Julian I Schroeder

List of Publications by Year
in descending order

269 papers	52,678 citations	735 120 h-index	1385 222 g-index
283 all docs	283 docs citations	283 times ranked	25710 citing authors

#	Article	IF	Citations
1	Plant hormone regulation of abiotic stress responses. Nature Reviews Molecular Cell Biology, 2022, 23, 680-694.	37.0	279
2	Signaling mechanisms in abscisic acidâ€mediated stomatal closure. Plant Journal, 2021, 105, 307-321.	5.7	214
3	A role for calciumâ€dependent protein kinases in differential CO₂â€•and ABAâ€controlled stomatal closing and low CO₂â€induced stomatal opening in Arabidopsis. New Phytologist, 2021, 229, 2765-2779.	7.3	38
4	An <scp>amiRNA</scp> screen uncovers redundant <scp>CBF</scp> and <scp>ERF34</scp>/35 transcription factors that differentially regulate arsenite and cadmium responses. Plant, Cell and Environment, 2021, 44, 1692-1706.	5.7	19
5	The SLIM1 transcription factor is required for arsenic resistance in <i>Arabidopsis thaliana</i>. FEBS Letters, 2021, 595, 1696-1707.	2.8	12
6	Protein kinase sensors: an overview of new designs for visualizing kinase dynamics in single plant cells. Plant Physiology, 2021, 187, 527-536.	4.8	4
7	Molecular mechanisms of stomatal closure in response to rising vapour pressure deficit. New Phytologist, 2021, 232, 468-475.	7.3	26
8	Boolink: a graphical interface for open access Boolean network simulations and use in guard cell CO2 signaling. Plant Physiology, 2021, 187, 2311-2322.	4.8	17
9	Jasmonic acid and salicylic acid play minor roles in stomatal regulation by CO₂, abscisic acid, darkness, vapor pressure deficit and ozone. Plant Journal, 2021, 108, 134-150.	5.7	18
10	Deep dive into CO2-dependent molecular mechanisms driving stomatal responses in plants. Plant Physiology, 2021, 187, 2032-2042.	4.8	30
11	Identification and characterization of SaeIF1 from the eukaryotic translation factor SUI1 family in cadmium hyperaccumulator Sedum alfredii. Planta, 2021, 253, 12.	3.2	0
12	Raf-like kinases and receptor-like (pseudo)kinase GHR1 are required for stomatal vapor pressure difference response. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
13	MAP3Kinase-dependent SnRK2-kinase activation is required for abscisic acid signal transduction and rapid osmotic stress response. Nature Communications, 2020, 11, 12.	12.8	202
14	Dynamic regulation of Pep-induced immunity through post-translational control of defence transcript splicing. Nature Plants, 2020, 6, 1008-1019.	9.3	40
15	Monitoring and mitigation of toxic heavy metals and arsenic accumulation in food crops: A case study of an urban community garden. Plant Direct, 2020, 4, e00198.	1.9	40
16	FRET kinase sensor development reveals SnRK2/OST1 activation by ABA but not by MeJA and high CO2 during stomatal closure. ELife, 2020, 9, .	6.0	68
17	A seed resource for screening functionally redundant genes and isolation of new mutants impaired in CO2 and ABA responses. Journal of Experimental Botany, 2019, 70, 641-651.	4.8	12
18	Chemical genetic identification of a lectin receptor kinase that transduces immune responses and interferes with abscisic acid signaling. Plant Journal, 2019, 98, 492-510.	5.7	19

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19	Cryo-EM structure of OSCA1.2 from <i>Oryza sativa</i> elucidates the mechanical basis of potential membrane hyperosmolality gating. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14309-14318.	7.1	71
20	Intact leaf gas exchange provides a robust method for measuring the kinetics of stomatal conductance responses to abscisic acid and other small molecules in Arabidopsis and grasses. Plant Methods, 2019, 15, 38.	4.3	38
21	Calcium signals are necessary to establish auxin transporter polarity in a plant stem cell niche. Nature Communications, 2019, 10, 726.	12.8	51
22	Genetic strategies for improving crop yields. Nature, 2019, 575, 109-118.	27.8	799
23	Toward a better understanding of signaling networks in plants: yeast has the power!. EMBO Journal, 2019, 38, e102478.	7.8	2
24	Abscisic acid-induced degradation of <i>Arabidopsis</i> guanine nucleotide exchange factor requires calcium-dependent protein kinases. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4522-E4531.	7.1	36
25	The <scp>BIG</scp> protein distinguishes the process of <scp>CO</scp>₂â€induced stomatal closure from the inhibition of stomatal opening by <scp>CO</scp>₂. New Phytologist, 2018, 218, 232-241.	7.3	43
26	Insights into the Molecular Mechanisms ofÂCO2-Mediated Regulation of Stomatal Movements. Current Biology, 2018, 28, R1356-R1363.	3.9	85
27	Abscisic acid-independent stomatal CO ₂ signal transduction pathway and convergence of CO ₂ and ABA signaling downstream of OST1 kinase. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9971-E9980.	7.1	91
28	Identification of SLAC1 anion channel residues required for CO ₂ /bicarbonate sensing and regulation of stomatal movements. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11129-11137.	7.1	58
29	A transportome-scale amiRNA-based screen identifies redundant roles of Arabidopsis ABCB6 and ABCB20 in auxin transport. Nature Communications, 2018, 9, 4204.	12.8	42
30	Mitogenâ€activated protein kinases <scp>MPK</scp>4 and <scp>MPK</scp>12 are key components mediating <scp>CO</scp>₂â€induced stomatal movements. Plant Journal, 2018, 96, 1018-1035.	5.7	49
31	Cytosolic malate and oxaloacetate activate Sâ€type anion channels in <i>Arabidopsis</i> guard cells. New Phytologist, 2018, 220, 178-186.	7.3	14
32	Starch biosynthesis by <scp>AGP</scp>ase, but not starch degradation by <scp>BAM</scp>1/3 and <scp>SEX</scp>1, is rateâ€limiting for <scp>CO</scp>₂â€regulated stomatal movements under shortâ€day conditions. FEBS Letters, 2018, 592, 2739-2759.	2.8	10
33	Eukaryotic lipid metabolic pathway is essential for functional chloroplasts and CO ₂ and light responses in <i>Arabidopsis</i> guard cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9038-9043.	7.1	32
34	Control of seed dormancy and germination by DOG1-AHG1 PP2C phosphatase complex via binding to heme. Nature Communications, 2018, 9, 2132.	12.8	138
35	Screening for Natural Variation in Water Use Efficiency Traits in a Diversity Set of Brassica napus L. Identifies Candidate Variants in Photosynthetic Assimilation. Plant and Cell Physiology, 2017, 58, 1700-1709.	3.1	10
36	SnapShot: Abscisic Acid Signaling. Cell, 2017, 171, 1708-1708.e0.	28.9	109

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37	Two-electrode Voltage-clamp Recordings in Xenopus laevis Oocytesï¼šReconstitution of Abscisic Acid Activation of SLAC1 Anion Channel via PYL9 ABA Receptor. Bio-protocol, 2017, 7, .	0.4	9
38	Release of GTP Exchange Factor Mediated Down-Regulation of Abscisic Acid Signal Transduction through ABA-Induced Rapid Degradation of RopGEFs. PLoS Biology, 2016, 14, e1002461.	5.6	45
39	An ABA-increased interaction of the PYL6 ABA receptor with MYC2 Transcription Factor: A putative link of ABA and JA signaling. Scientific Reports, 2016, 6, 28941.	3.3	155
40	A Dominant Mutation in the HT1 Kinase Uncovers Roles of MAP Kinases and GHR1 in CO₂-Induced Stomatal Closure. Plant Cell, 2016, 28, 2493-2509.	6.6	89
41	Rapid hyperosmotic-induced Ca ²⁺ responses in <i>Arabidopsis thaliana</i> exhibit sensory potentiation and involvement of plastidial KEA transporters. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5242-9.	7.1	81
42	OsHKT1;4-mediated Na+ transport in stems contributes to Na+ exclusion from leaf blades of rice at the reproductive growth stage upon salt stress. BMC Plant Biology, 2016, 16, 22.	3.6	168
43	Mapping transcription factor interactome networks using HaloTag protein arrays. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4238-47.	7.1	67
44	The Transmembrane Region of Guard Cell SLAC1 Channels Perceives CO₂ Signals via an ABA-Independent Pathway in Arabidopsis. Plant Cell, 2016, 28, 557-567.	6.6	47
45	Reconstitution of CO₂ Regulation of SLAC1 Anion Channel and Function of CO₂-Permeable PIP2;1 Aquaporin as CARBONIC ANHYDRASE4 Interactor. Plant Cell, 2016, 28, 568-582.	6.6	130
46	Molecular and systems approaches towards droughtâ€tolerant canola crops. New Phytologist, 2016, 210, 1169-1189.	7.3	70
47	Toward a Molecular Understanding of Plant Hormone Actions. Molecular Plant, 2016, 9, 1-3.	8.3	7
48	CO2 Sensing and CO2 Regulation of Stomatal Conductance: Advances and Open Questions. Trends in Plant Science, 2016, 21, 16-30.	8.8	244
49	Identification of AtOPT4 as a Plant Glutathione Transporter. Molecular Plant, 2016, 9, 481-484.	8.3	24
50	Starch Biosynthesis in Guard Cells But Not in Mesophyll Cells Is Involved in CO2-Induced Stomatal Closing. Plant Physiology, 2016, 171, 788-98.	4.8	34
51	Natural Variation in Arabidopsis Cvi-0 Accession Reveals an Important Role of MPK12 in Guard Cell CO2 Signaling. PLoS Biology, 2016, 14, e2000322.	5.6	69
52	Small Molecule DFPM Derivative-Activated Plant Resistance Protein Signaling in Roots Is Unaffected by EDS1 Subcellular Targeting Signal and Chemical Genetic Isolation of victr R-Protein Mutants. PLoS ONE, 2016, 11, e0155937.	2.5	5
53	The <scp>HT</scp>1 protein kinase is essential for red lightâ€induced stomatal opening and genetically interacts with <scp>OST</scp>1 in red light and <scp>CO</scp>₂â€induced stomatal movement responses. New Phytologist, 2015, 208, 1126-1137.	7.3	56
54	Abscisic acid and other plant hormones: Methods to visualize distribution and signaling. BioEssays, 2015, 37, 1338-1349.	2.5	41

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55	Guard cell photosynthesis is critical for stomatal turgor production, yet does not directly mediate <scp>CO</scp>₂â€•and <scp>ABA</scp>â€•induced stomatal closing. Plant Journal, 2015, 83, 567-581.	5.7	73
56	Calcium specificity signaling mechanisms in abscisic acid signal transduction in Arabidopsis guard cells. ELife, 2015, 4, .	6.0	172
57	HKT transporters mediate salt stress resistance in plants: from structure and function to the field. Current Opinion in Biotechnology, 2015, 32, 113-120.	6.6	195
58	Identification of Open Stomata1-Interacting Proteins Reveals Interactions with Sucrose Non-fermenting1-Related Protein Kinases2 and with Type 2A Protein Phosphatases That Function in Abscisic Acid Responses. Plant Physiology, 2015, 169, 760-779.	4.8	100
59	Live Cell Imaging with R-GECO1 Sheds Light on flg22- and Chitin-Induced Transient [Ca 2+] cyt Patterns in Arabidopsis. Molecular Plant, 2015, 8, 1188-1200.	8.3	150
60	Distinct Cellular Locations of Carbonic Anhydrases Mediate Carbon Dioxide Control of Stomatal Movements. Plant Physiology, 2015, 169, 1168-1178.	4.8	78
61	Mechanisms of abscisic acid-mediated control of stomatal aperture. Current Opinion in Plant Biology, 2015, 28, 154-162.	7.1	438
62	FRET-based reporters for the direct visualization of abscisic acid concentration changes and distribution in Arabidopsis. ELife, 2014, 3, e01739.	6.0	213
63	Regulation of Drought Tolerance by the F-Box Protein MAX2 in Arabidopsis. Plant Physiology, 2014, 164, 424-439.	4.8	254
64	Decreased capacity for sodium export out of Arabidopsis chloroplasts impairs salt tolerance, photosynthesis and plant performance. Plant Journal, 2014, 78, 646-658.	5.7	57
65	Phytochelatinâ€“metal(loid) transport into vacuoles shows different substrate preferences in barley and <i><scp>A</scp>rabidopsis</i>. Plant, Cell and Environment, 2014, 37, 1192-1201.	5.7	134
66	Plant salt-tolerance mechanisms. Trends in Plant Science, 2014, 19, 371-379.	8.8	1,343
67	Plant salt stress status is transmitted systemically via propagating calcium waves. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6126-6127.	7.1	17
68	Plastidial transporters KEA1, -2, and -3 are essential for chloroplast osmoregulation, integrity, and pH regulation in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7480-7485.	7.1	241
69	Border Controlâ€"A Membrane-Linked Interactome of <i>Arabidopsis</i>. Science, 2014, 344, 711-716.	12.6	213
70	Protein Fragment Bimolecular Fluorescence Complementation Analyses for the In vivo Study of Protein-Protein Interactions and Cellular Protein Complex Localizations. Methods in Molecular Biology, 2014, 1062, 629-658.	0.9	30
71	Loss of Cytosolic Phosphoglucose Isomerase Affects Carbohydrate Metabolism in Leaves and Is Essential for Fertility of Arabidopsis Â Â Â. Plant Physiology, 2014, 166, 753-765.	4.8	39
72	OPT3 Is a Component of the Iron-Signaling Network between Leaves and Roots and Misregulation of OPT3 Leads to an Over-Accumulation of Cadmium in Seeds. Molecular Plant, 2014, 7, 1455-1469.	8.3	135

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73	Carbonic anhydrases, EPF2 and a novel protease mediate CO2 control of stomatal development. Nature, 2014, 513, 246-250.	27.8	189
74	COP1 Jointly Modulates Cytoskeletal Processes and Electrophysiological Responses Required for Stomatal Closure. Molecular Plant, 2014, 7, 1441-1454.	8.3	30
75	Defining membrane spanning domains and crucial membrane-localized acidic amino acid residues for K+ transport of a Kup/HAK/KT-type Escherichia coli potassium transporter. Journal of Biochemistry, 2014, 155, 315-323.	1.7	37
76	A Dof Transcription Factor, SCAP1, Is Essential for the Development of Functional Stomata in Arabidopsis. Current Biology, 2013, 23, 479-484.	3.9	125
77	Mutations in the <scp>SLAC</scp>1 anion channel slow stomatal opening and severely reduce K⁺ uptake channel activity via enhanced cytosolic [Ca²⁺] and increased Ca²⁺ sensitivity of K⁺ uptake channels. New Phytologist, 2013, 197, 88-98.	7.3	50
78	Using membrane transporters to improve crops for sustainable food production. Nature, 2013, 497, 60-66.	27.8	440
79	PYR/RCAR Receptors Contribute to Ozone-, Reduced Air Humidity-, Darkness-, and CO2-Induced Stomatal Regulation Â Â Â. Plant Physiology, 2013, 162, 1652-1668.	4.8	190
80	Natural Variation in Small Moleculeâ€"Induced TIR-NB-LRR Signaling Induces Root Growth Arrest via EDS1- and PAD4-Complexed R Protein VICTR in<i>Arabidopsis</i>Â Â. Plant Cell, 2013, 24, 5177-5192.	6.6	64
81	Going Green: Phytohormone Mimetics for Drought Rescue. Plant Physiology, 2013, 163, 1087-1088.	4.8	7
82	A Genomic-Scale Artificial MicroRNA Library as a Tool to Investigate the Functionally Redundant Gene Space in<i>Arabidopsis</i>Â. Plant Cell, 2013, 25, 2848-2863.	6.6	62
83	Calcium-Dependent and -Independent Stomatal Signaling Network and Compensatory Feedback Control of Stomatal Opening via Ca2+ Sensitivity Priming. Plant Physiology, 2013, 163, 504-513.	4.8	47
84	Identification of Cyclic GMP-Activated Nonselective Ca2+-Permeable Cation Channels and Associated <i>CNGC5</i> and <i>CNGC6</i> Genes in Arabidopsis Guard Cells Â Â. Plant Physiology, 2013, 163, 578-590.	4.8	111
85	Elemental Concentrations in the Seed of Mutants and Natural Variants of Arabidopsis thaliana Grown under Varying Soil Conditions. PLoS ONE, 2013, 8, e63014.	2.5	19
86	Abscisic acid and CO2 signalling via calcium sensitivity priming in guard cells, new CDPK mutant phenotypes and a method for improved resolution of stomatal stimulus-response analyses. Annals of Botany, 2012, 109, 5-17.	2.9	125
87	Reconstitution of abscisic acid activation of SLAC1 anion channel by CPK6 and OST1 kinases and branched ABI1 PP2C phosphatase action. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10593-10598.	7.1	393
88	Feedback inhibition by thiols outranks glutathione depletion: a luciferaseâ€based screen reveals glutathioneâ€deficient Î³â€ECS and glutathione synthetase mutants impaired in cadmiumâ€induced sulfate assimilation. Plant Journal, 2012, 70, 783-795.	5.7	60
89	Exploring CO2 permeability of plant aquaporins. FASEB Journal, 2012, 26, 1103.8.	0.5	0
90	Roles of intracellular hydrogen peroxide accumulation in abscisic acid signaling in Arabidopsis guard cells. Journal of Plant Physiology, 2011, 168, 1919-1926.	3.5	71

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91	Quantitative transcriptomic analysis of abscisic acidâ€induced and reactive oxygen speciesâ€dependent expression changes and proteomic profiling in Arabidopsis suspension cells. Plant Journal, 2011, 67, 105-118.	5.7	83
92	Central functions of bicarbonate in S-type anion channel activation and OST1 protein kinase in CO₂signal transduction in guard cell. EMBO Journal, 2011, 30, 1645-1658.	7.8	167
93	Long-distance transport, vacuolar sequestration, tolerance, and transcriptional responses induced by cadmium and arsenic. Current Opinion in Plant Biology, 2011, 14, 554-562.	7.1	366
94	Evolution of Abscisic Acid Synthesis and Signaling Mechanisms. Current Biology, 2011, 21, R346-R355.	3.9	425
95	Chemical Genetics Reveals Negative Regulation of Abscisic Acid Signaling by a Plant Immune Response Pathway. Current Biology, 2011, 21, 990-997.	3.9	152
96	K+ Transport by the OsHKT2;4 Transporter from Rice with Atypical Na+ Transport Properties and Competition in Permeation of K+ over Mg2+ and Ca2+ Ions Â Â Â. Plant Physiology, 2011, 156, 1493-1507.	4.8	138
97	AtHKT1;1 Mediates Nernstian Sodium Channel Transport Properties in Arabidopsis Root Stelar Cells. PLoS ONE, 2011, 6, e24725.	2.5	61
98	Spotlight onâ€¦ Julian Schroeder. FEBS Letters, 2010, 584, 2963-2964.	2.8	0
99	PYR/PYL/RCAR family members are major<i>inâ€vivo</i>ABI1 protein phosphatase 2Câ€interacting proteins in Arabidopsis. Plant Journal, 2010, 61, 290-299.	5.7	451
100	H2O2 in plant peroxisomes: an in vivo analysis uncovers a Ca2+-dependent scavenging system. Plant Journal, 2010, 62, 760-772.	5.7	211
101	Carbonic anhydrases are upstream regulators of CO2-controlled stomatal movements in guard cells. Nature Cell Biology, 2010, 12, 87-93.	10.3	364
102	A membrane protein / signaling protein interaction network for Arabidopsis version AMPv2. Frontiers in Physiology, 2010, 1, 24.	2.8	131
103	The<i>Arabidopsis</i>Nitrate Transporter NRT1.8 Functions in Nitrate Removal from the Xylem Sap and Mediates Cadmium Tolerance Â. Plant Cell, 2010, 22, 1633-1646.	6.6	413
104	Tonoplast-localized Abc2 Transporter Mediates Phytochelatin Accumulation in Vacuoles and Confers Cadmium Tolerance. Journal of Biological Chemistry, 2010, 285, 40416-40426.	3.4	87
105	Arsenic tolerance in <i>Arabidopsis</i> is mediated by two ABCC-type phytochelatin transporters. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21187-21192.	7.1	555
106	High-Affinity K+ Transport in Arabidopsis: AtHAK5 and AKT1 Are Vital for Seedling Establishment and Postgermination Growth under Low-Potassium Conditions Â Â Â. Plant Physiology, 2010, 153, 863-875.	4.8	219
107	Guard Cell Signal Transduction Network: Advances in Understanding Abscisic Acid, CO₂, and Ca²⁺Signaling. Annual Review of Plant Biology, 2010, 61, 561-591.	18.7	1,165
108	Ion Channels and Plant Stress: Past, Present, and Future. Signaling and Communication in Plants, 2010, , 1-22.	0.7	12

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109	Early abscisic acid signal transduction mechanisms: newly discovered components and newly emerging questions. Genes and Development, 2010, 24, 1695-1708.	5.9	592
110	Differential Sodium and Potassium Transport Selectivities of the Rice OsHKT2;1 and OsHKT2;2 Transporters in Plant Cells Â Â. Plant Physiology, 2009, 152, 341-355.	4.8	135
111	Triple Loss of Function of Protein Phosphatases Type 2C Leads to Partial Constitutive Response to Endogenous Abscisic Acid Â Â Â. Plant Physiology, 2009, 150, 1345-1355.	4.8	252
112	Disruption of the pollen-expressed<i>FERONIA</i>homologs<i>ANXUR1</i>and<i>ANXUR2</i>triggers pollen tube discharge. Development (Cambridge), 2009, 136, 3279-3288.	2.5	273
113	Calcium elevationâ€dependent and attenuated resting calciumâ€dependent abscisic acid induction of stomatal closure and abscisic acidâ€induced enhancement of calcium sensitivities of Sâ€type anion and inwardâ€rectifying K⁺ channels in Arabidopsis guard cells. Plant Journal, 2009, 59, 207-220.	5.7	142
114	ARS5 is a component of the 26S proteasome complex, and negatively regulates thiol biosynthesis and arsenic tolerance in Arabidopsis. Plant Journal, 2009, 59, 802-813.	5.7	64
115	Water Balance and the Regulation of Stomatal Movements. , 2009, , 283-305.		4
116	HKT transporter-mediated salinity resistance mechanisms in Arabidopsis and monocot crop plants. Trends in Plant Science, 2009, 14, 660-668.	8.8	433
117	Plant Ion Channels: Gene Families, Physiology, and Functional Genomics Analyses. Annual Review of Physiology, 2009, 71, 59-82.	13.1	335
118	Abscisic Acid Inhibits Type 2C Protein Phosphatases via the PYR/PYL Family of START Proteins. Science, 2009, 324, 1068-1071.	12.6	2,385
119	Structural Mechanism of Abscisic Acid Binding and Signaling by Dimeric PYR1. Science, 2009, 326, 1373-1379.	12.6	457
120	KDC1, a carrot Shaker-like potassium channel, reveals its role as a silent regulatory subunit when expressed in plant cells. Plant Molecular Biology, 2008, 66, 61-72.	3.9	31
121	An HPLC-ICP-MS technique for determination of cadmiumâ€“phytochelatins in genetically modified Arabidopsis thaliana. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 861, 123-129.	2.3	39
122	Identification of high levels of phytochelatins, glutathione and cadmium in the phloem sap of <i>Brassica napus</i>. A role for thiolâ€peptides in the longâ€distance transport of cadmium and the effect of cadmium on iron translocation. Plant Journal, 2008, 54, 249-259.	5.7	311
123	The Peroxin Loss-of-Function Mutation abstinence by mutual consent Disrupts Male-Female Gametophyte Recognition. Current Biology, 2008, 18, 63-68.	3.9	116
124	Isolation of a strong Arabidopsis guard cell promoter and its potential as a research tool. Plant Methods, 2008, 4, 6.	4.3	295
125	SLAC1 is required for plant guard cell S-type anion channel function in stomatal signalling. Nature, 2008, 452, 487-491.	27.8	733
126	Expression of the Novel Wheat Gene TM20 Confers Enhanced Cadmium Tolerance to Bakers' Yeast. Journal of Biological Chemistry, 2008, 283, 15893-15902.	3.4	42

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127	The Clickable Guard Cell, Version II: Interactive Model of Guard Cell Signal Transduction Mechanisms and Pathways. The Arabidopsis Book, 2008, 6, e0114.	0.5	36
128	Functions of HKT transporters in sodium transport in roots and in protecting leaves from salinity stress. Plant Biotechnology, 2008, 25, 233-239.	1.0	22
129	A cyclic nucleotide-gated channel is essential for polarized tip growth of pollen. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14531-14536.	7.1	248
130	The ATP Binding Cassette Transporter AtMRP5 Modulates Anion and Calcium Channel Activities in Arabidopsis Guard Cells. Journal of Biological Chemistry, 2007, 282, 1916-1924.	3.4	117
131	In SYNC: The Ins and Outs of Circadian Oscillations in Calcium. Science Signaling, 2007, 2007, pe32.	3.6	10
132	The receptor-like kinase SERK3/BAK1 is a central regulator of innate immunity in plants. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12217-12222.	7.1	998
133	Daily Watch on Metabolism. Science, 2007, 318, 1730-1731.	12.6	18
134	Plant transporters and channels. FEBS Letters, 2007, 581, 2203-2203.	2.8	0
135	Identification of an arsenic tolerant double mutant with a thiol-mediated component and increased arsenic tolerance in phyA mutants. Plant Journal, 2007, 49, 1064-1075.	5.7	26
136	Rice OsHKT2;1 transporter mediates large Na+ influx component into K+-starved roots for growth. EMBO Journal, 2007, 26, 3003-3014.	7.8	333
137	mRNA metabolism of flowering-time regulators in wild-type Arabidopsis revealed by a nuclear cap binding protein mutant, abh1. Plant Journal, 2007, 50, 1049-1062.	5.7	67
138	A hypermorphic mutation in the protein phosphatase 2C HAB1 strongly affects ABA signaling inArabidopsis. FEBS Letters, 2006, 580, 4691-4696.	2.8	84
139	A Quick Release Mechanism for Abscisic Acid. Cell, 2006, 126, 1023-1025.	28.9	51
140	Nomenclature for HKT transporters, key determinants of plant salinity tolerance. Trends in Plant Science, 2006, 11, 372-374.	8.8	329
141	CDPKs CPK6 and CPK3 Function in ABA Regulation of Guard Cell S-Type Anion- and Ca2+- Permeable Channels and Stomatal Closure. PLoS Biology, 2006, 4, e327.	5.6	523
142	Abscisic acid in bloom. Nature, 2006, 439, 277-278.	27.8	5
143	Arabidopsis HT1 kinase controls stomatal movements in response to CO2. Nature Cell Biology, 2006, 8, 391-397.	10.3	261
144	Nitrate at the ion exchange. Nature, 2006, 442, 877-878.	27.8	9

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145	Guard cell ABA and CO2 signaling network updates and Ca2+ sensor priming hypothesis. Current Opinion in Plant Biology, 2006, 9, 654-663.	7.1	164
146	Enhancement of Abscisic Acid Sensitivity and Reduction of Water Consumption in Arabidopsis by Combined Inactivation of the Protein Phosphatases Type 2C ABI1 and HAB1 Â. Plant Physiology, 2006, 141, 1389-1399.	4.8	235
147	CO2 signaling in guard cells: Calcium sensitivity response modulation, a Ca2+-independent phase, and CO2 insensitivity of the gca2 mutant. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7506-7511.	7.1	174
148	An Improved Grafting Technique for Mature Arabidopsis Plants Demonstrates Long-Distance Shoot-to-Root Transport of Phytochelatins in Arabidopsis. Plant Physiology, 2006, 141, 108-120.	4.8	144
149	The Protein Phosphatase AtPP2CA Negatively Regulates Abscisic Acid Signal Transduction in Arabidopsis, and Effects of abh1 on AtPP2CA mRNA Â. Plant Physiology, 2006, 140, 127-139.	4.8	252
150	The Role of Reactive Oxygen Species in Hormonal Responses. Plant Physiology, 2006, 141, 323-329.	4.8	330
151	Calcium Regulation of Sodium Hypersensitivities of sos3 and athkt1 Mutants. Plant and Cell Physiology, 2006, 47, 622-633.	3.1	80
152	Enhanced salt tolerance mediated by AtHKT1 transporter-induced Na+ unloading from xylem vessels to xylem parenchyma cells. Plant Journal, 2005, 44, 928-938.	5.7	572
153	All Four Putative Selectivity Filter Glycine Residues in KtrB Are Essential for High Affinity and Selective K+ Uptake by the KtrAB System from Vibrio alginolyticus. Journal of Biological Chemistry, 2005, 280, 41146-41154.	3.4	71
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