

Herv Sentenac

List of Publications by Year in Descending Order

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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.

39
papers

4,757
citations

29
h-index

42
g-index

42
ext. papers

5,488
ext. citations

9.1
avg, IF

4.97
L-index

#	Paper	IF	Citations
39	Non-autonomous stomatal control by pavement cell turgor via the K ⁺ channel subunit AtKC1.. <i>Plant Cell</i> , 2022 ,	11.6	1
38	Functional characterization and physiological roles of the single Shaker outward K channel in <i>Medicago truncatula</i> . <i>Plant Journal</i> , 2020 , 102, 1249-1265	6.9	4
37	Constitutive Contribution by the Rice OsHKT1;4 Na Transporter to Xylem Sap Desalinization and Low Na Accumulation in Young Leaves Under Low as High External Na Conditions. <i>Frontiers in Plant Science</i> , 2020 , 11, 1130	6.2	10
36	A repertoire of cationic and anionic conductances at the plasma membrane of <i>Medicago truncatula</i> root hairs. <i>Plant Journal</i> , 2019 , 98, 418-433	6.9	5
35	A Dual Role for the OsK5.2 Ion Channel in Stomatal Movements and K Loading into Xylem Sap. <i>Plant Physiology</i> , 2017 , 174, 2409-2418	6.6	21
34	Production of low-Cs rice plants by inactivation of the K transporter OsHAK1 with the CRISPR-Cas system. <i>Plant Journal</i> , 2017 , 92, 43-56	6.9	106
33	Characterization of Two HKT1;4 Transporters from <i>Triticum monococcum</i> to Elucidate the Determinants of the Wheat Salt Tolerance Nax1 QTL. <i>Plant and Cell Physiology</i> , 2016 , 57, 2047-2057	4.9	21
32	Roles and Transport of Sodium and Potassium in Plants. <i>Metal Ions in Life Sciences</i> , 2016 , 16, 291-324	2.6	46
31	Nod Factor Effects on Root Hair-Specific Transcriptome of <i>Medicago truncatula</i> : Focus on Plasma Membrane Transport Systems and Reactive Oxygen Species Networks. <i>Frontiers in Plant Science</i> , 2016 , 7, 794	6.2	34
30	Molecular biology of K ⁺ transport across the plant cell membrane: what do we learn from comparison between plant species?. <i>Journal of Plant Physiology</i> , 2014 , 171, 748-69	3.6	177
29	Acetylated 1,3-diaminopropane antagonizes abscisic acid-mediated stomatal closing in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2014 , 79, 322-33	6.9	21
28	Distinct amino acids in the C-linker domain of the <i>Arabidopsis</i> K ⁺ channel KAT2 determine its subcellular localization and activity at the plasma membrane. <i>Plant Physiology</i> , 2014 , 164, 1415-29	6.6	27
27	Potassium transport in developing fleshy fruits: the grapevine inward K ⁽⁺⁾ channel VvK1.2 is activated by CIPK-CBL complexes and induced in ripening berry flesh cells. <i>Plant Journal</i> , 2013 , 73, 1006-18	6.9	65
26	HKT2;2/1, a K ⁺ -permeable transporter identified in a salt-tolerant rice cultivar through surveys of natural genetic polymorphism. <i>Plant Journal</i> , 2012 , 71, 750-62	6.9	68
25	The rice monovalent cation transporter OsHKT2;4: revisited ionic selectivity. <i>Plant Physiology</i> , 2012 , 160, 498-510	6.6	59
24	AtKC1 is a general modulator of <i>Arabidopsis</i> inward Shaker channel activity. <i>Plant Journal</i> , 2011 , 67, 570-82	6.9	65
23	Over-expression of an Na ⁺ -and K ⁺ -permeable HKT transporter in barley improves salt tolerance. <i>Plant Journal</i> , 2011 , 68, 468-79	6.9	191

22	A grapevine Shaker inward K(+) channel activated by the calcineurin B-like calcium sensor 1-protein kinase CIPK23 network is expressed in grape berries under drought stress conditions. <i>Plant Journal</i> , 2010 , 61, 58-69	6.9	97
21	Diversity in expression patterns and functional properties in the rice HKT transporter family. <i>Plant Physiology</i> , 2009 , 150, 1955-71	6.6	136
20	AtKC1, a conditionally targeted Shaker-type subunit, regulates the activity of plant K+ channels. <i>Plant Journal</i> , 2008 , 53, 115-23	6.9	98
19	Plant adaptation to fluctuating environment and biomass production are strongly dependent on guard cell potassium channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5271-6	11.5	116
18	Nomenclature for HKT transporters, key determinants of plant salinity tolerance. <i>Trends in Plant Science</i> , 2006 , 11, 372-4	13.1	254
17	External K+ modulates the activity of the Arabidopsis potassium channel SKOR via an unusual mechanism. <i>Plant Journal</i> , 2006 , 46, 269-81	6.9	113
16	Inward rectification of the AKT2 channel abolished by voltage-dependent phosphorylation. <i>Plant Journal</i> , 2005 , 44, 783-97	6.9	76
15	A unique voltage sensor sensitizes the potassium channel AKT2 to phosphoregulation. <i>Journal of General Physiology</i> , 2005 , 126, 605-17	3.4	49
14	Regulation by external K+ in a maize inward shaker channel targets transport activity in the high concentration range. <i>Plant Cell</i> , 2005 , 17, 1532-48	11.6	26
13	Functional analysis of AtHKT1 in Arabidopsis shows that Na(+) recirculation by the phloem is crucial for salt tolerance. <i>EMBO Journal</i> , 2003 , 22, 2004-14	13	425
12	Regulated expression of Arabidopsis shaker K+ channel genes involved in K+ uptake and distribution in the plant. <i>Plant Molecular Biology</i> , 2003 , 51, 773-87	4.6	185
11	Molecular mechanisms and regulation of K+ transport in higher plants. <i>Annual Review of Plant Biology</i> , 2003 , 54, 575-603	30.7	436
10	Five-group distribution of the Shaker-like K+ channel family in higher plants. <i>Journal of Molecular Evolution</i> , 2003 , 56, 418-34	3.1	84
9	The Arabidopsis outward K+ channel GORK is involved in regulation of stomatal movements and plant transpiration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 5549-54	11.5	328
8	Cation channels in the Arabidopsis plasma membrane. <i>Trends in Plant Science</i> , 2002 , 7, 168-75	13.1	168
7	Guard cell inward K+ channel activity in arabidopsis involves expression of the twin channel subunits KAT1 and KAT2. <i>Journal of Biological Chemistry</i> , 2001 , 276, 3215-21	5.4	185
6	Biochemical characterization of the Arabidopsis K+ channels KAT1 and AKT1 expressed or co-expressed in insect cells. <i>Plant Journal</i> , 2000 , 23, 527-38	6.9	39
5	A shaker-like K(+) channel with weak rectification is expressed in both source and sink phloem tissues of Arabidopsis. <i>Plant Cell</i> , 2000 , 12, 837-51	11.6	181

4	A Shaker-Like K ⁺ Channel with Weak Rectification Is Expressed in Both Source and Sink Phloem Tissues of Arabidopsis. <i>Plant Cell</i> , 2000 , 12, 837	11.6	104
3	Identification and disruption of a plant shaker-like outward channel involved in K ⁺ release into the xylem sap. <i>Cell</i> , 1998 , 94, 647-55	56.2	580
2	Expression of a cloned plant K ⁺ channel in <i>Xenopus</i> oocytes: analysis of macroscopic currents. <i>Plant Journal</i> , 1995 , 7, 321-32	6.9	154
1	The <i>Medicago truncatula</i> HKT family: Ion transport properties and regulation of expression upon abiotic stresses and symbiosis		2