

Timothy D Colmer

List of Publications by Year in descending order

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Version: 2024-02-01

242
papers

20,413
citations

10979

71
h-index

12585

132
g-index

246
all docs

246
docs citations

246
times ranked

13821
citing authors

#	ARTICLE	IF	CITATIONS
1	Salinity tolerance in halophytes*. <i>New Phytologist</i> , 2008, 179, 945-963.	3.5	2,141
2	Long-distance transport of gases in plants: a perspective on internal aeration and radial oxygen loss from roots. <i>Plant, Cell and Environment</i> , 2003, 26, 17-36.	2.8	950
3	Flooding tolerance: suites of plant traits in variable environments. <i>Functional Plant Biology</i> , 2009, 36, 665.	1.1	636
4	Plant salt tolerance: adaptations in halophytes. <i>Annals of Botany</i> , 2015, 115, 327-331.	1.4	553
5	Neglecting legumes has compromised human health and sustainable food production. <i>Nature Plants</i> , 2016, 2, 16112.	4.7	529
6	Sodium chloride toxicity and the cellular basis of salt tolerance in halophytes. <i>Annals of Botany</i> , 2015, 115, 419-431.	1.4	516
7	How plants cope with complete submergence. <i>New Phytologist</i> , 2006, 170, 213-226.	3.5	465
8	Use of wild relatives to improve salt tolerance in wheat. <i>Journal of Experimental Botany</i> , 2006, 57, 1059-1078.	2.4	455
9	Response and Adaptation by Plants to Flooding Stress. <i>Annals of Botany</i> , 2005, 96, 501-505.	1.4	400
10	Changes in growth, porosity, and radial oxygen loss from adventitious roots of selected mono- and dicotyledonous wetland species with contrasting types of aerenchyma. <i>Plant, Cell and Environment</i> , 2000, 23, 1237-1245.	2.8	281
11	Short-term waterlogging has long-term effects on the growth and physiology of wheat. <i>New Phytologist</i> , 2002, 153, 225-236.	3.5	261
12	Flooding tolerance in halophytes. <i>New Phytologist</i> , 2008, 179, 964-974.	3.5	247
13	Improving salt tolerance of wheat and barley: future prospects. <i>Australian Journal of Experimental Agriculture</i> , 2005, 45, 1425.	1.0	245
14	Osmotic adjustment and energy limitations to plant growth in saline soil. <i>New Phytologist</i> , 2020, 225, 1091-1096.	3.5	245
15	Salt tolerance in wild <i>Hordeum</i> species is associated with restricted entry of Na ⁺ and Cl ⁻ into the shoots. <i>Journal of Experimental Botany</i> , 2005, 56, 2365-2378.	2.4	239
16	Mechanisms of waterlogging tolerance in wheat – a review of root and shoot physiology. <i>Plant, Cell and Environment</i> , 2016, 39, 1068-1086.	2.8	229
17	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.	9.4	219
18	Regulation of Root Traits for Internal Aeration and Tolerance to Soil Waterlogging-Flooding Stress. <i>Plant Physiology</i> , 2018, 176, 1118-1130.	2.3	218

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19	Underwater Photosynthesis of Submerged Plants – Recent Advances and Methods. <i>Frontiers in Plant Science</i> , 2013, 4, 140.	1.7	206
20	The barrier to radial oxygen loss from roots of rice (<i>Oryza sativa</i> L.) is induced by growth in stagnant solution. <i>Journal of Experimental Botany</i> , 1998, 49, 1431-1436.	2.4	200
21	Salt sensitivity in chickpea. <i>Plant, Cell and Environment</i> , 2010, 33, 490-509.	2.8	194
22	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, 1618-1630.	2.8	170
23	Underwater photosynthesis and respiration in leaves of submerged wetland plants: gas films improve CO ₂ and O ₂ exchange. <i>New Phytologist</i> , 2008, 177, 918-926.	3.5	169
24	Effects of Anoxia on Wheat Seedlings. <i>Journal of Experimental Botany</i> , 1991, 42, 1437-1447.	2.4	167
25	Tissue tolerance: an essential but elusive trait for salt-tolerant crops. <i>Functional Plant Biology</i> , 2016, 43, 1103.	1.1	162
26	Root aeration in rice (<i>Oryza sativa</i>): evaluation of oxygen, carbon dioxide, and ethylene as possible regulators of root acclimatizations. <i>New Phytologist</i> , 2006, 170, 767-778.	3.5	161
27	A comparison of NH ₄ ⁺ and NO ₃ ⁻ net fluxes along roots of rice and maize. <i>Plant, Cell and Environment</i> , 1998, 21, 240-246.	2.8	160
28	Conditions Leading to High CO ₂ (>5‰kPa) in Waterlogged – Flooded Soils and Possible Effects on Root Growth and Metabolism. <i>Annals of Botany</i> , 2006, 98, 9-32.	1.4	154
29	Similarity and diversity in adventitious root anatomy as related to root aeration among a range of wetland and dryland grass species. <i>Plant, Cell and Environment</i> , 2002, 25, 441-451.	2.8	151
30	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. <i>New Phytologist</i> , 2017, 214, 1403-1407.	3.5	146
31	Surviving floods: leaf gas films improve O ₂ and CO ₂ exchange, root aeration, and growth of completely submerged rice. <i>Plant Journal</i> , 2009, 58, 147-156.	2.8	139
32	Ion transport in seminal and adventitious roots of cereals during O ₂ deficiency. <i>Journal of Experimental Botany</i> , 2011, 62, 39-57.	2.4	136
33	Oxygen dynamics in submerged rice (<i>Oryza sativa</i>). <i>New Phytologist</i> , 2008, 178, 326-334.	3.5	135
34	Differential Solute Regulation in Leaf Blades of Various Ages in Salt-Sensitive Wheat and a Salt-Tolerant Wheat x <i>Lophopyrum elongatum</i> (Host) A. Love Amphiploid. <i>Plant Physiology</i> , 1995, 108, 1715-1724.	2.3	134
35	Regulation of root adaptive anatomical and morphological traits during low soil oxygen. <i>New Phytologist</i> , 2021, 229, 42-49.	3.5	134
36	Measuring Soluble Ion Concentrations (Na ⁺ , K ⁺ , Cl ⁻) in Salt-Treated Plants. <i>Methods in Molecular Biology</i> , 2010, 639, 371-382.	0.4	132

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37	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.	1.4	130
38	Salinity and waterlogging as constraints to saltland pasture production: A review. <i>Agriculture, Ecosystems and Environment</i> , 2009, 129, 349-360.	2.5	129
39	Radial oxygen loss from intact roots of <i>Halophila ovalis</i> as a function of distance behind the root tip and shoot illumination. <i>Aquatic Botany</i> , 1999, 63, 219-228.	0.8	126
40	Ethylene regulates fast apoplastic acidification and expansin A transcription during submergence-induced petiole elongation in <i>Rumex palustris</i> . <i>Plant Journal</i> , 2005, 43, 597-610.	2.8	126
41	Irrigation and fertiliser strategies for minimising nitrogen leaching from turfgrass. <i>Agricultural Water Management</i> , 2006, 80, 160-175.	2.4	118
42	Waterlogging tolerance in the tribe Triticeae: the adventitious roots of <i>Critesion marinum</i> have a relatively high porosity and a barrier to radial oxygen loss. <i>Plant, Cell and Environment</i> , 2001, 24, 585-596.	2.8	111
43	Diversity in root aeration traits associated with waterlogging tolerance in the genus <i>Hordeum</i> . <i>Functional Plant Biology</i> , 2003, 30, 875.	1.1	111
44	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.	1.7	111
45	Simultaneous Determination by Capillary Gas Chromatography of Organic Acids, Sugars, and Sugar Alcohols in Plant Tissue Extracts as Their Trimethylsilyl Derivatives. <i>Analytical Biochemistry</i> , 1999, 266, 77-84.	1.1	110
46	Salt Tolerance in the Halophyte <i>Halosarcia pergranulata</i> subsp. <i>pergranulata</i> . <i>Annals of Botany</i> , 1999, 83, 207-213.	1.4	109
47	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.	1.7	108
48	Does anoxia tolerance involve altering the energy currency towards PPI?. <i>Trends in Plant Science</i> , 2008, 13, 221-227.	4.3	107
49	<i>Lotus tenuis</i> tolerates the interactive effects of salinity and waterlogging by 'excluding' Na ⁺ and Cl ⁻ from the xylem. <i>Journal of Experimental Botany</i> , 2007, 58, 2169-2180.	2.4	101
50	Heat stress of two tropical seagrass species during low tides – impact on underwater net photosynthesis, dark respiration and diel internal aeration. <i>New Phytologist</i> , 2016, 210, 1207-1218.	3.5	101
51	Tolerance of wheat (<i>Triticum aestivum</i> cvs Gamenya and Kite) and triticale (<i>Triticosecale</i> cv. Muir) to waterlogging. <i>New Phytologist</i> , 1992, 120, 335-344.	3.5	99
52	Plant growth and physiology under heterogeneous salinity. <i>Plant and Soil</i> , 2012, 354, 1-19.	1.8	98
53	Waterlogging Tolerance Among a Diverse Range of <i>Trifolium</i> Accessions is Related to Root Porosity, Lateral Root Formation and 'Aerotropic Rooting'. <i>Annals of Botany</i> , 2001, 88, 579-589.	1.4	97
54	Internal aeration of paddy field rice (<i>Oryza sativa</i>) during complete submergence – importance of light and floodwater. <i>New Phytologist</i> , 2013, 197, 1193-1203.	3.5	96

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55	The potential for developing fodder plants for the salt-affected areas of southern and eastern Australia: an overview. <i>Australian Journal of Experimental Agriculture</i> , 2005, 45, 301.	1.0	92
56	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.	1.6	92
57	Assessment of ICCV 2—JG 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.	1.0	90
58	Plant tolerance of flooding stress “ recent advances. <i>Plant, Cell and Environment</i> , 2014, 37, 2211-2215.	2.8	90
59	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.	4.4	89
60	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.	1.8	88
61	Role of ethylene in acclimations to promote oxygen transport in roots of plants in waterlogged soils. <i>Plant Science</i> , 2008, 175, 52-58.	1.7	87
62	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.	2.0	86
63	Changes in physiological and morphological traits of roots and shoots of wheat in response to different depths of waterlogging. <i>Functional Plant Biology</i> , 2001, 28, 1121.	1.1	85
64	Determination of Metabolites by 1H NMR and GC: Analysis for Organic Osmolytes in Crude Tissue Extracts. <i>Analytical Biochemistry</i> , 1993, 214, 260-271.	1.1	84
65	Variable tolerance of wetland tree species to combined salinity and waterlogging is related to regulation of ion uptake and production of organic solutes. <i>New Phytologist</i> , 2006, 169, 123-134.	3.5	83
66	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, 4795-4806.	2.4	83
67	Protein Synthesis by Rice Coleoptiles During Prolonged Anoxia: Implications for Glycolysis, Growth and Energy Utilization. <i>Annals of Botany</i> , 2005, 96, 703-715.	1.4	80
68	Growth and ion relations in response to combined salinity and waterlogging in the perennial forage legumes <i>Lotus corniculatus</i> and <i>Lotus tenuis</i> . <i>Plant and Soil</i> , 2006, 289, 369-383.	1.8	79
69	Salt tolerance in a <i>Hordeum marinum</i> - <i>Triticum aestivum</i> amphiploid, and its parents. <i>Journal of Experimental Botany</i> , 2007, 58, 1219-1229.	2.4	79
70	Flooding tolerance of forage legumes. <i>Journal of Experimental Botany</i> , 2017, 68, erw239.	2.4	78
71	Diversity in the genus <i>Melilotus</i> for tolerance to salinity and waterlogging. <i>Plant and Soil</i> , 2008, 304, 89-101.	1.8	77
72	Morphology, Anatomy and Histochemistry of <i>Salicornioideae</i> (<i>Chenopodiaceae</i>) Fruits and Seeds. <i>Annals of Botany</i> , 2005, 95, 917-933.	1.4	75

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73	Growth responses of cool-season grain legumes to transient waterlogging. <i>Australian Journal of Agricultural Research</i> , 2007, 58, 406.	1.5	74
74	Interactive effects of Ca ²⁺ and NaCl salinity on the ionic relations and proline accumulation in the primary root tip of <i>Sorghum bicolor</i> . <i>Physiologia Plantarum</i> , 1996, 97, 421-424.	2.6	73
75	Waterlogging affects the growth, development of tillers, and yield of wheat through a severe, but transient, N deficiency. <i>Crop and Pasture Science</i> , 2009, 60, 578.	0.7	73
76	A perspective on underwater photosynthesis in submerged terrestrial wetland plants. <i>AoB PLANTS</i> , 2011, 2011, plr030.	1.2	72
77	Assessment of O ₂ diffusivity across the barrier to radial O ₂ loss in adventitious roots of <i>Hordeum marinum</i> . <i>New Phytologist</i> , 2008, 179, 405-416.	3.5	70
78	Improving crop salt tolerance using transgenic approaches: An update and physiological analysis. <i>Plant, Cell and Environment</i> , 2020, 43, 2932-2956.	2.8	70
79	Salt sensitivity in chickpea (<i>Cicer arietinum</i>): ions in reproductive tissues and yield components in contrasting genotypes. <i>Plant, Cell and Environment</i> , 2015, 38, 1565-1577.	2.8	69
80	Rice leaf hydrophobicity and gas films are conferred by a wax synthesis gene (<i>LGF1</i>) and contribute to flood tolerance. <i>New Phytologist</i> , 2018, 218, 1558-1569.	3.5	68
81	Aerenchyma formation and radial O ₂ loss along adventitious roots of wheat with only the apical root portion exposed to O ₂ deficiency. <i>Plant, Cell and Environment</i> , 2003, 26, 1713-1722.	2.8	67
82	Two key genomic regions harbour QTLs for salinity tolerance in ICCV 2011 derived chickpea (<i>Cicer arietinum</i>). <i>Journal of Experimental Botany</i> , 2017, 68, erw153.	1.6	67
83	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, erw153.	2.4	67
84	Oxygen dynamics during submergence in the halophytic stem succulent <i>Halosarcia pergranulata</i> . <i>Plant, Cell and Environment</i> , 2006, 29, 1388-1399.	2.8	65
85	Response to non-uniform salinity in the root zone of the halophyte <i>Atriplex nummularia</i> : growth, photosynthesis, water relations and tissue ion concentrations. <i>Annals of Botany</i> , 2009, 104, 737-745.	1.4	65
86	Effect of foliar applications of glycinebetaine on stomatal conductance, abscisic acid and solute concentrations in leaves of salt- or drought-stressed tomato. <i>Functional Plant Biology</i> , 1998, 25, 655.	1.1	64
87	Gas film retention and underwater photosynthesis during field submergence of four contrasting rice genotypes. <i>Journal of Experimental Botany</i> , 2014, 65, 3225-3233.	2.4	64
88	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, 1126-1137.	2.8	63
89	EST-derived SSR markers from defined regions of the wheat genome to identify <i>Lophopyrum elongatum</i> specific loci. <i>Genome</i> , 2005, 48, 811-822.	0.9	61
90	Transfer of the barrier to radial oxygen loss in roots of <i>Hordeum marinum</i> to wheat (<i>Triticum aestivum</i>): evaluation of four <i>H. marinum</i> wheat amphiploids. <i>New Phytologist</i> , 2011, 190, 499-508.	3.5	60

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91	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, 3747-3762.	2.4	60
92	Oxygen deficiency and salinity affect cell-specific ion concentrations in adventitious roots of barley (<i>Hordeum vulgare</i>). <i>New Phytologist</i> , 2015, 208, 1114-1125.	3.5	59
93	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, 420-431.	3.5	58
94	Waterlogging tolerance is associated with root porosity in barley (<i>Hordeum vulgare</i> L.). <i>Molecular Breeding</i> , 2015, 35, 1.	1.0	58
95	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.	2.8	58
96	Interactive effects of salinity, nitrogen and sulphur on the organic solutes in <i>Spartina alterniflora</i> leaf blades. <i>Journal of Experimental Botany</i> , 1996, 47, 369-375.	2.4	57
97	Tolerance of <i>Hordeum marinum</i> accessions to O ₂ deficiency, salinity and these stresses combined. <i>Annals of Botany</i> , 2009, 103, 237-248.	1.4	57
98	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, 6347-6358.	2.4	56
99	Leaf gas films of <i>Spartina anglica</i> enhance rhizome and root oxygen during tidal submergence. <i>Plant, Cell and Environment</i> , 2011, 34, 2083-2092.	2.8	55
100	Aerenchyma Formation in Plants. <i>Plant Cell Monographs</i> , 2014, , 247-265.	0.4	55
101	Photosynthetic response to globally increasing CO ₂ of co-occurring temperate seagrass species. <i>Plant, Cell and Environment</i> , 2016, 39, 1240-1250.	2.8	54
102	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.	2.4	54
103	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.	2.0	53
104	Anoxia tolerance in rice seedlings: exogenous glucose improves growth of an anoxia-'intolerant', but not of a 'tolerant' genotype. <i>Journal of Experimental Botany</i> , 2003, 54, 2363-2373.	2.4	52
105	Morphological and Physiological Responses of Rice (<i>Oryza sativa</i>) to Limited Phosphorus Supply in Aerated and Stagnant Solution Culture. <i>Annals of Botany</i> , 2006, 98, 995-1004.	1.4	52
106	<i>Arabidopsis</i> rice wheat gene orthologues for Na ⁺ transport and transcript analysis in wheat <i>L. elongatum</i> aneuploids under salt stress. <i>Molecular Genetics and Genomics</i> , 2007, 277, 199-212.	1.0	49
107	Friend or Foe? Chloride Patterning in Halophytes. <i>Trends in Plant Science</i> , 2019, 24, 142-151.	4.3	49
108	Salt tolerance and avoidance mechanisms at germination of annual pasture legumes: importance for adaptation to saline environments. <i>Plant and Soil</i> , 2009, 315, 241-255.	1.8	48

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109	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.	1.9	48
110	Soil properties and turf growth on a sandy soil amended with fly ash. <i>Plant and Soil</i> , 2003, 256, 103-114.	1.8	47
111	Salt tolerance in <i>Eucalyptus</i> spp.: identity and response of putative osmolytes. <i>Plant, Cell and Environment</i> , 2005, 28, 772-787.	2.8	47
112	Interactions of Ca ²⁺ and NaCl stress on the ion relations and intracellular pH of <i>Sorghum bicolor</i> root tips: An <i>in vivo</i> ³¹ P-NMR study. <i>Journal of Experimental Botany</i> , 1994, 45, 1037-1044.	2.4	46
113	Tolerance of extreme salinity in two stem-succulent halophytes (<i>Tecticornia</i> species). <i>Functional Plant Biology</i> , 2013, 40, 897.	1.1	46
114	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, erw378.	2.4	46
115	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, 405-414.	1.4	45
116	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, 2325-2338.	2.8	45
117	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, 703-711.	1.4	44
118	Evidence for down-regulation of ethanolic fermentation and K ⁺ effluxes in the coleoptile of rice seedlings during prolonged anoxia. <i>Journal of Experimental Botany</i> , 2001, 52, 1507-1517.	2.4	43
119	Growth of tomato and an ABA-deficient mutant (<i>sitiens</i>) under saline conditions. <i>Physiologia Plantarum</i> , 2003, 117, 58-63.	2.6	43
120	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.	1.6	43
121	Spatial patterns of radial oxygen loss and nitrate net flux along adventitious roots of rice raised in aerated or stagnant solution. <i>Functional Plant Biology</i> , 2002, 29, 1475.	1.1	43
122	Aerenchymatous phellem in hypocotyl and roots enables O ₂ transport in <i>Melilotus siculus</i> . <i>New Phytologist</i> , 2011, 190, 340-350.	3.5	42
123	Efficient use of energy in anoxia-tolerant plants with focus on germinating rice seedlings. <i>New Phytologist</i> , 2015, 206, 36-56.	3.5	42
124	Physical gills prevent drowning of many wetland insects, spiders and plants. <i>Journal of Experimental Biology</i> , 2012, 215, 705-709.	0.8	41
125	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.	2.8	41
126	Simultaneous Analysis of Amino and Organic Acids in Extracts of Plant Leaves as tert-Butyldimethylsilyl Derivatives by Capillary Gas Chromatography. <i>Analytical Biochemistry</i> , 1998, 259, 203-211.	1.1	40

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127	Crassulacean acid metabolism enhances underwater photosynthesis and diminishes photorespiration in the aquatic plant <i>Isoetes australis</i> . <i>New Phytologist</i> , 2011, 190, 332-339.	3.5	40
128	The barrier to radial oxygen loss from roots of rice (<i>Oryza sativa</i> L.) is induced by growth in stagnant solution. , 0, .		40
129	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.	2.4	38
130	Development of wheat "Lophopyrum elongatum recombinant lines for enhanced sodium "exclusion" during salinity stress. <i>Theoretical and Applied Genetics</i> , 2009, 119, 1313-1323.	1.8	37
131	The mechanism of improved aeration due to gas films on leaves of submerged rice. <i>Plant, Cell and Environment</i> , 2014, 37, 2433-2452.	2.8	37
132	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, 4691-4700.	2.4	36
133	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.	2.0	36
134	Lateral roots, in addition to adventitious roots, form a barrier to radial oxygen loss in <i>Zea nicaraguensis</i> and a chromosome segment introgression line in maize. <i>New Phytologist</i> , 2021, 229, 94-105.	3.5	35
135	Reduced leaching of nitrate, ammonium, and phosphorus in a sandy soil by fly ash amendment. <i>Soil Research</i> , 2002, 40, 1201.	0.6	34
136	Turfgrass (<i>Cynodon dactylon</i> L.) sod production on sandy soils: II. Effects of irrigation and fertiliser regimes on N leaching. <i>Plant and Soil</i> , 2006, 284, 147-164.	1.8	34
137	Water uptake by roots of <i>Hordeum marinum</i> : formation of a barrier to radial O ₂ loss does not affect root hydraulic conductivity. <i>Journal of Experimental Botany</i> , 2006, 57, 655-664.	2.4	34
138	Photosynthesis in aquatic adventitious roots of the halophytic stem-succulent <i>Tecticornia pergranulata</i> (formerly <i>Halosarcia pergranulata</i>). <i>Plant, Cell and Environment</i> , 2008, 31, 1007-1016.	2.8	34
139	Salinity and waterlogging tolerance amongst accessions of messina (<i>Melilotus siculus</i>). <i>Crop and Pasture Science</i> , 2011, 62, 225.	0.7	34
140	Responses of rice to Fe ²⁺ in aerated and stagnant conditions: growth, root porosity and radial oxygen loss barrier. <i>Functional Plant Biology</i> , 2014, 41, 922.	1.1	34
141	Pattern of Water Use and Seed Yield under Terminal Drought in Chickpea Genotypes. <i>Frontiers in Plant Science</i> , 2017, 8, 1375.	1.7	34
142	Leaf gas films, underwater photosynthesis and plant species distributions in a flood gradient. <i>Plant, Cell and Environment</i> , 2016, 39, 1537-1548.	2.8	33
143	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, 311-319.	3.5	32
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146	Tolerance of combined submergence and salinity in the halophytic stem-succulent <i>Tecticornia pergranulata</i> . <i>Annals of Botany</i> , 2009, 103, 303-312.	1.4	30
147	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.	0.1	30
148	Salt sensitivity in chickpea is determined by sodium toxicity. <i>Planta</i> , 2016, 244, 623-637.	1.6	30
149	Analysis of dimethylsulphoniopropionate (DMS), betaines and other organic solutes in plant tissue extracts using HPLC. <i>Phytochemical Analysis</i> , 2000, 11, 163-168.	1.2	29
150	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.	2.0	29
151	Global patterns of the leaf economics spectrum in wetlands. <i>Nature Communications</i> , 2020, 11, 4519.	5.8	29
152	Waterlogging tolerance and recovery of 10 <i>Lotus</i> species. <i>Australian Journal of Experimental Agriculture</i> , 2008, 48, 480.	1.0	28
153	Does N fertiliser regime influence N leaching and quality of different-aged turfgrass (<i>Pennisetum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	28
154	Photosynthetic Performance and Fertility Are Repressed in GmAOX2b Antisense Soybean \hat{A} . <i>Plant Physiology</i> , 2010, 152, 1638-1649.	2.3	28
155	Salinity drives host reaction in <i>Phaseolus vulgaris</i> (common bean) to <i>Macrophomina phaseolina</i> . <i>Functional Plant Biology</i> , 2011, 38, 984.	1.1	28
156	<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.	1.8	28
157	Anatomical and biochemical characterisation of a barrier to radial O ₂ loss in adventitious roots of two contrasting <i>Hordeum marinum</i> accessions. <i>Functional Plant Biology</i> , 2017, 44, 845.	1.1	28
158	Adaptation of Rice to Flooded Soils. <i>Progress in Botany Fortschritte Der Botanik</i> , 2014, , 215-253.	0.1	27
159	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.	2.0	27
160	A Review of Warm-Season Turfgrass Evapotranspiration, Responses to Deficit Irrigation, and Drought Resistance. <i>Crop Science</i> , 2017, 57, S-98.	0.8	26
161	Drivers of plant traits that allow survival in wetlands. <i>Functional Ecology</i> , 2020, 34, 956-967.	1.7	26
162	Nitrogen Increases Evapotranspiration and Growth of a Warm-Season Turfgrass. <i>Agronomy Journal</i> , 2009, 101, 17-24.	0.9	25

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163	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.	2.8	25
164	Responses by Coleoptiles of Intact Rice Seedlings to Anoxia: K ⁺ Net Uptake from the External Solution and Translocation from the Caryopses. <i>Annals of Botany</i> , 2003, 91, 271-278.	1.4	24
165	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.	1.1	24
166	Effectiveness of Cultural Thatch Mat Controls for Young and Mature Kikuyu Turfgrass. <i>Agronomy Journal</i> , 2009, 101, 67-74.	0.9	23
167	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.	1.7	23
168	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.	1.7	23
169	Oxygen Transport, Respiration, and Anaerobic Carbohydrate Catabolism in Roots in Flooded Soils. , 2005, , 137-158.		22
170	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, 213-223.	2.8	22
171	Variable response of three <i>Trifolium repens</i> ecotypes to soil flooding by seawater. <i>Annals of Botany</i> , 2014, 114, 347-355.	1.4	22
172	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 phellem. <i>Annals of Botany</i> , 2019, 123, 169-180.	1.4	22
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174	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.	1.8	21
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176	Novel Salinity Tolerance Loci in Chickpea Identified in Glasshouse and Field Environments. <i>Frontiers in Plant Science</i> , 2021, 12, 667910.	1.7	20
177	Regulation of intracellular pH during anoxia in rice coleoptiles in acidic and near neutral conditions. <i>Journal of Experimental Botany</i> , 2009, 60, 2119-2128.	2.4	19
178	A GmAOX2b antisense gene compromises vegetative growth and seed production in soybean. <i>Planta</i> , 2012, 236, 199-207.	1.6	19
179	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.	1.4	19
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182	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.	1.1	18
183	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.	1.6	18
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185	Submergence tolerance in <i>Hordeum marinum</i> : dissolved CO ₂ determines underwater photosynthesis and growth. <i>Functional Plant Biology</i> , 2010, 37, 524.	1.1	17
186	Granular wetting agents ameliorate water repellency in turfgrass of contrasting soil organic matter content. <i>Plant and Soil</i> , 2011, 348, 411-424.	1.8	17
187	Root O ₂ consumption, CO ₂ production and tissue concentration profiles in chickpea, as influenced by environmental hypoxia. <i>New Phytologist</i> , 2020, 226, 373-384.	3.5	17
188	Turfgrass (<i>Cynodon dactylon</i> L.) sod production on sandy soils: I. Effects of irrigation and fertiliser regimes on growth and quality. <i>Plant and Soil</i> , 2006, 284, 129-145.	1.8	16
189	Evaluation of a soil moisture sensor to reduce water and nutrient leaching in turfgrass (<i>Cynodon</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.0	16
190	Leaf gas films delay salt entry and enhance underwater photosynthesis and internal aeration of <i>Medicago sativa</i> submerged in saline water. <i>Plant, Cell and Environment</i> , 2014, 37, 2339-2349.	2.8	16
191	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.	1.5	16
192	Na ⁺ and/or Cl ⁻ Toxicities Determine Salt Sensitivity in Soybean (<i>Glycine max</i> (L.) Merr.), Mungbean (<i>Vigna radiata</i> (L.) R. Wilczek), Cowpea (<i>Vigna unguiculata</i> (L.) Walp.), and Common Bean (<i>Phaseolus</i>) Tj ETQq0 0 0.8 BT /Overlock 10 T	0.8	16
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200	The influence of NaCl salinity and hypoxia on aspects of growth in <i>Trifolium</i> species. <i>Crop and Pasture Science</i> , 2009, 60, 71.	0.7	14
201	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.	0.7	14
202	Tolerance of submerged germinating rice to 50‰ NaCl in aerated solution. <i>Physiologia Plantarum</i> , 2013, 149, 222-233.	2.6	14
203	Hydraulic redistribution: limitations for plants in saline soils. <i>Plant, Cell and Environment</i> , 2017, 40, 2437-2446.	2.8	14
204	Drought tolerances of three stem-succulent halophyte species of an inland semiarid salt lake system. <i>Functional Plant Biology</i> , 2014, 41, 1230.	1.1	13
205	Salinity tolerances of three succulent halophytes (<i>Tecticornia</i> spp.) differentially distributed along a salinity gradient. <i>Functional Plant Biology</i> , 2016, 43, 739.	1.1	13
206	Energetics of acclimation to NaCl by submerged, anoxic rice seedlings. <i>Annals of Botany</i> , 2017, 119, 129-142.	1.4	13
207	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.	2.8	13
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212	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.	1.8	12
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218	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.	1.1	9
219	Solute Regulation by Calcium in Salt-Stressed Plants. , 1994, , 443-461.		9
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222	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.	1.1	8
223	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.	0.7	7
224	Drying half of the root-zone from mid fruit growth to maturity in "Hass" avocado (<i>Persea americana</i>) Tj ETQq0 0 0 rgBT /Overlock 437-442.	1.7	6
225	Development of <i>Melilotus siculus</i> " A New Salt and Waterlogging-tolerant Annual Fodder Legume Species for Mediterranean-type Climates. , 2010, , 131-135.		6
226	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, 409-418.	1.4	6
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230	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.	0.8	5
231	Tolerance of four grain legume species to waterlogging, hypoxia and anoxia at germination and recovery. <i>AoB PLANTS</i> , 2021, 13, plab052.	1.2	5
232	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.	2.3	5
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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.	1.8	4
237	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.	1.4	3
238	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.	1.6	3
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242	Physiological Adaptations to Wetland Habitats. , 2016, , 1-12.		0