

Stephen D Tyerman

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188
papers

11,512
citations

59
h-index

102
g-index

195
ext. papers

13,384
ext. citations

6.1
avg, IF

6.51
L-index

#	Paper	IF	Citations
188	Oxygen uptake rates have contrasting responses to temperature in the root meristem and elongation zone.. <i>Physiologia Plantarum</i> , 2022 , e13682	4.6	1
187	Expression of a CO-permeable aquaporin enhances mesophyll conductance in the C species. <i>ELife</i> , 2021 , 10,	8.9	5
186	Vascular Connections Into the Grape Berry: The Link of Structural Investment to Seededness. <i>Frontiers in Plant Science</i> , 2021 , 12, 662433	6.2	0
185	Adaptable and Multifunctional Ion-Conducting Aquaporins. <i>Annual Review of Plant Biology</i> , 2021 , 72, 703-736	30.7	20
184	An algal PIP-like aquaporin facilitates water transport and ionic conductance. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021 , 1863, 183661	3.8	
183	3D visualisation of voids in grapevine flowers and berries using X-ray micro computed tomography. <i>Australian Journal of Grape and Wine Research</i> , 2021 , 27, 141-148	2.4	1
182	Comparing Hydraulics Between Two Grapevine Cultivars Reveals Differences in Stomatal Regulation Under Water Stress and Exogenous ABA Applications. <i>Frontiers in Plant Science</i> , 2020 , 11, 705	6.2	13
181	Deciphering aquaporin regulation and roles in seed biology. <i>Journal of Experimental Botany</i> , 2020 , 71, 1763-1773	7	9
180	Plant transporters involved in combating boron toxicity: beyond 3D structures. <i>Biochemical Society Transactions</i> , 2020 , 48, 1683-1696	5.1	15
179	A laser ablation technique maps differences in elemental composition in roots of two barley cultivars subjected to salinity stress. <i>Plant Journal</i> , 2020 , 101, 1462-1473	6.9	3
178	Cytosolic GABA inhibits anion transport by wheat ALMT1. <i>New Phytologist</i> , 2020 , 225, 671-678	9.8	15
177	A Survey of Barley PIP Aquaporin Ionic Conductance Reveals Ca-Sensitive Na and K Conductance. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
176	Role of TaALMT1 malate-GABA transporter in alkaline pH tolerance of wheat. <i>Plant, Cell and Environment</i> , 2020 , 43, 2443-2459	8.4	4
175	Phosphorylation influences water and ion channel function of AtPIP2;1. <i>Plant, Cell and Environment</i> , 2020 , 43, 2428-2442	8.4	20
174	Energy costs of salt tolerance in crop plants. <i>New Phytologist</i> , 2020 , 225, 1072-1090	9.8	144
173	First report of grapevine rupestris vein feathering virus in grapevine in Australia. <i>Plant Disease</i> , 2020 ,	1.5	5
172	Engineering Strategies to Boost Crop Productivity by Cutting Respiratory Carbon Loss. <i>Plant Cell</i> , 2019 , 31, 297-314	11.6	46

171	Roles of membrane transporters: connecting the dots from sequence to phenotype. <i>Annals of Botany</i> , 2019 , 124, 201-208	4.1	7
170	Tissue and nitrogen-linked expression profiles of ammonium and nitrate transporters in maize. <i>BMC Plant Biology</i> , 2019 , 19, 206	5.3	22
169	The VvBAP1 gene is identified as a potential inhibitor of cell death in grape berries. <i>Functional Plant Biology</i> , 2019 , 46, 428-442	2.7	1
168	Evolution of chloroplast retrograde signaling facilitates green plant adaptation to land. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5015-5020	11.5	74
167	Variable effects of arbuscular mycorrhizal fungal inoculation on physiological and molecular measures of root and stomatal conductance of diverse <i>Medicago truncatula</i> accessions. <i>Plant, Cell and Environment</i> , 2019 , 42, 285-294	8.4	18
166	Non-Invasive Tools to Detect Smoke Contamination in Grapevine Canopies, Berries and Wine: A Remote Sensing and Machine Learning Modeling Approach. <i>Sensors</i> , 2019 , 19,	3.8	17
165	Expression Patterns of Genes Encoding Sugar and Potassium Transport Proteins Are Simultaneously Upregulated or Downregulated When Carbon and Potassium Availability Is Modified in Shiraz (<i>Vitis vinifera</i> L.) Berries. <i>Plant and Cell Physiology</i> , 2019 , 60, 2331-2342	4.9	8
164	Hypoxia in grape berries: the role of seed respiration and lenticels on the berry pedicel and the possible link to cell death. <i>Journal of Experimental Botany</i> , 2018 , 69, 2071-2083	7	23
163	Aluminum-Activated Malate Transporters Can Facilitate GABA Transport. <i>Plant Cell</i> , 2018 , 30, 1147-1164	11.6	45
162	Effect of water stress and elevated temperature on hypoxia and cell death in the mesocarp of Shiraz berries. <i>Australian Journal of Grape and Wine Research</i> , 2018 , 24, 487-497	2.4	11
161	Root Ideotype Influences Nitrogen Transport and Assimilation in Maize. <i>Frontiers in Plant Science</i> , 2018 , 9, 531	6.2	16
160	Feasibility study on the use of Near Infrared spectroscopy to measure water status of almond trees. <i>Acta Horticulturae</i> , 2018 , 79-84	0.3	3
159	Structural variations in wheat HKT1;5 underpin differences in Na transport capacity. <i>Cellular and Molecular Life Sciences</i> , 2018 , 75, 1133-1144	10.3	28
158	Regulating Root Aquaporin Function in Response to Changes in Salinity 2018 , 381-416		11
157	Exogenous application of abscisic acid to root systems of grapevines with or without salinity influences water relations and ion allocation. <i>Australian Journal of Grape and Wine Research</i> , 2017 , 23, 66-76	2.4	5
156	Application of sprinkler cooling within the bunch zone during ripening of Cabernet Sauvignon berries to reduce the impact of high temperature. <i>Australian Journal of Grape and Wine Research</i> , 2017 , 23, 48-57	2.4	10
155	Chloroplast function and ion regulation in plants growing on saline soils: lessons from halophytes. <i>Journal of Experimental Botany</i> , 2017 , 68, 3129-3143	7	102
154	Comparison of isohydric and anisohydric <i>Vitis vinifera</i> L. cultivars reveals a fine balance between hydraulic resistances, driving forces and transpiration in ripening berries. <i>Functional Plant Biology</i> , 2017 , 44, 324-338	2.7	16

153	Divalent Cations Regulate the Ion Conductance Properties of Diverse Classes of Aquaporins. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	35
152	Maize NPF6 Proteins Are Homologs of Arabidopsis CHL1 That Are Selective for Both Nitrate and Chloride. <i>Plant Cell</i> , 2017 , 29, 2581-2596	11.6	54
151	Abscisic Acid Down-Regulates Hydraulic Conductance of Grapevine Leaves in Isohydic Genotypes Only. <i>Plant Physiology</i> , 2017 , 175, 1121-1134	6.6	30
150	The dual benefit of arbuscular mycorrhizal fungi under soil zinc deficiency and toxicity: linking plant physiology and gene expression. <i>Plant and Soil</i> , 2017 , 420, 375-388	4.2	33
149	γ-Aminobutyric acid (GABA) signalling in plants. <i>Cellular and Molecular Life Sciences</i> , 2017 , 74, 1577-1603	10.3	136
148	Association between water and carbon dioxide transport in leaf plasma membranes: assessing the role of aquaporins. <i>Plant, Cell and Environment</i> , 2017 , 40, 789-801	8.4	20
147	Non-selective cation channel activity of aquaporin AtPIP2;1 regulated by Ca and pH. <i>Plant, Cell and Environment</i> , 2017 , 40, 802-815	8.4	108
146	Relationship between hydraulic and stomatal conductance and its regulation by root and leaf aquaporins under progressive water stress and recovery and exogenous application of ABA in <i>Vitis vinifera</i> L. <i>Byraħ Acta Horticulturae</i> , 2017 , 227-234	0.3	4
145	Potassium in the Grape (L.) Berry: Transport and Function. <i>Frontiers in Plant Science</i> , 2017 , 8, 1629	6.2	67
144	A Comparison of Petiole Hydraulics and Aquaporin Expression in an Anisohydric and Isohydic Cultivar of Grapevine in Response to Water-Stress Induced Cavitation. <i>Frontiers in Plant Science</i> , 2017 , 8, 1893	6.2	14
143	Root Hydraulic and Aquaporin Responses to N Availability. <i>Signaling and Communication in Plants</i> , 2017 , 207-236	1	15
142	OsPAP10c, a novel secreted acid phosphatase in rice, plays an important role in the utilization of external organic phosphorus. <i>Plant, Cell and Environment</i> , 2016 , 39, 2247-59	8.4	45
141	Comparative effects of deficit and partial root-zone drying irrigation techniques using moderately saline water on ion partitioning in Shiraz and Grenache grapevines. <i>Australian Journal of Grape and Wine Research</i> , 2016 , 22, 296-306	2.4	11
140	Impact of grapevine exposure to smoke on vine physiology and the composition and sensory properties of wine. <i>Theoretical and Experimental Plant Physiology</i> , 2016 , 28, 67-83	2.4	22
139	A Barley Efflux Transporter Operates in a Na ⁺ -Dependent Manner, as Revealed by a Multidisciplinary Platform. <i>Plant Cell</i> , 2016 , 28, 202-18	11.6	22
138	Linking Metabolism to Membrane Signaling: The GABA-Malate Connection. <i>Trends in Plant Science</i> , 2016 , 21, 295-301	13.1	81
137	Fruit Calcium: Transport and Physiology. <i>Frontiers in Plant Science</i> , 2016 , 7, 569	6.2	153
136	Roles of Aquaporins in Stem Development and Sugar Storage. <i>Frontiers in Plant Science</i> , 2016 , 7, 1815	6.2	12

135	The effects of sustained deficit irrigation and re-watering on root production and turnover in warm climate viticulture. <i>Acta Horticulturae</i> , 2016 , 95-102	0.3	
134	Application of shade treatments during Shiraz berry ripening to reduce the impact of high temperature. <i>Australian Journal of Grape and Wine Research</i> , 2016 , 22, 422-437	2.4	29
133	Differential fruitset between grapevine cultivars is related to differences in pollen viability and amine concentration in flowers. <i>Australian Journal of Grape and Wine Research</i> , 2016 , 22, 149-158	2.4	12
132	GABA signalling modulates plant growth by directly regulating the activity of plant-specific anion transporters. <i>Nature Communications</i> , 2015 , 6, 7879	17.4	192
131	Rice SPX-Major Facility Superfamily3, a Vacuolar Phosphate Efflux Transporter, Is Involved in Maintaining Phosphate Homeostasis in Rice. <i>Plant Physiology</i> , 2015 , 169, 2822-31	6.6	78
130	Correlations between morpho-anatomical changes and radial hydraulic conductivity in roots of olive trees under water deficit and rewatering. <i>Tree Physiology</i> , 2015 , 35, 1356-65	4.2	10
129	Impact of deficit irrigation strategies in a saline environment on Shiraz yield, physiology, water use and tissue ion concentration. <i>Australian Journal of Grape and Wine Research</i> , 2015 , 21, 468-478	2.4	11
128	Electrical impedance of Shiraz berries correlates with decreasing cell vitality during ripening. <i>Australian Journal of Grape and Wine Research</i> , 2015 , 21, 430-438	2.4	18
127	Grapevine and Arabidopsis Cation-Chloride Cotransporters Localize to the Golgi and Trans-Golgi Network and Indirectly Influence Long-Distance Ion Transport and Plant Salt Tolerance. <i>Plant Physiology</i> , 2015 , 169, 2215-29	6.6	45
126	Rapid shoot-to-root signalling regulates root hydraulic conductance via aquaporins. <i>Plant, Cell and Environment</i> , 2014 , 37, 520-38	8.4	118
125	Automated estimation of leaf area index from grapevine canopies using cover photography, video and computational analysis methods. <i>Australian Journal of Grape and Wine Research</i> , 2014 , 20, 465-473	2.4	39
124	Modified Method for Producing Grapevine Plants in Controlled Environments. <i>American Journal of Enology and Viticulture</i> , 2014 , 65, 261-267	2.2	13
123	Night-time responses to water supply in grapevines (<i>Vitis vinifera</i> L.) under deficit irrigation and partial root-zone drying. <i>Agricultural Water Management</i> , 2014 , 138, 1-9	5.9	21
122	Aquaporins: highly regulated channels controlling plant water relations. <i>Plant Physiology</i> , 2014 , 164, 1600-18	6.6	400
121	Adjustment of host cells for accommodation of symbiotic bacteria: vacuole defunctionalization, HOPS suppression, and TIP1g retargeting in Medicago. <i>Plant Cell</i> , 2014 , 26, 3809-22	11.6	47
120	Constitutive overexpression of soybean plasma membrane intrinsic protein GmPIP1;6 confers salt tolerance. <i>BMC Plant Biology</i> , 2014 , 14, 181	5.3	52
119	Ethylene negatively regulates aluminium-induced malate efflux from wheat roots and tobacco cells transformed with TaALMT1. <i>Journal of Experimental Botany</i> , 2014 , 65, 2415-26	7	38
118	Soybean SAT1 (Symbiotic Ammonium Transporter 1) encodes a bHLH transcription factor involved in nodule growth and NH ₄ ⁺ transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4814-9	11.5	54

117	A novel method based on combination of semi-in vitro and in vivo conditions in <i>Agrobacterium rhizogenes</i> -mediated hairy root transformation of <i>Glycine</i> species. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2014 , 50, 282-291	2.3	10
116	Water Relations and Mesophyll Anatomy in Almond Leaves. <i>Journal of the American Society for Horticultural Science</i> , 2014 , 139, 627-633	2.3	4
115	Protocol: optimising hydroponic growth systems for nutritional and physiological analysis of <i>Arabidopsis thaliana</i> and other plants. <i>Plant Methods</i> , 2013 , 9, 4	5.8	115
114	Chloride transport and compartmentation within main and lateral roots of two grapevine rootstocks differing in salt tolerance. <i>Trees - Structure and Function</i> , 2013 , 27, 1317-1325	2.6	14
113	Waterlogging in Australian agricultural landscapes: a review of plant responses and crop models. <i>Crop and Pasture Science</i> , 2013 , 64, 549	2.2	37
112	A putative role for TIP and PIP aquaporins in dynamics of leaf hydraulic and stomatal conductances in grapevine under water stress and re-watering. <i>Plant, Cell and Environment</i> , 2013 , 36, 828-43	8.4	133
111	Transposon-mediated alteration of TaMATE1B expression in wheat confers constitutive citrate efflux from root apices. <i>Plant Physiology</i> , 2013 , 161, 880-92	6.6	104
110	The devil in the detail of secretions. <i>Plant, Cell and Environment</i> , 2013 , 36, 1407-9	8.4	8
109	Nitrate transport capacity of the <i>Arabidopsis thaliana</i> NRT2 family members and their interactions with AtNAR2.1. <i>New Phytologist</i> , 2012 , 194, 724-731	9.8	98
108	Functional characterization of the rice SPX-MFS family reveals a key role of OsSPX-MFS1 in controlling phosphate homeostasis in leaves. <i>New Phytologist</i> , 2012 , 196, 139-148	9.8	112
107	Computational water stress indices obtained from thermal image analysis of grapevine canopies. <i>Irrigation Science</i> , 2012 , 30, 523-536	3.1	90
106	Wheat grain yield on saline soils is improved by an ancestral Na ⁺ transporter gene. <i>Nature Biotechnology</i> , 2012 , 30, 360-4	44.5	515
105	The emerging importance of the SPX domain-containing proteins in phosphate homeostasis. <i>New Phytologist</i> , 2012 , 193, 842-51	9.8	190
104	A putative hybrid of <i>Eucalyptus largiflorens</i> growing on salt- and drought-affected floodplains has reduced specific leaf area and leaf nitrogen. <i>Australian Journal of Botany</i> , 2012 , 60, 358	1.2	5
103	Calcium delivery and storage in plant leaves: exploring the link with water flow. <i>Journal of Experimental Botany</i> , 2011 , 62, 2233-50	7	141
102	Non-destructive measurement of grapevine water potential using near infrared spectroscopy. <i>Australian Journal of Grape and Wine Research</i> , 2011 , 17, 62-71	2.4	77
101	Proton-coupled high-affinity phosphate transport revealed from heterologous characterization in <i>Xenopus</i> of barley-root plasma membrane transporter, HvPHT1;1. <i>Plant, Cell and Environment</i> , 2011 , 34, 681-9	8.4	41
100	Magnesium transporters, MGT2/MRS2-1 and MGT3/MRS2-5, are important for magnesium partitioning within <i>Arabidopsis thaliana</i> mesophyll vacuoles. <i>New Phytologist</i> , 2011 , 190, 583-94	9.8	75

99	The Genetic Envelope of Winegrape Vines: Potential for Adaptation to Future Climate Challenges 2011 , 464-481		6
98	Cell-specific vacuolar calcium storage mediated by CAX1 regulates apoplastic calcium concentration, gas exchange, and plant productivity in Arabidopsis. <i>Plant Cell</i> , 2011 , 23, 240-57	11.6	184
97	Cell-specific compartmentation of mineral nutrients is an essential mechanism for optimal plant productivity--another role for TPC1?. <i>Plant Signaling and Behavior</i> , 2011 , 6, 1656-61	2.5	28
96	The identification of aluminium-resistance genes provides opportunities for enhancing crop production on acid soils. <i>Journal of Experimental Botany</i> , 2011 , 62, 9-20	7	234
95	Root growth of lupins is more sensitive to waterlogging than wheat. <i>Functional Plant Biology</i> , 2011 , 38, 910-918	2.7	14
94	Mechanisms of Cl(-) transport contributing to salt tolerance. <i>Plant, Cell and Environment</i> , 2010 , 33, 566-89.	4	318
93	Boron toxicity tolerance in barley through reduced expression of the multifunctional aquaporin HvNIP2;1. <i>Plant Physiology</i> , 2010 , 153, 1706-15	6.6	135
92	HvALMT1 from barley is involved in the transport of organic anions. <i>Journal of Experimental Botany</i> , 2010 , 61, 1455-67	7	76
91	Channel-like characteristics of the low-affinity barley phosphate transporter PHT1;6 when expressed in Xenopus oocytes. <i>Plant Physiology</i> , 2010 , 152, 1431-41	6.6	59
90	Root Water Transport Under Waterlogged Conditions and the Roles of Aquaporins 2010 , 151-180		11
89	A novel analysis of grapevine berry tissue demonstrates a variety-dependent correlation between tissue vitality and berry shrivel. <i>Australian Journal of Grape and Wine Research</i> , 2010 , 16, 327-336	2.4	40
88	Identification and functional characterisation of aquaporins in the grapevine, <i>Vitis vinifera</i> . <i>Functional Plant Biology</i> , 2010 , 36, 1065-1078	2.7	67
87	The contrasting influence of short-term hypoxia on the hydraulic properties of cells and roots of wheat and lupin. <i>Functional Plant Biology</i> , 2010 , 37, 183	2.7	44
86	Calcium storage in plants and the implications for calcium biofortification. <i>Protoplasma</i> , 2010 , 247, 215-314	3	85
85	Hydraulic connection of grape berries to the vine: varietal differences in water conductance into and out of berries, and potential for backflow. <i>Functional Plant Biology</i> , 2009 , 36, 541-550	2.7	50
84	The role of plasma membrane intrinsic protein aquaporins in water transport through roots: diurnal and drought stress responses reveal different strategies between isohydric and anisohydric cultivars of grapevine. <i>Plant Physiology</i> , 2009 , 149, 445-60	6.6	353
83	Roles of morphology, anatomy, and aquaporins in determining contrasting hydraulic behavior of roots. <i>Plant Physiology</i> , 2009 , 150, 348-64	6.6	162
82	Water Transport & Aquaporins in Grapevine 2009 , 73-104		4

81	Molybdate transport through the plant sulfate transporter SHST1. <i>FEBS Letters</i> , 2008 , 582, 1508-13	3.8	91
80	Direct measurement of hydraulic properties in developing berries of <i>Vitis vinifera</i> L. cv Shiraz and Chardonnay. <i>Australian Journal of Grape and Wine Research</i> , 2008 , 10, 170-181	2.4	59
79	Cell death in grape berries: varietal differences linked to xylem pressure and berry weight loss. <i>Functional Plant Biology</i> , 2008 , 35, 173-184	2.7	64
78	Characterization of the TaALMT1 protein as an Al ³⁺ -activated anion channel in transformed tobacco (<i>Nicotiana tabacum</i> L.) cells. <i>Plant and Cell Physiology</i> , 2008 , 49, 1316-30	4.9	67
77	Water Flow in the Roots of Crop Species: The Influence of Root Structure, Aquaporin Activity, and Waterlogging. <i>Advances in Agronomy</i> , 2007 , 96, 133-196	7.7	60
76	Review: Nutrient loading of developing seeds. <i>Functional Plant Biology</i> , 2007 , 34, 314-331	2.7	143
75	Actin filaments modulate hypoosmotic-responsive K efflux channels in specialised cells of developing bean seed coats. <i>Functional Plant Biology</i> , 2007 , 34, 874-884	2.7	3
74	Comparison between gradient-dependent hydraulic conductivities of roots using the root pressure probe: the role of pressure propagations and implications for the relative roles of parallel radial pathways. <i>Plant, Cell and Environment</i> , 2007 , 30, 861-74	8.4	46
73	Aquaporins and unloading of phloem-imported water in coats of developing bean seeds. <i>Plant, Cell and Environment</i> , 2007 , 30, 1566-77	8.4	49
72	Plasma membrane of <i>Beta vulgaris</i> storage root shows high water channel activity regulated by cytoplasmic pH and a dual range of calcium concentrations. <i>Journal of Experimental Botany</i> , 2006 , 57, 609-21	7	135
71	Tree water sources over shallow, saline groundwater in the lower River Murray, south-eastern Australia: implications for groundwater recharge mechanisms. <i>Australian Journal of Botany</i> , 2006 , 54, 193	1.2	40
70	Simultaneous flux and current measurement from single plant protoplasts reveals a strong link between K ⁺ fluxes and current, but no link between Ca ²⁺ fluxes and current. <i>Plant Journal</i> , 2006 , 46, 134-44	6.9	18
69	Roles of aquaporins in root responses to irrigation. <i>Plant Ecophysiology</i> , 2005 , 141-161		1
68	Roles of Aquaporins in Root Responses to Irrigation. <i>Plant and Soil</i> , 2005 , 274, 141-161	4.2	72
67	The role of molybdenum in agricultural plant production. <i>Annals of Botany</i> , 2005 , 96, 745-54	4.1	294
66	NH ₄ ⁺ currents across the peribacteroid membrane of soybean. Macroscopic and microscopic properties, inhibition by Mg ²⁺ , and temperature dependence indicate a SubpicoSiemens channel finely regulated by divalent cations. <i>Plant Physiology</i> , 2005 , 139, 1015-29	6.6	22
65	Citrate-permeable channels in the plasma membrane of cluster roots from white lupin. <i>Plant Physiology</i> , 2004 , 136, 3771-83	6.6	70
64	Pulsing Cl ⁻ channels in coat cells of developing bean seeds linked to hypo-osmotic turgor regulation. <i>Journal of Experimental Botany</i> , 2004 , 55, 993-1001	7	13

63	Calcium-dependent K current in plasma membranes of dermal cells of developing bean cotyledons. <i>Plant, Cell and Environment</i> , 2004 , 27, 251-262	8.4	8
62	Composition and synthesis of raphide crystals and druse crystals in berries of <i>Vitis vinifera</i> L. cv. Cabernet Sauvignon: Ascorbic acid as precursor for both oxalic and tartaric acids as revealed by radiolabelling studies. <i>Australian Journal of Grape and Wine Research</i> , 2004 , 10, 134-142	2.4	40
61	Floodwater infiltration through root channels on a sodic clay floodplain and the influence on a local tree species <i>Eucalyptus largiflorens</i> . <i>Plant and Soil</i> , 2003 , 253, 275-286	4.2	32
60	Voltage-Dependent Cation Channels Permeable to NH ₄ ⁺ , K ⁺ , and Ca ²⁺ in the Symbiosome Membrane of the Model Legume <i>Lotus japonicus</i> . <i>Plant Physiology</i> , 2002 , 128, 370-378	6.6	9
59	Plant aquaporins: multifunctional water and solute channels with expanding roles. <i>Plant, Cell and Environment</i> , 2002 , 25, 173-194	8.4	467
58	Voltage-dependent cation channels permeable to NH ₄ ⁽⁺⁾ , K ⁽⁺⁾ , and Ca ⁽²⁺⁾ in the symbiosome membrane of the model legume <i>Lotus japonicus</i> . <i>Plant Physiology</i> , 2002 , 128, 370-8	6.6	39
57	Nonselective currents and channels in plasma membranes of protoplasts from coats of developing seeds of bean. <i>Plant Physiology</i> , 2002 , 128, 388-99	6.6	27
56	Effect of different host plants on the growth of the root hemiparasite <i>Santalum acuminatum</i> (quandong). <i>Australian Journal of Experimental Agriculture</i> , 2002 , 42, 97		6
55	Nonselective Cation Channels. Multiple Functions and Commonalities. <i>Plant Physiology</i> , 2002 , 128, 327-328		14
54	New potent inhibitors of aquaporins: silver and gold compounds inhibit aquaporins of plant and human origin. <i>FEBS Letters</i> , 2002 , 531, 443-7	3.8	234
53	Ammonia and amino acid transport across symbiotic membranes in nitrogen-fixing legume nodules. <i>Cellular and Molecular Life Sciences</i> , 2001 , 58, 61-71	10.3	91
52	Malate-permeable channels and cation channels activated by aluminum in the apical cells of wheat roots. <i>Plant Physiology</i> , 2001 , 125, 1459-72	6.6	159
51	Transfer of photosynthate and naturally occurring insecticidal compounds from host plants to the root hemiparasite <i>Santalum acuminatum</i> (Santalaceae). <i>Australian Journal of Botany</i> , 2001 , 49, 9	1.2	14
50	Oscillations in proton transport revealed from simultaneous measurements of net current and net proton fluxes from isolated root protoplasts: MIFE meets patch-clamp. <i>Functional Plant Biology</i> , 2001 , 28, 591	2.7	8
49	Role of membrane transport in phloem translocation of assimilates and water. <i>Functional Plant Biology</i> , 2001 , 28, 697	2.7	23
48	Water relations and gas exchange of the root hemiparasite <i>Santalum acuminatum</i> (quandong). <i>Australian Journal of Botany</i> , 2001 , 49, 479	1.2	12
47	Polyamines as potential regulators of nutrient exchange across the peribacteroid membrane in soybean root nodules. <i>Functional Plant Biology</i> , 2001 , 28, 677	2.7	7
46	Fast activation of a time-dependent outward current in protoplasts derived from coats of developing <i>Phaseolus vulgaris</i> seeds. <i>Planta</i> , 2000 , 211, 894-8	4.7	15

45	Tolerance of salinized floodplain conditions in a naturally occurring Eucalyptus hybrid related to lowered plant water potential. <i>Tree Physiology</i> , 2000 , 20, 953-63	4.2	21
44	Channel-mediated permeation of ammonia gas through the peribacteroid membrane of soybean nodules. <i>FEBS Letters</i> , 2000 , 465, 110-4	3.8	117
43	Solute and Water Permeation Across the Symbiosome Membrane of Legumes 2000 , 319-329		1
42	Inhibition of water channels by HgCl ₂ in intact wheat root cells. <i>Plant Physiology</i> , 1999 , 120, 849-58	6.6	216
41	Water use of grazed salt bush plantations with saline watertable. <i>Agricultural Water Management</i> , 1999 , 39, 169-185	5.9	23
40	Plant aquaporins: their molecular biology, biophysics and significance for plant water relations. <i>Journal of Experimental Botany</i> , 1999 , 50, 1055-1071	7	285
39	Divalent cation gating of an ammonium permeable channel in the symbiotic membrane from soybean nodules. <i>Plant Journal</i> , 1998 , 16, 313-324	6.9	25
38	Root ion channels and salinity. <i>Scientia Horticulturae</i> , 1998 , 78, 175-235	4.1	128
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4	Identification of a unique ZIP transporter involved in zinc uptake via the arbuscular mycorrhizal fungal pathway		1
3	Hypoxia in the grape berry linked to mesocarp cell death: the role of seed respiration and lenticels on the berry pedicel		1
2	Split personality of Aluminum Activated Malate Transporter family proteins: facilitation of both GABA and malate transport		1
1	The feasibility of using a low-cost near-infrared, sensitive, consumer-grade digital camera mounted on a commercial UAV to assess Bambara groundnut yield. <i>International Journal of Remote Sensing</i> , 1-31	3.1	0