Michael R Blatt

List of Publications by Year in Descending Order

192 papers	12,636 citations	72 h-index	107 g-index
220 ext. papers	14,498 ext. citations	7.1 avg, IF	6.84 L-index

#	Paper	IF	Citations
192	ASPB welcomes Oxford University Press. *Plant Physiology*, **2021**, 185, 15-15	6.6	
191	SAUR proteins and PP2C.D phosphatases regulate H+-ATPases and K+ channels to control stomatal movements. *Plant Physiology*, **2021**, 185, 256-273	6.6	8
190	Ae Fond Fareweel1. *Plant Physiology*, **2021**, 187, 2341-2343	6.6	
189	Plant Physiology welcomes 16 new Assistant Features Editors. *Plant Physiology*, **2021**, 185, 278-279	6.6	
188	Challenging research. *Plant Physiology*, **2021**, 186, 802-803	6.6	
187	Integrated information theory does not make plant consciousness more convincing. *Biochemical and Biophysical Research Communications*, **2021**, 564, 166-169	3.4	4
186	Guard cell endomembrane Ca-ATPases underpin a 'carbon memory' of photosynthetic assimilation that impacts on water-use efficiency. *Nature Plants*, **2021**, 7, 1301-1313	11.5	6
185	Evolution of rapid blue-light response linked to explosive diversification of ferns in angiosperm forests. *New Phytologist*, **2021**, 230, 1201-1213	9.8	14
184	Wind-evoked anemotropism affects the morphology and mechanical properties of Arabidopsis. *Journal of Experimental Botany*, **2021**, 72, 1906-1918	7	3
183	Debunking a myth: plant consciousness. *Protoplasma*, **2021**, 258, 459-476	3.4	19
182	Membrane voltage as a dynamic platform for spatiotemporal signaling, physiological, and developmental regulation. *Plant Physiology*, **2021**, 185, 1523-1541	6.6	9
181	Liposome-based measurement of light-driven chloride transport kinetics of halorhodopsin. *Biochimica Et Biophysica Acta - Biomembranes*, **2021**, 1863, 183637	3.8	0
180	Understanding plant behavior: a student perspective: response to Van Volkenburgh et al. *Trends in Plant Science*, **2021**, 26, 1089-1090	13.1	2
179	Plant Physiology is recruiting Assistant Features Editors for 2022. *Plant Physiology*, **2021**, 187, 31	6.6	0
178	Guard Cell Starch Degradation Yields Glucose for Rapid Stomatal Opening in Arabidopsis. *Plant Cell*, **2020**, 32, 2325-2344	11.6	25
177	Crassulacean acid metabolism guard cell anion channel activity follows transcript abundance and is suppressed by apoplastic malate. *New Phytologist*, **2020**, 227, 1847-1857	9.8	1
176	Plant Physiology Welcomes 26 New Assistant Features Editors. *Plant Physiology*, **2020**, 182, 447-448	6.6	78

175	Predicting the unexpected in stomatal gas exchange: not just an open-and-shut case. *Biochemical Society Transactions*, **2020**, 48, 881-889	5.1	0
174	Plant Physiology Is Recruiting Assistant Features Editors for 2021. *Plant Physiology*, **2020**, 184, 3-3	6.6	78
173	A new perspective on mechanical characterisation of Arabidopsis stems through vibration tests. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 112, 104041	4.1	1
172	Synergy among Exocyst and SNARE Interactions Identifies a Functional Hierarchy in Secretion during Vegetative Growth. *Plant Cell*, **2020**, 32, 2951-2963	11.6	5
171	Communication between the Plasma Membrane and Tonoplast Is an Emergent Property of Ion Transport. *Plant Physiology*, **2020**, 182, 1833-1835	6.6	9
170	A FRET method for investigating dimer/monomer status and conformation of the UVR8 photoreceptor. *Photochemical and Photobiological Sciences*, **2019**, 18, 367-374	4.2	2
169	A constraint-relaxation-recovery mechanism for stomatal dynamics. *Plant, Cell and Environment*, **2019**, 42, 2399-2410	8.4	8
168	Optogenetic manipulation of stomatal kinetics improves carbon assimilation, water use, and growth. *Science*, **2019**, 363, 1456-1459	33.3	117
167	Dual Sites for SEC11 on the SNARE SYP121 Implicate a Binding Exchange during Secretory Traffic. *Plant Physiology*, **2019**, 180, 228-239	6.6	10
166	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	11.5	74
165	Plant Physiology Is Recruiting Assistant Features Editors. *Plant Physiology*, **2019**, 180, 1776	6.6	
164	K Channel-SEC11 Binding Exchange Regulates SNARE Assembly for Secretory Traffic. *Plant Physiology*, **2019**, 181, 1096-1113	6.6	9
163	Computational modelling predicts substantial carbon assimilation gains for C3 plants with a single-celled C4 biochemical pump. *PLoS Computational Biology*, **2019**, 15, e1007373	5	4
162	Stomatal Response to Humidity: Blurring the Boundary between Active and Passive Movement. *Plant Physiology*, **2018**, 176, 485-488	6.6	26
161	Light-Driven Chloride Transport Kinetics of Halorhodopsin. *Biophysical Journal*, **2018**, 115, 353-360	2.9	4
160	Concepts and Techniques in Plant Membrane Physiology **2018**, 1-43		
159	SNAREs SYP121 and SYP122 Mediate the Secretion of Distinct Cargo Subsets. *Plant Physiology*, **2018**, 178, 1679-1688	6.6	23
158	Bridging Scales from Protein Function to Whole-Plant Water Relations with the OnGuard Platform **2018**, 69-86		

157	A GPI Signal Peptide-Anchored Split-Ubiquitin (GPS) System for Detecting Soluble Bait Protein Interactions at the Membrane. *Plant Physiology*, **2018**, 178, 13-17	6.6	6
156	Gating control and K uptake by the KAT1 K channel leaveraged through membrane anchoring of the trafficking protein SYP121. *Plant, Cell and Environment*, **2018**, 41, 2668-2677	8.4	13
155	VAMP721 Conformations Unmask an Extended Motif for K+ Channel Binding and Gating Control. *Plant Physiology*, **2017**, 173, 536-551	6.6	19
154	Evolutionary Conservation of ABA Signaling for Stomatal Closure. *Plant Physiology*, **2017**, 174, 732-747	6.6	100
153	Temporal Dynamics of Stomatal Behavior: Modeling and Implications for Photosynthesis and Water Use. *Plant Physiology*, **2017**, 174, 603-613	6.6	60
152	Global Sensitivity Analysis of OnGuard Models Identifies Key Hubs for Transport Interaction in Stomatal Dynamics. *Plant Physiology*, **2017**, 174, 680-688	6.6	16
151	Speedy Grass Stomata: Emerging Molecular and Evolutionary Features. *Molecular Plant*, **2017**, 10, 912-914	14.4	20
150	The Membrane Transport System of the Guard Cell and Its Integration for Stomatal Dynamics. *Plant Physiology*, **2017**, 174, 487-519	6.6	137
149	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	7	14
148	Clathrin Heavy Chain Subunits Coordinate Endo- and Exocytic Traffic and Affect Stomatal Movement. *Plant Physiology*, **2017**, 175, 708-720	6.6	28
147	Unexpected Connections between Humidity and Ion Transport Discovered Using a Model to Bridge Guard Cell-to-Leaf Scales. *Plant Cell*, **2017**, 29, 2921-2939	11.6	27
146	Commandeering Channel Voltage Sensors for Secretion, Cell Turgor, and Volume Control. *Trends in Plant Science*, **2017**, 22, 81-95	13.1	30
145	Molecular Evolution of Grass Stomata. *Trends in Plant Science*, **2017**, 22, 124-139	13.1	119
144	Plant Physiology: Redefining the Enigma of Metabolism in Stomatal Movement. *Current Biology*, **2016**, 26, R107-9	6.3	10
143	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	6.6	40
142	Nitrate reductase mutation alters potassium nutrition as well as nitric oxide-mediated control of guard cell ion channels in Arabidopsis. *New Phytologist*, **2016**, 209, 1456-69	9.8	70
141	Modelling water use efficiency in a dynamic environment: An example using Arabidopsis thaliana. *Plant Science*, **2016**, 251, 65-74	5.3	28
140	Stomatal Spacing Safeguards Stomatal Dynamics by Facilitating Guard Cell Ion Transport Independent of the Epidermal Solute Reservoir. *Plant Physiology*, **2016**, 172, 254-63	6.6	21

139	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, 675-94	11.6	41
138	The Arabidopsis R-SNARE VAMP721 Interacts with KAT1 and KC1 K+ Channels to Moderate K+ Current at the Plasma Membrane. *Plant Cell*, **2015**, 27, 1697-717	11.6	64
137	Binary 2in1 Vectors Improve in Planta (Co)localization and Dynamic Protein Interaction Studies. *Plant Physiology*, **2015**, 168, 776-87	6.6	59
136	Hydrogen sulfide regulates inward-rectifying K+ channels in conjunction with stomatal closure. *Plant Physiology*, **2015**, 168, 29-35	6.6	72
135	A vesicle-trafficking protein commandeers Kv channel voltage sensors for voltage-dependent secretion. *Nature Plants*, **2015**, 1, 15108	11.5	40
134	Emergent Oscillatory Properties in Modelling Ion Transport of Guard Cells **2015**, 323-342		
133	Applications of fluorescent marker proteins in plant cell biology. *Methods in Molecular Biology*, **2014**, 1062, 487-507	1.4	17
132	Arabidopsis SNAREs SYP61 and SYP121 coordinate the trafficking of plasma membrane aquaporin PIP2;7 to modulate the cell membrane water permeability. *Plant Cell*, **2014**, 26, 3132-47	11.6	117
131	Exploring emergent properties in cellular homeostasis using OnGuard to model K+ and other ion transport in guard cells. *Journal of Plant Physiology*, **2014**, 171, 770-8	3.6	38
130	Systems analysis of guard cell membrane transport for enhanced stomatal dynamics and water use efficiency. *Plant Physiology*, **2014**, 164, 1593-9	6.6	45
129	An Arabidopsis stomatin-like protein affects mitochondrial respiratory supercomplex organization. *Plant Physiology*, **2014**, 164, 1389-400	6.6	27
128	Voltage-sensor transitions of the inward-rectifying K+ channel KAT1 indicate a latching mechanism biased by hydration within the voltage sensor. *Plant Physiology*, **2014**, 166, 960-75	6.6	18
127	Plant Physiology and The Plant Cell Go Online Only. *Plant Physiology*, **2014**, 166, 1677-1677	6.6	78
126	Stomatal size, speed, and responsiveness impact on photosynthesis and water use efficiency. *Plant Physiology*, **2014**, 164, 1556-70	6.6	466
125	Clustering of the K+ channel GORK of Arabidopsis parallels its gating by extracellular K+. *Plant Journal*, **2014**, 78, 203-14	6.9	34
124	Focus on Water. *Plant Physiology*, **2014**, 164, 1553-1555	6.6	7
123	The conceptual approach to quantitative modeling of guard cells. *Plant Signaling and Behavior*, **2013**, 8, e22747	2.5	2
122	Arabidopsis Sec1/Munc18 protein SEC11 is a competitive and dynamic modulator of SNARE binding and SYP121-dependent vesicle traffic. *Plant Cell*, **2013**, 25, 1368-82	11.6	55

121	Manipulation and Misconduct in the Handling of Image Data. *Plant Physiology*, **2013**, 163, 3-4	6.6	4
120	Plant Physiology Welcomes Its New Topical Reviews. *Plant Physiology*, **2013**, 162, 1767-1767	6.6	78
119	PYR/PYL/RCAR abscisic acid receptors regulate K+ and Cl- channels through reactive oxygen species-mediated activation of Ca2+ channels at the plasma membrane of intact Arabidopsis guard cells. *Plant Physiology*, **2013**, 163, 566-77	6.6	65
118	Associate editor Graham Farquhar receives honors for his research in plant physiology and climate change. *Plant Physiology*, **2013**, 162, 1213	6.6	
117	Plant Physiology Plugged In. *Plant Physiology*, **2013**, 161, 3-4	6.6	78
116	Studying plant salt tolerance with the voltage clamp technique. *Methods in Molecular Biology*, **2012**, 913, 19-33	1.4	
115	Protocol: optimised electrophyiological analysis of intact guard cells from Arabidopsis. *Plant Methods*, **2012**, 8, 15	5.8	10
114	A 2in1 cloning system enables ratiometric bimolecular fluorescence complementation (rBiFC). *BioTechniques*, **2012**, 53, 311-14	2.5	103
113	The trafficking protein SYP121 of Arabidopsis connects programmed stomatal closure and K+ channel activity with vegetative growth. *Plant Journal*, **2012**, 69, 241-51	6.9	97
112	Do calcineurin B-like proteins interact independently of the serine threonine kinase CIPK23 with the K+ channel AKT1? Lessons learned from a m□age □trois. *Plant Physiology*, **2012**, 159, 915-9	6.6	34
111	Systems dynamic modeling of a guard cell Cl- channel mutant uncovers an emergent homeostatic network regulating stomatal transpiration. *Plant Physiology*, **2012**, 160, 1956-67	6.6	68
110	Systems dynamic modeling of the stomatal guard cell predicts emergent behaviors in transport, signaling, and volume control. *Plant Physiology*, **2012**, 159, 1235-51	6.6	120
109	Selective regulation of maize plasma membrane aquaporin trafficking and activity by the SNARE SYP121. *Plant Cell*, **2012**, 24, 3463-81	11.6	95
108	OnGuard, a computational platform for quantitative kinetic modeling of guard cell physiology. *Plant Physiology*, **2012**, 159, 1026-42	6.6	125
107	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, 161-70	3.8	33
106	A bicistronic, Ubiquitin-10 promoter-based vector cassette for transient transformation and functional analysis of membrane transport demonstrates the utility of quantitative voltage clamp studies on intact Arabidopsis root epidermis. *Plant, Cell and Environment*, **2011**, 34, 554-64	8.4	11
105	A fast brassinolide-regulated response pathway in the plasma membrane of Arabidopsis thaliana. *Plant Journal*, **2011**, 66, 528-40	6.9	76
104	Ion transport, membrane traffic and cellular volume control. *Current Opinion in Plant Biology*, **2011**, 14, 332-9	9.9	25

103	A molecular framework for coupling cellular volume and osmotic solute transport control. *Journal of Experimental Botany*, **2011**, 62, 2363-70	7	29
102	Dynamic regulation of guard cell anion channels by cytosolic free Ca2+ concentration and protein phosphorylation. *Plant Journal*, **2010**, 61, 816-25	6.9	99
101	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, 355-65	6.9	339
100	A novel motif essential for SNARE interaction with the K(+) channel KC1 and channel gating in Arabidopsis. *Plant Cell*, **2010**, 22, 3076-92	11.6	85
99	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, 29286-94	5.4	92
98	Distributed structures underlie gating differences between the kin channel KAT1 and the Kout channel SKOR. *Molecular Plant*, **2010**, 3, 236-45	14.4	18
97	A tripartite SNARE-K+ channel complex mediates in channel-dependent K+ nutrition in Arabidopsis. *Plant Cell*, **2009**, 21, 2859-77	11.6	135
96	EZ-Rhizo: integrated software for the fast and accurate measurement of root system architecture. *Plant Journal*, **2009**, 57, 945-56	6.9	182
95	Regulation of macronutrient transport. *New Phytologist*, **2009**, 181, 35-52	9.8	142
94	Distinct roles of the last transmembrane domain in controlling Arabidopsis K+ channel activity. *New Phytologist*, **2009**, 182, 380-391	9.8	36
93	What makes a gate? The ins and outs of Kv-like K+ channels in plants. *Trends in Plant Science*, **2009**, 14, 383-90	13.1	88
92	SNAREs--molecular governors in signalling and development. *Current Opinion in Plant Biology*, **2008**, 11, 600-9	9.9	45
91	SNAREs: cogs and coordinators in signaling and development. *Plant Physiology*, **2008**, 147, 1504-15	6.6	74
90	Functional interaction of the SNARE protein NtSyp121 in Ca2+ channel gating, Ca2+ transients and ABA signalling of stomatal guard cells. *Molecular Plant*, **2008**, 1, 347-58	14.4	41
89	Membrane Transport and Ca2+ Oscillations in Guard Cells **2007**, 115-133		9
88	A generalized method for transfecting root epidermis uncovers endosomal dynamics in Arabidopsis root hairs. *Plant Journal*, **2007**, 51, 322-30	6.9	25
87	Selective targeting of plasma membrane and tonoplast traffic by inhibitory (dominant-negative) SNARE fragments. *Plant Journal*, **2007**, 51, 1099-115	6.9	69
86	Abscisic acid triggers the endocytosis of the arabidopsis KAT1 K+ channel and its recycling to the plasma membrane. *Current Biology*, **2007**, 17, 1396-402	6.3	161

85	Mitochondrial sequestration of BCECF after ester loading in the giant alga Chara australis. *Protoplasma*, **2007**, 232, 131-6	3.4	5
84	Plant neurobiology: no brain, no gain?. *Trends in Plant Science*, **2007**, 12, 135-6	13.1	118
83	Membrane trafficking and polar growth in root hairs and pollen tubes. *Journal of Experimental Botany*, **2007**, 58, 65-74	7	112
82	Nitric Oxide and Plant Ion Channel Control **2006**, 153-171		11
81	Selective mobility and sensitivity to SNAREs is exhibited by the Arabidopsis KAT1 K+ channel at the plasma membrane. *Plant Cell*, **2006**, 18, 935-54	11.6	151
80	Interactive domains between pore loops of the yeast K+ channel TOK1 associate with extracellular K+ sensitivity. *Biochemical Journal*, **2006**, 393, 645-55	3.8	8
79	Setting SNAREs in a different wood. *Traffic*, **2006**, 7, 627-38	5.7	57
78	External K+ modulates the activity of the Arabidopsis potassium channel SKOR via an unusual mechanism. *Plant Journal*, **2006**, 46, 269-81	6.9	113
77	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, 520-9	6.9	132
76	Nitric oxide block of outward-rectifying K+ channels indicates direct control by protein nitrosylation in guard cells. *Plant Physiology*, **2004**, 136, 4275-84	6.6	124
75	A new catch in the SNARE. *Trends in Plant Science*, **2004**, 9, 187-95	13.1	92
74	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, 11116-21	11.5	340
73	Control of guard cell ion channels by hydrogen peroxide and abscisic acid indicates their action through alternate signaling pathways. *Plant Physiology*, **2003**, 131, 385-8	6.6	128
72	Toward understanding vesicle traffic and the guard cell model. *New Phytologist*, **2002**, 153, 405-413	9.8	11
71	A role for the vacuole in auxin-mediated control of cytosolic pH by Vicia mesophyll and guard cells. *Plant Journal*, **2002**, 13, 109-116	6.9	23
70	Protein phosphorylation activates the guard cell Ca2+ channel and is a prerequisite for gating by abscisic acid. *Plant Journal*, **2002**, 32, 185-94	6.9	101
69	The abscisic acid-related SNARE homolog NtSyr1 contributes to secretion and growth: evidence from competition with its cytosolic domain. *Plant Cell*, **2002**, 14, 387-406	11.6	142
68	Extracellular Ba2+ and voltage interact to gate Ca2+ channels at the plasma membrane of stomatal guard cells. *FEBS Letters*, **2001**, 491, 99-103	3.8	28

67	Protein-binding partners of the tobacco syntaxin NtSyr1. *FEBS Letters*, **2001**, 508, 253-8	3.8	32
66	Early signalling events in the Avr9/Cf-9-dependent plant defence response. *Molecular Plant Pathology*, **2000**, 1, 3-8	5.7	11
65	Localization and control of expression of Nt-Syr1, a tobacco SNARE protein. *Plant Journal*, **2000**, 24, 369-81	6.9	75
64	Overexpression of auxin-binding protein enhances the sensitivity of guard cells to auxin. *Plant Physiology*, **2000**, 124, 1229-38	6.6	88
63	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, 4967-72	11.5	321
62	Functional conservation between yeast and plant endosomal Na(+)/H(+) antiporters. *FEBS Letters*, **2000**, 471, 224-8	3.8	141
61	Cellular signaling and volume control in stomatal movements in plants. *Annual Review of Cell and Developmental Biology*, **2000**, 16, 221-41	12.6	308
60	Ca(2+) signalling and control of guard-cell volume in stomatal movements. *Current Opinion in Plant Biology*, **2000**, 3, 196-204	9.9	31
59	A steep dependence of inward-rectifying potassium channels on cytosolic free calcium concentration increase evoked by hyperpolarization in guard cells. *Plant Physiology*, **1999**, 119, 277-88	6.6	136
58	Tansley Review No. 108: Molecular events of vesicle trafficking and control by SNARE proteins in plants. *New Phytologist*, **1999**, 144, 389-418	9.8	34
57	K+ channels of Cf-9 transgenic tobacco guard cells as targets for Cladosporium fulvum Avr9 elicitor-dependent signal transduction. *Plant Journal*, **1999**, 19, 453-62	6.9	71
56	Millisecond UV-B irradiation evokes prolonged elevation of cytosolic-free Ca2+ and stimulates gene expression in transgenic parsley cell cultures. *Plant Journal*, **1999**, 20, 109-17	6.9	95
55	A tobacco syntaxin with a role in hormonal control of guard cell ion channels. *Science*, **1999**, 283, 537-40	33.3	203
54	Mutations in the yeast two pore K+ channel YKC1 identify functional differences between the pore domains. *FEBS Letters*, **1999**, 458, 285-91	3.8	5
53	Mutations in the pore regions of the yeast K+ channel YKC1 affect gating by extracellular K+. *EMBO Journal*, **1998**, 17, 7190-8	13	24
52	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, 4778-83	11.5	223
51	Signal redundancy, gates and integration in the control of ion channels for stomatal movement. *Journal of Experimental Botany*, **1997**, 48 Spec No, 529-37	7	31
50	Extracellular K+ and Ba2+ mediate voltage-dependent inactivation of the outward-rectifying K+ channel encoded by the yeast gene TOK1. *FEBS Letters*, **1997**, 405, 337-44	3.8	30

49	A new family of K+ transporters from Arabidopsis that are conserved across phyla. *FEBS Letters*, **1997**, 415, 206-11	3.8	135
48	Expression, evolution and genomic complexity of potassium ion channel genes of Arabidopsis thaliana. *Journal of Plant Physiology*, **1997**, 150, 652-660	3.6	14
47	Signalling gates in abscisic acid-mediated control of guard cell ion channels. *Physiologia Plantarum*, **1997**, 100, 481-490	4.6	51
46	The effect of elevated CO2 concentrations on K+ and anion channels of Vicia faba L. guard cells. *Planta*, **1997**, 203, 145-154	4.7	79
45	K(+)-sensitive gating of the K+ outward rectifier in Vicia guard cells. *Journal of Membrane Biology*, **1997**, 158, 241-56	2.3	64
44	High-affinity NO(3-)-H+ cotransport in the fungus Neurospora: induction and control by pH and membrane voltage. *Journal of Membrane Biology*, **1997**, 160, 59-76	2.3	18
43	Parallel control of the inward-rectifier K+ channel by cytosolic free Ca2+ and pH inVicia guard cells. *Planta*, **1997**, 201, 84-95	4.7	153
42	Alteration of anion channel kinetics in wild-type and abi1-1 transgenic Nicotiana benthamiana guard cells by abscisic acid. *Plant Journal*, **1997**, 12, 203-13	6.9	101
41	Evidence for K+ channel control in Vicia guard cells coupled by G-proteins to a 7TMS receptor mimetic. *Plant Journal*, **1995**, 8, 187-198	6.9	69
40	NO3- transport across the plasma membrane of Arabidopsis thaliana root hairs: kinetic control by pH and membrane voltage. *Journal of Membrane Biology*, **1995**, 145, 49-66	2.3	85
39	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, 9520-4	11.5	197
38	Cable correction of membrane currents recorded from root hairs ofArabidopsis thalianaL.. *Journal of Experimental Botany*, **1994**, 45, 1-6	7	31
37	Selective block by alpha-dendrotoxin of the K+ inward rectifier at the Vicia guard cell plasma membrane. *Journal of Membrane Biology*, **1994**, 137, 249-59	2.3	9
36	K+ channels of stomatal guard cells: bimodal control of the K+ inward-rectifier evoked by auxin. *Plant Journal*, **1994**, 5, 55-68	6.9	146
35	Phosphatase antagonist okadaic acid inhibits steady-state K+ currents in guard cells of Vicia faba. *Plant Journal*, **1994**, 5, 727-733	6.9	71
34	Hormonal Control of Ion Channel Gating. *Annual Review of Plant Biology*, **1993**, 44, 543-567		85
33	Modulation of K+ channels in Vicia stomatal guard cells by peptide homologs to the auxin-binding protein C terminus. *Proceedings of the National Academy of Sciences of the United States of America*, **1993**, 90, 11493-7	11.5	162
32	Electrocoupling of ion transporters in plants. *Journal of Membrane Biology*, **1993**, 136, 327-32	2.3	66

31	K+ channels of stomatal guard cells. Characteristics of the inward rectifier and its control by pH. *Journal of General Physiology*, **1992**, 99, 615-44	3.4	205
30	Membrane transport in stomatal guard cells: the importance of voltage control. *Journal of Membrane Biology*, **1992**, 126, 1-18	2.3	142
29	Ion channel gating in plants: physiological implications and integration for stomatal function. *Journal of Membrane Biology*, **1991**, 124, 95-112	2.3	85
28	The Mechanism of Ion Permeation through K+ Channels of Stomatal Guard Cells: Voltage-Dependent Block by Na+. *Journal of Plant Physiology*, **1991**, 138, 326-334	3.6	37
27	Reversible inactivation of K+ channels of Vicia stomatal guard cells following the photolysis of caged inositol 1,4,5-trisphosphate. *Nature*, **1990**, 346, 766-9	50.4	298
26	Voltage dependence of the Chara proton pump revealed by current-voltage measurement during rapid metabolic blockade with cyanide. *Journal of Membrane Biology*, **1990**, 114, 205-23	2.3	50
25	Potassium channel currents in intact stomatal guard cells: rapid enhancement by abscisic acid. *Planta*, **1990**, 180, 445-455	4.7	127
24	Potassium channel currents in intact stomatal guard cells: rapid enhancement by abscisic acid. *Planta*, **1990**, 180, 445-55	4.7	39
23	Mechanisms of fusicoccin action: evidence for concerted modulations of secondary K(+) transport in a higher plant cell. *Planta*, **1989**, 178, 495-508	4.7	56
22	Mechanisms of fusicoccin action: kinetic modification and inactivation of K(+) channels in guard cells. *Planta*, **1989**, 178, 509-23	4.7	73
21	A cytolytic delta-endotoxin from Bacillus thuringiensis var. israelensis forms cation-selective channels in planar lipid bilayers. *FEBS Letters*, **1989**, 244, 259-62	3.8	97
20	Potassium-dependent, bipolar gating of K+ channels in guard cells. *Journal of Membrane Biology*, **1988**, 102, 235-246	2.3	106
19	Mechanisms of fusicoccin action: A dominant role for secondary transport in a higher-plant cell. *Planta*, **1988**, 174, 187-200	4.7	50
18	Role of "active" potassium transport in the regulation of cytoplasmic pH by nonanimal cells. *Proceedings of the National Academy of Sciences of the United States of America*, **1987**, 84, 2737-41	11.5	74
17	Electrical characteristics of stomatal guard cells: The contribution of ATP-dependent, electrogenic transport revealed by current-voltage and difference-current-voltage analysis. *Journal of Membrane Biology*, **1987**, 98, 257-274	2.3	78
16	Potassium-proton symport in Neurospora: kinetic control by pH and membrane potential. *Journal of Membrane Biology*, **1987**, 98, 169-89	2.3	92
15	Electrical characteristics of stomatal guard cells: The ionic basis of the membrane potential and the consequence of potassium chlorides leakage from microelectrodes. *Planta*, **1987**, 170, 272-87	4.7	95
14	TOWARD THE LINK BETWEEN MEMBRANES TRANSPORT AND PHOTOPERCEPTION IN PLANT. *Photochemistry and Photobiology*, **1987**, 45, 933-938	3.6	4

13	Interpretation of steady-state current-voltage curves: consequences and implications of current subtraction in transport studies. *Journal of Membrane Biology*, **1986**, 92, 91-110	2.3	24
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6	Actin and cortical fiber reticulation in the siphonaceous alga Vaucheria sessilis. *Planta*, **1980**, 147, 363-75	4.7	63
5	Heavy-meromyosin-decoration of microfilaments from Mougeotia protoplasts. *Planta*, **1980**, 150, 354-6	4.7	40
4	Regulation of Ion Transporters99-132		1
3	Informed dispersal of the dandelion		2
2	Ion Transport at the Plant Plasma Membrane1-16		10
1	Membrane Transport in Guard Cells		2