

# Kees Venema

## List of Publications by Year in descending order

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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	Ion antiport accelerates photosynthetic acclimation in fluctuating light environments. <i>Nature Communications</i> , 2014, 5, 5439.	12.8	205
2	The Arabidopsis Na <sup>+</sup> /H <sup>+</sup> Exchanger AtNHX1 Catalyzes Low Affinity Na <sup>+</sup> and K <sup>+</sup> Transport in Reconstituted Liposomes. <i>Journal of Biological Chemistry</i> , 2002, 277, 2413-2418.	3.4	201
3	Conserved and Diversified Gene Families of Monovalent Cation/H <sup>+</sup> Antiporters from Algae to Flowering Plants. <i>Frontiers in Plant Science</i> , 2012, 3, 25.	3.6	192
4	Overexpression of the tomato K <sup>+</sup> /H <sup>+</sup> antiporter LeNHX2 confers salt tolerance by improving potassium compartmentalization. <i>New Phytologist</i> , 2008, 179, 366-377.	7.3	151
5	A Novel Intracellular K <sup>+</sup> /H <sup>+</sup> Antiporter Related to Na <sup>+</sup> /H <sup>+</sup> Antiporters Is Important for K <sup>+</sup> Ion Homeostasis in Plants. <i>Journal of Biological Chemistry</i> , 2003, 278, 22453-22459.	3.4	138
6	Expression of LeNHX isoforms in response to salt stress in salt sensitive and salt tolerant tomato species. <i>Plant Physiology and Biochemistry</i> , 2012, 51, 109-115.	5.8	112
7	Molecular Dissection of the C-Terminal Regulatory Domain of the Plant Plasma Membrane H <sup>+</sup> -ATPase AHA2: Mapping of Residues that When Altered Give Rise to an Activated Enzyme. <i>Biochemistry</i> , 1999, 38, 7227-7234.	2.5	94
8	Involvement of endogenous salicylic acid content, lipoxygenase and antioxidant enzyme activities in the response of tomato cell suspension cultures to NaCl. <i>New Phytologist</i> , 2002, 156, 409-415.	7.3	91
9	Genetic analysis of Na <sup>+</sup> and K <sup>+</sup> concentrations in leaf and stem as physiological components of salt tolerance in Tomato. <i>Theoretical and Applied Genetics</i> , 2008, 116, 869-880.	3.6	87
10	Arabidopsis KEA2, a homolog of bacterial KefC, encodes a K <sup>+</sup> /H <sup>+</sup> antiporter with a chloroplast transit peptide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2362-2371.	2.6	81
11	Metabolic Modulation of Transport Coupling Ratio in Yeast Plasma Membrane H <sup>+</sup> -ATPase. <i>Journal of Biological Chemistry</i> , 1995, 270, 19659-19667.	3.4	71
12	Modified plant plasma membrane H <sup>+</sup> -ATPase with improved transport coupling efficiency identified by mutant selection in yeast. <i>Plant Journal</i> , 1996, 10, 451-458.	5.7	67
13	The K <sup>+</sup> /H <sup>+</sup> antiporter LeNHX2 increases salt tolerance by improving K <sup>+</sup> homeostasis in transgenic tomato. <i>Plant, Cell and Environment</i> , 2013, 36, 2135-2149.	5.7	67
14	Potassium as an Intrinsic Uncoupler of the Plasma Membrane H <sup>+</sup> -ATPase*. <i>Journal of Biological Chemistry</i> , 2006, 281, 38285-38292.	3.4	59
15	Tolerance to NaCl induces changes in plasma membrane lipid composition, fluidity and H <sup>+</sup> -ATPase activity of tomato calli. <i>Physiologia Plantarum</i> , 2001, 113, 217-224.	5.2	58
16	Enhanced H <sup>+</sup> /ATP coupling ratio of H <sup>+</sup> -ATPase and increased 14-3-3 protein content in plasma membrane of tomato cells upon osmotic shock. <i>Physiologia Plantarum</i> , 2002, 116, 37-41.	5.2	58
17	Envelope K <sup>+</sup> /H <sup>+</sup> Antiporters AtKEA1 and AtKEA2 Function in Plastid Development. <i>Plant Physiology</i> , 2016, 172, 441-449.	4.8	58
18	Quantitative measurement of cationic fluxes, selectivity and membrane potential using liposomes multilabelled with fluorescent probes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993, 1146, 87-96.	2.6	49

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19	Abolishment of Proton Pumping and Accumulation in the E1P Conformational State of a Plant Plasma Membrane H <sup>+</sup> -ATPase by Substitution of a Conserved Aspartyl Residue in Transmembrane Segment 6. <i>Journal of Biological Chemistry</i> , 2000, 275, 39167-39173.	3.4	48
20	Effect of salt stress on the expression of NHX-type ion transporters in <i>Medicago intertexta</i> and <i>Melilotus indicus</i> plants. <i>Physiologia Plantarum</i> , 2007, 131, 122-130.	5.2	46
21	Vacuolar Cation/H <sup>+</sup> Antiporters of <i>Saccharomyces cerevisiae</i> *. <i>Journal of Biological Chemistry</i> , 2010, 285, 33914-33922.	3.4	39
22	Purification of a Histidine-Tagged Plant Plasma Membrane H <sup>+</sup> -ATPase Expressed in Yeast. <i>Protein Expression and Purification</i> , 1998, 12, 29-37.	1.3	32
23	Plastidial transporters KEA1 and KEA2 at the inner envelope membrane adjust stromal pH in the dark. <i>New Phytologist</i> , 2021, 229, 2080-2090.	7.3	19
24	Overexpression of LeNHX4 improved yield, fruit quality and salt tolerance in tomato plants ( <i>Solanum</i> ) Tj ETQq0 0 0,rgBT /Overlock 10 TF	2.8	18
25	Spontaneous insertion of plant plasma membrane (H <sup>+</sup> )ATPase into a preformed bilayer. <i>Journal of Membrane Biology</i> , 1991, 120, 51-58.	2.1	17
26	Activation of the plant plasma membrane H <sup>+</sup> -ATPase. Is there a direct interaction between lysophosphatidylcholine and the C-terminal part of the enzyme?. <i>FEBS Letters</i> , 1996, 398, 48-52.	2.8	17
27	Evidence for a sodium efflux mechanism in the leaf cells of the seagrass <i>Zostera marina</i> L.. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 402, 56-64.	1.5	15
28	P-Type H <sup>+</sup> - and Ca <sup>2+</sup> -ATPases in Plant Cells. <i>Annals of the New York Academy of Sciences</i> , 1997, 834, 77-87.	3.8	12
29	Heterologously expressed protein phosphatase calcineurin downregulates plant plasma membrane H <sup>+</sup> -ATPase activity at the post-translational level. <i>FEBS Letters</i> , 2004, 576, 266-270.	2.8	6
30	Deletion of the N-terminal domain of the yeast vacuolar (Na <sup>+</sup> ,K <sup>+</sup> )/H <sup>+</sup> antiporter Vnx1p improves salt tolerance in yeast and transgenic <i>Arabidopsis</i> . <i>Yeast</i> , 2020, 37, 173-185.	1.7	6
31	Improved yield, fruit quality, and salt resistance in tomato co-overexpressing LeNHX2 and SISOS2 genes. <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 703-712.	3.1	4
32	Purification of Heterologously Expressed Plant Plasma Membrane H <sup>+</sup> -ATPase by Ni <sup>2+</sup> -Affinity Chromatography. <i>Annals of the New York Academy of Sciences</i> , 1997, 834, 139-141.	3.8	3