

Timothy D Colmer

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.

238
papers

15,625
citations

64
h-index

117
g-index

246
ext. papers

17,970
ext. citations

5.7
avg, IF

7.14
L-index

#	Paper	IF	Citations
238	Dryland field validation of genotypic variation in salt tolerance of chickpea (<i>Cicer arietinum</i> L.) determined under controlled conditions. <i>Field Crops Research</i> , 2022 , 276, 108392	5.5	0
237	Regulation of root adaptive anatomical and morphological traits during low soil oxygen. <i>New Phytologist</i> , 2021 , 229, 42-49	9.8	51
236	The genetics of vigour-related traits in chickpea (<i>Cicer arietinum</i> L.): insights from genomic data. <i>Theoretical and Applied Genetics</i> , 2021 , 135, 107	6	1
235	Novel Salinity Tolerance Loci in Chickpea Identified in Glasshouse and Field Environments. <i>Frontiers in Plant Science</i> , 2021 , 12, 667910	6.2	4
234	Lateral roots, in addition to adventitious roots, form a barrier to radial oxygen loss in <i>Zea mays</i> L. and a chromosome segment introgression line in maize. <i>New Phytologist</i> , 2021 , 229, 94-103	9.8	14
233	Root length is proxy for high-throughput screening of waterlogging tolerance in <i>Urochloa</i> spp. grasses. <i>Functional Plant Biology</i> , 2021 , 48, 411-421	2.7	2
232	Na and/or Cl Toxicities Determine Salt Sensitivity in Soybean (L.), Mungbean (L.) R. Wilczek, Cowpea (L.), and Common Bean (L.). <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	6
231	The barrier to radial oxygen loss impedes the apoplastic entry of iron into the roots of <i>Urochloa humidicola</i> . <i>Journal of Experimental Botany</i> , 2021 , 72, 3279-3293	7	4
230	Tolerance of four grain legume species to waterlogging, hypoxia and anoxia at germination and recovery. <i>AoB PLANTS</i> , 2021 , 13, plab052	2.9	1
229	Response of Mungbean (cvs. Celera II-AU and Jade-AU) and Blackgram (cv. Onyx-AU) to Transient Waterlogging. <i>Frontiers in Plant Science</i> , 2021 , 12, 709102	6.2	0
228	Submergence tolerance and recovery in Lotus: Variation among fifteen accessions in response to partial and complete submergence. <i>Journal of Plant Physiology</i> , 2020 , 249, 153180	3.6	1
227	Waterlogging differentially affects yield and its components in wheat, barley, rapeseed and field pea depending on the timing of occurrence. <i>Journal of Agronomy and Crop Science</i> , 2020 , 206, 363-375	3.9	10
226	Cross-tolerance for drought, heat and salinity stresses in chickpea (<i>Cicer arietinum</i> L.). <i>Journal of Agronomy and Crop Science</i> , 2020 , 206, 405-419	3.9	10
225	Waterlogging tolerance of grass pea (<i>Lathyrus sativus</i> L.) at germination related to country of origin. <i>Experimental Agriculture</i> , 2020 , 56, 837-850	1.7	4
224	Approaches to scheduling water allocations to kikuyugrass grown on a water repellent soil in a drying-climate. <i>Agricultural Water Management</i> , 2020 , 230, 105957	5.9	2
223	Root O consumption, CO production and tissue concentration profiles in chickpea, as influenced by environmental hypoxia. <i>New Phytologist</i> , 2020 , 226, 373-384	9.8	12
222	Drivers of plant traits that allow survival in wetlands. <i>Functional Ecology</i> , 2020 , 34, 956-967	5.6	13

221	Improving crop salt tolerance using transgenic approaches: An update and physiological analysis. <i>Plant, Cell and Environment</i> , 2020 , 43, 2932-2956	8.4	27
220	Global patterns of the leaf economics spectrum in wetlands. <i>Nature Communications</i> , 2020 , 11, 4519	17.4	10
219	Osmotic adjustment and energy limitations to plant growth in saline soil. <i>New Phytologist</i> , 2020 , 225, 1091-1096	9.8	132
218	Tolerance and recovery of the annual pasture legumes <i>Melilotus siculus</i> , <i>Trifolium michelianum</i> and <i>Medicago polymorpha</i> to soil salinity, soil waterlogging and the combination of these stresses. <i>Plant and Soil</i> , 2019 , 444, 267-280	4.2	8
217	Diel O ₂ Dynamics in Partially and Completely Submerged Deepwater Rice: Leaf Gas Films Enhance Internodal O ₂ Status, Influence Gene Expression and Accelerate Stem Elongation for 'Snorkelling' during Submergence. <i>Plant and Cell Physiology</i> , 2019 , 60, 973-985	4.9	10
216	Salinity tolerance in chickpea is associated with the ability to 'exclude' Na from leaf mesophyll cells. <i>Journal of Experimental Botany</i> , 2019 , 70, 4991-5002	7	19
215	Root-zone hypoxia reduces growth of the tropical forage grass <i>Urochloa humidicola</i> in high-nutrient but not low-nutrient conditions. <i>Annals of Botany</i> , 2019 , 124, 1019-1032	4.1	10
214	Resequencing of 429 chickpea accessions from 45 countries provides insights into genome diversity, domestication and agronomic traits. <i>Nature Genetics</i> , 2019 , 51, 857-864	36.3	116
213	Rice acclimation to soil flooding: Low concentrations of organic acids can trigger a barrier to radial oxygen loss in roots. <i>Plant, Cell and Environment</i> , 2019 , 42, 2183-2197	8.4	17
212	Tolerance of roots to low oxygen: 'Anoxic' cores, the phytohemoglobin-nitric oxide cycle, and energy or oxygen sensing. <i>Journal of Plant Physiology</i> , 2019 , 239, 92-108	3.6	25
211	Tolerance to partial and complete submergence in the forage legume <i>Melilotus siculus</i> : an evaluation of 15 accessions for petiole hyponastic response and gas-filled spaces, leaf hydrophobicity and gas films, and root phellex. <i>Annals of Botany</i> , 2019 , 123, 169-180	4.1	10
210	Friend or Foe? Chloride Patterning in Halophytes. <i>Trends in Plant Science</i> , 2019 , 24, 142-151	13.1	32
209	Root phenotypes of dwarf and "overgrowth" SLN1 barley mutants, and implications for hypoxic stress tolerance. <i>Journal of Plant Physiology</i> , 2019 , 234-235, 60-70	3.6	5
208	Oxygen loss from seagrass roots coincides with colonisation of sulphide-oxidising cable bacteria and reduces sulphide stress. <i>ISME Journal</i> , 2019 , 13, 707-719	11.9	48
207	Sensitivity of chickpea and faba bean to root-zone hypoxia, elevated ethylene, and carbon dioxide. <i>Plant, Cell and Environment</i> , 2019 , 42, 85-97	8.4	10
206	Rice leaf hydrophobicity and gas films are conferred by a wax synthesis gene (LGF1) and contribute to flood tolerance. <i>New Phytologist</i> , 2018 , 218, 1558-1569	9.8	46
205	Waterlogging tolerance, tissue nitrogen and oxygen transport in the forage legume <i>Melilotus siculus</i> : a comparison of nodulated and nitrate-fed plants. <i>Annals of Botany</i> , 2018 , 121, 699-709	4.1	16
204	Leaf gas films contribute to rice (<i>Oryza sativa</i>) submergence tolerance during saline floods. <i>Plant, Cell and Environment</i> , 2018 , 41, 885-897	8.4	7

203	Salinization of the soil solution decreases the further accumulation of salt in the root zone of the halophyte <i>Atriplex nummularia</i> Lindl. growing above shallow saline groundwater. <i>Plant, Cell and Environment</i> , 2018 , 41, 99-110	8.4	15
202	Investigating Drought Tolerance in Chickpea Using Genome-Wide Association Mapping and Genomic Selection Based on Whole-Genome Resequencing Data. <i>Frontiers in Plant Science</i> , 2018 , 9, 190	6.2	69
201	CO ₂ and O ₂ dynamics in leaves of aquatic plants with C ₃ or CAM photosynthesis - application of a novel CO ₂ microsensor. <i>Annals of Botany</i> , 2018 , 122, 605-615	4.1	14
200	Physiological Adaptations to Wetland Habitats 2018 , 383-394		
199	Regulation of Root Traits for Internal Aeration and Tolerance to Soil Waterlogging-Flooding Stress. <i>Plant Physiology</i> , 2018 , 176, 1118-1130	6.6	122
198	Waterlogging of Winter Crops at Early and Late Stages: Impacts on Leaf Physiology, Growth and Yield. <i>Frontiers in Plant Science</i> , 2018 , 9, 1863	6.2	56
197	Evaluation of root porosity and radial oxygen loss of disomic addition lines of <i>Hordeum marinum</i> in wheat. <i>Functional Plant Biology</i> , 2017 , 44, 400-409	2.7	8
196	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. <i>New Phytologist</i> , 2017 , 214, 1403-1407	9.8	84
195	A Review of Warm-Season Turfgrass Evapotranspiration, Responses to Deficit Irrigation, and Drought Resistance. <i>Crop Science</i> , 2017 , 57, S-98	2.4	10
194	Anatomical and biochemical characterisation of a barrier to radial O loss in adventitious roots of two contrasting <i>Hordeum marinum</i> accessions. <i>Functional Plant Biology</i> , 2017 , 44, 845-857	2.7	23
193	Uptake of inorganic phosphorus by the aquatic plant <i>Isoetes australis</i> inhabiting oligotrophic vernal rock pools. <i>Aquatic Botany</i> , 2017 , 138, 64-73	1.8	4
192	Vegetative and reproductive growth of salt-stressed chickpea are carbon-limited: sucrose infusion at the reproductive stage improves salt tolerance. <i>Journal of Experimental Botany</i> , 2017 , 68, 2001-2011	7	35
191	Flooding tolerance of forage legumes. <i>Journal of Experimental Botany</i> , 2017 , 68, 1851-1872	7	44
190	Hydraulic redistribution: limitations for plants in saline soils. <i>Plant, Cell and Environment</i> , 2017 , 40, 2437-2446	4.6	8
189	A major locus involved in the formation of the radial oxygen loss barrier in adventitious roots of teosinte <i>Zea nicaraguensis</i> is located on the short-arm of chromosome 3. <i>Plant, Cell and Environment</i> , 2017 , 40, 304-316	8.4	36
188	Energetics of acclimation to NaCl by submerged, anoxic rice seedlings. <i>Annals of Botany</i> , 2017 , 119, 129-142	4.2	10
187	Pattern of Water Use and Seed Yield under Terminal Drought in Chickpea Genotypes. <i>Frontiers in Plant Science</i> , 2017 , 8, 1375	6.2	24
186	Revealing the roles of GORK channels and NADPH oxidase in acclimation to hypoxia in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2017 , 68, 3191-3204	7	33

185	Response of chickpea (<i>Cicer arietinum</i> L.) to terminal drought: leaf stomatal conductance, pod abscisic acid concentration, and seed set. <i>Journal of Experimental Botany</i> , 2017 , 68, 1973-1985	7	47
184	Spectral detection of stress-related pigments in salt-lake succulent halophytic shrubs. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016 , 52, 457-463	7.3	2
183	Neglecting legumes has compromised human health and sustainable food production. <i>Nature Plants</i> , 2016 , 2, 16112	11.5	344
182	Salinity tolerances of three succulent halophytes (<i>Tecticornia</i> spp.) differentially distributed along a salinity gradient. <i>Functional Plant Biology</i> , 2016 , 43, 739-750	2.7	12
181	Salt sensitivity in chickpea is determined by sodium toxicity. <i>Planta</i> , 2016 , 244, 623-37	4.7	21
180	Heat stress of two tropical seagrass species during low tides - impact on underwater net photosynthesis, dark respiration and diel in situ internal aeration. <i>New Phytologist</i> , 2016 , 210, 1207-18	9.8	75
179	Tissue-specific root ion profiling reveals essential roles of the CAX and ACA calcium transport systems in response to hypoxia in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2016 , 67, 3747-62	7	42
178	Life at the boundary: photosynthesis at the soil-fluid interface. A synthesis focusing on mosses. <i>Journal of Experimental Botany</i> , 2016 , 67, 1613-23	7	13
177	Physiological Adaptations to Wetland Habitats 2016 , 1-12		
176	Leaf gas films, underwater photosynthesis and plant species distributions in a flood gradient. <i>Plant, Cell and Environment</i> , 2016 , 39, 1537-48	8.4	24
175	Photosynthetic response to globally increasing CO ₂ of co-occurring temperate seagrass species. <i>Plant, Cell and Environment</i> , 2016 , 39, 1240-50	8.4	36
174	Mechanisms of waterlogging tolerance in wheat--a review of root and shoot physiology. <i>Plant, Cell and Environment</i> , 2016 , 39, 1068-86	8.4	131
173	Tissue tolerance: an essential but elusive trait for salt-tolerant crops. <i>Functional Plant Biology</i> , 2016 , 43, 1103-1113	2.7	101
172	Differential responses of three coastal grassland species to seawater flooding. <i>Journal of Plant Ecology</i> , 2016 , rtw037	1.7	2
171	Plant salt tolerance: adaptations in halophytes. <i>Annals of Botany</i> , 2015 , 115, 327-31	4.1	380
170	Spatio-temporal relief from hypoxia and production of reactive oxygen species during bud burst in grapevine (<i>Vitis vinifera</i>). <i>Annals of Botany</i> , 2015 , 116, 703-11	4.1	30
169	Effect of Timing and Duration of Soil Saturation on Soilborne Pythium Diseases of Common Bean (<i>Phaseolus vulgaris</i>). <i>Plant Disease</i> , 2015 , 99, 112-118	1.5	12
168	Efficient use of energy in anoxia-tolerant plants with focus on germinating rice seedlings. <i>New Phytologist</i> , 2015 , 206, 36-56	9.8	32

167	Sodium chloride toxicity and the cellular basis of salt tolerance in halophytes. <i>Annals of Botany</i> , 2015 , 115, 419-31	4.1	354
166	Growth responses of <i>Melilotus siculus</i> accessions to combined salinity and root-zone hypoxia are correlated with differences in tissue ion concentrations and not differences in root aeration. <i>Environmental and Experimental Botany</i> , 2015 , 109, 89-98	5.9	20
165	Oxygen deficiency and salinity affect cell-specific ion concentrations in adventitious roots of barley (<i>Hordeum vulgare</i>). <i>New Phytologist</i> , 2015 , 208, 1114-25	9.8	44
164	Two key genomic regions harbour QTLs for salinity tolerance in ICCV 2 DQG 11 derived chickpea (<i>Cicer arietinum</i> L.) recombinant inbred lines. <i>BMC Plant Biology</i> , 2015 , 15, 124	5.3	55
163	Salt sensitivity in chickpea: Growth, photosynthesis, seed yield components and tissue ion regulation in contrasting genotypes. <i>Journal of Plant Physiology</i> , 2015 , 182, 1-12	3.6	54
162	Contrasting submergence tolerance in two species of stem-succulent halophytes is not determined by differences in stem internal oxygen dynamics. <i>Annals of Botany</i> , 2015 , 115, 409-18	4.1	6
161	Salt sensitivity in chickpea (<i>Cicer arietinum</i> L.): ions in reproductive tissues and yield components in contrasting genotypes. <i>Plant, Cell and Environment</i> , 2015 , 38, 1565-77	8.4	44
160	Waterlogging tolerance is associated with root porosity in barley (<i>Hordeum vulgare</i> L.). <i>Molecular Breeding</i> , 2015 , 35, 1	3.4	41
159	Physiological Mechanisms of Flooding Tolerance in Rice: Transient Complete Submergence and Prolonged Standing Water. <i>Progress in Botany Fortschritte Der Botanik</i> , 2014 , 255-307	0.6	24
158	Linking oxygen availability with membrane potential maintenance and K ⁺ retention of barley roots: implications for waterlogging stress tolerance. <i>Plant, Cell and Environment</i> , 2014 , 37, 2325-38	8.4	34
157	The mechanism of improved aeration due to gas films on leaves of submerged rice. <i>Plant, Cell and Environment</i> , 2014 , 37, 2433-52	8.4	28
156	Responses of rice to Fe in aerated and stagnant conditions: growth, root porosity and radial oxygen loss barrier. <i>Functional Plant Biology</i> , 2014 , 41, 922-929	2.7	22
155	Drought tolerances of three stem-succulent halophyte species of an inland semiarid salt lake system. <i>Functional Plant Biology</i> , 2014 , 41, 1230-1238	2.7	10
154	Characterization of the multigene family TaHKT 2;1 in bread wheat and the role of gene members in plant Na ⁺ and K ⁺ status. <i>BMC Plant Biology</i> , 2014 , 14, 159	5.3	10
153	Salt accumulation and depletion in the root-zone of the halophyte <i>Atriplex nummularia</i> Lindl.: influence of salinity, leaf area and plant water use. <i>Plant and Soil</i> , 2014 , 382, 31-41	4.2	7
152	Adaptation of Rice to Flooded Soils. <i>Progress in Botany Fortschritte Der Botanik</i> , 2014 , 215-253	0.6	21
151	Microarray analysis of laser-microdissected tissues indicates the biosynthesis of suberin in the outer part of roots during formation of a barrier to radial oxygen loss in rice (<i>Oryza sativa</i>). <i>Journal of Experimental Botany</i> , 2014 , 65, 4795-806	7	63
150	Visualisation by high resolution synchrotron X-ray phase contrast micro-tomography of gas films on submerged superhydrophobic leaves. <i>Journal of Structural Biology</i> , 2014 , 188, 61-70	3.4	12

149	Effects of organic acids on the formation of the barrier to radial oxygen loss in roots of <i>Hordeum marinum</i> . <i>Functional Plant Biology</i> , 2014 , 41, 187-202	2.7	19
148	Gas film retention and underwater photosynthesis during field submergence of four contrasting rice genotypes. <i>Journal of Experimental Botany</i> , 2014 , 65, 3225-33	7	49
147	Leaf gas films delay salt entry and enhance underwater photosynthesis and internal aeration of <i>Melilotus siculus</i> submerged in saline water. <i>Plant, Cell and Environment</i> , 2014 , 37, 2339-49	8.4	12
146	Variable response of three <i>Trifolium repens</i> ecotypes to soil flooding by seawater. <i>Annals of Botany</i> , 2014 , 114, 347-55	4.1	18
145	Aerenchyma Formation in Plants. <i>Plant Cell Monographs</i> , 2014 , 247-265	0.6	34
144	Underwater Photosynthesis and Internal Aeration of Submerged Terrestrial Wetland Plants. <i>Plant Cell Monographs</i> , 2014 , 315-327	0.6	0
143	Shoot atmospheric contact is of little importance to aeration of deeper portions of the wetland plant <i>Meionectes brownii</i> ; submerged organs mainly acquire O ₂ from the water column or produce it endogenously in underwater photosynthesis. <i>Plant, Cell and Environment</i> , 2013 , 36, 213-23	8.4	14
142	Salinity tolerance and ion accumulation in chickpea (<i>Cicer arietinum</i> L.) subjected to salt stress. <i>Plant and Soil</i> , 2013 , 365, 347-361	4.2	68
141	Internal aeration of paddy field rice (<i>Oryza sativa</i>) during complete submergence---importance of light and floodwater O ₂ . <i>New Phytologist</i> , 2013 , 197, 1193-1203	9.8	78
140	Tolerance of submerged germinating rice to 50-200 mM NaCl in aerated solution. <i>Physiologia Plantarum</i> , 2013 , 149, 222-33	4.6	13
139	Differential tolerance to combined salinity and O ₂ deficiency in the halophytic grasses <i>Puccinellia ciliata</i> and <i>Thinopyrum ponticum</i> : The importance of K ⁺ retention in roots. <i>Environmental and Experimental Botany</i> , 2013 , 87, 69-78	5.9	44
138	Oxygen dynamics in a salt-marsh soil and in <i>Suaeda maritima</i> during tidal submergence. <i>Environmental and Experimental Botany</i> , 2013 , 92, 73-82	5.9	29
137	Opportunistic Mediterranean agriculture [Using ephemeral pasture legumes to utilize summer rainfall. <i>Agricultural Systems</i> , 2013 , 120, 76-84	6.1	3
136	Tolerance of extreme salinity in two stem-succulent halophytes (<i>Tecticornia</i> species). <i>Functional Plant Biology</i> , 2013 , 40, 897-912	2.7	40
135	Improvement of salt and waterlogging tolerance in wheat: comparative physiology of <i>Hordeum marinum</i> - <i>Triticum aestivum</i> amphiploids with their <i>H. marinum</i> and wheat parents. <i>Functional Plant Biology</i> , 2013 , 40, 1168-1178	2.7	15
134	Underwater photosynthesis of submerged plants - recent advances and methods. <i>Frontiers in Plant Science</i> , 2013 , 4, 140	6.2	138
133	Large number of flowers and tertiary branches, and higher reproductive success increase yields under salt stress in chickpea. <i>European Journal of Agronomy</i> , 2012 , 41, 42-51	5	34
132	Comparisons of annual pasture legumes in growth, ion regulation and root porosity demonstrate that <i>Melilotus siculus</i> has exceptional tolerance to combinations of salinity and waterlogging. <i>Environmental and Experimental Botany</i> , 2012 , 77, 175-184	5.9	24

131	Enhanced formation of aerenchyma and induction of a barrier to radial oxygen loss in adventitious roots of <i>Zea nicaraguensis</i> contribute to its waterlogging tolerance as compared with maize (<i>Zea mays</i> ssp. <i>mays</i>). <i>Plant, Cell and Environment</i> , 2012 , 35, 1618-30	8.4	126
130	Assessment of ICCV 2 \times G 62 chickpea progenies shows sensitivity of reproduction to salt stress and reveals QTL for seed yield and yield components. <i>Molecular Breeding</i> , 2012 , 30, 9-21	3.4	76
129	Plant growth and physiology under heterogeneous salinity. <i>Plant and Soil</i> , 2012 , 354, 1-19	4.2	79
128	Microsite and litter cover effects on seed banks vary with seed size and dispersal mechanisms: implications for revegetation of degraded saline land. <i>Plant Ecology</i> , 2012 , 213, 1145-1155	1.7	13
127	A GmAOX2b antisense gene compromises vegetative growth and seed production in soybean. <i>Planta</i> , 2012 , 236, 199-207	4.7	14
126	Root aeration via aerenchymatous phellem: three-dimensional micro-imaging and radial O ₂ profiles in <i>Melilotus siculus</i> . <i>New Phytologist</i> , 2012 , 193, 420-31	9.8	49
125	pH regulation in anoxic rice coleoptiles at pH 3.5: biochemical pHstats and net H ⁺ influx in the absence and presence of NOFormula. <i>Journal of Experimental Botany</i> , 2012 , 63, 1969-83	7	11
124	Plant responses to heterogeneous salinity: growth of the halophyte <i>Atriplex nummularia</i> is determined by the root-weighted mean salinity of the root zone. <i>Journal of Experimental Botany</i> , 2012 , 63, 6347-58	7	43
123	Physical gills prevent drowning of many wetland insects, spiders and plants. <i>Journal of Experimental Biology</i> , 2012 , 215, 705-9	3	34
122	Aquatic adventitious root development in partially and completely submerged wetland plants <i>Cotula coronopifolia</i> and <i>Meionectes brownii</i> . <i>Annals of Botany</i> , 2012 , 110, 405-14	4.1	39
121	Phenotypic variation for productivity and drought tolerance is widespread in germplasm collections of Australian Cullen species. <i>Crop and Pasture Science</i> , 2012 , 63, 656	2.2	7
120	Ameliorating water repellency under turfgrass of contrasting soil organic matter content: Effect of wetting agent formulation and application frequency. <i>Agricultural Water Management</i> , 2011 , 99, 1-7	5.9	10
119	Salinity and waterlogging tolerance amongst accessions of messina (<i>Melilotus siculus</i>). <i>Crop and Pasture Science</i> , 2011 , 62, 225	2.2	31
118	Salinity drives host reaction in <i>Phaseolus vulgaris</i> (common bean) to <i>Macrophomina phaseolina</i> . <i>Functional Plant Biology</i> , 2011 , 38, 984-992	2.7	21
117	Leaf gas films of <i>Spartina anglica</i> enhance rhizome and root oxygen during tidal submergence. <i>Plant, Cell and Environment</i> , 2011 , 34, 2083-92	8.4	47
116	Transfer of the barrier to radial oxygen loss in roots of <i>Hordeum marinum</i> to wheat (<i>Triticum aestivum</i>): evaluation of four H. <i>marinum</i> -wheat amphiploids. <i>New Phytologist</i> , 2011 , 190, 499-508	9.8	51
115	Crassulacean acid metabolism enhances underwater photosynthesis and diminishes photorespiration in the aquatic plant <i>Isoetes australis</i> . <i>New Phytologist</i> , 2011 , 190, 332-9	9.8	34
114	Aquatic adventitious roots of the wetland plant <i>Meionectes brownii</i> can photosynthesize: implications for root function during flooding. <i>New Phytologist</i> , 2011 , 190, 311-9	9.8	24

113	Aerenchymatous phellem in hypocotyl and roots enables O ₂ transport in <i>Melilotus siculus</i> . <i>New Phytologist</i> , 2011 , 190, 340-50	9.8	35
112	Pattern of solutes accumulated during leaf osmotic adjustment as related to duration of water deficit for wheat at the reproductive stage. <i>Plant Physiology and Biochemistry</i> , 2011 , 49, 1126-37	5.4	42
111	Salt sensitivity of the vegetative and reproductive stages in chickpea (<i>Cicer arietinum</i> L.): Podding is a particularly sensitive stage. <i>Environmental and Experimental Botany</i> , 2011 , 71, 260-268	5.9	62
110	Estimation of genetic components of variation for salt tolerance in chickpea using the generation mean analysis. <i>Euphytica</i> , 2011 , 182, 73-86	2.1	2
109	Prioritisation of novel pasture species for use in water-limited agriculture: a case study of Cullen in the Western Australian wheatbelt. <i>Genetic Resources and Crop Evolution</i> , 2011 , 58, 83-100	2	28
108	Granular wetting agents ameliorate water repellency in turfgrass of contrasting soil organic matter content. <i>Plant and Soil</i> , 2011 , 348, 411-424	4.2	15
107	Microsite and litter cover effects on soil conditions and seedling recruitment in a saline agricultural system. <i>Plant and Soil</i> , 2011 , 348, 397-409	4.2	4
106	Salinity and waterlogging tolerances in three stem-succulent halophytes (<i>Tecticornia</i> species) from the margins of ephemeral salt lakes. <i>Plant and Soil</i> , 2011 , 348, 379-396	4.2	18
105	<i>Hordeum marinum</i> -wheat amphiploids maintain higher leaf K ⁺ :Na ⁺ and suffer less leaf injury than wheat parents in saline conditions. <i>Plant and Soil</i> , 2011 , 348, 365-377	4.2	26
104	A perspective on underwater photosynthesis in submerged terrestrial wetland plants. <i>AoB PLANTS</i> , 2011 , 2011, plr030	2.9	60
103	Contrasting dynamics of radial O ₂ -loss barrier induction and aerenchyma formation in rice roots of two lengths. <i>Annals of Botany</i> , 2011 , 107, 89-99	4.1	99
102	In situ O ₂ dynamics in submerged <i>Isoetes australis</i> : varied leaf gas permeability influences underwater photosynthesis and internal O ₂ . <i>Journal of Experimental Botany</i> , 2011 , 62, 4691-700	7	33
101	Ion transport in seminal and adventitious roots of cereals during O ₂ deficiency. <i>Journal of Experimental Botany</i> , 2011 , 62, 39-57	7	104
100	Salt sensitivity in chickpea. <i>Plant, Cell and Environment</i> , 2010 , 33, 490-509	8.4	146
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