Michael Broberg Palmgren

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7172783/publications.pdf

Version: 2024-02-01

181 papers	17,935 citations	14614 66 h-index	13727 129 g-index
222 all docs	222 docs citations	222 times ranked	13614 citing authors

#	Article	IF	Citations
1	Controlling flowering of <i>Medicago sativa</i> (alfalfa) by inducing dominant mutations. Journal of Integrative Plant Biology, 2022, 64, 205-214.	4.1	2
2	Corrigendum to: Proton and calcium pumping P-type ATPases and their regulation of plant responses to the environment. Plant Physiology, 2022, 188, 2379-2381.	2.3	4
3	Hexose transport reverts the growth penalty of mlo resistance. Trends in Plant Science, 2022, 27, 739-741.	4.3	2
4	Accelerated Domestication of New Crops: Yield is Key. Plant and Cell Physiology, 2022, 63, 1624-1640.	1.5	16
5	Phylogenetic analysis of <scp>ABCG</scp> subfamily proteins in plants: functional clustering and coevolution with <scp>ABCGs</scp> of pathogens. Physiologia Plantarum, 2021, 172, 1422-1438.	2.6	11
6	GRF-GIF Chimeras Boost Plant Regeneration. Trends in Plant Science, 2021, 26, 201-204.	4.3	38
7	Proton and calcium pumping P-type ATPases and their regulation of plant responses to the environment. Plant Physiology, 2021, 187, 1856-1875.	2.3	29
8	A conserved, buried cysteine near the P-site is accessible to cysteine modifications and increases ROS stability in the P-type plasma membrane H+-ATPase. Biochemical Journal, 2021, 478, 619-632.	1.7	9
9	The quest for the central players governing pollen tube growth and guidance. Plant Physiology, 2021, 185, 682-693.	2.3	9
10	Dynamic membranes: the multiple roles of P4 and P5 ATPases. Plant Physiology, 2021, 185, 619-631.	2.3	13
11	Advances of Biotechnology in Quinoa Production: A Global Perspective. , 2021, , 79-111.		2
12	Evolution of P2A and P5A ATPases: ancient gene duplications and the red algal connection to green plants revisited. Physiologia Plantarum, 2020, 168, 630-647.	2.6	11
13	Tonoplast-localized Ca ²⁺ pumps regulate Ca ²⁺ signals during pattern-triggered immunity in <i>Arabidopsis thaliana</i>. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18849-18857.	3.3	62
14	Pseudohyphal growth in <i>Saccharomyces cerevisiae</i> involves protein kinase-regulated lipid flippases. Journal of Cell Science, 2020, 133, .	1.2	18
15	Channelrhodopsin-mediated optogenetics highlights a central role of depolarization-dependent plant proton pumps. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20920-20925.	3.3	46
16	Current status of the multinational Arabidopsis community. Plant Direct, 2020, 4, e00248.	0.8	13
17	Evidence for multiple receptors mediating RALFâ€triggered Ca²⁺ signaling and proton pump inhibition. Plant Journal, 2020, 104, 433-446.	2.8	40
18	A potential pathway for flippase-facilitated glucosylceramide catabolism in plants. Plant Signaling and Behavior, 2020, 15, 1783486.	1.2	4

#	Article	IF	Citations
19	Predicted AS3MT Proteins Methylate Arsenic and Support Two Major Phylogenetic AS3MT Groups. Chemical Research in Toxicology, 2020, 33, 3041-3047.	1.7	13
20	Plasma membrane H+-ATPases sustain pollen tube growth and fertilization. Nature Communications, 2020, 11, 2395.	5.8	80
21	The Lipid Flippases ALA4 and ALA5 Play Critical Roles in Cell Expansion and Plant Growth. Plant Physiology, 2020, 182, 2111-2125.	2.3	11
22	Reduction of the P5A-ATPase Spf1p phosphoenzyme by a Ca2+-dependent phosphatase. PLoS ONE, 2020, 15, e0232476.	1.1	8
23	Towards single-cell ionomics: a novel micro-scaled method for multi-element analysis of nanogram-sized biological samples. Plant Methods, 2020, 16, 31.	1.9	10
24	Roadmap for Accelerated Domestication of an Emerging Perennial Grain Crop. Trends in Plant Science, 2020, 25, 525-537.	4.3	65
25	Prospects for the accelerated improvement of the resilient crop quinoa. Journal of Experimental Botany, 2020, 71, 5333-5347.	2.4	49
26	A CRISPR way for accelerating improvement of food crops. Nature Food, 2020, 1, 200-205.	6.2	125
27	The transport mechanism of P4 ATPase lipid flippases. Biochemical Journal, 2020, 477, 3769-3790.	1.7	25
28	Gene-editing in plants no longer requires tissue culture. Frontiers of Agricultural Science and Engineering, 2020, 7, 229.	0.9	1
29	<i>Arabidopsis</i> ABCG28 is required for the apical accumulation of reactive oxygen species in growing pollen tubes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12540-12549.	3.3	36
30	Short-chain lipid-conjugated pH sensors for imaging of transporter activities in reconstituted systems and living cells. Analyst, The, 2019, 144, 3030-3037.	1.7	7
31	Catch You on the Flip Side: A Critical Review of Flippase Mutant Phenotypes. Trends in Plant Science, 2019, 24, 468-478.	4.3	29
32	Evolution and a revised nomenclature of P4 ATPases, a eukaryotic family of lipid flippases. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 1135-1151.	1.4	46
33	Roles of plasma membrane proton ATPases AHA2 and AHA7 in normal growth of roots and root hairs in <scp><i>Arabidopsis thaliana</i></scp>. Physiologia Plantarum, 2019, 166, 848-861.	2.6	36
34	The P5A ATPase Spf1p is stimulated by phosphatidylinositol 4-phosphate and influences cellular sterol homeostasis. Molecular Biology of the Cell, 2019, 30, 1069-1084.	0.9	37
35	The lipid head group is the key element for substrate recognition by the P4 ATPase ALA2: a phosphatidylserine flippase. Biochemical Journal, 2019, 476, 783-794.	1.7	12
36	The plasma membrane H⁺â€ATPase, a simple polypeptide with a long history. Yeast, 2019, 36, 201-210.	0.8	34

#	Article	IF	Citations
37	Isolation of native plasma membrane H⁺â€‹<scp>ATP</scp>ase (Pma1p) in both the active and basal activation states. FEBS Open Bio, 2018, 8, 774-783.	1.0	10
38	LEGOâ€Inspired Drug Design: Unveiling a Class of Benzo[<i>d</i>]thiazoles Containing a 3,4â€Dihydroxyphenyl Moiety as Plasma Membrane H⁺â€ATPase Inhibitors. ChemMedChem, 2018, 13, 37-47.	1.6	9
39	Plant epithelia: What is the role of the mortar in the wall?. PLoS Biology, 2018, 16, e3000073.	2.6	3
40	Heavy Metal Pumps in Plants: Structure, Function and Origin. Advances in Botanical Research, 2018, , 57-89.	0.5	11
41	Parkinson disease related ATP13A2 evolved early in animal evolution. PLoS ONE, 2018, 13, e0193228.	1.1	47
42	Accelerating the Domestication of New Crops: Feasibility and Approaches. Trends in Plant Science, 2017, 22, 373-384.	4.3	117
43	Why do plants lack sodium pumps and would they benefit from having one?. Functional Plant Biology, 2017, 44, 473.	1.1	23
44	A cis -Regulatory Sequence Acts as a Repressor in the Arabidopsis thaliana SporophyteÂbut as an Activator in Pollen. Molecular Plant, 2017, 10, 775-778.	3.9	4
45	Phospholipid flipping involves a central cavity in P4 ATPases. Scientific Reports, 2017, 7, 17621.	1.6	48
46	AS3MT-mediated tolerance to arsenic evolved by multiple independent horizontal gene transfers from bacteria to eukaryotes. PLoS ONE, 2017, 12, e0175422.	1.1	29
47	Purifying selection acts on coding and non-coding sequences of paralogous genes in Arabidopsis thaliana. BMC Genomics, 2016, 17, 456.	1.2	11
48	Mother-plant-mediated pumping of zinc into the developing seed. Nature Plants, 2016, 2, 16036.	4.7	62
49	Plasma Membrane H + -ATPase Regulation in the Center of Plant Physiology. Molecular Plant, 2016, 9, 323-337.	3.9	391
50	Measuring H+ Pumping and Membrane Potential Formation in Sealed Membrane Vesicle Systems. Methods in Molecular Biology, 2016, 1377, 171-180.	0.4	2
51	Plant ABC Transporters Enable Many Unique Aspects of a Terrestrial Plant's Lifestyle. Molecular Plant, 2016, 9, 338-355.	3.9	302
52	Transient Expression of P-type ATPases in Tobacco Epidermal Cells. Methods in Molecular Biology, 2016, 1377, 383-393.	0.4	4
53	Demethoxycurcumin Is A Potent Inhibitor of P-Type ATPases from Diverse Kingdoms of Life. PLoS ONE, 2016, 11, e0163260.	1.1	17
54	Metal Fluoride Inhibition of a P-type H+ Pump. Journal of Biological Chemistry, 2015, 290, 20396-20406.	1.6	12

#	Article	IF	Citations
55	Loss of the Arabidopsis thaliana P4-ATPases ALA6 and ALA7 impairs pollen fitness and alters the pollen tube plasma membrane. Frontiers in Plant Science, 2015, 6, 197.	1.7	33
56	Specific Activation of the Plant P-type Plasma Membrane H+-ATPase by Lysophospholipids Depends on the Autoinhibitory N- and C-terminal Domains. Journal of Biological Chemistry, 2015, 290, 16281-16291.	1.6	33
57	A phospholipid uptake system in the model plant Arabidopsis thaliana. Nature Communications, 2015, 6, 7649.	5.8	71
58	Feasibility of new breeding techniques for organic farming. Trends in Plant Science, 2015, 20, 426-434.	4.3	94
59	A lipid switch unlocks Parkinsonâ€™s disease-associated ATP13A2. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9040-9045.	3.3	87
60	Lipid-conjugated fluorescent pH sensors for monitoring pH changes in reconstituted membrane systems. Analyst, The, 2015, 140, 6313-6320.	1.7	29
61	Are we ready for back-to-nature crop breeding?. Trends in Plant Science, 2015, 20, 155-164.	4.3	203
62	Towards defining the substrate of orphan P5A-ATPases. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 524-535.	1.1	40
63	Structure and mechanism of ATP-dependent phospholipid transporters. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 461-475.	1.1	64
64	A High-Yield Co-Expression System for the Purification of an Intact Drs2p-Cdc50p Lipid Flippase Complex, Critically Dependent on and Stabilized by Phosphatidylinositol-4-Phosphate. PLoS ONE, 2014, 9, e112176.	1.1	23
65	Cellular function and pathological role of ATP13A2 and related P-type transport ATPases in Parkinson's disease and other neurological disorders. Frontiers in Molecular Neuroscience, 2014, 7, 48.	1.4	68
66	Many rivers to cross: the journey of zinc from soil to seed. Frontiers in Plant Science, 2014, 5, 30.	1.7	160
67	P4-ATPases: lipid flippases in cell membranes. Pflugers Archiv European Journal of Physiology, 2014, 466, 1227-1240.	1.3	104
68	Receptor kinaseâ€mediated control of primary active proton pumping at the plasma membrane. Plant Journal, 2014, 80, 951-964.	2.8	112
69	Large Scale Identification and Categorization of Protein Sequences Using Structured Logistic Regression. PLoS ONE, 2014, 9, e85139.	1.1	12
70	Active Plasma Membrane P-type H+-ATPase Reconstituted into Nanodiscs Is a Monomer. Journal of Biological Chemistry, 2013, 288, 26419-26429.	1.6	18
71	A Conserved Asparagine in a P-type Proton Pump Is Required for Efficient Gating of Protons. Journal of Biological Chemistry, 2013, 288, 9610-9618.	1.6	16
72	Epigenetic Repression of Male Gametophyte-Specific Genes in the Arabidopsis Sporophyte. Molecular Plant, 2013, 6, 1176-1186.	3.9	13

#	Article	IF	Citations
73	Loss of the Arabidopsis thaliana P4-ATPase ALA3 Reduces Adaptability to Temperature Stresses and Impairs Vegetative, Pollen, and Ovule Development. PLoS ONE, 2013, 8, e62577.	1.1	37
74	Ca2+ Induces Spontaneous Dephosphorylation of a Novel P5A-type ATPase. Journal of Biological Chemistry, 2012, 287, 28336-28348.	1.6	17
75	A bimodular mechanism of calcium control in eukaryotes. Nature, 2012, 491, 468-472.	13.7	110
76	Phosphosite Mapping of P-type Plasma Membrane H+-ATPase in Homologous and Heterologous Environments. Journal of Biological Chemistry, 2012, 287, 4904-4913.	1.6	60
77	A Putative Plant Aminophospholipid Flippase, the Arabidopsis P4 ATPase ALA1, Localizes to the Plasma Membrane following Association with a Î²-Subunit. PLoS ONE, 2012, 7, e33042.	1.1	37
78	Barley HvHMA1 Is a Heavy Metal Pump Involved in Mobilizing Organellar Zn and Cu and Plays a Role in Metal Loading into Grains. PLoS ONE, 2012, 7, e49027.	1.1	56
79	Evolution of Plant P-Type ATPases. Frontiers in Plant Science, 2012, 3, 31.	1.7	132
80	Genetic Incorporation of an Unnatural Fluorescent Amino Acid in a Plant H-ATPase Expressed in Yeast. Biophysical Journal, 2011, 100, 465a.	0.2	0
81	Plasma Membrane ATPases. Plant Cell Monographs, 2011, , 177-192.	0.4	8
82	Heterologous expression and purification of membrane-bound pyrophosphatases. Protein Expression and Purification, 2011, 79, 25-34.	0.6	16
83	P-Type ATPases. Annual Review of Biophysics, 2011, 40, 243-266.	4.5	558
84	Calcium Efflux Systems in Stress Signaling and Adaptation in Plants. Frontiers in Plant Science, 2011, 2, 85.	1.7	206
85	Plasma membrane Ca²⁺ transporters mediate virusâ€induced acquired resistance to oxidative stress. Plant, Cell and Environment, 2011, 34, 406-417.	2.8	41
86	A structural overview of the plasma membrane Na+,K+-ATPase and H+-ATPase ion pumps. Nature Reviews Molecular Cell Biology, 2011, 12, 60-70.	16.1	345
87	Endomembrane Ca²⁺-ATPases play a significant role in virus-induced adaptation to oxidative stress. Plant Signaling and Behavior, 2011, 6, 1053-1056.	1.2	16
88	Phosphorylation of SOS3-Like Calcium-Binding Proteins by Their Interacting SOS2-Like Protein Kinases Is a Common Regulatory Mechanism in Arabidopsis Â Â. Plant Physiology, 2011, 156, 2235-2243.	2.3	116
89	Structural divergence between the two subgroups of P5 ATPases. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 846-855.	0.5	44
90	Expression, purification, crystallization and preliminary X-ray analysis of calmodulin in complex with the regulatory domain of the plasma-membrane Ca²⁺-ATPase ACA8. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 361-363.	0.7	8

#	Article	IF	Citations
91	Transmembrane nine proteins in yeast and Arabidopsis affect cellular metal contents without changing vacuolar morphology. Physiologia Plantarum, 2010, 140, 355-367.	2.6	13
92	The <i>Arabidopsis</i> Chaperone J3 Regulates the Plasma Membrane H+-ATPase through Interaction with the PKS5 Kinase Â. Plant Cell, 2010, 22, 1313-1332.	3.1	200
93	Intracellular Targeting Signals and Lipid Specificity Determinants of the ALA/ALIS P₄-ATPase Complex Reside in the Catalytic ALA Î±-Subunit. Molecular Biology of the Cell, 2010, 21, 791-801.	0.9	84
94	A Combined Zinc/Cadmium Sensor and Zinc/Cadmium Export Regulator in a Heavy Metal Pump. Journal of Biological Chemistry, 2010, 285, 31243-31252.	1.6	73
95	Structural identification of cation binding pockets in the plasma membrane proton pump. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21400-21405.	3.3	19
96	A Novel Mechanism of P-type ATPase Autoinhibition Involving Both Termini of the Protein. Journal of Biological Chemistry, 2010, 285, 7344-7350.	1.6	61
97	RIN4 Functions with Plasma Membrane H+-ATPases to Regulate Stomatal Apertures during Pathogen Attack. PLoS Biology, 2009, 7, e1000139.	2.6	240
98	P-type ATPases as drug targets: Tools for medicine and science. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 207-220.	0.5	129
99	Protons and how they are transported by proton pumps. Pflugers Archiv European Journal of Physiology, 2009, 457, 573-579.	1.3	96
100	Plasma membrane H⁺â€ATPaseâ€dependent citrate exudation from cluster roots of phosphateâ€deficient white lupin. Plant, Cell and Environment, 2009, 32, 465-475.	2.8	99
101	Flippases: still more questions than answers. Cellular and Molecular Life Sciences, 2008, 65, 3119-3125.	2.4	62
102	Phylogenetic analysis of P5 P-type ATPases, a eukaryotic lineage of secretory pathway pumps. Molecular Phylogenetics and Evolution, 2008, 46, 619-634.	1.2	58
103	Zinc biofortification of cereals: problems and solutions. Trends in Plant Science, 2008, 13, 464-473.	4.3	446
104	ECA3, a Golgi-Localized P2A-Type ATPase, Plays a Crucial Role in Manganese Nutrition in Arabidopsis. Plant Physiology, 2008, 146, 116-128.	2.3	155
105	The <i>Arabidopsis</i> P4-ATPase ALA3 Localizes to the Golgi and Requires a Î²-Subunit to Function in Lipid Translocation and Secretory Vesicle Formation. Plant Cell, 2008, 20, 658-676.	3.1	129
106	Crystal structure of the plasma membrane proton pump. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C112-C112.	0.3	3
107	Root Plasma Membrane Transporters Controlling K+/Na+ Homeostasis in Salt-Stressed Barley. Plant Physiology, 2007, 145, 1714-1725.	2.3	458
108	Temporal Analysis of Sucrose-induced Phosphorylation Changes in Plasma Membrane Proteins of Arabidopsis. Molecular and Cellular Proteomics, 2007, 6, 1711-1726.	2.5	251

#	ARTICLE	IF	CITATIONS
109	Arabidopsis Protein Kinase PKS5 Inhibits the Plasma Membrane H+-ATPase by Preventing Interaction with 14-3-3 Protein. Plant Cell, 2007, 19, 1617-1634.	3.1	388
110	Plant proton pumps. FEBS Letters, 2007, 581, 2204-2214.	1.3	450
111	Crystal structure of the plasma membrane proton pump. Nature, 2007, 450, 1111-1114.	13.7	359
112	Protein phosphatase 2A scaffolding subunit A interacts with plasma membrane H+-ATPase C-terminus in the same region as 14-3-3 protein. Physiologia Plantarum, 2006, 128, 334-340.	2.6	24
113	Potassium as an Intrinsic Uncoupler of the Plasma Membrane H+-ATPase*. Journal of Biological Chemistry, 2006, 281, 38285-38292.	1.6	59
114	The Plant Plasma Membrane Ca2+ Pump ACA8 Contains Overlapping as Well as Physically Separated Autoinhibitory and Calmodulin-binding Domains. Journal of Biological Chemistry, 2006, 281, 1058-1065.	1.6	57
115	Two plant Ca2+ pumps expressed in stomatal guard cells show opposite expression patterns during cold stress. Physiologia Plantarum, 2005, 124, 278-283.	2.6	48
116	Regulation of Plant Plasma Membrane H+- and Ca2+-ATPases by Terminal Domains. Journal of Bioenergetics and Biomembranes, 2005, 37, 369-374.	1.0	43
117	Pollen development and fertilization in Arabidopsis is dependent on the MALE GAMETOGENESIS IMPAIRED ANTHERS gene encoding a Type V P-type ATPase. Genes and Development, 2005, 19, 2757-2769.	2.7	86
118	A Systematic Mutagenesis Study of Ile-282 in Transmembrane Segment M4 of the Plasma Membrane H+-ATPase. Journal of Biological Chemistry, 2005, 280, 21785-21790.	1.6	10
119	Large-scale purification of the proton pumping pyrophosphatase from Thermotoga maritima: A â€œHot-Solveâ€•method for isolation of recombinant thermophilic membrane proteins. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1716, 69-76.	1.4	25
120	Energization of Transport Processes in Plants. Roles of the Plasma Membrane H+-ATPase. Plant Physiology, 2004, 136, 2475-2482.	2.3	290
121	A plant plasma membrane Ca2+ pump is required for normal pollen tube growth and fertilization. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9502-9507.	3.3	293
122	The Binding Site for Regulatory 14-3-3 Protein in Plant Plasma Membrane H+-ATPase. Journal of Biological Chemistry, 2003, 278, 42266-42272.	1.6	96
123	Mechanism of proton transport by plant plasma membrane proton ATPases. Journal of Plant Research, 2003, 116, 507-515.	1.2	28
124	Transcriptome analysis of root transporters reveals participation of multiple gene families in the response to cation stress. Plant Journal, 2003, 35, 675-692.	2.8	286
125	Mechanism of Proton Pumping by Plant Plasma Membrane H⁺â€ATPase. Annals of the New York Academy of Sciences, 2003, 986, 188-197.	1.8	7
126	Mutagenic Study of Residues in Transmembrane Helix 4, 5, and 6 of the Plant Plasma Membrane Pâ€Type H⁺â€ATPase. Annals of the New York Academy of Sciences, 2003, 986, 349-350.	1.8	1

#	Article	IF	Citations
127	Genomic Comparison of P-Type ATPase Ion Pumps in Arabidopsis and Rice. Plant Physiology, 2003, 132, 618-628.	2.3	320
128	Conserved Asp684 in Transmembrane Segment M6 of the Plant Plasma Membrane P-type Proton Pump AHA2 Is a Molecular Determinant of Proton Translocation. Journal of Biological Chemistry, 2003, 278, 17845-17851.	1.6	40
129	Post-translational Modification of Plant Plasma Membrane H+-ATPase as a Requirement for Functional Complementation of a Yeast Transport Mutant. Journal of Biological Chemistry, 2002, 277, 6353-6358.	1.6	32
130	Phosphorylation-independent interaction between 14-3-3 protein and the plant plasma membrane H+-ATPase. Biochemical Society Transactions, 2002, 30, 411-415.	1.6	21
131	Phosphorylation-independent interaction between 14-3-3 protein and the plant plasma membrane H+-ATPase. Biochemical Society Transactions, 2002, 30, A65-A65.	1.6	0
132	A long way ahead: understanding and engineering plant metal accumulation. Trends in Plant Science, 2002, 7, 309-315.	4.3	1,083
133	Post-translational modification of barley 14-3-3A is isoform-specific and involves removal of the hypervariable C-terminus. Plant Molecular Biology, 2002, 50, 535-542.	2.0	19
134	H+-ATPases in the Plasma Membrane. , 2002, , .		1
135	PLANTPLASMAMEMBRANEH+-ATPases: Powerhouses for Nutrient Uptake. Annual Review of Plant Biology, 2001, 52, 817-845.	14.2	744
136	Two-dimensional crystallization of a membrane protein on a detergent-resistant lipid monolayer 1 1Edited by R. Huber. Journal of Molecular Biology, 2001, 308, 639-647.	2.0	68
137	Large scale expression, purification and 2D crystallization of recombinant plant plasma membrane H+-ATPase. Journal of Molecular Biology, 2001, 309, 465-476.	2.0	29
138	A putative proton binding site of plasma membrane H+-ATPase identified through homology modelling. FEBS Letters, 2001, 494, 6-10.	1.3	30
139	Inventory of the Superfamily of P-Type Ion Pumps in Arabidopsis. Plant Physiology, 2001, 126, 696-706.	2.3	402
140	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.	1.6	48
141	At-ACA8 Encodes a Plasma Membrane-Localized Calcium-ATPase of Arabidopsis with a Calmodulin-Binding Domain at the N Terminus. Plant Physiology, 2000, 123, 1495-1506.	2.3	120
142	The ACA4 Gene of Arabidopsis Encodes a Vacuolar Membrane Calcium Pump That Improves Salt Tolerance in Yeast. Plant Physiology, 2000, 124, 1814-1827.	2.3	194
143	Chilling Tolerance in Arabidopsis Involves ALA1, a Member of a New Family of Putative Aminophospholipid Translocases. Plant Cell, 2000, 12, 2441-2453.	3.1	148
144	Molecular aspects of higher plant P-type Ca2+-ATPases. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1465, 52-78.	1.4	178

#	Article	IF	Citations
145	Pumping with plant P-type ATPases. Journal of Experimental Botany, 1999, 50, 883-893.	2.4	147
146	Energization of Plant Cell Membranes by H+-Pumping ATPases: Regulation and Biosynthesis. Plant Cell, 1999, 11, 677-689.	3.1	433
147	Binding of 14-3-3 Protein to the Plasma Membrane H+-ATPase AHA2 Involves the Three C-terminal Residues Tyr946-Thr-Val and Requires Phosphorylation of Thr947. Journal of Biological Chemistry, 1999, 274, 36774-36780.	1.6	311
148	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.	1.2	94
149	Pumping with plant P-type ATPases. Journal of Experimental Botany, 1999, 50, 883-893.	2.4	47
150	Deciphering the role of 14â€“3â€“3 proteins. , 1999, , 37-58.		3
151	Deciphering the role of 14-3-3 proteins. Experimental Biology Online, 1998, 3, 1-17.	1.0	14
152	Evolution of Substrate Specificities in the P-Type ATPase Superfamily. Journal of Molecular Evolution, 1998, 46, 84-101.	0.8	830
153	Evolution of P-type ATPases. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1365, 37-45.	0.5	206
154	14-3-3 proteins activate a plant calcium-dependent protein kinase (CDPK). FEBS Letters, 1998, 430, 381-384.	1.3	122
155	Purification of a Histidine-Tagged Plant Plasma Membrane H+-ATPase Expressed in Yeast. Protein Expression and Purification, 1998, 12, 29-37.	0.6	32
156	Proton Gradients and Plant Growth: Role of the Plasma Membrane H+-ATPase. Advances in Botanical Research, 1998, , 1-70.	0.5	107
157	A Novel Calmodulin-regulated Ca2+-ATPase (ACA2) from Arabidopsis with an N-terminal Autoinhibitory Domain. Journal of Biological Chemistry, 1998, 273, 1099-1106.	1.6	143
158	The 14-3-3 protein interacts directly with the C-terminal region of the plant plasma membrane H(+)-ATPase.. Plant Cell, 1997, 9, 1805-1814.	3.1	218
159	The 14-3-3 Protein Interacts Directly with the C-Terminal Region of the Plant Plasma Membrane H + -ATPase. Plant Cell, 1997, 9, 1805.	3.1	113
160	Plant pumps turned on by yeast. Trends in Plant Science, 1997, 2, 43-45.	4.3	2
161	A calmodulin-stimulated Ca2+ -ATPase from plant vacuolar membranes with a putative regulatory domain at its N-terminus 1. FEBS Letters, 1997, 400, 324-328.	1.3	99
162	P-Type H+- and Ca2+-ATPases in Plant Cells. Annals of the New York Academy of Sciences, 1997, 834, 77-87.	1.8	12

#	Article	IF	Citations
163	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.	1.8	3
164	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.	1.3	17
165	Modified plant plasma membrane H+-ATPase with improved transport coupling efficiency identified by mutant selection in yeast. Plant Journal, 1996, 10, 451-458.	2.8	67
166	Metabolic Modulation of Transport Coupling Ratio in Yeast Plasma Membrane H+-ATPase. Journal of Biological Chemistry, 1995, 270, 19659-19667.	1.6	71
167	C-Terminal Deletion Analysis of Plant Plasma Membrane H + -ATPase: Yeast as a Model System for Solute Transport across the Plant Plasma Membrane. Plant Cell, 1995, 7, 1655.	3.1	54
168	Capturing of host DNA by a plant retroelement: Bs1 encodes plasma membrane H+-ATPase domains. Plant Molecular Biology, 1994, 25, 137-140.	2.0	26
169	Activation of plant plasma membrane H+-ATPase by the non-ionic detergent Brij 58. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1196, 93-96.	1.4	8
170	Expression of the sarcoplasmic reticulum Ca2+-ATPase in yeast. FEBS Letters, 1994, 354, 117-122.	1.3	41
171	Complementation in situ of the yeast plasma membrane H+-ATPase genepmalby an H+-ATPase gene from a heterologous species. FEBS Letters, 1993, 317, 216-222.	1.3	66
172	Studies of the plasma membrane H+-ATPase of yeast and plants. Biochemical Society Transactions, 1992, 20, 562-566.	1.6	12
173	Regulation of plant plasma membrane H+-ATPase activity. Physiologia Plantarum, 1991, 83, 314-323.	2.6	123
174	Acridine orange as a probe for measuring pH gradients across membranes: Mechanism and limitations. Analytical Biochemistry, 1991, 192, 316-321.	1.1	186
175	Regulation of plant plasma membrane H+ ATPase activity. Physiologia Plantarum, 1991, 83, 314-323.	2.6	15
176	An H⁺-ATPase Assay: Proton Pumping and ATPase Activity Determined Simultaneously in the Same Sample. Plant Physiology, 1990, 94, 882-886.	2.3	90
177	Sealed Inside-Out and Right-Side-Out Plasma Membrane Vesicles. Plant Physiology, 1990, 92, 871-880.	2.3	184
178	Effect of detergents on the H+-ATPase activity of inside-out and right-side-out plant plasma membrane vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1021, 133-140.	1.4	93
179	Lysophosphatidylcholine Stimulates ATP Dependent Proton Accumulation in Isolated Oat Root Plasma Membrane Vesicles. Plant Physiology, 1989, 90, 1009-1014.	2.3	156
180	Modulation of plasma membrane H+-ATPase from oat roots by lysophosphatidylcholine, free fatty acids and phospholipase A2. Physiologia Plantarum, 1988, 74, 11-19.	2.6	131

#	Article	IF	Citations
181	Substrate stabilization of lysophosphatidylcholine-solubilized plasma membrane H+-ATPase from oat roots. Physiologia Plantarum, 1988, 74, 20-25.	2.6	11