <scp>UV</scp> responses. <i>Plant Journal</i> , 2022, 111, 422-439.	5.7	15
46	Dual control of MAPK activities by AP2C1 and MKP1 MAPK phosphatases regulates defence responses in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 2369-2384.	4.8	12
47	A photoreceptor's on-off switch. <i>Science</i> , 2016, 354, 282-283.	12.6	3
48	A conduit for T-DNA through the plant cell membrane: dig it yourself!. <i>Trends in Plant Science</i> , 2000, 5, 514.	8.8	1
49	Tailor-made toxin target. <i>Trends in Plant Science</i> , 2002, 7, 196-197.	8.8	1
50	Revealing a savior of manly vigor in plants. <i>Trends in Plant Science</i> , 2002, 7, 482-483.	8.8	1
51	UVR8-mediated inhibition of shade avoidance involves HFR1 stabilization in <i>Arabidopsis</i> . , 2020, 16, e1008797.		0
52	UVR8-mediated inhibition of shade avoidance involves HFR1 stabilization in <i>Arabidopsis</i> . , 2020, 16, e1008797.		0
53	UVR8-mediated inhibition of shade avoidance involves HFR1 stabilization in <i>Arabidopsis</i> . , 2020, 16, e1008797.		0
54	UVR8-mediated inhibition of shade avoidance involves HFR1 stabilization in <i>Arabidopsis</i> . , 2020, 16, e1008797.		0