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	Abscisic Acid Inhibits Type 2C Protein Phosphatases via the PYR/PYL Family of START Proteins. Science, 2009, 324, 1068-1071.	12.6	2,385
2	Calcium channels activated by hydrogen peroxide mediate abscisic acidsignalling in guard cells. Nature, 2000, 406, 731-734.	27.8	1,938
3	NADPH oxidase AtrbohD and AtrbohF genes function in ROS-dependent ABA signaling in Arabidopsis. EMBO Journal, 2003, 22, 2623-2633.	7.8	1,474
4	Plant salt-tolerance mechanisms. Trends in Plant Science, 2014, 19, 371-379.	8.8	1,343
5	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
6	Phylogenetic Relationships within Cation Transporter Families of Arabidopsis. Plant Physiology, 2001, 126, 1646-1667.	4.8	1,110
7	GUARDCELLSIGNALTRANSDUCTION. Annual Review of Plant Biology, 2001, 52, 627-658.	14.3	1,038
8	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
9	Cadmium and iron transport by members of a plant metal transporter family in Arabidopsis with homology to Nramp genes. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4991-4996.	7.1	800
10	Genetic strategies for improving crop yields. Nature, 2019, 575, 109-118.	27.8	799
11	SLAC1 is required for plant guard cell S-type anion channel function in stomatal signalling. Nature, 2008, 452, 487-491.	27.8	733
12	Guard cell abscisic acid signalling and engineering drought hardiness in plants. Nature, 2001, 410, 327-330.	27.8	694
13	Sodium-Driven Potassium Uptake by the Plant Potassium Transporter HKT1 and Mutations Conferring Salt Tolerance. Science, 1995, 270, 1660-1663.	12.6	628
14	Structure and transport mechanism of a high-affinity potassium uptake transporter from higher plants. Nature, 1994, 370, 655-658.	27.8	603
15	Early abscisic acid signal transduction mechanisms: newly discovered components and newly emerging questions. Genes and Development, 2010, 24, 1695-1708.	5.9	592
16	Cytosolic calcium regulates ion channels in the plasma membrane of Vicia faba guard cells. Nature, 1989, 338, 427-430.	27.8	586
17	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
18	Tolerance to toxic metals by a gene family of phytochelatin synthases from plants and yeast. EMBO Journal, 1999, 18, 3325-3333.	7.8	568

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19	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
20	A defined range of guard cell calcium oscillation parameters encodes stomatal movements. Nature, 2001, 411, 1053-1057.	27.8	531
21	Abscisic Acid Activation of Plasma Membrane Ca²⁺ Channels in Guard Cells Requires Cytosolic NAD(P)H and Is Differentially Disrupted Upstream and Downstream of Reactive Oxygen Species Production in <i>abi1-1</i> and <i>abi2-1</i> Protein Phosphatase 2C Mutants. Plant Cell, 2001, 13, 2513-2523.	6.6	530
22	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
23	Microarray Expression Analyses of Arabidopsis Guard Cells and Isolation of a Recessive Abscisic Acid Hypersensitive Protein Phosphatase 2C Mutant[W]. Plant Cell, 2004, 16, 596-615.	6.6	508
24	Alteration of Stimulus-Specific Guard Cell Calcium Oscillations and Stomatal Closing in Arabidopsis det3 Mutant. Science, 2000, 289, 2338-2342.	12.6	467
25	Structural Mechanism of Abscisic Acid Binding and Signaling by Dimeric PYR1. Science, 2009, 326, 1373-1379.	12.6	457
26	Expression of an inward-rectifying potassium channel by the Arabidopsis KAT1 cDNA. Science, 1992, 258, 1654-1658.	12.6	452
27	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
28	The Potassium Transporter AtHAK5 Functions in K+ Deprivation-Induced High-Affinity K+ Uptake and AKT1 K+ Channel Contribution to K+ Uptake Kinetics in Arabidopsis Roots. Plant Physiology, 2005, 137, 1105-1114.	4.8	449
29	The Arabidopsis HKT1 Gene Homolog Mediates Inward Na+ Currents in Xenopus laevis Oocytes and Na+ Uptake in Saccharomyces cerevisiae. Plant Physiology, 2000, 122, 1249-1260.	4.8	445
30	Using membrane transporters to improve crops for sustainable food production. Nature, 2013, 497, 60-66.	27.8	440
31	Mechanisms of abscisic acid-mediated control of stomatal aperture. Current Opinion in Plant Biology, 2015, 28, 154-162.	7.1	438
32	AtNRAMP3, a multispecific vacuolar metal transporter involved in plant responses to iron deficiency. Plant Journal, 2003, 34, 685-695.	5.7	433
33	HKT transporter-mediated salinity resistance mechanisms in Arabidopsis and monocot crop plants. Trends in Plant Science, 2009, 14, 660-668.	8.8	433
34	Evolution of Abscisic Acid Synthesis and Signaling Mechanisms. Current Biology, 2011, 21, R346-R355.	3.9	425
35	Voltage dependence of K+ channels in guard-cell protoplasts. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 4108-4112.	7.1	421
36	An mRNA Cap Binding Protein, ABH1, Modulates Early Abscisic Acid Signal Transduction in Arabidopsis. Cell, 2001, 106, 477-487.	28.9	414

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37	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
38	Genomic scale profiling of nutrient and trace elements in Arabidopsis thaliana. Nature Biotechnology, 2003, 21, 1215-1221.	17.5	407
39	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
40	Blue light activates electrogenic ion pumping in guard cell protoplasts of Vicia faba. Nature, 1985, 318, 285-287.	27.8	389
41	Repetitive increases in cytosolic Ca2+ of guard cells by abscisic acid activation of nonselective Ca2+ permeable channels.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 9305-9309.	7.1	381
42	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
43	Reactive Oxygen Species Activation of Plant Ca2+ Channels. A Signaling Mechanism in Polar Growth, Hormone Transduction, Stress Signaling, and Hypothetically Mechanotransduction: Figure 1.. Plant Physiology, 2004, 135, 702-708.	4.8	364
44	Carbonic anhydrases are upstream regulators of CO2-controlled stomatal movements in guard cells. Nature Cell Biology, 2010, 12, 87-93.	10.3	364
45	Altered shoot/root Na+ distribution and bifurcating salt sensitivity in Arabidopsis by genetic disruption of the Na+ transporter AtHKT1. FEBS Letters, 2002, 531, 157-161.	2.8	336
46	Plant Ion Channels: Gene Families, Physiology, and Functional Genomics Analyses. Annual Review of Physiology, 2009, 71, 59-82.	13.1	335
47	Role of Farnesyltransferase in ABA Regulation of Guard Cell Anion Channels and Plant Water Loss. , 1998, 282, 287-290.		334
48	Rice OsHKT2;1 transporter mediates large Na+ influx component into K+-starved roots for growth. EMBO Journal, 2007, 26, 3003-3014.	7.8	333
49	Cameleon calcium indicator reports cytoplasmic calcium dynamics in Arabidopsis guard cells. Plant Journal, 1999, 19, 735-747.	5.7	332
50	The Role of Reactive Oxygen Species in Hormonal Responses. Plant Physiology, 2006, 141, 323-329.	4.8	330
51	Nomenclature for HKT transporters, key determinants of plant salinity tolerance. Trends in Plant Science, 2006, 11, 372-374.	8.8	329
52	Perspectives on the Physiology and Structure of Inward-Rectifying K+ Channels in Higher Plants: Biophysical Implications for K Uptake. Annual Review of Biophysics and Biomolecular Structure, 1994, 23, 441-471.	18.3	326
53	A gene family of silicon transporters. Nature, 1997, 385, 688-689.	27.8	319
54	Long-distance root-to-shoot transport of phytochelatins and cadmium in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10118-10123.	7.1	319

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55	AtKUP1: An Arabidopsis Gene Encoding High-Affinity Potassium Transport Activity. Plant Cell, 1998, 10, 51-62.	6.6	314
56	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
57	Isolation of a strong Arabidopsis guard cell promoter and its potential as a research tool. Plant Methods, 2008, 4, 6.	4.3	295
58	Potassium-selective single channels in guard cell protoplasts of Vicia faba. Nature, 1984, 312, 361-362.	27.8	288
59	Arabidopsis abi1-1 and abi2-1 Phosphatase Mutations Reduce Abscisic Acidâ€“Induced Cytoplasmic Calcium Rises in Guard Cells. Plant Cell, 1999, 11, 1785-1798.	6.6	286
60	Arabidopsis SOMATIC EMBRYOGENESIS RECEPTOR KINASES1 and 2 Are Essential for Tapetum Development and Microspore Maturation. Plant Cell, 2005, 17, 3350-3361.	6.6	283
61	Plant hormone regulation of abiotic stress responses. Nature Reviews Molecular Cell Biology, 2022, 23, 680-694.	37.0	279
62	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
63	Overexpression of Phytochelatin Synthase in Arabidopsis Leads to Enhanced Arsenic Tolerance and Cadmium Hypersensitivity. Plant and Cell Physiology, 2004, 45, 1787-1797.	3.1	265
64	Arabidopsis HT1 kinase controls stomatal movements in response to CO2. Nature Cell Biology, 2006, 8, 391-397.	10.3	261
65	The plant cDNA LCT1 mediates the uptake of calcium and cadmium in yeast. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 12043-12048.	7.1	259
66	Glycine residues in potassium channel-like selectivity filters determine potassium selectivity in four-loop-per-subunit HKT transporters from plants. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6428-6433.	7.1	257
67	Regulation of Drought Tolerance by the F-Box Protein MAX2 in Arabidopsis. Plant Physiology, 2014, 164, 424-439.	4.8	254
68	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
69	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
70	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
71	K+ transport properties of K+ channels in the plasma membrane of Vicia faba guard cells.. Journal of General Physiology, 1988, 92, 667-683.	1.9	245
72	CO2 Sensing and CO2 Regulation of Stomatal Conductance: Advances and Open Questions. Trends in Plant Science, 2016, 21, 16-30.	8.8	244

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73	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
74	Alkali cation selectivity of the wheat root high-affinity potassium transporter HKT1. Plant Journal, 1996, 10, 869-882.	5.7	240
75	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
76	Calcium-Activated K + Channels and Calcium-Induced Calcium Release by Slow Vacuolar Ion Channels in Guard Cell Vacuoles Implicated in the Control of Stomatal Closure. Plant Cell, 1994, 6, 669.	6.6	225
77	Convergence of Calcium Signaling Pathways of Pathogenic Elicitors and Abscisic Acid in Arabidopsis Guard Cells Â. Plant Physiology, 2002, 130, 2152-2163.	4.8	222
78	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
79	Signaling mechanisms in abscisic acidâ€mediated stomatal closure. Plant Journal, 2021, 105, 307-321.	5.7	214
80	Involvement of ion channels and active transport in osmoregulation and signaling of higher plant cells. Trends in Biochemical Sciences, 1989, 14, 187-192.	7.5	213
81	FRET-based reporters for the direct visualization of abscisic acid concentration changes and distribution in Arabidopsis. ELife, 2014, 3, e01739.	6.0	213
82	Border Controlâ€”A Membrane-Linked Interactome of <i>Arabidopsis</i>. Science, 2014, 344, 711-716.	12.6	213
83	H2O2 in plant peroxisomes: an in vivo analysis uncovers a Ca2+-dependent scavenging system. Plant Journal, 2010, 62, 760-772.	5.7	211
84	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
85	Sodium Transporters in Plants. Diverse Genes and Physiological Functions. Plant Physiology, 2004, 136, 2457-2462.	4.8	199
86	Roles of Higher Plant K+ Channels. Plant Physiology, 1997, 114, 1141-1149.	4.8	197
87	Strong regulation of slow anion channels and abscisic acid signaling in guard cells by phosphorylation and dephosphorylation events.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 9535-9539.	7.1	196
88	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
89	Disruption of a Guard Cellâ€“Expressed Protein Phosphatase 2A Regulatory Subunit, RCN1, Confers Abscisic Acid Insensitivity in Arabidopsis. Plant Cell, 2002, 14, 2849-2861.	6.6	192
90	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

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91	Electrical measurements on endomembranes. Science, 1992, 258, 873-874.	12.6	189
92	Carbonic anhydrases, EPF2 and a novel protease mediate CO2 control of stomatal development. Nature, 2014, 513, 246-250.	27.8	189
93	Phosphatidylinositol 3- and 4-Phosphate Are Required for Normal Stomatal Movements. Plant Cell, 2002, 14, 2399-2412.	6.6	186
94	Proteins for Transport of Water and Mineral Nutrients across the Membranes of Plant Cells. Plant Cell, 1999, 11, 661-675.	6.6	178
95	Molecular and functional characterization of a novel low-affinity cation transporter (LCT1) in higher plants. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 11079-11084.	7.1	177
96	The Identity of Plant Glutamate Receptors. Science, 2001, 292, 1486b-1487.	12.6	175
97	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
98	Dominant Negative Guard Cell K+ Channel Mutants Reduce Inward-Rectifying K+ Currents and Light-Induced Stomatal Opening in Arabidopsis. Plant Physiology, 2001, 127, 473-485.	4.8	173
99	Calcium specificity signaling mechanisms in abscisic acid signal transduction in Arabidopsis guard cells. ELife, 2015, 4, .	6.0	172
100	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
101	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
102	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
103	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
104	Chemical Genetics Reveals Negative Regulation of Abscisic Acid Signaling by a Plant Immune Response Pathway. Current Biology, 2011, 21, 990-997.	3.9	152
105	Molecular mechanisms of potassium and sodium uptake in plants. Plant and Soil, 2002, 247, 43-54.	3.7	151
106	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
107	Plasma Membraneâ€“Associated ROP10 Small GTPase Is a Specific Negative Regulator of Abscisic Acid Responses in Arabidopsis. Plant Cell, 2002, 14, 2787-2797.	6.6	146
108	Multiple Genes, Tissue Specificity, and Expression-Dependent Modulation Contribute to the Functional Diversity of Potassium Channels in Arabidopsis thaliana. Plant Physiology, 1995, 109, 1093-1106.	4.8	145

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109	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
110	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
111	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
112	Control of seed dormancy and germination by DOG1-AHG1 PP2C phosphatase complex via binding to heme. Nature Communications, 2018, 9, 2132.	12.8	138
113	Enhancement of Na+ Uptake Currents, Time-Dependent Inward-Rectifying K+ Channel Currents, and K+Channel Transcripts by K+ Starvation in Wheat Root Cells. Plant Physiology, 2000, 122, 1387-1398.	4.8	136
114	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
115	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
116	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
117	Inward-rectifying K+ channels in guard cells provide a mechanism for low-affinity K+ uptake.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 11583-11587.	7.1	132
118	Rapid Up-Regulation of HKT1, a High-Affinity Potassium Transporter Gene, in Roots of Barley and Wheat following Withdrawal of Potassium. Plant Physiology, 1998, 118, 651-659.	4.8	131
119	A membrane protein / signaling protein interaction network for Arabidopsis version AMPv2. Frontiers in Physiology, 2010, 1, 24.	2.8	131
120	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
121	Caenorhabditis elegansexpresses a functional phytochelatin synthase. FEBS Journal, 2001, 268, 3640-3643.	0.2	128
122	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
123	A Dof Transcription Factor, SCAP1, Is Essential for the Development of Functional Stomata in Arabidopsis. Current Biology, 2013, 23, 479-484.	3.9	125
124	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
125	General Mechanisms for Solute Transport Across the Tonoplast of Plant Vacuoles: a Patchâ€Clamp Survey of Ion Channels and Proton Pumps. Botanica Acta, 1988, 101, 7-13.	1.6	116
126	The Peroxin Loss-of-Function Mutation abstinence by mutual consent Disrupts Male-Female Gametophyte Recognition. Current Biology, 2008, 18, 63-68.	3.9	116

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127	Genetic Selection of Mutations in the High Affinity K+ Transporter HKT1 That Define Functions of a Loop Site for Reduced Na+ Permeability and Increased Na+Tolerance. Journal of Biological Chemistry, 1999, 274, 6839-6847.	3.4	113
128	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
129	SnapShot: Abscisic Acid Signaling. Cell, 2017, 171, 1708-1708.e0.	28.9	109
130	Hypersensitivity of Abscisic Acidâ€"Induced Cytosolic Calcium Increases in the Arabidopsis Farnesyltransferase Mutant era1-2. Plant Cell, 2002, 14, 1649-1662.	6.6	105
131	Identification of Strong Modifications in Cation Selectivity in an Arabidopsis Inward Rectifying Potassium Channel by Mutant Selection in Yeast. Journal of Biological Chemistry, 1995, 270, 24276-24281.	3.4	102
132	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
133	Magnesium Sensitizes Slow Vacuolar Channels to Physiological Cytosolic Calcium and Inhibits Fast Vacuolar Channels in Fava Bean Guard Cell Vacuoles. Plant Physiology, 1999, 121, 977-986.	4.8	98
134	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
135	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
136	Exploring Biophysical and Biochemical Components of the Osmotic Motor that Drives Stomatal Movement*. Botanica Acta, 1988, 101, 283-294.	1.6	88
137	Effects of cytosolic calcium and limited, possible dual, effects of G protein modulators on guard cell inward potassium channels. Plant Journal, 1995, 8, 479-489.	5.7	87
138	Determination of transmembrane topology of an inward-rectifying potassium channel from Arabidopsis thaliana based on functional expression in Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9773-9778.	7.1	87
139	Tonoplast-localized Abc2 Transporter Mediates Phytochelatin Accumulation in Vacuoles and Confers Cadmium Tolerance. Journal of Biological Chemistry, 2010, 285, 40416-40426.	3.4	87
140	Insights into the Molecular Mechanisms ofÂCO2-Mediated Regulation of Stomatal Movements. Current Biology, 2018, 28, R1356-R1363.	3.9	85
141	Anion channels as central mechanisms for signal transduction in guard cells and putative functions in roots for plant-soil interactions. Plant Molecular Biology, 1995, 28, 353-361.	3.9	84
142	Differential Abscisic Acid Regulation of Guard Cell Slow Anion Channels in Arabidopsis Wild-Type and abi1 and abi2 Mutants. Plant Cell, 1997, 9, 409.	6.6	84
143	A hypermorphic mutation in the protein phosphatase 2C HAB1 strongly affects ABA signaling inArabidopsis. FEBS Letters, 2006, 580, 4691-4696.	2.8	84
144	Impacts of altered RNA metabolism on abscisic acid signaling. Current Opinion in Plant Biology, 2003, 6, 463-469.	7.1	83

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145	Microarray-based rapid cloning of an ion accumulation deletion mutant in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15404-15409.	7.1	83
146	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
147	Localization, Ion Channel Regulation, and Genetic Interactions during Abscisic Acid Signaling of the Nuclear mRNA Cap-Binding Protein, ABH1. Plant Physiology, 2002, 130, 1276-1287.	4.8	82
148	Quantitative analysis of outward rectifying K+ channel currents in guard cell protoplasts fromVicia faba. Journal of Membrane Biology, 1989, 107, 229-235.	2.1	81
149	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
150	Calcium Regulation of Sodium Hypersensitivities of sos3 and athkt1 Mutants. Plant and Cell Physiology, 2006, 47, 622-633.	3.1	80
151	Distinct Cellular Locations of Carbonic Anhydrases Mediate Carbon Dioxide Control of Stomatal Movements. Plant Physiology, 2015, 169, 1168-1178.	4.8	78
152	Enhancing the first enzymatic step in the histidine biosynthesis pathway increases the free histidine pool and nickel tolerance inArabidopsis thaliana. FEBS Letters, 2004, 578, 128-134.	2.8	74
153	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
154	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
155	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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