

# Eduardo Blumwald

## List of Publications by Citations

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167  
papers

19,674  
citations

65  
h-index

140  
g-index

173  
ext. papers

22,742  
ext. citations

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L-index

#	Paper	IF	Citations
167	Salt tolerance conferred by overexpression of a vacuolar Na <sup>+</sup> /H <sup>+</sup> antiport in Arabidopsis. <i>Science</i> , <b>1999</b> , 285, 1256-8	33.3	1551
166	Reactive oxygen species, abiotic stress and stress combination. <i>Plant Journal</i> , <b>2017</b> , 90, 856-867	6.9	1026
165	Abiotic and biotic stress combinations. <i>New Phytologist</i> , <b>2014</b> , 203, 32-43	9.8	930
164	Hormone balance and abiotic stress tolerance in crop plants. <i>Current Opinion in Plant Biology</i> , <b>2011</b> , 14, 290-5	9.9	874
163	Transgenic salt-tolerant tomato plants accumulate salt in foliage but not in fruit. <i>Nature Biotechnology</i> , <b>2001</b> , 19, 765-8	44.5	829
162	Genetic engineering for modern agriculture: challenges and perspectives. <i>Annual Review of Plant Biology</i> , <b>2010</b> , 61, 443-62	30.7	702
161	Sodium transport and salt tolerance in plants. <i>Current Opinion in Cell Biology</i> , <b>2000</b> , 12, 431-4	9	693
160	Sodium transport in plant cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2000</b> , 1465, 140-51	3.8	673
159	Delayed leaf senescence induces extreme drought tolerance in a flowering plant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 19631-6	11.5	631
158	Developing salt-tolerant crop plants: challenges and opportunities. <i>Trends in Plant Science</i> , <b>2005</b> , 10, 615-20	13.1	630
157	Salt Tolerance and Crop Potential of Halophytes. <i>Critical Reviews in Plant Sciences</i> , <b>1999</b> , 18, 227-255	5.6	476
156	Na <sup>+</sup> transport in plants. <i>FEBS Letters</i> , <b>2007</b> , 581, 2247-54	3.8	350
155	The roles of ROS and ABA in systemic acquired acclimation. <i>Plant Cell</i> , <b>2015</b> , 27, 64-70	11.6	335
154	The Arabidopsis Na <sup>+</sup> /H <sup>+</sup> antiporters NHX1 and NHX2 control vacuolar pH and K <sup>+</sup> homeostasis to regulate growth, flower development, and reproduction. <i>Plant Cell</i> , <b>2011</b> , 23, 3482-97	11.6	318
153	Characterizing the Saltol Quantitative Trait Locus for Salinity Tolerance in Rice. <i>Rice</i> , <b>2010</b> , 3, 148-160	5.8	310
152	Engineering salt tolerance in plants. <i>Current Opinion in Biotechnology</i> , <b>2002</b> , 13, 146-50	11.4	309
151	Na/H Antiport in Isolated Tonoplast Vesicles from Storage Tissue of Beta vulgaris. <i>Plant Physiology</i> , <b>1985</b> , 78, 163-7	6.6	306

150	Salt Tolerance and Crop Potential of Halophytes		301
149	Vacuolar cation/H <sup>+</sup> exchange, ion homeostasis, and leaf development are altered in a T-DNA insertional mutant of AtNHX1, the Arabidopsis vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporter. <i>Plant Journal</i> , <b>2003</b> , 36, 229-339	6.9	290
148	Cytokinin-mediated source/sink modifications improve drought tolerance and increase grain yield in rice under water-stress. <i>Plant Biotechnology Journal</i> , <b>2011</b> , 9, 747-58	11.6	276
147	The Arabidopsis intracellular Na <sup>+</sup> /H <sup>+</sup> antiporters NHX5 and NHX6 are endosome associated and necessary for plant growth and development. <i>Plant Cell</i> , <b>2011</b> , 23, 224-39	11.6	227
146	Expression of an Arabidopsis vacuolar H <sup>+</sup> -pyrophosphatase gene (AVP1) in cotton improves drought- and salt tolerance and increases fibre yield in the field conditions. <i>Plant Biotechnology Journal</i> , <b>2011</b> , 9, 88-99	11.6	209
145	Cytokinin-dependent photorespiration and the protection of photosynthesis during water deficit. <i>Plant Physiology</i> , <b>2009</b> , 150, 1530-40	6.6	204
144	Vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporter cation selectivity is regulated by calmodulin from within the vacuole in a Ca <sup>2+</sup> - and pH-dependent manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 16107-12	11.5	198
143	Expression of an Arabidopsis vacuolar sodium/proton antiporter gene in cotton improves photosynthetic performance under salt conditions and increases fiber yield in the field. <i>Plant and Cell Physiology</i> , <b>2005</b> , 46, 1848-54	4.9	193
142	Cellular ion homeostasis: emerging roles of intracellular NHX Na <sup>+</sup> /H <sup>+</sup> antiporters in plant growth and development. <i>Journal of Experimental Botany</i> , <b>2012</b> , 63, 5727-40	7	190
141	Early signal transduction pathways in plant-pathogen interactions. <i>Trends in Plant Science</i> , <b>1998</b> , 3, 342-346	6.1	168
140	The ins and outs of intracellular ion homeostasis: NHX-type cation/H(+) transporters. <i>Current Opinion in Plant Biology</i> , <b>2014</b> , 22, 1-6	9.9	164
139	Effect of Specific Elicitors of <i>Cladosporium fulvum</i> on Tomato Suspension Cells : Evidence for the Involvement of Active Oxygen Species. <i>Plant Physiology</i> , <b>1992</b> , 99, 1208-15	6.6	163
138	Stress-induced cytokinin synthesis increases drought tolerance through the coordinated regulation of carbon and nitrogen assimilation in rice. <i>Plant Physiology</i> , <b>2013</b> , 163, 1609-22	6.6	157
137	Salinity-induced glutathione synthesis in <i>Brassica napus</i> . <i>Planta</i> , <b>2002</b> , 214, 965-9	4.7	157
136	Salt tolerance in suspension cultures of sugar beet : induction of na/h antiport activity at the tonoplast by growth in salt. <i>Plant Physiology</i> , <b>1987</b> , 83, 884-7	6.6	155
135	ABA Is Required for Plant Acclimation to a Combination of Salt and Heat Stress. <i>PLoS ONE</i> , <b>2016</b> , 11, e0147625	3.7	149
134	Regulated expression of an isopentenyltransferase gene (IPT) in peanut significantly improves drought tolerance and increases yield under field conditions. <i>Plant and Cell Physiology</i> , <b>2011</b> , 52, 1904-14	4.9	142
133	Salt stress response in rice: genetics, molecular biology, and comparative genomics. <i>Functional and Integrative Genomics</i> , <b>2006</b> , 6, 263-84	3.8	140

132	Enhanced cytokinin synthesis in tobacco plants expressing PSARK::IPT prevents the degradation of photosynthetic protein complexes during drought. <i>Plant and Cell Physiology</i> , <b>2010</b> , 51, 1929-41	4.9	134
131	Topological analysis of a plant vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporter reveals a luminal C terminus that regulates antiporter cation selectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 12510-5	11.5	134
130	In vivo intracellular pH measurements in tobacco and Arabidopsis reveal an unexpected pH gradient in the endomembrane system. <i>Plant Cell</i> , <b>2013</b> , 25, 4028-43	11.6	119
129	Tolerance of switchgrass to extreme soil moisture stress: Ecological implications. <i>Plant Science</i> , <b>2009</b> , 177, 724-732	5.3	118
128	Plant neurobiology: no brain, no gain?. <i>Trends in Plant Science</i> , <b>2007</b> , 12, 135-6	13.1	118
127	Beyond osmolytes and transporters: novel plant salt-stress tolerance-related genes from transcriptional profiling data. <i>Physiologia Plantarum</i> , <b>2006</b> , 127, 1-9	4.6	109
126	Stress-induced chloroplast degradation in Arabidopsis is regulated via a process independent of autophagy and senescence-associated vacuoles. <i>Plant Cell</i> , <b>2014</b> , 26, 4875-88	11.6	108
125	Kinetics of Ca/H Antiport in Isolated Tonoplast Vesicles from Storage Tissue of Beta vulgaris L. <i>Plant Physiology</i> , <b>1986</b> , 80, 727-31	6.6	107
124	Identification and characterization of a NaCl-inducible vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporter in Beta vulgaris. <i>Physiologia Plantarum</i> , <b>2002</b> , 116, 206-212	4.6	105
123	DNA array analyses of Arabidopsis thaliana lacking a vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporter: impact of AtNHX1 on gene expression. <i>Plant Journal</i> , <b>2004</b> , 40, 752-71	6.9	102
122	Osmoregulation and cell composition in salt-adaptation of Nostoc muscorum. <i>Archives of Microbiology</i> , <b>1982</b> , 132, 168-172	3	102
121	Targeting metabolic pathways for genetic engineering abiotic stress-tolerance in crops. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2012</b> , 1819, 186-94	6	97
120	Stress-induced senescence and plant tolerance to abiotic stress. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 845-853	7	95
119	Tonoplast vesicles as a tool in the study of ion transport at the plant vacuole. <i>Physiologia Plantarum</i> , <b>1987</b> , 69, 731-734	4.6	95
118	Coordinating the overall stomatal response of plants: Rapid leaf-to-leaf communication during light stress. <i>Science Signaling</i> , <b>2018</b> , 11,	8.8	93
117	Selection and validation of reference genes for gene expression analysis in switchgrass (Panicum virgatum) using quantitative real-time RT-PCR. <i>PLoS ONE</i> , <b>2014</b> , 9, e91474	3.7	92
116	Na <sup>+</sup> /H <sup>+</sup> antiport activity in tonoplast vesicles isolated from sunflower roots induced by NaCl stress. <i>Physiologia Plantarum</i> , <b>1997</b> , 99, 328-334	4.6	91
115	pH Regulation by NHX-Type Antiporters Is Required for Receptor-Mediated Protein Trafficking to the Vacuole in Arabidopsis. <i>Plant Cell</i> , <b>2015</b> , 27, 1200-17	11.6	89

114	Ionic Osmoregulation during Salt Adaptation of the Cyanobacterium <i>Synechococcus</i> 6311. <i>Plant Physiology</i> , <b>1983</b> , 73, 377-80	6.6	86
113	Water-deficit inducible expression of a cytokinin biosynthetic gene IPT improves drought tolerance in cotton. <i>PLoS ONE</i> , <b>2013</b> , 8, e64190	3.7	84
112	The citrus fruit proteome: insights into citrus fruit metabolism. <i>Planta</i> , <b>2007</b> , 226, 989-1005	4.7	84
111	Characterization of a family of vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporters in <i>Arabidopsis thaliana</i> . <i>Plant and Soil</i> , <b>2003</b> , 253, 245-256	4.2	83
110	Na <sup>+</sup> /H <sup>+</sup> exchange in the cyanobacterium <i>Synechococcus</i> 6311. <i>Biochemical and Biophysical Research Communications</i> , <b>1984</b> , 122, 452-9	3.4	80
109	Presence of Host-Plasma Membrane Type H-ATPase in the Membrane Envelope Enclosing the Bacteroids in Soybean Root Nodules. <i>Plant Physiology</i> , <b>1985</b> , 78, 665-72	6.6	74
108	Label-free shotgun proteomics and metabolite analysis reveal a significant metabolic shift during citrus fruit development. <i>Journal of Experimental Botany</i> , <b>2011</b> , 62, 5367-84	7	72
107	Role of SH3 domain-containing proteins in clathrin-mediated vesicle trafficking in <i>Arabidopsis</i> . <i>Plant Cell</i> , <b>2001</b> , 13, 2499-512	11.6	71
106	Polyols in grape berry: transport and metabolic adjustments as a physiological strategy for water-deficit stress tolerance in grapevine. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 889-906	7	69
105	Activation of a plant plasma membrane Ca <sup>2+</sup> channel by TGalpha1, a heterotrimeric G protein alpha-subunit homologue. <i>FEBS Letters</i> , <b>1998</b> , 424, 17-21	3.8	69
104	Identification and characterization of Vnx1p, a novel type of vacuolar monovalent cation/H <sup>+</sup> antiporter of <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 24284-93	5.4	67
103	Effects of gibberellin treatment during flowering induction period on global gene expression and the transcription of flowering-control genes in Citrus buds. <i>Plant Science</i> , <b>2013</b> , 198, 46-57	5.3	66
102	Intracellular NHX-type cation/H <sup>+</sup> antiporters in plants. <i>Molecular Plant</i> , <b>2014</b> , 7, 261-3	14.4	65
101	Extracellular glycosylphosphatidylinositol-anchored mannoproteins and proteases of <i>Cryptococcus neoformans</i> . <i>FEMS Yeast Research</i> , <b>2007</b> , 7, 499-510	3.1	64
100	Impact of AtNHX1, a vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporter, upon gene expression during short- and long-term salt stress in <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , <b>2007</b> , 7, 18	5.3	61
99	Unique Physiological and Transcriptional Shifts under Combinations of Salinity, Drought, and Heat. <i>Plant Physiology</i> , <b>2017</b> , 174, 421-434	6.6	60
98	Engineering Salinity and Water-Stress Tolerance in Crop Plants. <i>Advances in Botanical Research</i> , <b>2011</b> , 57, 405-443	2.2	58
97	Inhibition of na/h antiport activity in sugar beet tonoplast by analogs of amiloride. <i>Plant Physiology</i> , <b>1987</b> , 85, 30-3	6.6	57

96	Cation Specificity of Vacuolar NHX-Type Cation/H Antiporters. <i>Plant Physiology</i> , <b>2019</b> , 179, 616-629	6.6	57
95	Co-overexpression of AVP1 and AtNHX1 in Cotton Further Improves Drought and Salt Tolerance in Transgenic Cotton Plants. <i>Plant Molecular Biology Reporter</i> , <b>2015</b> , 33, 167-177	1.7	54
94	Vacuolar citrate/H <sup>+</sup> symporter of citrus juice cells. <i>Planta</i> , <b>2006</b> , 224, 472-80	4.7	54
93	The rice transcription factor OsWRKY47 is a positive regulator of the response to water deficit stress. <i>Plant Molecular Biology</i> , <b>2015</b> , 88, 401-13	4.6	52
92	A grape berry ( <i>Vitis vinifera</i> L.) cation/proton antiporter is associated with berry ripening. <i>Plant and Cell Physiology</i> , <b>2007</b> , 48, 804-11	4.9	52
91	The relative contribution of elastic and osmotic adjustments to turgor maintenance of woody species.. <i>Physiologia Plantarum</i> , <b>1994</b> , 90, 408-413	4.6	48
90	Inhibition of aconitase in citrus fruit callus results in a metabolic shift towards amino acid biosynthesis. <i>Planta</i> , <b>2011</b> , 234, 501-13	4.7	47
89	Fruit load induces changes in global gene expression and in abscisic acid (ABA) and indole acetic acid (IAA) homeostasis in citrus buds. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 3029-44	7	45
88	Alternative splicing of a novel diacylglycerol kinase in tomato leads to a calmodulin-binding isoform. <i>Plant Journal</i> , <b>2000</b> , 24, 317-26	6.9	45
87	Spike-dip transformation of <i>Setaria viridis</i> . <i>Plant Journal</i> , <b>2016</b> , 86, 89-101	6.9	45
86	Two NHX-type transporters from <i>Helianthus tuberosus</i> improve the tolerance of rice to salinity and nutrient deficiency stress. <i>Plant Biotechnology Journal</i> , <b>2018</b> , 16, 310-321	11.6	44
85	Mechanism of Stimulation and Inhibition of Tonoplast H-ATPase of <i>Beta vulgaris</i> by Chloride and Nitrate. <i>Plant Physiology</i> , <b>1986</b> , 81, 120-5	6.6	44
84	A label-free differential quantitative mass spectrometry method for the characterization and identification of protein changes during citrus fruit development. <i>Proteome Science</i> , <b>2010</b> , 8, 68	2.6	42
83	Combined network analysis and machine learning allows the prediction of metabolic pathways from tomato metabolomics data. <i>Communications Biology</i> , <b>2019</b> , 2, 214	6.7	40
82	Regulation of ADL6 activity by its associated molecular network. <i>Plant Journal</i> , <b>2002</b> , 31, 565-76	6.9	40
81	Ethylene regulation of sugar metabolism in climacteric and non-climacteric plums. <i>Postharvest Biology and Technology</i> , <b>2018</b> , 139, 20-30	6.2	39
80	Effects of abiotic stress on physiological plasticity and water use of <i>Setaria viridis</i> (L.). <i>Plant Science</i> , <b>2016</b> , 251, 128-138	5.3	39
79	Frost hardiness gradients in shoots and roots of <i>picea mariana</i> seedlings. <i>Scandinavian Journal of Forest Research</i> , <b>1995</b> , 10, 32-36	1.7	39

78	Structural aspects of the adaptation of <i>Nostoc muscorum</i> to salt. <i>Archives of Microbiology</i> , <b>1982</b> , 132, 163-167	3	38
77	Characterization of Vacuolar Malate and K Channels under Physiological Conditions. <i>Plant Physiology</i> , <b>1992</b> , 100, 1137-41	6.6	37
76	The sugar beet gene encoding the sodium/proton exchanger 1 (BvNHX1) is regulated by a MYB transcription factor. <i>Planta</i> , <b>2010</b> , 232, 187-95	4.7	36
75	Iron-shortage-induced increase in citric acid content and reduction of cytosolic aconitase activity in Citrus fruit vesicles and calli. <i>Physiologia Plantarum</i> , <b>2007</b> , 131, 72-9	4.6	35
74	Assessing reference genes for accurate transcript normalization using quantitative real-time PCR in pearl millet [ <i>Pennisetum glaucum</i> (L.) R. Br]. <i>PLoS ONE</i> , <b>2014</b> , 9, e106308	3.7	35
73	Copper transport and compartmentation in grape cells. <i>Plant and Cell Physiology</i> , <b>2012</b> , 53, 1866-80	4.9	34
72	Changes in oxidation-reduction state and antioxidant enzymes in the roots of jack pine seedlings during cold acclimation. <i>Physiologia Plantarum</i> , <b>1998</b> , 104, 134-142	4.6	34
71	Salt adaptation of the cyanobacterium <i>synechococcus</i> 6311 growing in a continuous culture (turbidostat). <i>Plant Physiology</i> , <b>1984</b> , 74, 183-5	6.6	34
70	Water deficit stress tolerance in maize conferred by expression of an isopentenyltransferase (IPT) gene driven by a stress- and maturation-induced promoter. <i>Journal of Biotechnology</i> , <b>2016</b> , 220, 66-77	3.7	33
69	Upregulation of vacuolar H(+)-translocating pyrophosphatase by phosphate starvation of <i>Brassica napus</i> (rapeseed) suspension cell cultures. <i>FEBS Letters</i> , <b>2000</b> , 486, 155-8	3.8	33
68	Different characteristics of high yield formation between inbred japonica super rice and inter-sub-specific hybrid super rice. <i>Field Crops Research</i> , <b>2016</b> , 198, 179-187	5.5	32
67	Vacuolar Na <sup>+</sup> /H <sup>+</sup> NHX-Type Antiporters Are Required for Cellular K <sup>+</sup> Homeostasis, Microtubule Organization and Directional Root Growth. <i>Plants</i> , <b>2014</b> , 3, 409-26	4.5	31
66	Identification of G proteins mediating fungal elicitor-induced dephosphorylation of host plasma membrane H <sup>+</sup> -ATPase. <i>Journal of Experimental Botany</i> , <b>1997</b> , 48, 229-237	7	30
65	Water deficit stress-induced changes in carbon and nitrogen partitioning in <i>Chenopodium quinoa</i> Willd. <i>Planta</i> , <b>2016</b> , 243, 591-603	4.7	29
64	Sugar metabolism reprogramming in a non-climacteric bud mutant of a climacteric plum fruit during development on the tree. <i>Journal of Experimental Botany</i> , <b>2017</b> , 68, 5813-5828	7	29
63	Metabolic changes of <i>Vitis vinifera</i> berries and leaves exposed to Bordeaux mixture. <i>Plant Physiology and Biochemistry</i> , <b>2014</b> , 82, 270-8	5.4	28
62	Ion channels in vacuoles from halophytes and glycophytes. <i>FEBS Letters</i> , <b>1989</b> , 255, 92-96	3.8	28
61	Non-climacteric ripening and sorbitol homeostasis in plum fruits. <i>Plant Science</i> , <b>2015</b> , 231, 30-9	5.3	27

60	Molecular characterization of SQUAMOSA PROMOTER BINDING PROTEIN-LIKE (SPL) gene family from Citrus and the effect of fruit load on their expression. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 389	6.2	27
59	Cytoplasmic chloride regulates cation channels in the vacuolar membrane of plant cells. <i>Journal of Membrane Biology</i> , <b>1992</b> , 125, 219-29	2.3	27
58	Primary Metabolism in Citrus Fruit as Affected by Its Unique Structure. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1167	6.2	25
57	Copper homeostasis in grapevine: functional characterization of the <i>Vitis vinifera</i> copper transporter 1. <i>Planta</i> , <b>2014</b> , 240, 91-101	4.7	25
56	Photolabeling of tonoplast from sugar beet cell suspensions by [h]5-(N-methyl-N-isobutyl)-amiloride, an inhibitor of the vacuolar na/h antiport. <i>Plant Physiology</i> , <b>1990</b> , 93, 924-30	6.6	24
55	Response of carbon and nitrogen-rich metabolites to nitrogen deficiency in PSARK::IPT tobacco plants. <i>Plant Physiology and Biochemistry</i> , <b>2012</b> , 57, 231-7	5.4	22
54	Improved growth, drought tolerance, and ultrastructural evidence of increased turgidity in tobacco plants overexpressing Arabidopsis vacuolar pyrophosphatase (AVP1). <i>Molecular Biotechnology</i> , <b>2013</b> , 54, 379-92	3	22
53	The gene-for-gene concept and beyond: Interactions and signals. <i>Canadian Journal of Plant Pathology</i> , <b>1998</b> , 20, 150-157	1.6	22
52	Delaying chloroplast turnover increases water-deficit stress tolerance through the enhancement of nitrogen assimilation in rice. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 867-878	7	22
51	RNA-Seq Analysis of Spatiotemporal Gene Expression Patterns During Fruit Development Revealed Reference Genes for Transcript Normalization in Plums. <i>Plant Molecular Biology Reporter</i> , <b>2015</b> , 33, 1634-1649	1.7	21
50	Sonication-assisted efficient Agrobacterium-mediated genetic transformation of the multipurpose woody desert shrub <i>Leptadenia pyrotechnica</i> . <i>Plant Cell, Tissue and Organ Culture</i> , <b>2013</b> , 112, 289-301	2.7	21
49	Developing climate-resilient crops: improving plant tolerance to stress combination. <i>Plant Journal</i> , <b>2021</b> ,	6.9	20
48	Cytokinin-dependent improvement in transgenic P(SARK)::IPT tobacco under nitrogen deficiency. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 10491-5	5.7	19
47	The induction of freezing tolerance in jack pine seedlings: The role of root plasma membrane H <sup>+</sup> -ATPase and redox activities. <i>Physiologia Plantarum</i> , <b>1995</b> , 93, 55-60	4.6	19
46	A novel plant vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporter gene evolved by DNA shuffling confers improved salt tolerance in yeast. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 22999-3006	5.4	18
45	Ammonium formation and assimilation in P(SARK)::IPT tobacco transgenic plants under low N. <i>Journal of Plant Physiology</i> , <b>2012</b> , 169, 157-62	3.6	17
44	Race-Specific Elicitors of <i>Cladosporium fulvum</i> Promote Translocation of Cytosolic Components of NADPH Oxidase to the Plasma Membrane of Tomato Cells. <i>Plant Cell</i> , <b>1997</b> , 9, 249	11.6	17
43	[12] Preparation of tonoplast vesicles: Applications to H <sup>+</sup> -coupled secondary transport in plant vacuoles. <i>Methods in Enzymology</i> , <b>1987</b> , 148, 115-123	1.7	17



42	Tonoplast ion channels from sugar beet cell suspensions : inhibition by amiloride and its analogs. <i>Plant Physiology</i> , <b>1990</b> , 94, 1788-94	6.6	16
41	Engineering salt tolerance in plants. <i>Biotechnology and Genetic Engineering Reviews</i> , <b>2003</b> , 20, 261-75	4.1	15
40	Targeting Hormone-Related Pathways to Improve Grain Yield in Rice: A Chemical Approach. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131213	3.7	14
39	The regulation of the SARK promoter activity by hormones and environmental signals. <i>Plant Science</i> , <b>2012</b> , 193-194, 39-47	5.3	14
38	Generalization of DNA microarray dispersion properties: microarray equivalent of t-distribution. <i>Biology Direct</i> , <b>2006</b> , 1, 27	7.2	14
37	Hormone balance in a climacteric plum fruit and its non-climacteric bud mutant during ripening. <i>Plant Science</i> , <b>2019</b> , 280, 51-65	5.3	14
36	Isolation of a citrus promoter specific for reproductive organs and its functional analysis in isolated juice sacs and tomato. <i>Plant Cell Reports</i> , <b>2011</b> , 30, 1627-40	5.1	12
35	Domains as functional building blocks of plant proteins. <i>Trends in Plant Science</i> , <b>2002</b> , 7, 544-9	13.1	12
34	Diurnal variation in heat tolerance and heat shock protein expression in black spruce ( <i>Piceamariana</i> ). <i>Canadian Journal of Forest Research</i> , <b>1995</b> , 25, 369-375	1.9	12
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28	Correlation-based network analysis combined with machine learning techniques highlight the role of the GABA shunt in <i>Brachypodium sylvaticum</i> freezing tolerance. <i>Scientific Reports</i> , <b>2020</b> , 10, 4489	4.9	8
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14	Preparation of Plasma Membrane Vesicles from Black Spruce and Jack Pine Roots. <i>Journal of Plant Physiology</i> , <b>1989</b> , 135, 467-471	3.6	2
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7	Modèle topologique de la structure d'un antiport vacuolaire de type NHX chez la vigne cultivée ( <i>Vitis vinifera</i> ). <i>Botany</i> , <b>2009</b> , 87, 339-347	1.3	1

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1	Copper stress in grapevine <b>2016</b> , 299-319		