Michael R Blatt

List of Publications by Year
in descending order

214 papers	15,369 citations	8732 75 h-index	20900 115 g-index
220 all docs	220 docs citations	220 times ranked	9267 citing authors

#	Article	IF	Citations
1	What can mechanistic models tell us about guard cells, photosynthesis, and water use efficiency?. Trends in Plant Science, 2022, 27, 166-179.	4.3	18
2	Stomata under salt stressâ€”What can mechanistic modeling tell us?. Advances in Botanical Research, 2022, , .	0.5	1
3	<i>Plant Physiology</i> welcomes 13 new Assistant Features Editors. Plant Physiology, 2022, 188, 919-920.	2.3	1
4	Unidirectional versus bidirectional brushing: Simulating wind influence on <i>Arabidopsis thaliana</i>. Quantitative Plant Biology, 2022, 3, .	0.8	2
5	Evolution of rapid blueâ€light response linked to explosive diversification of ferns in angiosperm forests. New Phytologist, 2021, 230, 1201-1213.	3.5	33
6	Wind-evoked anemotropism affects the morphology and mechanical properties of Arabidopsis. Journal of Experimental Botany, 2021, 72, 1906-1918.	2.4	9
7	Debunking a myth: plant consciousness. Protoplasma, 2021, 258, 459-476.	1.0	35
8	Membrane voltage as a dynamic platform for spatiotemporal signaling, physiological, and developmental regulation. Plant Physiology, 2021, 185, 1523-1541.	2.3	24
9	Dynamic membranesâ€”the indispensable platform for plant growth, signaling, and development. Plant Physiology, 2021, 185, 547-549.	2.3	8
10	Challenging research. Plant Physiology, 2021, 186, 802-803.	2.3	0
11	Integrated information theory does not make plant consciousness more convincing. Biochemical and Biophysical Research Communications, 2021, 564, 166-169.	1.0	7
12	Guard cell endomembrane Ca2+-ATPases underpin a â€˜carbon memoryâ€™ of photosynthetic assimilation that impacts on water-use efficiency. Nature Plants, 2021, 7, 1301-1313.	4.7	28
13	Liposome-based measurement of light-driven chloride transport kinetics of halorhodopsin. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183637.	1.4	4
14	Understanding plant behavior: a student perspective: response to Van Volkenburgh et al.. Trends in Plant Science, 2021, 26, 1089-1090.	4.3	2
15	Plant Physiology is recruiting Assistant Features Editors for 2022. Plant Physiology, 2021, 187, 31-31.	2.3	1
16	OUP accepted manuscript. Plant Physiology, 2021, 187, 2341-2343.	2.3	0
17	<i>Plant Physiology</i> welcomes 16 new Assistant Features Editors. Plant Physiology, 2021, 185, 278-279.	2.3	0
18	ASPB welcomes Oxford University Press. Plant Cell, 2021, 33, 1.	3.1	4

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19	SAUR proteins and PP2C.D phosphatases regulate H+-ATPases and K+ channels to control stomatal movements. Plant Physiology, 2021, 185, 256-273.	2.3	35
20	ASPB welcomes Oxford University Press. Plant Physiology, 2021, 185, 15.	2.3	0
21	OUP accepted manuscript. Plant Physiology, 2021, , .	2.3	0
22	ASPB welcomes Oxford University Press. Plant Physiology, 2021, 185, 15-15.	2.3	0
23	Plant Physiology Is Recruiting Assistant Features Editors for 2021. Plant Physiology, 2020, 184, 3-3.	2.3	0
24	A new perspective on mechanical characterisation of Arabidopsis stems through vibration tests. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 112, 104041.	1.5	5
25	Synergy among Exocyst and SNARE Interactions Identifies a Functional Hierarchy in Secretion during Vegetative Growth. Plant Cell, 2020, 32, 2951-2963.	3.1	19
26	Portability at a Keystroke. Plant Physiology, 2020, 183, 1407-1407.	2.3	0
27	Portability at a Keystroke. Plant Cell, 2020, 32, 2445-2445.	3.1	0
28	Guard Cell Starch Degradation Yields Glucose for Rapid Stomatal Opening in Arabidopsis. Plant Cell, 2020, 32, 2325-2344.	3.1	62
29	Crassulacean acid metabolism guard cell anion channel activity follows transcript abundance and is suppressed by apoplastic malate. New Phytologist, 2020, 227, 1847-1857.	3.5	6
30	Journal Flexibility in the Troubling Times of COVID-19. Plant Physiology, 2020, 182, 1795-1795.	2.3	0
31	Journal Flexibility in the Troubling Times of COVID-19. Plant Cell, 2020, 32, 1337-1337.	3.1	0
32	<i>Plant Physiology</i> Welcomes 26 New Assistant Features Editors. Plant Physiology, 2020, 182, 447-448.	2.3	0
33	Communication between the Plasma Membrane and Tonoplast Is an Emergent Property of Ion Transport. Plant Physiology, 2020, 182, 1833-1835.	2.3	21
34	Predicting the unexpected in stomatal gas exchange: not just an open-and-shut case. Biochemical Society Transactions, 2020, 48, 881-889.	1.6	3
35	A FRET method for investigating dimer/monomer status and conformation of the UVR8 photoreceptor. Photochemical and Photobiological Sciences, 2019, 18, 367-374.	1.6	8
36	A constraintâ€“relaxationâ€“recovery mechanism for stomatal dynamics. Plant, Cell and Environment, 2019, 42, 2399-2410.	2.8	23

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37	Optogenetic manipulation of stomatal kinetics improves carbon assimilation, water use, and growth. Science, 2019, 363, 1456-1459.	6.0	205
38	Dual Sites for SEC11 on the SNARE SYP121 Implicate a Binding Exchange during Secretory Traffic. Plant Physiology, 2019, 180, 228-239.	2.3	14
39	Evolution of chloroplast retrograde signaling facilitates green plant adaptation to land. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5015-5020.	3.3	138
40	<i>Plant Physiology</i> Is Recruiting Assistant Features Editors. Plant Physiology, 2019, 180, 1776-1776.	2.3	0
41	K⁺ Channel-SEC11 Binding Exchange Regulates SNARE Assembly for Secretory Traffic. Plant Physiology, 2019, 181, 1096-1113.	2.3	16
42	Computational modelling predicts substantial carbon assimilation gains for C3 plants with a single-celled C4 biochemical pump. PLoS Computational Biology, 2019, 15, e1007373.	1.5	6
43	<i>Plant Physiology</i> Launches Associate Features Editors. Plant Physiology, 2018, 176, 1881-1882.	2.3	0
44	New Faces behind the Scenes. Plant Physiology, 2018, 176, 1883-1883.	2.3	0
45	Stomatal Response to Humidity: Blurring the Boundary between Active and Passive Movement. Plant Physiology, 2018, 176, 485-488.	2.3	35
46	<i>Plant Physiology</i> Introduces New Editorial and News Formats for Reader Contributions and Discussion. Plant Physiology, 2018, 178, 952-952.	2.3	0
47	SNAREs SYP121 and SYP122 Mediate the Secretion of Distinct Cargo Subsets. Plant Physiology, 2018, 178, 1679-1688.	2.3	56
48	Bridging Scales from Protein Function to Whole-Plant Water Relations with the OnGuard Platform. , 2018, , 69-86.		0
49	A GPI Signal Peptide-Anchored Split-Ubiquitin (GPS) System for Detecting Soluble Bait Protein Interactions at the Membrane. Plant Physiology, 2018, 178, 13-17.	2.3	9
50	Gating control and <scp>K⁺</scp> uptake by the <scp>KAT1 K⁺</scp> channel leaveraged through membrane anchoring of the trafficking protein <scp>SYP121</scp>. Plant, Cell and Environment, 2018, 41, 2668-2677.	2.8	21
51	Light-Driven Chloride Transport Kinetics of Halorhodopsin. Biophysical Journal, 2018, 115, 353-360.	0.2	9
52	VAMP721 Conformations Unmask an Extended Motif for K⁺ Channel Binding and Gating Control. Plant Physiology, 2017, 173, 536-551.	2.3	26
53	Evolutionary Conservation of ABA Signaling for Stomatal Closure. Plant Physiology, 2017, 174, 732-747.	2.3	158
54	Temporal Dynamics of Stomatal Behavior: Modeling and Implications for Photosynthesis and Water Use. Plant Physiology, 2017, 174, 603-613.	2.3	118

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55	Global Sensitivity Analysis of OnGuard Models Identifies Key Hubs for Transport Interaction in Stomatal Dynamics. Plant Physiology, 2017, 174, 680-688.	2.3	23
56	Speedy Grass Stomata: Emerging Molecular and Evolutionary Features. Molecular Plant, 2017, 10, 912-914.	3.9	36
57	The Membrane Transport System of the Guard Cell and Its Integration for Stomatal Dynamics. Plant Physiology, 2017, 174, 487-519.	2.3	231
58	Clathrin Heavy Chain Subunits Coordinate Endo- and Exocytic Traffic and Affect Stomatal Movement. Plant Physiology, 2017, 175, 708-720.	2.3	50
59	Unexpected Connections between Humidity and Ion Transport Discovered Using a Model to Bridge Guard Cell-to-Leaf Scales. Plant Cell, 2017, 29, 2921-2939.	3.1	39
60	Commandeering Channel Voltage Sensors for Secretion, Cell Turgor, and Volume Control. Trends in Plant Science, 2017, 22, 81-95.	4.3	47
61	Molecular Evolution of Grass Stomata. Trends in Plant Science, 2017, 22, 124-139.	4.3	202
62	Editorial: Rootsâ€"The Hidden Provider. Frontiers in Plant Science, 2017, 8, 1021.	1.7	11
63	Stomatal clustering in Begonia associates with the kinetics of leaf gaseous exchange and influences water use efficiency. Journal of Experimental Botany, 2017, 68, 2309-2315.	2.4	25
64	Small Pores with a Big Impact. Plant Physiology, 2017, 174, 467-469.	2.3	40
65	When Is Science â€˜Ultimately Unreliableâ€™?. Plant Physiology, 2016, 170, 1171-1173.	2.3	6
66	Does the Anonymous Voice Have a Place in Scholarly Publishing?. Plant Physiology, 2016, 170, 1899-1902.	2.3	14
67	Nitrate reductase mutation alters potassium nutrition as well as nitric oxideâ€mediated control of guard cell ion channels in <i>Arabidopsis</i>. New Phytologist, 2016, 209, 1456-1469.	3.5	93
68	Modelling water use efficiency in a dynamic environment: An example using Arabidopsis thaliana. Plant Science, 2016, 251, 65-74.	1.7	42
69	Stomatal Spacing Safeguards Stomatal Dynamics by Facilitating Guard Cell Ion Transport Independent of the Epidermal Solute Reservoir. Plant Physiology, 2016, 172, 254-263.	2.3	35
70	Plant Physiology 90th Anniversary. Plant Physiology, 2016, 171, 1787-1789.	2.3	0
71	Plant Physiology: Redefining the Enigma of Metabolism in Stomatal Movement. Current Biology, 2016, 26, R107-R109.	1.8	14
72	An Optimal Frequency in Ca²⁺ Oscillations for Stomatal Closure Is an Emergent Property of Ion Transport in Guard Cells. Plant Physiology, 2016, 170, 33-42.	2.3	51

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73	A vesicle-trafficking protein commandeers Kv channel voltage sensors for voltage-dependent secretion. Nature Plants, 2015, 1, 15108.	4.7	53
74	Vigilante Science. Plant Physiology, 2015, 169, 907-909.	2.3	33
75	Binding of SEC11 Indicates Its Role in SNARE Recycling after Vesicle Fusion and Identifies Two Pathways for Vesicular Traffic to the Plasma Membrane. Plant Cell, 2015, 27, 675-694.	3.1	55
76	The Arabidopsis R-SNARE VAMP721 Interacts with KAT1 and KC1 K+ Channels to Moderate K+ Current at the Plasma Membrane. Plant Cell, 2015, 27, 1697-1717.	3.1	84
77	Binary 2in1 Vectors Improve in Planta (Co)localization and Dynamic Protein Interaction Studies. Plant Physiology, 2015, 168, 776-787.	2.3	84
78	Hydrogen Sulfide Regulates Inward-Rectifying K+ Channels in Conjunction with Stomatal Closure Â. Plant Physiology, 2015, 168, 29-35.	2.3	95
79	Emergent Oscillatory Properties in Modelling Ion Transport of Guard Cells. , 2015, , 323-342.		0
80	Systems Analysis of Guard Cell Membrane Transport for Enhanced Stomatal Dynamics and Water Use Efficiency Â Â. Plant Physiology, 2014, 164, 1593-1599.	2.3	57
81	An Arabidopsis Stomatin-Like Protein Affects Mitochondrial Respiratory Supercomplex Organization Â Â Â. Plant Physiology, 2014, 164, 1389-1400.	2.3	31
82	Voltage-Sensor Transitions of the Inward-Rectifying K+ Channel KAT1 Indicate a Latching Mechanism Biased by Hydration within the Voltage Sensor Â Â. Plant Physiology, 2014, 166, 960-975.	2.3	21
83	Plant Physiology and The Plant Cell Go Online Only. Plant Physiology, 2014, 166, 1677-1677.	2.3	0
84	Stomatal Size, Speed, and Responsiveness Impact on Photosynthesis and Water Use Efficiency Â. Plant Physiology, 2014, 164, 1556-1570.	2.3	753
85	Clustering of the <scp>K</scp>⁺ channel <scp>GORK</scp> of <scp>A</scp>rabidopsis parallels its gating by extracellular <scp>K</scp>⁺. Plant Journal, 2014, 78, 203-214.	2.8	45
86	Plant Physiology Sees the Light. Plant Physiology, 2014, 164, 12-12.	2.3	0
87	Focus on Water. Plant Physiology, 2014, 164, 1553-1555.	2.3	9
88	Plant Physiology and The Plant Cell Go Online Only. Plant Cell, 2014, 26, 4561-4561.	3.1	0
89	Applications of Fluorescent Marker Proteins in Plant Cell Biology. Methods in Molecular Biology, 2014, 1062, 487-507.	0.4	31
90	<i>Arabidopsis</i> SNAREs SYP61 and SYP121 Coordinate the Trafficking of Plasma Membrane Aquaporin PIP2;7 to Modulate the Cell Membrane Water Permeability. Plant Cell, 2014, 26, 3132-3147.	3.1	192

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91	Exploring emergent properties in cellular homeostasis using OnGuard to model K+ and other ion transport in guard cells. Journal of Plant Physiology, 2014, 171, 770-778.	1.6	49
92	Manipulation and Misconduct in the Handling of Image Data. Plant Cell, 2013, 25, 3147-3148.	3.1	17
93	The conceptual approach to quantitative modeling of guard cells. Plant Signaling and Behavior, 2013, 8, e22747.	1.2	2
94	<i>Arabidopsis</i>Sec1/Munc18 Protein SEC11 Is a Competitive and Dynamic Modulator of SNARE Binding and SYP121-Dependent Vesicle Traffic Â. Plant Cell, 2013, 25, 1368-1382.	3.1	66
95	Manipulation and Misconduct in the Handling of Image Data. Plant Physiology, 2013, 163, 3-4.	2.3	11
96	Plant Physiology Welcomes Its New Topical Reviews. Plant Physiology, 2013, 162, 1767-1767.	2.3	0
97	PYR/PYL/RCAR Abscisic Acid Receptors Regulate K+ and Clâˆ’ Channels through Reactive Oxygen Species-Mediated Activation of Ca2+ Channels at the Plasma Membrane of Intact Arabidopsis Guard Cells Â Â. Plant Physiology, 2013, 163, 566-577.	2.3	82
98	Associate Editor Graham Farquhar Receives Honors for His Research in Plant Physiology and Climate Change. Plant Physiology, 2013, 162, 1213-1213.	2.3	0
99	<i>Plant Physiology</i> Plugged In. Plant Physiology, 2013, 161, 3-4.	2.3	1
100	Do Calcineurin B-Like Proteins Interact Independently of the Serine Threonine Kinase CIPK23 with the K+ Channel AKT1? Lessons Learned from a MÃ©nage Ã Trois. Plant Physiology, 2012, 159, 915-919.	2.3	46
101	Systems Dynamic Modeling of a Guard Cell Clâˆ’ Channel Mutant Uncovers an Emergent Homeostatic Network Regulating Stomatal Transpiration Â Â. Plant Physiology, 2012, 160, 1956-1967.	2.3	83
102	Systems Dynamic Modeling of the Stomatal Guard Cell Predicts Emergent Behaviors in Transport, Signaling, and Volume Control Â Â. Plant Physiology, 2012, 159, 1235-1251.	2.3	136
103	Selective Regulation of Maize Plasma Membrane Aquaporin Trafficking and Activity by the SNARE SYP121. Plant Cell, 2012, 24, 3463-3481.	3.1	109
104	OnGuard, a Computational Platform for Quantitative Kinetic Modeling of Guard Cell Physiology Â Â. Plant Physiology, 2012, 159, 1026-1042.	2.3	153
105	Studying Plant Salt Tolerance with the Voltage Clamp Technique. , 2012, 913, 19-33.		0
106	Protocol: optimised electrophyiological analysis of intact guard cells from Arabidopsis. Plant Methods, 2012, 8, 15.	1.9	13
107	A 2in1 cloning system enables ratiometric bimolecular fluorescence complementation (rBiFC). BioTechniques, 2012, 53, 311-314.	0.8	178
108	The trafficking protein SYP121 of Arabidopsis connects programmed stomatal closure and K⁺ channel activity with vegetative growth. Plant Journal, 2012, 69, 241-251.	2.8	115

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109	Anion channel sensitivity to cytosolic organic acids implicates a central role for oxaloacetate in integrating ion flux with metabolism in stomatal guard cells. Biochemical Journal, 2011, 439, 161-170.	1.7	40
110	A bicistronic, <i>Ubiquitinâ€10</i> promoterâ€based vector cassette for transient transformation and functional analysis of membrane transport demonstrates the utility of quantitative voltage clamp studies on intact <i>Arabidopsis</i> root epidermis. Plant, Cell and Environment, 2011, 34, 554-564.	2.8	12
111	A fast brassinolideâ€regulated response pathway in the plasma membrane of <i>Arabidopsis thaliana</i>. Plant Journal, 2011, 66, 528-540.	2.8	102
112	Ion transport, membrane traffic and cellular volume control. Current Opinion in Plant Biology, 2011, 14, 332-339.	3.5	29
113	A molecular framework for coupling cellular volume and osmotic solute transport control. Journal of Experimental Botany, 2011, 62, 2363-2370.	2.4	35
114	Dynamic regulation of guard cell anion channels by cytosolic free Ca²⁺concentration and protein phosphorylation. Plant Journal, 2010, 61, 816-825.	2.8	115
115	A ubiquitin-10 promoter-based vector set for fluorescent protein tagging facilitates temporal stability and native protein distribution in transient and stable expression studies. Plant Journal, 2010, 64, 355-365.	2.8	499
116	A Novel Motif Essential for SNARE Interaction with the K+ Channel KC1 and Channel Gating in<i>Arabidopsis</i>Â. Plant Cell, 2010, 22, 3076-3092.	3.1	119
117	A Minimal Cysteine Motif Required to Activate the SKOR K+ Channel of Arabidopsis by the Reactive Oxygen Species H2O2*. Journal of Biological Chemistry, 2010, 285, 29286-29294.	1.6	111
118	Distributed Structures Underlie Gating Differences between the Kin Channel KAT1 and the Kout Channel SKOR. Molecular Plant, 2010, 3, 236-245.	3.9	20
119	A Tripartite SNARE-K+ Channel Complex Mediates in Channel-Dependent K+ Nutrition in<i>Arabidopsis</i>Â. Plant Cell, 2009, 21, 2859-2877.	3.1	156
120	Systems analysis of membrane transport and homeostasis in stomatal guard cells. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S188-S189.	0.8	0
121	The role of membrane and Ion channel trafficking in stomatal stress responses. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S193.	0.8	0
122	EZâ€R<scp>hizo</scp>: integrated software for the fast and accurate measurement of root system architecture. Plant Journal, 2009, 57, 945-956.	2.8	228
123	Regulation of macronutrient transport. New Phytologist, 2009, 181, 35-52.	3.5	176
124	Distinct roles of the last transmembrane domain in controlling <i>Arabidopsis </i>K⁺ channel activity. New Phytologist, 2009, 182, 380-391.	3.5	38
125	What makes a gate? The ins and outs of Kv-like K+ channels in plants. Trends in Plant Science, 2009, 14, 383-390.	4.3	98
126	SNAREsâ€”molecular governors in signalling and development. Current Opinion in Plant Biology, 2008, 11, 600-609.	3.5	49

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127	SNAREs: Cogs and Coordinators in Signaling and Development. Plant Physiology, 2008, 147, 1504-1515.	2.3	90
128	Functional Interaction of the SNARE Protein NtSyp121 in Ca2+ Channel Gating, Ca2+ Transients and ABA Signalling of Stomatal Guard Cells. Molecular Plant, 2008, 1, 347-358.	3.9	49
129	Plant neurobiology: no brain, no gain?. Trends in Plant Science, 2007, 12, 135-136.	4.3	146
130	Membrane Transport and Ca2+ Oscillations in Guard Cells. , 2007, , 115-133.		12
131	A generalized method for transfecting root epidermis uncovers endosomal dynamics in Arabidopsis root hairs. Plant Journal, 2007, 51, 322-330.	2.8	27
132	Selective targeting of plasma membrane and tonoplast traffic by inhibitory (dominantâ€negative) SNARE fragments. Plant Journal, 2007, 51, 1099-1115.	2.8	77
133	Abscisic Acid Triggers the Endocytosis of the Arabidopsis KAT1 K+ Channel and Its Recycling to the Plasma Membrane. Current Biology, 2007, 17, 1396-1402.	1.8	184
134	Mitochondrial sequestration of BCECF after ester loading in the giant alga Chara australis. Protoplasma, 2007, 232, 131-136.	1.0	5
135	Membrane trafficking and polar growth in root hairs and pollen tubes. Journal of Experimental Botany, 2006, 58, 65-74.	2.4	139
136	Interactive domains between pore loops of the yeast K+ channel TOK1 associate with extracellular K+ sensitivity. Biochemical Journal, 2006, 393, 645-655.	1.7	10
137	Setting SNAREs in a Different Wood. Traffic, 2006, 7, 627-638.	1.3	66
138	External K+modulates the activity of the Arabidopsis potassium channel SKOR via an unusual mechanism. Plant Journal, 2006, 46, 269-281.	2.8	138
139	Selective Mobility and Sensitivity to SNAREs Is Exhibited by the Arabidopsis KAT1 K+ Channel at the Plasma Membrane. Plant Cell, 2006, 18, 935-954.	3.1	169
140	Nitric Oxide and Plant Ion Channel Control. , 2006, , 153-171.		12
141	Protein phosphorylation is a prerequisite for intracellular Ca2+ release and ion channel control by nitric oxide and abscisic acid in guard cells. Plant Journal, 2005, 43, 520-529.	2.8	142
142	Nitric Oxide Block of Outward-Rectifying K+ Channels Indicates Direct Control by Protein Nitrosylation in Guard Cells. Plant Physiology, 2004, 136, 4275-4284.	2.3	131
143	A new catch in the SNARE. Trends in Plant Science, 2004, 9, 187-195.	4.3	106
144	Nitric oxide regulates K+ and Cl- channels in guard cells through a subset of abscisic acid-evoked signaling pathways. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11116-11121.	3.3	371

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145	Control of Guard Cell Ion Channels by Hydrogen Peroxide and Abscisic Acid Indicates Their Action through Alternate Signaling Pathways. Plant Physiology, 2003, 131, 385-388.	2.3	144
146	The Abscisic Acidâ€“Related SNARE Homolog NtSyr1 Contributes to Secretion and Growth. Plant Cell, 2002, 14, 387-406.	3.1	148
147	Toward understanding vesicle traffic and the guard cell model. New Phytologist, 2002, 153, 405-413.	3.5	12
148	A role for the vacuole in auxin-mediated control of cytosolic pH by Vicia mesophyll and guard cells. Plant Journal, 2002, 13, 109-116.	2.8	34
149	Protein phosphorylation activates the guard cell Ca2+channel and is a prerequisite for gating by abscisic acid. Plant Journal, 2002, 32, 185-194.	2.8	111
150	Extracellular Ba2+ and voltage interact to gate Ca2+ channels at the plasma membrane of stomatal guard cells. FEBS Letters, 2001, 491, 99-103.	1.3	31
151	Protein-binding partners of the tobacco syntaxin NtSyr1. FEBS Letters, 2001, 508, 253-258.	1.3	47
152	Early signalling events in the Avr9/Cf-9-dependent plant defence response. Molecular Plant Pathology, 2000, 1, 3-8.	2.0	12
153	Localization and control of expression of Nt-Syr1, a tobacco snare protein. Plant Journal, 2000, 24, 369-382.	2.8	79
154	Overexpression of Auxin-Binding Protein Enhances the Sensitivity of Guard Cells to Auxin. Plant Physiology, 2000, 124, 1229-1238.	2.3	100
155	Ca2+ channels at the plasma membrane of stomatal guard cells are activated by hyperpolarization and abscisic acid. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4967-4972.	3.3	342
156	Functional conservation between yeast and plant endosomal Na+/H+antiporters1. FEBS Letters, 2000, 471, 224-228.	1.3	160
157	Cellular Signaling and Volume Control in Stomatal Movements in Plants. Annual Review of Cell and Developmental Biology, 2000, 16, 221-241.	4.0	345
158	Ca(2+) signalling and control of guard-cell volume in stomatal movements. Current Opinion in Plant Biology, 2000, 3, 196-204.	3.5	36
159	A Steep Dependence of Inward-Rectifying Potassium Channels on Cytosolic Free Calcium Concentration Increase Evoked by Hyperpolarization in Guard Cells1. Plant Physiology, 1999, 119, 277-288.	2.3	148
160	Tansley Review No. 108. New Phytologist, 1999, 144, 389-418.	3.5	36
161	K+ channels of Cf-9 transgenic tobacco guard cells as targets for Cladosporium fulvum Avr9 elicitor-dependent signal transduction. Plant Journal, 1999, 19, 453-462.	2.8	79
162	Millisecond UV-B irradiation evokes prolonged elevation of cytosolic-free Ca2+ and stimulates gene expression in transgenic parsley cell cultures. Plant Journal, 1999, 20, 109-117.	2.8	104

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163	A Tobacco Syntaxin with a Role in Hormonal Control of Guard Cell Ion Channels. Science, 1999, 283, 537-540.	6.0	223
164	Mutations in the yeast two pore K+channel YKC1 identify functional differences between the pore domains. FEBS Letters, 1999, 458, 285-291.	1.3	6
165	Mutations in the pore regions of the yeast K+ channel YKC1 affect gating by extracellular K+. EMBO Journal, 1998, 17, 7190-7198.	3.5	26
166	Membrane voltage initiates Ca2+ waves and potentiates Ca2+ increases with abscisic acid in stomatal guard cells. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 4778-4783.	3.3	244
167	Signal redundancy, gates and integration in the control of ion channels for stomatal movement. Journal of Experimental Botany, 1997, 48, 529-537.	2.4	37
168	Extracellular K+ and Ba2+ mediate voltage-dependent inactivation of the outward-rectifying K+ channel encoded by the yeast gene TOK1. FEBS Letters, 1997, 405, 337-344.	1.3	34
169	A new family of K+transporters fromArabidopsisthat are conserved across phyla. FEBS Letters, 1997, 415, 206-211.	1.3	153
170	Expression, evolution and genomic complexity of potassium ion channel genes of Arabidopsis thaliana. Journal of Plant Physiology, 1997, 150, 652-660.	1.6	15
171	Signalling gates in abscisic acid-mediated control of guard cell ion channels. Physiologia Plantarum, 1997, 100, 481-490.	2.6	58
172	The effect of elevated CO 2 concentrations on K + and anion channels of Vicia faba L. guard cells. Planta, 1997, 203, 145-154.	1.6	91
173	K + -Sensitive Gating of the K + Outward Rectifier in Vicia Guard Cells. Journal of Membrane Biology, 1997, 158, 241-256.	1.0	77
174	High-Affinity NO â˜ 3 -H + Cotransport in the Fungus Neurospora: Induction and Control by pH and Membrane Voltage. Journal of Membrane Biology, 1997, 160, 59-76.	1.0	21
175	Parallel control of the inward-rectifier K+ channel by cytosolic free Ca2+ and pH inVicia guard cells. Planta, 1997, 201, 84-95.	1.6	164
176	Alteration of anion channel kinetics in wild-type and abi1-1 transgenic Nicotiana benthamiana guard cells by abscisic acid. Plant Journal, 1997, 12, 203-213.	2.8	111
177	Signalling gates in abscisic acid-mediated control of guard cell ion channels. Physiologia Plantarum, 1997, 100, 481-490.	2.6	1
178	Sensitivity to abscisic acid of guard-cell K+ channels is suppressed by abi1-1, a mutant Arabidopsis gene encoding a putative protein phosphatase.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 9520-9524.	3.3	212
179	Evidence for K+ channel control in Vicia guard cells coupled by G-proteins to a 7TMS receptor mimetic. Plant Journal, 1995, 8, 187-198.	2.8	77
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