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List of Publications by Year
in descending order

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51 papers	5,238 citations	136950 32 h-index	182427 51 g-index
55 all docs	55 docs citations	55 times ranked	4152 citing authors

#	Article	IF	Citations
1	MOLECULARMECHANISMS ANDREGULATION OFK+TRANSPORT INHIGHERPLANTS. Annual Review of Plant Biology, 2003, 54, 575-603.	18.7	530
2	Functional analysis of AtHKT1 in Arabidopsis shows that Na+ recirculation by the phloem is crucial for salt tolerance. EMBO Journal, 2003, 22, 2004-2014.	7.8	512
3	The Arabidopsis outward K+ channel GORK is involved in regulation of stomatal movements and plant transpiration. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5549-5554.	7.1	388
4	Nomenclature for HKT transporters, key determinants of plant salinity tolerance. Trends in Plant Science, 2006, 11, 372-374.	8.8	329
5	K+channel activity in plants: Genes, regulations and functions. FEBS Letters, 2007, 581, 2357-2366.	2.8	268
6	Molecular biology of K+ transport across the plant cell membrane: What do we learn from comparison between plant species?. Journal of Plant Physiology, 2014, 171, 748-769.	3.5	264
7	Overâ€expression of an Na⁺â€•and K⁺â€permeable HKT transporter in barley improves salt tolerance. Plant Journal, 2011, 68, 468-479.	5.7	256
8	Nuclear-localized cyclic nucleotideâ€“gated channels mediate symbiotic calcium oscillations. Science, 2016, 352, 1102-1105.	12.6	230
9	Pollen tube development and competitive ability are impaired by disruption of a Shaker K+ channel in Arabidopsis. Genes and Development, 2002, 16, 339-350.	5.9	195
10	Cation channels in the Arabidopsis plasma membrane. Trends in Plant Science, 2002, 7, 168-175.	8.8	181
11	Diversity in Expression Patterns and Functional Properties in the Rice HKT Transporter Family Â. Plant Physiology, 2009, 150, 1955-1971.	4.8	175
12	<i>Arabidopsis</i> Annexin1 Mediates the Radical-Activated Plasma Membrane Ca²⁺- and K⁺-Permeable Conductance in Root Cells. Plant Cell, 2012, 24, 1522-1533.	6.6	173
13	Expression of a cloned plant K+ channel in Xenopus oocytes: analysis of macroscopic currents. Plant Journal, 1995, 7, 321-332.	5.7	167
14	Production of lowâ€Cs⁺ rice plants by inactivation of the K⁺ transporter Os<scp>HAK</scp>1 with the <scp>CRISPR</scp>â€Cas system. Plant Journal, 2017, 92, 43-56.	5.7	161
15	Plant adaptation to fluctuating environment and biomass production are strongly dependent on guard cell potassium channels. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5271-5276.	7.1	138
16	Allelic variants of OsHKT1;1 underlie the divergence between indica and japonica subspecies of rice (Oryza sativa) for root sodium content. PLoS Genetics, 2017, 13, e1006823.	3.5	118
17	HKT2;2/1, a K⁺â€permeable transporter identified in a saltâ€tolerant rice cultivar through surveys of natural genetic polymorphism. Plant Journal, 2012, 71, 750-762.	5.7	94
18	Guard cell cation channels are involved in Na+-induced stomatal closure in a halophyte. Plant Journal, 1998, 14, 509-521.	5.7	86

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19	Two voltageâ€dependent calcium channels coâ€exist in the apical plasma membrane of <i>Arabidopsis thaliana</i> root hairs. New Phytologist, 2008, 179, 378-385.	7.3	83
20	AtKC1 is a general modulator of Arabidopsis inward Shaker channel activity. Plant Journal, 2011, 67, 570-582.	5.7	83
21	The Rice Monovalent Cation Transporter OsHKT2;4: Revisited Ionic Selectivity Â. Plant Physiology, 2012, 160, 498-510.	4.8	80
22	Preferential KAT1-KAT2 Heteromerization Determines Inward K+ Current Properties in Arabidopsis Guard Cells. Journal of Biological Chemistry, 2010, 285, 6265-6274.	3.4	55
23	Looking for Root Hairs to Overcome Poor Soils. Trends in Plant Science, 2021, 26, 83-94.	8.8	45
24	Level of expression inXenopus oocytes affects some characteristics of a plant inward-rectifying voltage-gated K+ channel. Pflugers Archiv European Journal of Physiology, 1994, 428, 422-424.	2.8	44
25	A Dual Role for the OsK5.2 Ion Channel in Stomatal Movements and K⁺ Loading into Xylem Sap. Plant Physiology, 2017, 174, 2409-2418.	4.8	44
26	Acetylated 1,3â€diaminopropane antagonizes abscisic acidâ€mediated stomatal closing in <scp>A</scp>rabidopsis. Plant Journal, 2014, 79, 322-333.	5.7	43
27	The Arabidopsis AtPP2CA Protein Phosphatase Inhibits the GORK K+ Efflux Channel and Exerts a Dominant Suppressive Effect on Phosphomimetic-activating Mutations. Journal of Biological Chemistry, 2016, 291, 6521-6533.	3.4	43
28	Plasma membrane transport systems in higher plants: From black boxes to molecular physiology. Physiologia Plantarum, 1997, 100, 1-15.	5.2	40
29	Characterization of Two HKT1;4 Transporters from<i>Triticum monococcum</i>to Elucidate the Determinants of the Wheat Salt Tolerance<i>Nax1</i>QTL. Plant and Cell Physiology, 2016, 57, 2047-2057.	3.1	40
30	Functional characterization in Xenopus oocytes of Na+ transport systems from durum wheat reveals diversity among two HKT1;4 transporters. Journal of Experimental Botany, 2014, 65, 213-222.	4.8	39
31	Cloning and functional characterization of HKT1 and AKT1 genes of Fragaria spp.â€"Relationship to plant response to salt stress. Journal of Plant Physiology, 2017, 210, 9-17.	3.5	35
32	Regulation by External K+ in a Maize Inward Shaker Channel Targets Transport Activity in the High Concentration Range. Plant Cell, 2005, 17, 1532-1548.	6.6	33
33	A K⁺channel from saltâ€tolerant melon inhibited by Na⁺. New Phytologist, 2011, 189, 856-868.	7.3	25
34	BCL2-ASSOCIATED ATHANOGENE4 Regulates the KAT1 Potassium Channel and Controls Stomatal Movement. Plant Physiology, 2019, 181, 1277-1294.	4.8	25
35	Magnesium ions promote assembly of channelâ€like structures from beticolin 0, a nonâ€peptide fungal toxin purified from Cercospora beticola. Plant Journal, 1998, 14, 359-364.	5.7	23
36	Homology Modeling Identifies Crucial Amino-Acid Residues That Confer Higher Na+ Transport Capacity of OcHKT1;5 from Oryza coarctata Roxb. Plant and Cell Physiology, 2020, 61, 1321-1334.	3.1	23

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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. Frontiers in Plant Science, 2020, 11, 1130.	3.6	22
38	Different proline responses of two Algerian durum wheat cultivars to in vitro salt stress. Acta Physiologiae Plantarum, 2020, 42, 1.	2.1	21
39	To exclude or to accumulate? Revealing the role of the sodium HKT1;5 transporter in plant adaptive responses to varying soil salinity. Plant Physiology and Biochemistry, 2021, 169, 333-342.	5.8	20
40	Non-autonomous stomatal control by pavement cell turgor via the K+ channel subunit <i>AtKC1</i>. Plant Cell, 2022, 34, 2019-2037.	6.6	18
41	Investigation of Na+ and K+ Transport in Halophytes: Functional Analysis of the HmHKT2;1 Transporter from Hordeum maritimum and Expression under Saline Conditions. Plant and Cell Physiology, 2019, 60, 2423-2435.	3.1	17
42	<i>Arabidopsis thaliana</i> CYCLIC NUCLEOTIDEâ€GATED CHANNEL2 mediates extracellular ATP signal transduction in root epidermis. New Phytologist, 2022, 234, 412-421.	7.3	17
43	Functional characterization and physiological roles of the single Shaker outward K⁺ channel in <i>Medicago truncatula</i>. Plant Journal, 2020, 102, 1249-1265.	5.7	11
44	The S1â€“S2 linker determines the distinct <scp>pH</scp> sensitivity between ZmK2.1 and <scp>KAT</scp>1. Plant Journal, 2016, 85, 675-685.	5.7	10
45	Complex interactions among residues within pore region determine the K⁺ dependence of a <scp>KAT</scp>1â€type potassium channel Am<scp>KAT</scp>1. Plant Journal, 2015, 83, 401-412.	5.7	9
46	A repertoire of cationic and anionic conductances at the plasma membrane of Medicago truncatula root hairs. Plant Journal, 2019, 98, 418-433.	5.7	8
47	Plasma membrane transport systems in higher plants: From black boxes to molecular physiology. Physiologia Plantarum, 1997, 100, 1-15.	5.2	5
48	Functional Characterization of the Arabidopsis Ammonium Transporter AtAMT1;3 With the Emphasis on Structural Determinants of Substrate Binding and Permeation Properties. Frontiers in Plant Science, 2020, 11, 571.	3.6	5
49	The outward shaker channel OsK5.2 improves plant salt tolerance by contributing to control of both leaf transpiration and K⁺ secretion into xylem sap. Plant, Cell and Environment, 2022, 45, 1734-1748.	5.7	2
50	Internal Cs⁺ inhibits root elongation in rice. Plant Signaling and Behavior, 2018, 13, e1428516.	2.4	1
51	Na+ Sensitivity of the KAT2-Like Channel Is a Common Feature of Cucurbits and Depends on the S5-P-S6 Segment. Plant and Cell Physiology, 2022, 63, 279-289.	3.1	1