

Erwin Grill

List of Publications by Year in descending order

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48
papers

8,007
citations

147801

31
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197818

49
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52
all docs

52
docs citations

52
times ranked

8370
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulators of PP2C Phosphatase Activity Function as Abscisic Acid Sensors. <i>Science</i> , 2009, 324, 1064-1068.	12.6	2,017
2	ABA perception and signalling. <i>Trends in Plant Science</i> , 2010, 15, 395-401.	8.8	1,106
3	A hydraulic signal in root shoot signalling of water shortage. <i>Plant Journal</i> , 2007, 52, 167-174.	5.7	464
4	Advances and current challenges in calcium signaling. <i>New Phytologist</i> , 2018, 218, 414-431.	7.3	423
5	Stomatal Closure by Fast Abscisic Acid Signaling Is Mediated by the Guard Cell Anion Channel SLAH3 and the Receptor RCAR1. <i>Science Signaling</i> , 2011, 4, ra32.	3.6	338
6	Mass-spectrometry-based draft of the Arabidopsis proteome. <i>Nature</i> , 2020, 579, 409-414.	27.8	328
7	Homeodomain protein ATHB6 is a target of the protein phosphatase ABI1 and regulates hormone responses in Arabidopsis. <i>EMBO Journal</i> , 2002, 21, 3029-3038.	7.8	309
8	Generation of Active Pools of Abscisic Acid Revealed by In Vivo Imaging of Water-Stressed Arabidopsis. <i>Plant Physiology</i> , 2005, 137, 209-219.	4.8	230
9	Type 2C protein phosphatases in plants. <i>FEBS Journal</i> , 2013, 280, 681-693.	4.7	200
10	Revisiting the Basal Role of ABA Roles Outside of Stress. <i>Trends in Plant Science</i> , 2019, 24, 625-635.	8.8	189
11	Hydrogen peroxide is a regulator of ABI1, a protein phosphatase 2C from Arabidopsis. <i>FEBS Letters</i> , 2001, 508, 443-446.	2.8	181
12	CO ₂ signaling in guard cells: Calcium sensitivity response modulation, a Ca ²⁺ -independent phase, and CO ₂ insensitivity of the <i>gca2</i> mutant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 7506-7511.	7.1	174
13	Closely related receptor complexes differ in their ABA selectivity and sensitivity. <i>Plant Journal</i> , 2010, 61, 25-35.	5.7	170
14	Hydraulic signals in long-distance signaling. <i>Current Opinion in Plant Biology</i> , 2013, 16, 293-300.	7.1	158
15	Combinatorial interaction network of abscisic acid receptors and coreceptors from <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10280-10285.	7.1	142
16	Function of phytochelatin synthase in catabolism of glutathione-conjugates. <i>Plant Journal</i> , 2007, 49, 740-749.	5.7	120
17	Fibrillin expression is regulated by abscisic acid response regulators and is involved in abscisic acid-mediated photoprotection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6061-6066.	7.1	115
18	Leveraging abscisic acid receptors for efficient water use in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6791-6796.	7.1	106

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19	Extensive signal integration by the phytohormone protein network. <i>Nature</i> , 2020, 583, 271-276.	27.8	104
20	Abscisic acid sensor RCAR7/PYL13, specific regulator of protein phosphatase coreceptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5741-5746.	7.1	100
21	Nuclear localization of the mutant protein phosphatase <i>abi1</i> is required for insensitivity towards ABA responses in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2008, 54, 806-819.	5.7	91
22	Expression of the <i>Arabidopsis</i> Mutant <i>abi1</i> Gene Alters Abscisic Acid Sensitivity, Stomatal Development, and Growth Morphology in Gray Poplars. <i>Plant Physiology</i> , 2009, 151, 2110-2119.	4.8	72
23	The <i>abi1-1</i> mutation blocks ABA signaling downstream of cADPR action. <i>Plant Journal</i> , 2003, 34, 307-315.	5.7	69
24	Cytosolic Action of Phytochelatin Synthase. <i>Plant Physiology</i> , 2010, 153, 159-169.	4.8	65
25	Phytochelatin synthase catalyzes key step in turnover of glutathione conjugates. <i>Phytochemistry</i> , 2003, 62, 423-431.	2.9	62
26	Exploring the <i>Arabidopsis</i> sulfur metabolome. <i>Plant Journal</i> , 2014, 77, 31-45.	5.7	60
27	[39] Phytochelatin. <i>Methods in Enzymology</i> , 1991, 205, 333-341.	1.0	59
28	Generating Plants with Improved Water Use Efficiency. <i>Agronomy</i> , 2018, 8, 194.	3.0	51
29	Action of Natural Abscisic Acid Precursors and Catabolites on Abscisic Acid Receptor Complexes. <i>Plant Physiology</i> , 2011, 157, 2108-2119.	4.8	49
30	Abscisic Acid Receptors and Coreceptors Modulate Plant Water Use Efficiency and Water Productivity. <i>Plant Physiology</i> , 2019, 180, 1066-1080.	4.8	48
31	The formation of a camalexin-biosynthetic metabolon. <i>Plant Cell</i> , 2019, 31, tpc.00403.2019.	6.6	38
32	Phytochelatin synthesis is catalyzed by two vacuolar serine carboxypeptidases in <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 2007, 581, 1681-1687.	2.8	35
33	A LIM Domain Protein from Tobacco Involved in Actin-Bundling and Histone Gene Transcription. <i>Molecular Plant</i> , 2013, 6, 483-502.	8.3	33
34	Abscisic acid analogs as chemical probes for dissection of abscisic acid responses in <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2015, 113, 96-107.	2.9	31
35	Dissection of glutathione conjugate turnover in yeast. <i>Phytochemistry</i> , 2010, 71, 54-61.	2.9	30
36	Carbon isotope composition, water use efficiency, and drought sensitivity are controlled by a common genomic segment in maize. <i>Theoretical and Applied Genetics</i> , 2019, 132, 53-63.	3.6	26

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37	Moonlighting Function of Phytochelatin Synthase1 in Extracellular Defense against Fungal Pathogens. <i>Plant Physiology</i> , 2020, 182, 1920-1932.	4.8	26
38	Rebuilding core abscisic acid signaling pathways of <i>Arabidopsis</i> in yeast. <i>EMBO Journal</i> , 2019, 38, e101859.	7.8	25
39	Interaction network of ABA receptors in grey poplar. <i>Plant Journal</i> , 2017, 92, 199-210.	5.7	23
40	Analysis of <i>Arabidopsis</i> glutathione-transferases in yeast. <i>Phytochemistry</i> , 2013, 91, 198-207.	2.9	21
41	Electric defence. <i>Nature</i> , 2013, 500, 404-405.	27.8	20
42	Potent Analogues of Abscisic Acid – Identifying Cyano-Cyclopropyl Moieties as Promising Replacements for the Cyclohexenone Headgroup. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 1416-1425.	2.4	19
43	BOTANY: A Plant Receptor with a Big Family. <i>Science</i> , 2007, 315, 1676-1677.	12.6	18
44	Insights into the in Vitro and in Vivo SAR of Abscisic Acid – Exploring Unprecedented Variations of the Side Chain via Cross-Coupling-Mediated Syntheses. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 1403-1415.	2.4	16
45	Increased water use efficiency and water productivity of <i>Arabidopsis</i> by abscisic acid receptors from <i>Populus canescens</i> . <i>Annals of Botany</i> , 2019, 124, 581-589.	2.9	15
46	Modulation of ABA responses by the protein kinase WNK8. <i>FEBS Letters</i> , 2019, 593, 339-351.	2.8	10
47	Synthesis and Exploration of Abscisic Acid Receptor Agonists Against Drought Stress by Adding Constraint to a Tetrahydroquinoline-Based Lead Structure. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 3442-3457.	2.4	8
48	Natural alleles of the abscisic acid catabolism gene <i>ZmAbh4</i> modulate water use efficiency and carbon isotope discrimination in maize. <i>Plant Cell</i> , 2022, 34, 3860-3872.	6.6	5