Eduardo Blumwald

List of Publications by Year
in descending order

169 papers	25,413 citations	10986 71 h-index	6836 155 g-index
173 all docs	173 docs citations	173 times ranked	18362 citing authors

#	Article	IF	Citations
1	Salt Tolerance Conferred by Overexpression of a Vacuolar Na+/H+ Antiport in Arabidopsis. Science, 1999, 285, 1256-1258.	12.6	1,763
2	Reactive oxygen species, abiotic stress and stress combination. Plant Journal, 2017, 90, 856-867.	5.7	1,759
3	Abiotic and biotic stress combinations. New Phytologist, 2014, 203, 32-43.	7.3	1,460
4	Hormone balance and abiotic stress tolerance in crop plants. Current Opinion in Plant Biology, 2011, 14, 290-295.	7.1	1,112
5	Transgenic salt-tolerant tomato plants accumulate salt in foliage but not in fruit. Nature Biotechnology, 2001, 19, 765-768.	17.5	978
6	Genetic Engineering for Modern Agriculture: Challenges and Perspectives. Annual Review of Plant Biology, 2010, 61, 443-462.	18.7	902
7	Sodium transport and salt tolerance in plants. Current Opinion in Cell Biology, 2000, 12, 431-434.	5.4	812
8	Sodium transport in plant cells. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1465, 140-151.	2.6	782
9	Delayed leaf senescence induces extreme drought tolerance in a flowering plant. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19631-19636.	7.1	768
10	Developing salt-tolerant crop plants: challenges and opportunities. Trends in Plant Science, 2005, 10, 615-620.	8.8	760
11	Salt Tolerance and Crop Potential of Halophytes. Critical Reviews in Plant Sciences, 1999, 18, 227-255.	5.7	557
12	The Roles of ROS and ABA in Systemic Acquired Acclimation. Plant Cell, 2015, 27, 64-70.	6.6	450
13	Na+ transport in plants. FEBS Letters, 2007, 581, 2247-2254.	2.8	435
14	The <i>Arabidopsis</i> Na+/H+ Antiporters NHX1 and NHX2 Control Vacuolar pH and K+ Homeostasis to Regulate Growth, Flower Development, and Reproduction Â. Plant Cell, 2011, 23, 3482-3497.	6.6	417
15	Characterizing the Saltol Quantitative Trait Locus for Salinity Tolerance in Rice. Rice, 2010, 3, 148-160.	4.0	413
16	Salt Tolerance and Crop Potential of Halophytes. Critical Reviews in Plant Sciences, 1999, 18, 227-255.	5.7	371
17	Engineering salt tolerance in plants. Current Opinion in Biotechnology, 2002, 13, 146-150.	6.6	361
18	Na⁺/H⁺ Antiport in Isolated Tonoplast Vesicles from Storage Tissue of <i>Beta vulgaris</i>. Plant Physiology, 1985, 78, 163-167.	4.8	339

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19	Cytokininâ€mediated source/sink modifications improve drought tolerance and increase grain yield in rice under waterâ€stress. Plant Biotechnology Journal, 2011, 9, 747-758.	8.3	333
20	Vacuolar cation/H+exchange, ion homeostasis, and leaf development are altered in a T-DNA insertional mutant ofAtNHX1, theArabidopsisvacuolar Na+/H+antiporter. Plant Journal, 2003, 36, 229-239.	5.7	331
21	The <i>Arabidopsis</i> Intracellular Na+/H+ Antiporters NHX5 and NHX6 Are Endosome Associated and Necessary for Plant Growth and Development. Plant Cell, 2011, 23, 224-239.	6.6	286
22	ABA Is Required for Plant Acclimation to a Combination of Salt and Heat Stress. PLoS ONE, 2016, 11, e0147625.	2.5	267
23	Expression of an Arabidopsis vacuolar H⁺â€pyrophosphatase gene (<i>AVP1</i>) in cotton improves droughtâ€and salt tolerance and increases fibre yield in the field conditions. Plant Biotechnology Journal, 2011, 9, 88-99.	8.3	253
24	Cellular ion homeostasis: emerging roles of intracellular NHX Na+/H+ antiporters in plant growth and development. Journal of Experimental Botany, 2012, 63, 5727-5740.	4.8	236
25	Expression of an Arabidopsis Vacuolar Sodium/Proton Antiporter Gene in Cotton Improves Photosynthetic Performance Under Salt Conditions and Increases Fiber Yield in the Field. Plant and Cell Physiology, 2005, 46, 1848-1854.	3.1	233
26	The ins and outs of intracellular ion homeostasis: NHX-type cation/H + transporters. Current Opinion in Plant Biology, 2014, 22, 1-6.	7.1	229
27	Cytokinin-Dependent Photorespiration and the Protection of Photosynthesis during Water Deficit Â Â. Plant Physiology, 2009, 150, 1530-1540.	4.8	228
28	Vacuolar Na+/H+ antiporter cation selectivity is regulated by calmodulin from within the vacuole in a Ca2+- and pH-dependent manner. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16107-16112.	7.1	222
29	Stress-Induced Cytokinin Synthesis Increases Drought Tolerance through the Coordinated Regulation of Carbon and Nitrogen Assimilation in Rice. Plant Physiology, 2013, 163, 1609-1622.	4.8	213
30	Developing climateâ€resilient crops: improving plant tolerance to stress combination. Plant Journal, 2022, 109, 373-389.	5.7	198
31	Stress-induced senescence and plant tolerance to abiotic stress. Journal of Experimental Botany, 2018, 69, 845-853.	4.8	190
32	Salinity-induced glutathione synthesis in Brassica napus. Planta, 2002, 214, 965-969.	3.2	186
33	Early signal transduction pathways in plantâ€"pathogen interactions. Trends in Plant Science, 1998, 3, 342-346.	8.8	183
34	Salt Tolerance in Suspension Cultures of Sugar Beet. Plant Physiology, 1987, 83, 884-887.	4.8	174
35	Regulated Expression of an Isopentenyltransferase Gene (IPT) in Peanut Significantly Improves Drought Tolerance and Increases Yield Under Field Conditions. Plant and Cell Physiology, 2011, 52, 1904-1914.	3.1	174
36	Effect of Specific Elicitors of Cladosporium fulvum on Tomato Suspension Cells. Plant Physiology, 1992, 99, 1208-1215.	4.8	172

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37	Salt stress response in rice: genetics, molecular biology, and comparative genomics. Functional and Integrative Genomics, 2006, 6, 263-284.	3.5	169
38	Topological analysis of a plant vacuolar Na+/H+ antiporter reveals a luminal C terminus that regulates antiporter cation selectivity. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12510-12515.	7.1	161
39	In Vivo Intracellular pH Measurements in Tobacco and<i>Arabidopsis</i>Reveal an Unexpected pH Gradient in the Endomembrane System. Plant Cell, 2013, 25, 4028-4043.	6.6	161
40	Stress-Induced Chloroplast Degradation in <i>Arabidopsis</i> Is Regulated via a Process Independent of Autophagy and Senescence-Associated Vacuoles. Plant Cell, 2014, 26, 4875-4888.	6.6	161
41	Enhanced Cytokinin Synthesis in Tobacco Plants Expressing PSARK::IPT Prevents the Degradation of Photosynthetic Protein Complexes During Drought. Plant and Cell Physiology, 2010, 51, 1929-1941.	3.1	155
42	Coordinating the overall stomatal response of plants: Rapid leaf-to-leaf communication during light stress. Science Signaling, 2018, 11, .	3.6	150
43	Tolerance of switchgrass to extreme soil moisture stress: Ecological implications. Plant Science, 2009, 177, 724-732.	3.6	147
44	Plant neurobiology: no brain, no gain?. Trends in Plant Science, 2007, 12, 135-136.	8.8	146
45	Beyond osmolytes and transporters: novel plant salt-stress tolerance-related genes from transcriptional profiling data. Physiologia Plantarum, 2006, 127, 1-9.	5.2	132
46	pH Regulation by NHX-Type Antiporters Is Required for Receptor-Mediated Protein Trafficking to the Vacuole in Arabidopsis. Plant Cell, 2015, 27, 1200-1217.	6.6	126
47	Targeting metabolic pathways for genetic engineering abiotic stress-tolerance in crops. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 186-194.	1.9	122
48	Selection and Validation of Reference Genes for Gene Expression Analysis in Switchgrass (Panicum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.5	120
49	Cation Specificity of Vacuolar NHX-Type Cation/H⁺ Antiporters. Plant Physiology, 2019, 179, 616-629.	4.8	119
50	Kinetics of Ca2+/H+ Antiport in Isolated Tonoplast Vesicles from Storage Tissue of Beta vulgaris L.. Plant Physiology, 1986, 80, 727-731.	4.8	117
51	Identification and characterization of a NaCl-inducible vacuolar Na+ /H+ antiporter in Beta vulgaris. Physiologia Plantarum, 2002, 116, 206-212.	5.2	114
52	DNA array analyses of Arabidopsis thaliana lacking a vacuolar Na+/H+ antiporter: impact of AtNHX1 on gene expression. Plant Journal, 2004, 40, 752-771.	5.7	114
53	Osmoregulation and cell composition in salt-adaptation of Nostoc muscorum. Archives of Microbiology, 1982, 132, 168-172.	2.2	113
54	Characterization of a family of vacuolar Na+/H+antiporters in Arabidopsis thaliana. Plant and Soil, 2003, 253, 245-256.	3.7	109

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55	Tonoplast vesicles as a tool in the study of ion transport at the plant vacuole. Physiologia Plantarum, 1987, 69, 731-734.	5.2	107
56	Water-Deficit Inducible Expression of a Cytokinin Biosynthetic Gene IPT Improves Drought Tolerance in Cotton. PLoS ONE, 2013, 8, e64190.	2.5	104
57	Na+/H+ antiport activity in tonoplast vesicles isolated from sunflower roots induced by NaCl stress. Physiologia Plantarum, 1997, 99, 328-334.	5.2	99
58	Label-free shotgun proteomics and metabolite analysis reveal a significant metabolic shift during citrus fruit development. Journal of Experimental Botany, 2011, 62, 5367-5384.	4.8	98
59	Unique Physiological and Transcriptional Shifts under Combinations of Salinity, Drought, and Heat. Plant Physiology, 2017, 174, 421-434.	4.8	97
60	The citrus fruit proteome: insights into citrus fruit metabolism. Planta, 2007, 226, 989-1005.	3.2	93
61	The rice transcription factor OsWRKY47 is a positive regulator of the response to water deficit stress. Plant Molecular Biology, 2015, 88, 401-413.	3.9	92
62	Polyols in grape berry: transport and metabolic adjustments as a physiological strategy for water-deficit stress tolerance in grapevine. Journal of Experimental Botany, 2015, 66, 889-906.	4.8	92
63	Effects of gibberellin treatment during flowering induction period on global gene expression and the transcription of flowering-control genes in Citrus buds. Plant Science, 2013, 198, 46-57.	3.6	91
64	Ionic Osmoregulation during Salt Adaptation of the Cyanobacterium <i>Synechococcus</i> 6311. Plant Physiology, 1983, 73, 377-380.	4.8	89
65	Na+H+ exchange in the cyanobacterium Synechococcus 6311. Biochemical and Biophysical Research Communications, 1984, 122, 452-459.	2.1	86
66	Role of SH3 Domainâ€“Containing Proteins in Clathrin-Mediated Vesicle Trafficking in Arabidopsis. Plant Cell, 2001, 13, 2499-2512.	6.6	86
67	Impact of AtNHX1, a vacuolar Na+/H+ antiporter, upon gene expression during short- and long-term salt stress in Arabidopsis thaliana. BMC Plant Biology, 2007, 7, 18.	3.6	83
68	Presence of Host-Plasma Membrane Type H+-ATPase in the Membrane Envelope Enclosing the Bacteroids in Soybean Root Nodules. Plant Physiology, 1985, 78, 665-672.	4.8	81
69	Activation of a plant plasma membrane Ca2+channel by TGÎ±1, a heterotrimeric G protein Î±-subunit homologue. FEBS Letters, 1998, 424, 17-21.	2.8	78
70	Intracellular NHX-Type Cation/H+ Antiporters in Plants. Molecular Plant, 2014, 7, 261-263.	8.3	76
71	Extracellular glycosylphosphatidylinositol-anchored mannoproteins and proteases ofCryptococcus neoformans. FEMS Yeast Research, 2007, 7, 499-510.	2.3	75
72	Identification and Characterization of Vnx1p, a Novel Type of Vacuolar Monovalent Cation/H+ Antiporter of Saccharomyces cerevisiae. Journal of Biological Chemistry, 2007, 282, 24284-24293.	3.4	74

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73	Ethylene regulation of sugar metabolism in climacteric and non-climacteric plums. Postharvest Biology and Technology, 2018, 139, 20-30.	6.0	74
74	Two NHXâ€type transporters from <i>Helianthus tuberosus</i> improve the tolerance of rice to salinity and nutrient deficiency stress. Plant Biotechnology Journal, 2018, 16, 310-321.	8.3	71
75	Engineering Salinity and Water-Stress Tolerance in Crop Plants. Advances in Botanical Research, 2011, 57, 405-443.	1.1	70
76	Co-overexpression of AVP1 and AtNHX1 in Cotton Further Improves Drought and Salt Tolerance in Transgenic Cotton Plants. Plant Molecular Biology Reporter, 2015, 33, 167-177.	1.8	69
77	The relative contribution of elastic and osmotic adjustments to turgor maintenance of woody species.. Physiologia Plantarum, 1994, 90, 408-413.	5.2	68
78	Vacuolar citrate/H+ symporter of citrus juice cells. Planta, 2006, 224, 472-480.	3.2	65
79	Inhibition of Na⁺/H⁺ Antiport Activity in Sugar Beet Tonoplast by Analogs of Amiloride. Plant Physiology, 1987, 85, 30-33.	4.8	64
80	Fruit load induces changes in global gene expression and in abscisic acid (ABA) and indole acetic acid (IAA) homeostasis in citrus buds. Journal of Experimental Botany, 2014, 65, 3029-3044.	4.8	61
81	A Grape Berry (Vitis vinifera L.) Cation/Proton Antiporter is Associated with Berry Ripening. Plant and Cell Physiology, 2007, 48, 804-811.	3.1	59
82	Alternative splicing of a novel diacylglycerol kinase in tomato leads to a calmodulin-binding isoform. Plant Journal, 2000, 24, 317-326.	5.7	57
83	Primary Metabolism in Citrus Fruit as Affected by Its Unique Structure. Frontiers in Plant Science, 2019, 10, 1167.	3.6	56
84	Inhibition of aconitase in citrus fruit callus results in a metabolic shift towards amino acid biosynthesis. Planta, 2011, 234, 501-513.	3.2	55
85	Molecular characterization of SQUAMOSA PROMOTER BINDING PROTEIN-LIKE (SPL) gene family from Citrus and the effect of fruit load on their expression. Frontiers in Plant Science, 2015, 6, 389.	3.6	54
86	Spikeâ€dip transformation of <i>Setaria viridis</i>. Plant Journal, 2016, 86, 89-101.	5.7	54
87	Effects of abiotic stress on physiological plasticity and water use of Setaria viridis (L.). Plant Science, 2016, 251, 128-138.	3.6	53
88	Combined network analysis and machine learning allows the prediction of metabolic pathways from tomato metabolomics data. Communications Biology, 2019, 2, 214.	4.4	53
89	Different characteristics of high yield formation between inbred japonica super rice and inter-sub-specific hybrid super rice. Field Crops Research, 2016, 198, 179-187.	5.1	49
90	Water deficit stress-induced changes in carbon and nitrogen partitioning in Chenopodium quinoa Willd.. Planta, 2016, 243, 591-603.	3.2	49

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91	Mechanism of Stimulation and Inhibition of Tonoplast H⁺-ATPase of <i>Beta vulgaris</i> by Chloride and Nitrate. Plant Physiology, 1986, 81, 120-125.	4.8	48
92	Regulation of ADL6 activity by its associated molecular network. Plant Journal, 2002, 31, 565-576.	5.7	48
93	RNA-Seq Analysis of Spatiotemporal Gene Expression Patterns During Fruit Development Revealed Reference Genes for Transcript Normalization in Plums. Plant Molecular Biology Reporter, 2015, 33, 1634-1649.	1.8	48
94	Frost hardiness gradients in shoots and roots of<i>picea mariana</i>seedlings. Scandinavian Journal of Forest Research, 1995, 10, 32-36.	1.4	46
95	Non-climacteric ripening and sorbitol homeostasis in plum fruits. Plant Science, 2015, 231, 30-39.	3.6	46
96	Water deficit stress tolerance in maize conferred by expression of an isopentenyltransferase (IPT) gene driven by a stress- and maturation-induced promoter. Journal of Biotechnology, 2016, 220, 66-77.	3.8	46
97	Copper Transport and Compartmentation in Grape Cells. Plant and Cell Physiology, 2012, 53, 1866-1880.	3.1	45
98	A label-free differential quantitative mass spectrometry method for the characterization and identification of protein changes during citrus fruit development. Proteome Science, 2010, 8, 68.	1.7	44
99	Structural aspects of the adaptation of Nostoc muscorum to salt. Archives of Microbiology, 1982, 132, 163-167.	2.2	43
100	Changes in oxidation-reduction state and antioxidant enzymes in the roots of jack pine seedlings during cold acclimation. Physiologia Plantarum, 1998, 104, 134-142.	5.2	43
101	Sugar metabolism reprogramming in a non-climacteric bud mutant of a climacteric plum fruit during development on the tree. Journal of Experimental Botany, 2017, 68, 5813-5828.	4.8	42
102	The sugar beet gene encoding the sodium/proton exchanger 1 (BvNHX1) is regulated by a MYB transcription factor. Planta, 2010, 232, 187-195.	3.2	41
103	Ion channels in vacuoles from halophytes and glycophytes. FEBS Letters, 1989, 255, 92-96.	2.8	40
104	Metabolic changes of Vitis vinifera berries and leaves exposed to Bordeaux mixture. Plant Physiology and Biochemistry, 2014, 82, 270-278.	5.8	40
105	Cytoplasmic chloride regulates cation channels in the vacuolar membrane of plant cells. Journal of Membrane Biology, 1992, 125, 219-29.	2.1	39
106	Delaying chloroplast turnover increases water-deficit stress tolerance through the enhancement of nitrogen assimilation in rice. Journal of Experimental Botany, 2018, 69, 867-878.	4.8	39
107	Salt Adaptation of the Cyanobacterium Synechococcus 6311 Growing in a Continuous Culture (Turbidostat). Plant Physiology, 1984, 74, 183-185.	4.8	38
108	Characterization of Vacuolar Malate and K+ Channels under Physiological Conditions. Plant Physiology, 1992, 100, 1137-1141.	4.8	38

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109	Upregulation of vacuolar H+ -translocating pyrophosphatase by phosphate starvation of Brassica napus (rapeseed) suspension cell cultures. FEBS Letters, 2000, 486, 155-158.	2.8	38
110	Assessing Reference Genes for Accurate Transcript Normalization Using Quantitative Real-Time PCR in Pearl Millet [Pennisetum glaucum (L.) R. Br.]. PLoS ONE, 2014, 9, e106308.	2.5	38
111	Iron-shortage-induced increase in citric acid content and reduction of cytosolic aconitase activity in Citrus fruit vesicles and calli. Physiologia Plantarum, 2007, 131, 72-79.	5.2	37
112	Copper homeostasis in grapevine: functional characterization of the Vitis vinifera copper transporter 1. Planta, 2014, 240, 91-101.	3.2	35
113	Identification of G proteins mediating fungal elicitor-induced dephosphorylation of host plasma membrane H+-ATPase. Journal of Experimental Botany, 1997, 48, 229-237.	4.8	34
114	Vacuolar Na+/H+ NHX-Type Antiporters Are Required for Cellular K+ Homeostasis, Microtubule Organization and Directional Root Growth. Plants, 2014, 3, 409-426.	3.5	34
115	Race-Specific Elicitors of Cladosporium fulvum Promote Translocation of Cytosolic Components of NADPH Oxidase to the Plasma Membrane of Tomato Cells. Plant Cell, 1997, 9, 249.	6.6	32
116	Response of carbon and nitrogen-rich metabolites to nitrogen deficiency in PSARKâˆ·IPT tobacco plants. Plant Physiology and Biochemistry, 2012, 57, 231-237.	5.8	29
117	The gene-for-gene concept and beyond: Interactions and signals. Canadian Journal of Plant Pathology, 1998, 20, 150-157.	1.4	27
118	Rational design and testing of abiotic stressâ€‐inducible synthetic promoters from poplar <i>cis</i>â€‐regulatory elements. Plant Biotechnology Journal, 2021, 19, 1354-1369.	8.3	27
119	Sonication-assisted efficient Agrobacterium-mediated genetic transformation of the multipurpose woody desert shrub Leptadenia pyrotechnica. Plant Cell, Tissue and Organ Culture, 2013, 112, 289-301.	2.3	26
120	Targeting Hormone-Related Pathways to Improve Grain Yield in Rice: A Chemical Approach. PLoS ONE, 2015, 10, e0131213.	2.5	26
121	Photolabeling of Tonoplast from Sugar Beet Cell Suspensions by [³H]5-(<i>N</i>-Methyl-<i>N</i>-Isobutyl)-Amiloride, an Inhibitor of the Vacuolar Na⁺/H⁺ Antiport. Plant Physiology, 1990, 93, 924-930.	4.8	25
122	The induction of freezing tolerance in jack pine seedlings: The role of root plasma membrane H+ -ATPase and redox activities. Physiologia Plantarum, 1995, 93, 55-60.	5.2	25
123	Cytokinin-Dependent Improvement in Transgenic P_{SARK}::IPT Tobacco under Nitrogen Deficiency. Journal of Agricultural and Food Chemistry, 2011, 59, 10491-10495.	5.2	24
124	Engineering Salt Tolerance in Plants. Biotechnology and Genetic Engineering Reviews, 2003, 20, 261-276.	6.2	23
125	Improved Growth, Drought Tolerance, and Ultrastructural Evidence of Increased Turgidity in Tobacco Plants Overexpressing Arabidopsis Vacuolar Pyrophosphatase (AVP1). Molecular Biotechnology, 2013, 54, 379-392.	2.4	23
126	<scp>IDD</scp>16 negatively regulates stomatal initiation via transâ€‐repression of <i><scp>SPCH</scp></i> in <i>Arabidopsis</i>. Plant Biotechnology Journal, 2019, 17, 1446-1457.	8.3	22

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127	Ammonium formation and assimilation in PSARKâˆ·IPT tobacco transgenic plants under low N. Journal of Plant Physiology, 2012, 169, 157-162.	3.5	21
128	[12] Preparation of tonoplast vesicles: Applications to H+-coupled secondary transport in plant vacuoles. Methods in Enzymology, 1987, 148, 115-123.	1.0	20
129	A Novel Plant Vacuolar Na+/H+ Antiporter Gene Evolved by DNA Shuffling Confers Improved Salt Tolerance in Yeast. Journal of Biological Chemistry, 2010, 285, 22999-23006.	3.4	20
130	Hormone balance in a climacteric plum fruit and its non-climacteric bud mutant during ripening. Plant Science, 2019, 280, 51-65.	3.6	20
131	Silencing of <i>OsCV (chloroplast vesiculation)</i> maintained photorespiration and N assimilation in rice plants grown under elevated CO₂. Plant, Cell and Environment, 2020, 43, 920-933.	5.7	20
132	The regulation of the SARK promoter activity by hormones and environmental signals. Plant Science, 2012, 193-194, 39-47.	3.6	19
133	A Genetic Algorithm to Optimize Weighted Gene Co-Expression Network Analysis. Journal of Computational Biology, 2019, 26, 1349-1366.	1.6	18
134	Tonoplast Ion Channels from Sugar Beet Cell Suspensions. Plant Physiology, 1990, 94, 1788-1794.	4.8	17
135	Involvement of SchRabGDI1 from Solanum chilense in endocytic trafficking and tolerance to salt stress. Plant Science, 2017, 263, 1-11.	3.6	17
136	Imaging Salt Uptake Dynamics in Plants Using PET. Scientific Reports, 2019, 9, 18626.	3.3	17
137	Cellâ€Typeâ€Specific Proteomics Analysis of a Small Number of Plant Cells by Integrating Laser Capture Microdissection with a Nanodroplet Sample Processing Platform. Current Protocols, 2021, 1, e153.	2.9	17
138	Overexpression of PbrNHX2 gene, a Na+/H+ antiporter gene isolated from Pyrus betulaefolia, confers enhanced tolerance to salt stress via modulating ROS levels. Plant Science, 2019, 285, 14-25.	3.6	16
139	Diurnal variation in heat tolerance and heat shock protein expression in black spruce (<i>Picea</i><i>mariana</i>). Canadian Journal of Forest Research, 1995, 25, 369-375.	1.7	15
140	Generalization of DNA microarray dispersion properties: microarray equivalent of t-distribution. Biology Direct, 2006, 1, 27.	4.6	15
141	Effects of Short-Term Biosolarization Using Mature Compost and Industrial Tomato Waste Amendments on the Generation and Persistence of Biocidal Soil Conditions and Subsequent Tomato Growth. Journal of Agricultural and Food Chemistry, 2018, 66, 5451-5461.	5.2	15
142	Ethylene Response of Plum ACC Synthase 1 (ACS1) Promoter is Mediated through the Binding Site of Abscisic Acid Insensitive 5 (ABI5) Â. Plants, 2019, 8, 117.	3.5	15
143	MÃ©canismes et stratÃ©gies cellulaires de tolÃ©rance Ã la salinitÃ© (NaCl) chez les plantes. Environmental Reviews, 2011, 19, 121-140.	4.5	14
144	Domains as functional building blocks of plant proteins. Trends in Plant Science, 2002, 7, 544-549.	8.8	13

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145	Isolation of a citrus promoter specific for reproductive organs and its functional analysis in isolated juice sacs and tomato. Plant Cell Reports, 2011, 30, 1627-1640.	5.6	13
146	Correlation-based network analysis combined with machine learning techniques highlight the role of the GABA shunt in Brachypodium sylvaticum freezing tolerance. Scientific Reports, 2020, 10, 4489.	3.3	13
147	Stress-induced expression of IPT gene in transgenic wheat reduces grain yield penalty under drought. Journal of Genetic Engineering and Biotechnology, 2021, 19, 67.	3.3	12
148	RÃ´les biologiques des antiports vacuolaires NHX : acquis et perspectives dâ€™amÃ©lioration gÃ©nÃ©tique des plantes. Botany, 2009, 87, 1023-1035.	1.0	10
149	Changes in ethylene and sugar metabolism regulate flavonoid composition in climacteric and non-climacteric plums during postharvest storage. Food Chemistry Molecular Sciences, 2022, 4, 100075.	2.1	9
150	The effects of paclobutrazol, abscisic acid, and gibberellin on germination and early growth in silver, red, and hybrid maple. Canadian Journal of Forest Research, 2000, 30, 557-565.	1.7	8
151	PSARK::IPT expression causes protection of photosynthesis in tobacco plants during N deficiency. Environmental and Experimental Botany, 2014, 98, 40-46.	4.2	8
152	A zinc finger protein <scp>SlSZP1</scp> protects <scp>SlSTOP1</scp> from <scp>SlRAE1</scp>â€mediated degradation to modulate aluminum resistance. New Phytologist, 2022, 236, 165-181.	7.3	8
153	Generation of Octaploid Switchgrass by Seedling Treatment with Mitotic Inhibitors. Bioenergy Research, 2017, 10, 344-352.	3.9	7
154	Auxin Homeostasis and Distribution of the Auxin Efflux Carrier PIN2 Require Vacuolar NHX-Type Cation/H+ Antiporter Activity. Plants, 2020, 9, 1311.	3.5	7
155	A Cytoplasmic Receptor-like Kinase Contributes to Salinity Tolerance. Plants, 2020, 9, 1383.	3.5	7
156	Integrating genomics and genetics to accelerate development of drought and salinity tolerant crops. , 2012, , 271-286.		5
157	Preparation of Plasma Membrane Vesicles from Black Spruce and Jack Pine Roots. Journal of Plant Physiology, 1989, 135, 467-471.	3.5	4
158	Salt tolerance of two perennial grass Brachypodium sylvaticum accessions. Plant Molecular Biology, 2018, 96, 305-314.	3.9	4
159	Fluorescent Dye Based Measurement of Vacuolar pH and K+. Bio-protocol, 2013, 3, .	0.4	4
160	Haploidy and aneuploidy in switchgrass mediated by misexpression of <i>CENH3</i>. Plant Genome, 2023, 16, e20209.	2.8	4
161	Imaging Salt Transport in Plants Using PET: A Feasibility Study. , 2017, , .		3
162	An isopentenyl transferase transgenic wheat isoline exhibits less seminal root growth impairment and a differential metabolite profile under Cd stress. Physiologia Plantarum, 2021, 173, 223-234.	5.2	3

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163	Na+/H+ antiport activity in tonoplast vesicles isolated from sunflower roots induced by NaCl stress. Physiologia Plantarum, 1997, 99, 328-334.	5.2	3
164	Preface. Plant Science, 2016, 251, 1.	3.6	2
165	The Antifungal Activity of HMA, an Amiloride Analog and Inhibitor of Na+/H+ Exchangers. Frontiers in Microbiology, 2021, 12, 673035.	3.5	2
166	Molecular biology and transport properties of grapevine Na+/H+ antiporter. , 2008, , 305-315.		2
167	ModÃ¨le topologique de la structure dâ€™un antiport vacuolaire de type NHX chez la vigne cultivÃ©e (<i>Vitis vinifera</i>). Botany, 2009, 87, 339-347.	1.0	1
168	Spike-Dip Transformation Method of Setaria viridis. Plant Genetics and Genomics: Crops and Models, 2017, , 357-369.	0.3	1
169	Editorial. Plant Science, 2018, 274, 1.	3.6	0