Kees Venema

List of Publications by Year in descending order

32 papers	2,121 citations	304743 22 h-index	414414 32 g-index
32 all docs	32 docs citations	32 times ranked	2215 citing authors

#	Article	IF	Citations
1	Plastidial transporters KEA1 and KEA2 at the inner envelope membrane adjust stromal pH in the dark. New Phytologist, 2021, 229, 2080-2090.	7.3	19
2	Improved yield, fruit quality, and salt resistance in tomato co-overexpressing LeNHX2 and SlSOS2 genes. Physiology and Molecular Biology of Plants, 2021, 27, 703-712.	3.1	4
3	Deletion of the Nâ€terminal domain of the yeast vacuolar (Na + ,K +)/H + antiporter Vnx1p improves salt tolerance in yeast and transgenic Arabidopsis. Yeast, 2020, 37, 173-185.	1.7	6
4	Overexpression of LeNHX4 improved yield, fruit quality and salt tolerance in tomato plants (Solanum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.8	18
5	Envelope K⁺/H⁺ Antiporters AtKEA1 and AtKEA2 Function in Plastid Development. Plant Physiology, 2016, 172, 441-449.	4.8	58
6	Ion antiport accelerates photosynthetic acclimation in fluctuating light environments. Nature Communications, 2014, 5, 5439.	12.8	205
7	The <scp><scp>K⁺</scp></scp>/<scp><scp>H⁺</scp></scp> antiporter <scp>LeNHX2</scp> increases salt tolerance by improving <scp><scp>K⁺</scp></scp> homeostasis in transgenic tomato. Plant, Cell and Environment, 2013, 36, 2135-2149.	5.7	67
8	Conserved and Diversified Gene Families of Monovalent Cation/H+ Antiporters from Algae to Flowering Plants. Frontiers in Plant Science, 2012, 3, 25.	3.6	192
9	Arabidopsis KEA2, a homolog of bacterial KefC, encodes a K+/H+ antiporter with a chloroplast transit peptide. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2362-2371.	2.6	81
10	Expression of LeNHX isoforms in response to salt stress in salt sensitive and salt tolerant tomato species. Plant Physiology and Biochemistry, 2012, 51, 109-115.	5.8	112
11	Evidence for a sodium efflux mechanism in the leaf cells of the seagrass Zostera marina L.. Journal of Experimental Marine Biology and Ecology, 2011, 402, 56-64.	1.5	15
12	Vacuolar Cation/H+ Antiporters of Saccharomyces cerevisiae*. Journal of Biological Chemistry, 2010, 285, 33914-33922.	3.4	39
13	Genetic analysis of Na+ and K+ concentrations in leaf and stem as physiological components of salt tolerance in Tomato. Theoretical and Applied Genetics, 2008, 116, 869-880.	3.6	87
14	Overexpression of the tomato K⁺/H⁺ antiporter LeNHX2 confers salt tolerance by improving potassium compartmentalization. New Phytologist, 2008, 179, 366-377.	7.3	151
15	Effect of salt stress on the expression of NHX-type ion transporters in Medicago intertexta and Melilotus indicus plants. Physiologia Plantarum, 2007, 131, 122-130.	5.2	46
16	Potassium as an Intrinsic Uncoupler of the Plasma Membrane H+-ATPase*. Journal of Biological Chemistry, 2006, 281, 38285-38292.	3.4	59
17	Heterologously expressed protein phosphatase calcineurin downregulates plant plasma membrane H+-ATPase activity at the post-translational level. FEBS Letters, 2004, 576, 266-270.	2.8	6
18	A Novel Intracellular K+/H+ Antiporter Related to Na+/H+ Antiporters Is Important for K+ Ion Homeostasis in Plants. Journal of Biological Chemistry, 2003, 278, 22453-22459.	3.4	138

#	Article	IF	Citations
19	The Arabidopsis Na+/H+Exchanger AtNHX1 Catalyzes Low Affinity Na+ and K+ Transport in Reconstituted Liposomes. Journal of Biological Chemistry, 2002, 277, 2413-2418.	3.4	201
20	Enhanced H+/ATP coupling ratio of H+-ATPase and increasedâ€¨14-3-3 protein content in plasma membrane of tomato cells upon osmotic shock. Physiologia Plantarum, 2002, 116, 37-41.	5.2	58
21	Involvement of endogenous salicylic acid content, lipoxygenase and antioxidant enzyme activities in the response of tomato cell suspension cultures to NaCl. New Phytologist, 2002, 156, 409-415.	7.3	91
22	Tolerance to NaCl induces changes in plasma membrane lipid composition, fluidity and H+ -ATPase activity of tomato calli. Physiologia Plantarum, 2001, 113, 217-224.	5.2	58
23	Abolishment of Proton Pumping and Accumulation in the E1P Conformational State of a Plant Plasma Membrane H+-ATPase by Substitution of a Conserved Aspartyl Residue in Transmembrane Segment 6. Journal of Biological Chemistry, 2000, 275, 39167-39173.	3.4	48
24	Molecular Dissection of the C-Terminal Regulatory Domain of the Plant Plasma Membrane H+-ATPase AHA2:â€‰ Mapping of Residues that When Altered Give Rise to an Activated Enzyme. Biochemistry, 1999, 38, 7227-7234.	2.5	94
25	Purification of a Histidine-Tagged Plant Plasma Membrane H+-ATPase Expressed in Yeast. Protein Expression and Purification, 1998, 12, 29-37.	1.3	32
26	P-Type H+- and Ca2+-ATPases in Plant Cells. Annals of the New York Academy of Sciences, 1997, 834, 77-87.	3.8	12
27	Purification of Heterologously Expressed Plant Plasma Membrane H+-ATPase by Ni2+-Affinity Chromatography. Annals of the New York Academy of Sciences, 1997, 834, 139-141.	3.8	3
28	Activation of the plant plasma membrane H+-ATPase. Is there a direct interaction between lysophosphatidylcholine and the C-terminal part of the enzyme?. FEBS Letters, 1996, 398, 48-52.	2.8	17
29	Modified plant plasma membrane H+-ATPase with improved transport coupling efficiency identified by mutant selection in yeast. Plant Journal, 1996, 10, 451-458.	5.7	67
30	Metabolic Modulation of Transport Coupling Ratio in Yeast Plasma Membrane H+-ATPase. Journal of Biological Chemistry, 1995, 270, 19659-19667.	3.4	71
31	Quantitative measurement of cationic fluxes, selectivity and membrane potential using liposomes multilabelled with fluorescent probes. Biochimica Et Biophysica Acta - Biomembranes, 1993, 1146, 87-96.	2.6	49
32	Spontaneous insertion of plant plasma membrane (H+)ATPase into a preformed bilayer. Journal of Membrane Biology, 1991, 120, 51-58.	2.1	17