

Michael Broberg Palmgren

List of Publications by Year in descending order

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181
papers

17,935
citations

14655
66
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13771
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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. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 205-214.	8.5	2
2	Corrigendum to: Proton and calcium pumping P-type ATPases and their regulation of plant responses to the environment. <i>Plant Physiology</i> , 2022, 188, 2379-2381.	4.8	4
3	Hexose transport reverts the growth penalty of mlo resistance. <i>Trends in Plant Science</i> , 2022, 27, 739-741.	8.8	2
4	Accelerated Domestication of New Crops: Yield is Key. <i>Plant and Cell Physiology</i> , 2022, 63, 1624-1640.	3.1	16
5	Phylogenetic analysis of ABCG subfamily proteins in plants: functional clustering and coevolution with ABCGs of pathogens. <i>Physiologia Plantarum</i> , 2021, 172, 1422-1438.	5.2	11
6	GRF-GIF Chimeras Boost Plant Regeneration. <i>Trends in Plant Science</i> , 2021, 26, 201-204.	8.8	38
7	Proton and calcium pumping P-type ATPases and their regulation of plant responses to the environment. <i>Plant Physiology</i> , 2021, 187, 1856-1875.	4.8	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. <i>Biochemical Journal</i> , 2021, 478, 619-632.	3.7	9
9	The quest for the central players governing pollen tube growth and guidance. <i>Plant Physiology</i> , 2021, 185, 682-693.	4.8	9
10	Dynamic membranes: the multiple roles of P4 and P5 ATPases. <i>Plant Physiology</i> , 2021, 185, 619-631.	4.8	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. <i>Physiologia Plantarum</i> , 2020, 168, 630-647.	5.2	11
13	Tonoplast-localized Ca ²⁺ pumps regulate Ca ²⁺ signals during pattern-triggered immunity in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18849-18857.	7.1	62
14	Pseudohyphal growth in <i>Saccharomyces cerevisiae</i> involves protein kinase-regulated lipid flippases. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	18
15	Channelrhodopsin-mediated optogenetics highlights a central role of depolarization-dependent plant proton pumps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20920-20925.	7.1	46
16	Current status of the multinational Arabidopsis community. <i>Plant Direct</i> , 2020, 4, e00248.	1.9	13
17	Evidence for multiple receptors mediating RALF-triggered Ca ²⁺ signaling and proton pump inhibition. <i>Plant Journal</i> , 2020, 104, 433-446.	5.7	40
18	A potential pathway for flippase-facilitated glucosylceramide catabolism in plants. <i>Plant Signaling and Behavior</i> , 2020, 15, 1783486.	2.4	4

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19	Predicted AS3MT Proteins Methylate Arsenic and Support Two Major Phylogenetic AS3MT Groups. <i>Chemical Research in Toxicology</i> , 2020, 33, 3041-3047.	3.3	13
20	Plasma membrane H ⁺ -ATPases sustain pollen tube growth and fertilization. <i>Nature Communications</i> , 2020, 11, 2395.	12.8	80
21	The Lipid Flippases ALA4 and ALA5 Play Critical Roles in Cell Expansion and Plant Growth. <i>Plant Physiology</i> , 2020, 182, 2111-2125.	4.8	11
22	Reduction of the P5A-ATPase Spf1p phosphoenzyme by a Ca ²⁺ -dependent phosphatase. <i>PLoS ONE</i> , 2020, 15, e0232476.	2.5	8
23	Towards single-cell ionomics: a novel micro-scaled method for multi-element analysis of nanogram-sized biological samples. <i>Plant Methods</i> , 2020, 16, 31.	4.3	10
24	Roadmap for Accelerated Domestication of an Emerging Perennial Grain Crop. <i>Trends in Plant Science</i> , 2020, 25, 525-537.	8.8	65
25	Prospects for the accelerated improvement of the resilient crop quinoa. <i>Journal of Experimental Botany</i> , 2020, 71, 5333-5347.	4.8	49
26	A CRISPR way for accelerating improvement of food crops. <i>Nature Food</i> , 2020, 1, 200-205.	14.0	125
27	The transport mechanism of P4 ATPase lipid flippases. <i>Biochemical Journal</i> , 2020, 477, 3769-3790.	3.7	25
28	Gene-editing in plants no longer requires tissue culture. <i>Frontiers of Agricultural Science and Engineering</i> , 2020, 7, 229.	1.4	1
29	<i>Arabidopsis</i> ABCG28 is required for the apical accumulation of reactive oxygen species in growing pollen tubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12540-12549.	7.1	36
30	Short-chain lipid-conjugated pH sensors for imaging of transporter activities in reconstituted systems and living cells. <i>Analyst</i> , 2019, 144, 3030-3037.	3.5	7
31	Catch You on the Flip Side: A Critical Review of Flippase Mutant Phenotypes. <i>Trends in Plant Science</i> , 2019, 24, 468-478.	8.8	29
32	Evolution and a revised nomenclature of P4 ATPases, a eukaryotic family of lipid flippases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 1135-1151.	2.6	46
33	Roles of plasma membrane proton ATPases AHA2 and AHA7 in normal growth of roots and root hairs in <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 2019, 166, 848-861.	5.2	36
34	The P5A ATPase Spf1p is stimulated by phosphatidylinositol 4-phosphate and influences cellular sterol homeostasis. <i>Molecular Biology of the Cell</i> , 2019, 30, 1069-1084.	2.1	37
35	The lipid head group is the key element for substrate recognition by the P4 ATPase ALA2: a phosphatidylserine flippase. <i>Biochemical Journal</i> , 2019, 476, 783-794.	3.7	12
36	The plasma membrane H ⁺ -ATPase, a simple polypeptide with a long history. <i>Yeast</i> , 2019, 36, 201-210.	1.7	34

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37	Isolation of native plasma membrane H ⁺ -ATPase (Pma1p) in both the active and basal activation states. FEBS Open Bio, 2018, 8, 774-783.	2.3	10
38	LEGO-Inspired Drug Design: Unveiling a Class of Benzo[<i>d</i>]thiazoles Containing a 3,4-Dihydroxyphenyl Moiety as Plasma Membrane H ⁺ -ATPase Inhibitors. ChemMedChem, 2018, 13, 37-47.	3.2	9
39	Plant epithelia: What is the role of the mortar in the wall?. PLoS Biology, 2018, 16, e3000073.	5.6	3
40	Heavy Metal Pumps in Plants: Structure, Function and Origin. Advances in Botanical Research, 2018, , 57-89.	1.1	11
41	Parkinson disease related ATP13A2 evolved early in animal evolution. PLoS ONE, 2018, 13, e0193228.	2.5	47
42	Accelerating the Domestication of New Crops: Feasibility and Approaches. Trends in Plant Science, 2017, 22, 373-384.	8.8	117
43	Why do plants lack sodium pumps and would they benefit from having one?. Functional Plant Biology, 2017, 44, 473.	2.1	23
44	A cis -Regulatory Sequence Acts as a Repressor in the Arabidopsis thaliana Sporophyte but as an Activator in Pollen. Molecular Plant, 2017, 10, 775-778.	8.3	4
45	Phospholipid flipping involves a central cavity in P4 ATPases. Scientific Reports, 2017, 7, 17621.	3.3	48
46	AS3MT-mediated tolerance to arsenic evolved by multiple independent horizontal gene transfers from bacteria to eukaryotes. PLoS ONE, 2017, 12, e0175422.	2.5	29
47	Purifying selection acts on coding and non-coding sequences of paralogous genes in Arabidopsis thaliana. BMC Genomics, 2016, 17, 456.	2.8	11
48	Mother-plant-mediated pumping of zinc into the developing seed. Nature Plants, 2016, 2, 16036.	9.3	62
49	Plasma Membrane H ⁺ -ATPase Regulation in the Center of Plant Physiology. Molecular Plant, 2016, 9, 323-337.	8.3	391
50	Measuring H ⁺ Pumping and Membrane Potential Formation in Sealed Membrane Vesicle Systems. Methods in Molecular Biology, 2016, 1377, 171-180.	0.9	2
51	Plant ABC Transporters Enable Many Unique Aspects of a Terrestrial Plant's Lifestyle. Molecular Plant, 2016, 9, 338-355.	8.3	302
52	Transient Expression of P-type ATPases in Tobacco Epidermal Cells. Methods in Molecular Biology, 2016, 1377, 383-393.	0.9	4
53	Demethoxycurcumin Is A Potent Inhibitor of P-Type ATPases from Diverse Kingdoms of Life. PLoS ONE, 2016, 11, e0163260.	2.5	17
54	Metal Fluoride Inhibition of a P-type H ⁺ Pump. Journal of Biological Chemistry, 2015, 290, 20396-20406.	3.4	12

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55	Loss of the Arabidopsis thaliana P4-ATPases ALA6 and ALA7 impairs pollen fitness and alters the pollen tube plasma membrane. <i>Frontiers in Plant Science</i> , 2015, 6, 197.	3.6	33
56	Specific Activation of the Plant P-type Plasma Membrane H ⁺ -ATPase by Lysophospholipids Depends on the Autoinhibitory N- and C-terminal Domains. <i>Journal of Biological Chemistry</i> , 2015, 290, 16281-16291.	3.4	33
57	A phospholipid uptake system in the model plant Arabidopsis thaliana. <i>Nature Communications</i> , 2015, 6, 7649.	12.8	71
58	Feasibility of new breeding techniques for organic farming. <i>Trends in Plant Science</i> , 2015, 20, 426-434.	8.8	94
59	A lipid switch unlocks Parkinson's disease-associated ATP13A2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9040-9045.	7.1	87
60	Lipid-conjugated fluorescent pH sensors for monitoring pH changes in reconstituted membrane systems. <i>Analyst</i> , 2015, 140, 6313-6320.	3.5	29
61	Are we ready for back-to-nature crop breeding?. <i>Trends in Plant Science</i> , 2015, 20, 155-164.	8.8	203
62	Towards defining the substrate of orphan P5A-ATPases. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 524-535.	2.4	40
63	Structure and mechanism of ATP-dependent phospholipid transporters. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 461-475.	2.4	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. <i>PLoS ONE</i> , 2014, 9, e112176.	2.5	23
65	Cellular function and pathological role of ATP13A2 and related P-type transport ATPases in Parkinson's disease and other neurological disorders. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 48.	2.9	68
66	Many rivers to cross: the journey of zinc from soil to seed. <i>Frontiers in Plant Science</i> , 2014, 5, 30.	3.6	160
67	P4-ATPases: lipid flippases in cell membranes. <i>Pflügers Archiv European Journal of Physiology</i> , 2014, 466, 1227-1240.	2.8	104
68	Receptor kinase-mediated control of primary active proton pumping at the plasma membrane. <i>Plant Journal</i> , 2014, 80, 951-964.	5.7	112
69	Large Scale Identification and Categorization of Protein Sequences Using Structured Logistic Regression. <i>PLoS ONE</i> , 2014, 9, e85139.	2.5	12
70	Active Plasma Membrane P-type H ⁺ -ATPase Reconstituted into Nanodiscs Is a Monomer. <i>Journal of Biological Chemistry</i> , 2013, 288, 26419-26429.	3.4	18
71	A Conserved Asparagine in a P-type Proton Pump Is Required for Efficient Gating of Protons. <i>Journal of Biological Chemistry</i> , 2013, 288, 9610-9618.	3.4	16
72	Epigenetic Repression of Male Gametophyte-Specific Genes in the Arabidopsis Sporophyte. <i>Molecular Plant</i> , 2013, 6, 1176-1186.	8.3	13

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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.	2.5	37
74	Ca ²⁺ Induces Spontaneous Dephosphorylation of a Novel P5A-type ATPase. Journal of Biological Chemistry, 2012, 287, 28336-28348.	3.4	17
75	A bimodular mechanism of calcium control in eukaryotes. Nature, 2012, 491, 468-472.	27.8	110
76	Phosphosite Mapping of P-type Plasma Membrane H ⁺ -ATPase in Homologous and Heterologous Environments. Journal of Biological Chemistry, 2012, 287, 4904-4913.	3.4	60
77	A Putative Plant Aminophospholipid Flippase, the Arabidopsis P4 ATPase ALA1, Localizes to the Plasma Membrane following Association with a I ² -Subunit. PLoS ONE, 2012, 7, e33042.	2.5	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.	2.5	56
79	Evolution of Plant P-Type ATPases. Frontiers in Plant Science, 2012, 3, 31.	3.6	132
80	Genetic Incorporation of an Unnatural Fluorescent Amino Acid in a Plant H-ATPase Expressed in Yeast. Biophysical Journal, 2011, 100, 465a.	0.5	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.	1.3	16
83	P-Type ATPases. Annual Review of Biophysics, 2011, 40, 243-266.	10.0	558
84	Calcium Efflux Systems in Stress Signaling and Adaptation in Plants. Frontiers in Plant Science, 2011, 2, 85.	3.6	206
85	Plasma membrane Ca ²⁺ transporters mediate virus-induced acquired resistance to oxidative stress. Plant, Cell and Environment, 2011, 34, 406-417.	5.7	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.	37.0	345
87	Endomembrane Ca ²⁺ -ATPases play a significant role in virus-induced adaptation to oxidative stress. Plant Signaling and Behavior, 2011, 6, 1053-1056.	2.4	16
88	Phosphorylation of SOS3-Like Calcium-Binding Proteins by Their Interacting SOS2-Like Protein Kinases Is a Common Regulatory Mechanism in Arabidopsis. Plant Physiology, 2011, 156, 2235-2243.	4.8	116
89	Structural divergence between the two subgroups of P5 ATPases. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 846-855.	1.0	44
90	Expression, purification, crystallization and preliminary X-ray analysis of calmodulin in complex with the regulatory domain of the plasma-membrane Ca ²⁺ -ATPase ACA8. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 361-363.	0.7	8

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91	Transmembrane nine proteins in yeast and Arabidopsis affect cellular metal contents without changing vacuolar morphology. <i>Physiologia Plantarum</i> , 2010, 140, 355-367.	5.2	13
92	The <i>Arabidopsis</i> Chaperone J3 Regulates the Plasma Membrane H ⁺ -ATPase through Interaction with the PKS5 Kinase Å. <i>Plant Cell</i> , 2010, 22, 1313-1332.	6.6	200
93	Intracellular Targeting Signals and Lipid Specificity Determinants of the ALA/ALIS P ₄ -ATPase Complex Reside in the Catalytic ALA Î±-Subunit. <i>Molecular Biology of the Cell</i> , 2010, 21, 791-801.	2.1	84
94	A Combined Zinc/Cadmium Sensor and Zinc/Cadmium Export Regulator in a Heavy Metal Pump. <i>Journal of Biological Chemistry</i> , 2010, 285, 31243-31252.	3.4	73
95	Structural identification of cation binding pockets in the plasma membrane proton pump. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21400-21405.	7.1	19
96	A Novel Mechanism of P-type ATPase Autoinhibition Involving Both Termini of the Protein. <i>Journal of Biological Chemistry</i> , 2010, 285, 7344-7350.	3.4	61
97	RIN4 Functions with Plasma Membrane H ⁺ -ATPases to Regulate Stomatal Apertures during Pathogen Attack. <i>PLoS Biology</i> , 2009, 7, e1000139.	5.6	240
98	P-type ATPases as drug targets: Tools for medicine and science. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 207-220.	1.0	129
99	Protons and how they are transported by proton pumps. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 457, 573-579.	2.8	96
100	Plasma membrane H ⁺ -ATPase-dependent citrate exudation from cluster roots of phosphate-deficient white lupin. <i>Plant, Cell and Environment</i> , 2009, 32, 465-475.	5.7	99
101	Flippases: still more questions than answers. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 3119-3125.	5.4	62
102	Phylogenetic analysis of P5 P-type ATPases, a eukaryotic lineage of secretory pathway pumps. <i>Molecular Phylogenetics and Evolution</i> , 2008, 46, 619-634.	2.7	58
103	Zinc biofortification of cereals: problems and solutions. <i>Trends in Plant Science</i> , 2008, 13, 464-473.	8.8	446
104	ECA3, a Golgi-Localized P2A-Type ATPase, Plays a Crucial Role in Manganese Nutrition in Arabidopsis. <i>Plant Physiology</i> , 2008, 146, 116-128.	4.8	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. <i>Plant Cell</i> , 2008, 20, 658-676.	6.6	129
106	Crystal structure of the plasma membrane proton pump. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2008, 64, C112-C112.	0.3	3
107	Root Plasma Membrane Transporters Controlling K ⁺ /Na ⁺ Homeostasis in Salt-Stressed Barley. <i>Plant Physiology</i> , 2007, 145, 1714-1725.	4.8	458
108	Temporal Analysis of Sucrose-induced Phosphorylation Changes in Plasma Membrane Proteins of Arabidopsis. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 1711-1726.	3.8	251

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109	Arabidopsis Protein Kinase PKS5 Inhibits the Plasma Membrane H ⁺ -ATPase by Preventing Interaction with 14-3-3 Protein. <i>Plant Cell</i> , 2007, 19, 1617-1634.	6.6	388
110	Plant proton pumps. <i>FEBS Letters</i> , 2007, 581, 2204-2214.	2.8	450
111	Crystal structure of the plasma membrane proton pump. <i>Nature</i> , 2007, 450, 1111-1114.	27.8	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. <i>Physiologia Plantarum</i> , 2006, 128, 334-340.	5.2	24
113	Potassium as an Intrinsic Uncoupler of the Plasma Membrane H ⁺ -ATPase*. <i>Journal of Biological Chemistry</i> , 2006, 281, 38285-38292.	3.4	59
114	The Plant Plasma Membrane Ca ²⁺ Pump ACA8 Contains Overlapping as Well as Physically Separated Autoinhibitory and Calmodulin-binding Domains. <i>Journal of Biological Chemistry</i> , 2006, 281, 1058-1065.	3.4	57
115	Two plant Ca ²⁺ pumps expressed in stomatal guard cells show opposite expression patterns during cold stress. <i>Physiologia Plantarum</i> , 2005, 124, 278-283.	5.2	48
116	Regulation of Plant Plasma Membrane H ⁺ - and Ca ²⁺ -ATPases by Terminal Domains. <i>Journal of Bioenergetics and Biomembranes</i> , 2005, 37, 369-374.	2.3	43
117	Pollen development and fertilization in Arabidopsis is dependent on the MALE GAMETOGENESIS IMPAIRED ANTHERS gene encoding a Type V P-type ATPase. <i>Genes and Development</i> , 2005, 19, 2757-2769.	5.9	86
118	A Systematic Mutagenesis Study of Ile-282 in Transmembrane Segment M4 of the Plasma Membrane H ⁺ -ATPase. <i>Journal of Biological Chemistry</i> , 2005, 280, 21785-21790.	3.4	10
119	Large-scale purification of the proton pumping pyrophosphatase from <i>Thermotoga maritima</i> : A "Hot-Solve" method for isolation of recombinant thermophilic membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1716, 69-76.	2.6	25
120	Energization of Transport Processes in Plants. Roles of the Plasma Membrane H ⁺ -ATPase. <i>Plant Physiology</i> , 2004, 136, 2475-2482.	4.8	290
121	A plant plasma membrane Ca ²⁺ pump is required for normal pollen tube growth and fertilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9502-9507.	7.1	293
122	The Binding Site for Regulatory 14-3-3 Protein in Plant Plasma Membrane H ⁺ -ATPase. <i>Journal of Biological Chemistry</i> , 2003, 278, 42266-42272.	3.4	96
123	Mechanism of proton transport by plant plasma membrane proton ATPases. <i>Journal of Plant Research</i> , 2003, 116, 507-515.	2.4	28
124	Transcriptome analysis of root transporters reveals participation of multiple gene families in the response to cation stress. <i>Plant Journal</i> , 2003, 35, 675-692.	5.7	286
125	Mechanism of Proton Pumping by Plant Plasma Membrane H ⁺ -ATPase. <i>Annals of the New York Academy of Sciences</i> , 2003, 986, 188-197.	3.8	7
126	Mutagenic Study of Residues in Transmembrane Helix 4, 5, and 6 of the Plant Plasma Membrane P ⁺ -Type H ⁺ -ATPase. <i>Annals of the New York Academy of Sciences</i> , 2003, 986, 349-350.	3.8	1

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127	Genomic Comparison of P-Type ATPase Ion Pumps in Arabidopsis and Rice. <i>Plant Physiology</i> , 2003, 132, 618-628.	4.8	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. <i>Journal of Biological Chemistry</i> , 2003, 278, 17845-17851.	3.4	40
129	Post-translational Modification of Plant Plasma Membrane H ⁺ -ATPase as a Requirement for Functional Complementation of a Yeast Transport Mutant. <i>Journal of Biological Chemistry</i> , 2002, 277, 6353-6358.	3.4	32
130	Phosphorylation-independent interaction between 14-3-3 protein and the plant plasma membrane H ⁺ -ATPase. <i>Biochemical Society Transactions</i> , 2002, 30, 411-415.	3.4	21
131	Phosphorylation-independent interaction between 14-3-3 protein and the plant plasma membrane H ⁺ -ATPase. <i>Biochemical Society Transactions</i> , 2002, 30, A65-A65.	3.4	0
132	A long way ahead: understanding and engineering plant metal accumulation. <i>Trends in Plant Science</i> , 2002, 7, 309-315.	8.8	1,083
133	Post-translational modification of barley 14-3-3A is isoform-specific and involves removal of the hypervariable C-terminus. <i>Plant Molecular Biology</i> , 2002, 50, 535-542.	3.9	19
134	H ⁺ -ATPases in the Plasma Membrane. , 2002, , .		1
135	PLANTPLASMA MEMBRANE H ⁺ -ATPases: Powerhouses for Nutrient Uptake. <i>Annual Review of Plant Biology</i> , 2001, 52, 817-845.	14.3	744
136	Two-dimensional crystallization of a membrane protein on a detergent-resistant lipid monolayer 1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2001, 308, 639-647.	4.2	68
137	Large scale expression, purification and 2D crystallization of recombinant plant plasma membrane H ⁺ -ATPase. <i>Journal of Molecular Biology</i> , 2001, 309, 465-476.	4.2	29
138	A putative proton binding site of plasma membrane H ⁺ -ATPase identified through homology modelling. <i>FEBS Letters</i> , 2001, 494, 6-10.	2.8	30
139	Inventory of the Superfamily of P-Type Ion Pumps in Arabidopsis. <i>Plant Physiology</i> , 2001, 126, 696-706.	4.8	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. <i>Journal of Biological Chemistry</i> , 2000, 275, 39167-39173.	3.4	48
141	At-ACA8 Encodes a Plasma Membrane-Localized Calcium-ATPase of Arabidopsis with a Calmodulin-Binding Domain at the N Terminus. <i>Plant Physiology</i> , 2000, 123, 1495-1506.	4.8	120
142	The ACA4 Gene of Arabidopsis Encodes a Vacuolar Membrane Calcium Pump That Improves Salt Tolerance in Yeast. <i>Plant Physiology</i> , 2000, 124, 1814-1827.	4.8	194
143	Chilling Tolerance in Arabidopsis Involves ALA1, a Member of a New Family of Putative Aminophospholipid Translocases. <i>Plant Cell</i> , 2000, 12, 2441-2453.	6.6	148
144	Molecular aspects of higher plant P-type Ca ²⁺ -ATPases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000, 1465, 52-78.	2.6	178

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145	Pumping with plant P-type ATPases. <i>Journal of Experimental Botany</i> , 1999, 50, 883-893.	4.8	147
146	Energization of Plant Cell Membranes by H ⁺ -Pumping ATPases: Regulation and Biosynthesis. <i>Plant Cell</i> , 1999, 11, 677-689.	6.6	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. <i>Journal of Biological Chemistry</i> , 1999, 274, 36774-36780.	3.4	311
148	Molecular Dissection of the C-Terminal Regulatory Domain of the Plant Plasma Membrane H ⁺ -ATPase AHA2: Mapping of Residues that When Altered Give Rise to an Activated Enzyme. <i>Biochemistry</i> , 1999, 38, 7227-7234.	2.5	94
149	Pumping with plant P-type ATPases. <i>Journal of Experimental Botany</i> , 1999, 50, 883-893.	4.8	47
150	Deciphering the role of 14-3-3 proteins. , 1999, , 37-58.		3
151	Deciphering the role of 14-3-3 proteins. <i>Experimental Biology Online</i> , 1998, 3, 1-17.	1.0	14
152	Evolution of Substrate Specificities in the P-Type ATPase Superfamily. <i>Journal of Molecular Evolution</i> , 1998, 46, 84-101.	1.8	830
153	Evolution of P-type ATPases. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998, 1365, 37-45.	1.0	206
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180	Modulation of plasma membrane H ⁺ -ATPase from oat roots by lysophosphatidylcholine, free fatty acids and phospholipase A2. <i>Physiologia Plantarum</i> , 1988, 74, 11-19.	5.2	131

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