

Sbastien Thomine

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

8,639
citations

40
h-index

92
g-index

97
ext. papers

9,968
ext. citations

8.9
avg, IF

5.7
L-index

#	Paper	IF	Citations
85	Calcium channels activated by hydrogen peroxide mediate abscisic acid signalling in guard cells. <i>Nature</i> , 2000 , 406, 731-4	50.4	1697
84	Phylogenetic relationships within cation transporter families of Arabidopsis. <i>Plant Physiology</i> , 2001 , 126, 1646-67	6.6	951
83	Cadmium and iron transport by members of a plant metal transporter family in Arabidopsis with homology to Nramp genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 4991-6	11.5	685
82	Plant science: the key to preventing slow cadmium poisoning. <i>Trends in Plant Science</i> , 2013 , 18, 92-9	13.1	601
81	Mobilization of vacuolar iron by AtNRAMP3 and AtNRAMP4 is essential for seed germination on low iron. <i>EMBO Journal</i> , 2005 , 24, 4041-51	13	454
80	The nitrate/proton antiporter AtCLCa mediates nitrate accumulation in plant vacuoles. <i>Nature</i> , 2006 , 442, 939-42	50.4	366
79	AtNRAMP3, a multispecific vacuolar metal transporter involved in plant responses to iron deficiency. <i>Plant Journal</i> , 2003 , 34, 685-95	6.9	365
78	Export of vacuolar manganese by AtNRAMP3 and AtNRAMP4 is required for optimal photosynthesis and growth under manganese deficiency. <i>Plant Physiology</i> , 2010 , 152, 1986-99	6.6	230
77	Arabidopsis thaliana MTP1 is a Zn transporter in the vacuolar membrane which mediates Zn detoxification and drives leaf Zn accumulation. <i>FEBS Letters</i> , 2005 , 579, 4165-74	3.8	208
76	Functional characterization of NRAMP3 and NRAMP4 from the metal hyperaccumulator <i>Thlaspi caerulescens</i> . <i>New Phytologist</i> , 2009 , 181, 637-50	9.8	187
75	Identification of features regulating OST1 kinase activity and OST1 function in guard cells. <i>Plant Physiology</i> , 2006 , 141, 1316-27	6.6	176
74	Anion channels/transporters in plants: from molecular bases to regulatory networks. <i>Annual Review of Plant Biology</i> , 2011 , 62, 25-51	30.7	149
73	The mammalian gene of acetylcholinesterase-associated collagen. <i>Journal of Biological Chemistry</i> , 1997 , 272, 22840-7	5.4	143
72	The Arabidopsis vacuolar anion transporter, AtCLCc, is involved in the regulation of stomatal movements and contributes to salt tolerance. <i>Plant Journal</i> , 2010 , 64, 563-76	6.9	126
71	Iron transport in plants: better be safe than sorry. <i>Current Opinion in Plant Biology</i> , 2013 , 16, 322-7	9.9	104
70	Genome-wide analysis of plant metal transporters, with an emphasis on poplar. <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 3763-84	10.3	93
69	An anion current at the plasma membrane of tobacco protoplasts shows ATP-dependent voltage regulation and is modulated by auxin. <i>Plant Journal</i> , 1994 , 6, 707-716	6.9	90

68	The metal hyperaccumulators from New Caledonia can broaden our understanding of nickel accumulation in plants. <i>Frontiers in Plant Science</i> , 2013 , 4, 279	6.2	87
67	Immunity to plant pathogens and iron homeostasis. <i>Plant Science</i> , 2015 , 240, 90-7	5.3	82
66	The metal transporter PglREG1 from the hyperaccumulator <i>Psychotria gabriellae</i> is a candidate gene for nickel tolerance and accumulation. <i>Journal of Experimental Botany</i> , 2014 , 65, 1551-64	7	77
65	Identification of mutations allowing Natural Resistance Associated Macrophage Proteins (NRAMP) to discriminate against cadmium. <i>Plant Journal</i> , 2015 , 83, 625-37	6.9	76
64	ATP binding to the C terminus of the <i>Arabidopsis thaliana</i> nitrate/proton antiporter, AtCLCa, regulates nitrate transport into plant vacuoles. <i>Journal of Biological Chemistry</i> , 2009 , 284, 26526-32	5.4	67
63	Sulfate is both a substrate and an activator of the voltage-dependent anion channel of <i>Arabidopsis</i> hypocotyl cells. <i>Plant Physiology</i> , 1999 , 121, 253-62	6.6	67
62	¹⁵ N-metabolic labeling for comparative plasma membrane proteomics in <i>Arabidopsis</i> cells. <i>Proteomics</i> , 2007 , 7, 750-4	4.8	65
61	Review. CLC-mediated anion transport in plant cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 195-201	5.8	63
60	Differences in expression of acetylcholinesterase and collagen Q control the distribution and oligomerization of the collagen-tailed forms in fast and slow muscles. <i>Journal of Neuroscience</i> , 1999 , 19, 10672-9	6.6	63
59	Scavenging iron: a novel mechanism of plant immunity activation by microbial siderophores. <i>Plant Physiology</i> , 2014 , 164, 2167-83	6.6	61
58	NRAMP genes function in <i>Arabidopsis thaliana</i> resistance to <i>Erwinia chrysanthemi</i> infection. <i>Plant Journal</i> , 2009 , 58, 195-207	6.9	59
57	Characterization of the Chloride Channel-Like, AtCLCg, Involved in Chloride Tolerance in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2016 , 57, 764-75	4.9	58
56	The proline 160 in the selectivity filter of the <i>Arabidopsis</i> NO ₃ ⁽⁻⁾ /H ⁽⁺⁾ exchanger AtCLCa is essential for nitrate accumulation in planta. <i>Plant Journal</i> , 2010 , 63, 861-9	6.9	58
55	Phosphorylation of the vacuolar anion exchanger AtCLCa is required for the stomatal response to abscisic acid. <i>Science Signaling</i> , 2014 , 7, ra65	8.8	57
54	Dynamic imaging of cytosolic zinc in <i>Arabidopsis</i> roots combining FRET sensors and RootChip technology. <i>New Phytologist</i> , 2014 , 202, 198-208	9.8	56
53	Post-translational regulation of AtFER2 ferritin in response to intracellular iron trafficking during fruit development in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2009 , 2, 1095-106	14.4	55
52	Cytoplasmic acidification as an early phosphorylation-dependent response of tobacco cells to elicitors. <i>Planta</i> , 1996 , 199, 416	4.7	55
51	Autophagy as a possible mechanism for micronutrient remobilization from leaves to seeds. <i>Frontiers in Plant Science</i> , 2014 , 5, 11	6.2	50

50	Bypassing Iron Storage in Endodermal Vacuoles Rescues the Iron Mobilization Defect in the natural resistance associated-macrophage protein3natural resistance associated-macrophage protein4 Double Mutant. <i>Plant Physiology</i> , 2015 , 169, 748-59	6.6	46
49	Anion channels in plant cells. <i>FEBS Journal</i> , 2011 , 278, 4277-92	5.7	46
48	Anion channels and transporters in plant cell membranes. <i>FEBS Letters</i> , 2007 , 581, 2367-74	3.8	44
47	Regulation and function of AtNRAMP4 metal transporter protein. <i>Soil Science and Plant Nutrition</i> , 2004 , 50, 1141-1150	1.6	41
46	Calcium channel antagonists induce direct inhibition of the outward rectifying potassium channel in tobacco protoplasts. <i>FEBS Letters</i> , 1994 , 340, 45-50	3.8	41
45	Mutants impaired in vacuolar metal mobilization identify chloroplasts as a target for cadmium hypersensitivity in Arabidopsis thaliana. <i>Plant, Cell and Environment</i> , 2013 , 36, 804-17	8.4	40
44	Distinct lytic vacuolar compartments are embedded inside the protein storage vacuole of dry and germinating Arabidopsis thaliana seeds. <i>Plant and Cell Physiology</i> , 2011 , 52, 1142-52	4.9	40
43	Phosphatidylinositol 3-phosphate-binding protein AtPH1 controls the localization of the metal transporter NRAMP1 in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3354-E3363	11.5	37
42	Anion-channel blockers interfere with auxin responses in dark-grown Arabidopsis hypocotyls. <i>Plant Physiology</i> , 1997 , 115, 533-42	6.6	36
41	Voltage-dependent anion channel of Arabidopsis hypocotyls: nucleotide regulation and pharmacological properties. <i>Journal of Membrane Biology</i> , 1997 , 159, 71-82	2.3	36
40	Vacuolar Iron Stores Gated by NRAMP3 and NRAMP4 Are the Primary Source of Iron in Germinating Seeds. <i>Plant Physiology</i> , 2018 , 177, 1267-1276	6.6	34
39	Genotypic variations in the dynamics of metal concentrations in poplar leaves: a field study with a perspective on phytoremediation. <i>Environmental Pollution</i> , 2015 , 199, 73-82	9.3	32
38	Mechanisms of Cadmium Accumulation in Plants. <i>Critical Reviews in Plant Sciences</i> , 2020 , 39, 322-359	5.6	31
37	Elicitor-induced chloride efflux and anion channels in tobacco cell suspensions. <i>Plant Physiology and Biochemistry</i> , 1998 , 36, 665-674	5.4	30
36	Using BIXE for quantitative mapping of metal concentration in Arabidopsis thaliana seeds. <i>Frontiers in Plant Science</i> , 2013 , 4, 168	6.2	26
35	Essential and Detrimental - an Update on Intracellular Iron Trafficking and Homeostasis. <i>Plant and Cell Physiology</i> , 2019 , 60, 1420-1439	4.9	25
34	Distinct pH regulation of slow and rapid anion channels at the plasma membrane of Arabidopsis thaliana hypocotyl cells. <i>Journal of Experimental Botany</i> , 2005 , 56, 1897-903	7	24
33	Autophagy and Nutrients Management in Plants. <i>Cells</i> , 2019 , 8,	7.9	24

32	Autophagy is essential for optimal translocation of iron to seeds in Arabidopsis. <i>Journal of Experimental Botany</i> , 2019 , 70, 859-869	7	22
31	Variations in Mn(II) speciation among organisms: what makes D. radiodurans different. <i>Metallomics</i> , 2015 , 7, 136-44	4.5	21
30	Nucleotides provide a voltage-sensitive gate for the rapid anion channel of arabidopsis hypocotyl cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 36139-45	5.4	21
29	Elementary auxin response chains at the plasma membrane involve external abp1 and multiple electrogenic ion transport proteins. <i>Plant Growth Regulation</i> , 1996 , 18, 23-28	3.2	19
28	Sensing and transducing forces in plants with MSL10 and DEK1 mechanosensors. <i>FEBS Letters</i> , 2018 , 592, 1968-1979	3.8	15
27	Pulse Electron Double Resonance Detected Multinuclear NMR Spectra of Distant and Low Sensitivity Nuclei and Its Application to the Structure of Mn(II) Centers in Organisms. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 13515-23	3.4	14
26	Dynamic measurement of cytosolic pH and [NO] uncovers the role of the vacuolar transporter AtCLCa in cytosolic pH homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15343-15353	11.5	14
25	Anion channels and hormone signalling in plant cells. <i>Plant Physiology and Biochemistry</i> , 1999 , 37, 381-392	3.4	10
24	ATP-Dependent Regulation of an Anion Channel at the Plasma Membrane of Protoplasts from Epidermal Cells of Arabidopsis Hypocotyls. <i>Plant Cell</i> , 1995 , 7, 2091	11.6	10
23	Handing off iron to the next generation: how does it get into seeds and what for?. <i>Biochemical Journal</i> , 2020 , 477, 259-274	3.8	9
22	Calcium and plasma membrane force-gated ion channels behind development. <i>Current Opinion in Plant Biology</i> , 2020 , 53, 57-64	9.9	9
21	Anion Channel Blockage by ATP as a Means for Membranes to Perceive the Energy Status of the Cell. <i>Molecular Plant</i> , 2016 , 9, 320-322	14.4	8
20	Cellular transduction of mechanical oscillations in plants by the plasma-membrane mechanosensitive channel MSL10. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	7
19	Wide cross-species RNA-Seq comparison reveals convergent molecular mechanisms involved in nickel hyperaccumulation across dicotyledons. <i>New Phytologist</i> , 2021 , 229, 994-1006	9.8	7
18	R type anion channel: a multifunctional channel seeking its molecular identity. <i>Plant Signaling and Behavior</i> , 2010 , 5, 1347-52	2.5	6
17	Importing Manganese into the Chloroplast: Many Membranes to Cross. <i>Molecular Plant</i> , 2018 , 11, 1109-1114	11.1	5
16	Micronutrient homeostasis in plants for more sustainable agriculture and healthier human nutrition.. <i>Journal of Experimental Botany</i> , 2022 ,	7	4
15	Wide cross-species RNA-Seq comparison reveals a highly conserved role for Ferroportins in nickel hyperaccumulation in plants		4

14	Water Balance and the Regulation of Stomatal Movements 2009 , 283-305		3
13	Elementary auxin response chains at the plasma membrane involve external abp1 and multiple electrogenic ion transport proteins 1996 , 31-36		2
12	Cd tolerance and accumulation in barley: screening of 36 North African cultivars on Cd-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 42722-42736	5.1	2
11	Molecular Mechanisms that Control Plant Tolerance to Heavy Metals and Possible Roles in Manipulating Metal Accumulation 2002 ,		1
10	Wide Cross-Species RNA-Seq Comparison Reveals Convergent Molecular Mechanisms Involved in Nickel Hyperaccumulation Across Angiosperms. <i>SSRN Electronic Journal</i> ,	1	1
9	Dynamic measurement of cytosolic pH and [NO ₃ ⁻] uncovers the role of the vacuolar transporter AtCLCa in the control of cytosolic pH		1
8	Autophagy is essential for optimal Fe translocation to seeds in Arabidopsis		1
7	A quick journey into the diversity of iron uptake strategies in photosynthetic organisms. <i>Plant Signaling and Behavior</i> , 2021 , 16, 1975088	2.5	1
6	Subcellular localization of metal pools determined by TEM-EDS in embryo Arabidopsis thaliana mutants 2016 , 121-122		
5	Stressed plants need their vitamins. <i>Trends in Plant Science</i> , 2002 , 7, 241	13.1	
4	Playing with the switches. <i>Trends in Plant Science</i> , 2002 , 7, 524	13.1	
3	Proteolipids: small hydrophobic peptides in the field of sodium tolerance. <i>Trends in Plant Science</i> , 2000 , 5, 322	13.1	
2	New ways for old genes. <i>Trends in Plant Science</i> , 2000 , 5, 515	13.1	
1	Manganese matters: feeding manganese into the secretory system for cell wall synthesis. <i>New Phytologist</i> , 2021 , 231, 2107-2109	9.8	