Hans Lambers

List of Publications by Year
in descending order

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590 papers	40,290 citations	2975 93 h-index	6300 158 g-index
631 all docs	631 docs citations	631 times ranked	24254 citing authors

#	Article	IF	Citations
1	Plant Physiological Ecology. , 2008, , .		1,265
2	Plant Physiological Ecology. , 1998, , .		1,156
3	Plant nutrient-acquisition strategies change with soil age. Trends in Ecology and Evolution, 2008, 23, 95-103.	8.7	1,092
4	Root Structure and Functioning for Efficient Acquisition of Phosphorus: Matching Morphological and Physiological Traits. Annals of Botany, 2006, 98, 693-713.	2.9	1,012
5	Inherent Variation in Growth Rate Between Higher Plants: A Search for Physiological Causes and Ecological Consequences. Advances in Ecological Research, 1992, , 187-261.	2.7	956
6	Opportunities for improving phosphorusâ€use efficiency in crop plants. New Phytologist, 2012, 195, 306-320.	7.3	702
7	Plant and microbial strategies to improve the phosphorus efficiency of agriculture. Plant and Soil, 2011, 349, 121-156.	3.7	678
8	Carbon and Nitrogen Economy of 24 Wild Species Differing in Relative Growth Rate. Plant Physiology, 1990, 94, 621-627.	4.8	540
9	Plant-microbe-soil interactions in the rhizosphere: an evolutionary perspective. Plant and Soil, 2009, 321, 83-115.	3.7	509
10	Functions of Macronutrients. , 2012, , 135-189.		479
11	Ecology and evolution of plant diversity in the endangered campo rupestre: a neglected conservation priority. Plant and Soil, 2016, 403, 129-152.	3.7	467
12	Plant diversity and overyielding: insights from belowground facilitation of intercropping in agriculture. New Phytologist, 2014, 203, 63-69.	7.3	449
13	Cluster Roots: A Curiosity in Context. Plant and Soil, 2005, 274, 101-125.	3.7	353
14	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. New Phytologist, 2015, 206, 614-636.	7.3	350
15	Strategies and agronomic interventions to improve the phosphorus-use efficiency of farming systems. Plant and Soil, 2011, 349, 89-120.	3.7	343
16	Root and leaf attributes accounting for the performance of fast- and slow-growing grasses at different nutrient supply. Plant and Soil, 1995, 170, 251-265.	3.7	323
17	Plant mineral nutrition in ancient landscapes: high plant species diversity on infertile soils is linked to functional diversity for nutritional strategies. Plant and Soil, 2010, 334, 11-31.	3.7	323
18	Plant Functional Traits: Soil and Ecosystem Services. Trends in Plant Science, 2017, 22, 385-394.	8.8	311

#	Article	IF	Citations
19	Cyanide-resistant respiration: A non-phosphorylating electron transport pathway acting as an energy overflow. Physiologia Plantarum, 1982, 55, 478-485.	5.2	295
20	Root exudates drive interspecific facilitation by enhancing nodulation and N ₂ fixation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6496-6501.	7.1	282
21	Inherent Variation in Growth Rate Between Higher Plants: A Search for Physiological Causes and Ecological Consequences. Advances in Ecological Research, 2004, , 283-362.	2.7	280
22	Short-term waterlogging has long-term effects on the growth and physiology of wheat. New Phytologist, 2002, 153, 225-236.	7.3	261
23	Chickpea and white lupin rhizosphere carboxylates vary with soil properties and enhance phosphorus uptake. Plant and Soil, 2003, 248, 187-197.	3.7	260
24	Foliar nutrient concentrations and resorption efficiency in plants of contrasting nutrientâ€acquisition strategies along a 2â€millionâ€year dune chronosequence. Journal of Ecology, 2014, 102, 396-410.	4.0	253
25	Leaf manganese accumulation and phosphorus-acquisition efficiency. Trends in Plant Science, 2015, 20, 83-90.	8.8	251
26	Leaf Respiration of Snow Gum in the Light and Dark. Interactions between Temperature and Irradiance. Plant Physiology, 2000, 122, 915-924.	4.8	249
27	Effects of Water Stress on Respiration in Soybean Leaves. Plant Physiology, 2005, 139, 466-473.	4.8	245
28	Tradeoffs among root morphology, exudation and mycorrhizal symbioses for phosphorusâ€acquisition strategies of 16 crop species. New Phytologist, 2019, 223, 882-895.	7.3	235
29	The Alternative Oxidase: in vivo Regulation and Function. Plant Biology, 2003, 5, 2-15.	3.8	226
30	Proteaceae from severely phosphorusâ€impoverished soils extensively replace phospholipids with galactolipids and sulfolipids during leaf development to achieve a high photosynthetic phosphorusâ€useâ€efficiency. New Phytologist, 2012, 196, 1098-1108.	7.3	225
31	Phosphorus limitation, soilâ€borne pathogens and the coexistence of plant species in hyperdiverse forests and shrublands. New Phytologist, 2015, 206, 507-521.	7.3	222
32	Plant Growth Modelling and Applications: The Increasing Importance of Plant Architecture in Growth Models. Annals of Botany, 2007, 101, 1053-1063.	2.9	220
33	Nitrogen Redistribution during Grain Growth in Wheat (Triticum aestivum L.). Plant Physiology, 1983, 71, 7-14.	4.8	219
34	How a phosphorusâ€acquisition strategy based on carboxylate exudation powers the success and agronomic potential of lupines (<i>Lupinus</i>, Fabaceae). American Journal of Botany, 2013, 100, 263-288.	1.7	216
35	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. New Phytologist, 2021, 232, 973-1122.	7.3	216
36	Effect of Photosynthesis and Carbohydrate Status on Respiratory Rates and the Involvement of the Alternative Pathway in Leaf Respiration. Plant Physiology, 1983, 72, 598-603.	4.8	212

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37	Phosphorus Acquisition and Utilization in Plants. Annual Review of Plant Biology, 2022, 73, 17-42.	18.7	204
38	Diversity of plant nutrient-acquisition strategies increases during long-term ecosystem development. Nature Plants, 2015, 1, .	9.3	191
39	Respiratory energy costs for the maintenance of biomass, for growth and for ion uptake in roots of <i>Carex diandra</i> and <i>Carex acutiformis</i>. Physiologia Plantarum, 1988, 72, 483-491.	5.2	189
40	Experimental assessment of nutrient limitation along a 2â€millionâ€year dune chronosequence in the southâ€western Australia biodiversity hotspot. Journal of Ecology, 2012, 100, 631-642.	4.0	189
41	Measurement of the activity and capacity of the alternative pathway in intact plant tissues: Identification of problems and possible solutions. Physiologia Plantarum, 1988, 72, 642-649.	5.2	184
42	Respiratory energy requirements of roots vary with the potential growth rate of a plant species. Physiologia Plantarum, 1991, 83, 469-475.	5.2	183
43	Hidden miners â€“ the roles of cover crops and soil microorganisms in phosphorus cycling through agroecosystems. Plant and Soil, 2019, 434, 7-45.	3.7	180
44	Respiration in Intact Plants and Tissues: Its Regulation and Dependence on Environmental Factors, Metabolism and Invaded Organisms. , 1985, , 418-473.		176
45	Phosphorus Nutrition of Proteaceae in Severely Phosphorus-Impoverished Soils: Are There Lessons To Be Learned for Future Crops?. Plant Physiology, 2011, 156, 1058-1066.	4.8	176
46	Soil microbial biomass and the fate of phosphorus during long-term ecosystem development. Plant and Soil, 2013, 367, 225-234.	3.7	176
47	Carboxylate composition of root exudates does not relate consistently to a crop speciesâ€™ ability to use phosphorus from aluminium, iron or calcium phosphate sources. New Phytologist, 2007, 173, 181-190.	7.3	175
48	Distribution of Carboxylates and Acid Phosphatase and Depletion of Different Phosphorus Fractions in the Rhizosphere of a Cereal and Three Grain Legumes. Plant and Soil, 2006, 281, 109-120.	3.7	172
49	Enhanced Expression and Activation of the Alternative Oxidase during Infection of Arabidopsis withPseudomonas syringae pv tomato1. Plant Physiology, 1999, 120, 529-538.	4.8	171
50	Surplus Carbon Drives Allocation and Plantâ€“Soil Interactions. Trends in Ecology and Evolution, 2020, 35, 1110-1118.	8.7	171
51	Carboxylate release of wheat, canola and 11 grain legume species as affected by phosphorus status. Plant and Soil, 2006, 288, 127-139.	3.7	169
52	Presymptomatic visualization of plantâ€“virus interactions by thermography. Nature Biotechnology, 1999, 17, 813-816.	17.5	167
53	How does pedogenesis drive plant diversity?. Trends in Ecology and Evolution, 2013, 28, 331-340.	8.7	165
54	Phosphorus benefits of different legume crops to subsequent wheat grown in different soils of Western Australia. Plant and Soil, 2005, 271, 175-187.	3.7	164

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55	Root-released organic anions in response to low phosphorus availability: recent progress, challenges and future perspectives. Plant and Soil, 2020, 447, 135-156.	3.7	164
56	Little evidence for fire-adapted plant traits in Mediterranean climate regions. Trends in Plant Science, 2011, 16, 69-76.	8.8	162
57	Interaction of nitrogen and phosphorus nutrition in determining growth. Plant and Soil, 2003, 248, 257-268.	3.7	161
58	Developmental Physiology of Cluster-Root Carboxylate Synthesis and Exudation in Harsh Hakea. Expression of Phosphoenolpyruvate Carboxylase and the Alternative Oxidase. Plant Physiology, 2004, 135, 549-560.	4.8	160
59	Plant adaptations to severely phosphorus-impoverished soils. Current Opinion in Plant Biology, 2015, 25, 23-31.	7.1	157
60	Physiological and ecological significance of biomineralization in plants. Trends in Plant Science, 2014, 19, 166-174.	8.8	156
61	Costs of acquiring phosphorus by vascular land plants: patterns and implications for plant coexistence. New Phytologist, 2018, 217, 1420-1427.	7.3	154
62	Does elevated atmospheric CO2concentration inhibit mitochondrial respiration in green plants?. Plant, Cell and Environment, 1999, 22, 649-657.	5.7	153
63	Tissue and cellular phosphorus storage during development of phosphorus toxicity in Hakea prostrata (Proteaceae). Journal of Experimental Botany, 2004, 55, 1033-1044.	4.8	152
64	Changes in belowground biodiversity during ecosystem development. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6891-6896.	7.1	151
65	Phosphorus-mobilization ecosystem engineering: the roles of cluster roots and carboxylate exudation in young P-limited ecosystems. Annals of Botany, 2012, 110, 329-348.	2.9	149
66	Mineral nutrition of <i>campos rupestres</i> plant species on contrasting nutrientâ€impoverished soil types. New Phytologist, 2015, 205, 1183-1194.	7.3	149
67	How belowground interactions contribute to the coexistence of mycorrhizal and non-mycorrhizal species in severely phosphorus-impoverished hyperdiverse ecosystems. Plant and Soil, 2018, 424, 11-33.	3.7	149
68	Carbon trading for phosphorus gain: the balance between rhizosphere carboxylates and arbuscular mycorrhizal symbiosis in plant phosphorus acquisition. Plant, Cell and Environment, 2012, 35, 2170-2180.	5.7	148
69	Global ecological predictors of the soil priming effect. Nature Communications, 2019, 10, 3481.	12.8	148
70	<i>Banksia</i> species (Proteaceae) from severely phosphorusâ€impoverished soils exhibit extreme efficiency in the use and reâ€mobilization of phosphorus. Plant, Cell and Environment, 2007, 30, 1557-1565.	5.7	144
71	The physiological significance of cyanideâ€resistant respiration in higher plants. Plant, Cell and Environment, 1980, 3, 293-302.	5.7	140
72	Shoot P status regulates cluster-root growth and citrate exudation inLupinus albusgrown with a divided root system. Plant, Cell and Environment, 2003, 26, 265-273.	5.7	139

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73	Plant Physiological Ecology. , 2019, , .		139
74	The Cyanide-Resistant Oxidase: To Inhibit or Not to Inhibit, That Is the Question. Plant Physiology, 1996, 110, 1-2.	4.8	138
75	Respiration of crop species under CO2 enrichment. Physiologia Plantarum, 1985, 63, 351-356.	5.2	135
76	The effect of an elevated atmospheric CO2 concentration on growth, photosynthesis and respiration of Plantago major. Physiologia Plantarum, 1988, 73, 553-559.	5.2	135
77	The Causes of Inherently Slow Growth in Alpine Plants: An Analysis Based on the Underlying Carbon Economies of Alpine and Lowland Poa Species. Functional Ecology, 1996, 10, 698.	3.6	135
78	Exudation of carboxylates in Australian Proteaceae: chemical composition. Plant, Cell and Environment, 2001, 24, 891-904.	5.7	134
79	Title is missing!. Plant and Soil, 2002, 238, 111-122.	3.7	131
80	Trait correlation networks: a wholeâ€plant perspective on the recently criticized leaf economic spectrum. New Phytologist, 2014, 201, 378-382.	7.3	131
81	The carboxylateâ€releasing phosphorusâ€mobilizing strategy can be proxied by foliar manganese concentration in a large set of chickpea germplasm under low phosphorus supply. New Phytologist, 2018, 219, 518-529.	7.3	130
82	Linking root exudation to belowground economic traits for resource acquisition. New Phytologist, 2022, 233, 1620-1635.	7.3	129
83	Leaf water relations during summer water deficit: differential responses in turgor maintenance and variation in leaf structure among different plant communities in southâ€western Australia. Plant, Cell and Environment, 2008, 31, 1791-1802.	5.7	128
84	Mechanism of arsenic uptake, translocation and plant resistance to accumulate arsenic in rice grains. Agriculture, Ecosystems and Environment, 2018, 253, 23-37.	5.3	127
85	Respiration for growth, maintenance and ion uptake. An evaluation of concepts, methods, values and their significance. Physiologia Plantarum, 1983, 58, 556-563.	5.2	125
86	Cytokinin concentration in relation to mineral nutrition and benzyladenine treatment in Plantago major ssp. pleiosperma. Physiologia Plantarum, 1989, 75, 511-517.	5.2	125
87	Contribution of physiological and morphological plant traits to a species' competitive ability at high and low nitrogen supply. Oecologia, 1993, 94, 434-440.	2.0	124
88	Phosphorus nutrition in Proteaceae and beyond. Nature Plants, 2015, 1, 15109.	9.3	122
89	Low levels of ribosomal <scp>RNA</scp> partly account for the very high photosynthetic phosphorusâ€use efficiency of <scp>P</scp>roteaceae species. Plant, Cell and Environment, 2014, 37, 1276-1298.	5.7	121
90	Translocation of nitrogen in a vegetative wheat plant (Triticum aestivum). Physiologia Plantarum, 1982, 56, 11-17.	5.2	120

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91	Intercropping alleviates the inhibitory effect of N fertilization on nodulation and symbiotic N2 fixation of faba bean. Plant and Soil, 2009, 323, 295-308.	3.7	120
92	An In Vivo Perspective of the Role(s) of the Alternative Oxidase Pathway. Trends in Plant Science, 2018, 23, 206-219.	8.8	118
93	Introduction, Dryland Salinity: A Key Environmental Issue in Southern Australia. Plant and Soil, 2003, 257, V-VII.	3.7	114
94	Cyanide-resistant respiration in roots and leaves. Measurements with intact tissues and isolated mitochondria. Physiologia Plantarum, 1983, 58, 148-154.	5.2	113
95	Variation in morphological and physiological parameters in herbaceous perennial legumes in response to phosphorus supply. Plant and Soil, 2010, 331, 241-255.	3.7	110
96	Leaf Respiration in Light and Darkness (A Comparison of Slow- and Fast-Growing Poa Species). Plant Physiology, 1997, 113, 961-965.	4.8	109
97	Specialized 'dauciform' roots of Cyperaceae are structurally distinct, but functionally analogous with 'cluster' roots. Plant, Cell and Environment, 2006, 29, 1989-1999.	5.7	109
98	Rising CO2, secondary plant metabolism, plant-herbivore interactions and litter decomposition. Plant Ecology, 1993, 104-105, 263-271.	1.2	106
99	Tightening the Phosphorus Cycle through Phosphorus-Efficient Crop Genotypes. Trends in Plant Science, 2020, 25, 967-975.	8.8	104
100	Growth comparisons of a supernodulating soybean (Glycine max) mutant and its wild-type parent. Physiologia Plantarum, 1986, 68, 375-382.	5.2	99
101	Plant mineral nutrition in ancient landscapes: high plant species diversity on infertile soils is linked to functional diversity for nutritional strategies. Plant and Soil, 2011, 348, 7-27.	3.7	99
102	Contrasting effects of N and P deprivation on the regulation of photosynthesis in tomato plants in relation to feedback limitation. Journal of Experimental Botany, 2003, 54, 1957-1967.	4.8	97
103	Plant phosphorus-acquisition and -use strategies affect soil carbon cycling. Trends in Ecology and Evolution, 2021, 36, 899-906.	8.7	97
104	Interactions between arbuscular mycorrhizal and nonâ€mycorrhizal plants: do nonâ€mycorrhizal species at both extremes of nutrient availability play the same game?. Plant, Cell and Environment, 2013, 36, 1911-1915.	5.7	96
105	Evidence for Optimal Partitioning of Biomass and Nitrogen at a Range of Nitrogen Availabilities for a Fast- and Slow-Growing Species. Functional Ecology, 1993, 7, 63.	3.6	95
106	Respiratory energy requirements and rate of protein turnover in vivo determined by the use of an inhibitor of protein synthesis and a probe to assess its effect. Physiologia Plantarum, 1994, 92, 585-594.	5.2	95
107	Effect of soil drying on growth, biomass allocation and leaf gas exchange of two annual grass species. Plant and Soil, 1996, 185, 137-149.	3.7	95
108	Shallowâ€soil endemics: adaptive advantages and constraints of a specialized rootâ€system morphology. New Phytologist, 2008, 178, 371-381.	7.3	95

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109	Partitioning of evapotranspiration in a semi-arid eucalypt woodland in south-western Australia. Agricultural and Forest Meteorology, 2009, 149, 25-37.	4.8	95
110	The Role of the Alternative Oxidase in Stabilizing the in Vivo Reduction State of the Ubiquinone Pool and the Activation State of the Alternative Oxidase. Plant Physiology, 1998, 118, 599-607.	4.8	94
111	Effects of external phosphorus supply on internal phosphorus concentration and the initiation, growth and exudation of cluster roots in Hakea prostrata R.Br.. Plant and Soil, 2003, 248, 209-219.	3.7	93
112	Respiratory Patterns in Roots in Relation to Their Functioning. , 2002, , 521-552.		91
113	The respiratory energy requirements involved in nocturnal carbohydrate export from starch-storing mature source leaves and their contribution to leaf dark respiration. Journal of Experimental Botany, 1995, 46, 1185-1194.	4.8	90
114	Proteaceae from phosphorusâ€impoverished habitats preferentially allocate phosphorus to photosynthetic cells: An adaptation improving phosphorusâ€use efficiency. Plant, Cell and Environment, 2018, 41, 605-619.	5.7	90
115	SO42- Deprivation Has an Early Effect on the Content of Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase and Photosynthesis in Young Leaves of Wheat. Plant Physiology, 1997, 115, 1231-1239.	4.8	87
116	Phosphorus uptake by grain legumes and subsequently grown wheat at different levels of residual phosphorus fertiliser. Australian Journal of Agricultural Research, 2005, 56, 1041.	1.5	87
117	Variation in seedling growth of 11 perennial legumes in response to phosphorus supply. Plant and Soil, 2010, 328, 133-143.	3.7	86
118	Changes in physiological and morphological traits of roots and shoots of wheat in response to different depths of waterlogging. Functional Plant Biology, 2001, 28, 1121.	2.1	85
119	Growth and carbon economy of a fast-growing and a slow-growing grass species as dependent on nitrate supply. Plant and Soil, 1995, 171, 217-227.	3.7	84
120	Phosphorus addition decreases microbial residual contribution to soil organic carbon pool in a tropical coastal forest. Global Change Biology, 2021, 27, 454-466.	9.5	84
121	Growth and water-use efficiency of 10 Triticum aestivum cultivars at different water availability in relation to allocation of biomass. Plant, Cell and Environment, 1997, 20, 200-210.	5.7	83
122	Root morphology, root-hair development and rhizosheath formation on perennial grass seedlings is influenced by soil acidity. Plant and Soil, 2010, 335, 457-468.	3.7	83
123	A root trait accounting for the extreme phosphorus sensitivity of Hakea prostrata (Proteaceae). Plant, Cell and Environment, 2004, 27, 991-1004.	5.7	82
124	Phosphorus recycling in photorespiration maintains high photosynthetic capacity in woody species. Plant, Cell and Environment, 2015, 38, 1142-1156.	5.7	82
125	Ontogenetic shifts in plant ecological strategies. Functional Ecology, 2018, 32, 2730-2741.	3.6	82
126	Why do fast- and slow-growing grass species differ so little in their rate of root respiration, considering the large differences in rate of growth and ion uptake?. Plant, Cell and Environment, 1998, 21, 995-1005.	5.7	80

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127	Does cluster-root activity benefit nutrient uptake and growth of co-existing species?. Oecologia, 2014, 174, 23-31.	2.0	80
128	Foliar phosphorus fractions reveal how tropical plants maintain photosynthetic rates despite low soil phosphorus availability. Functional Ecology, 2019, 33, 503-513.	3.6	80
129	The occurrence of dauciform roots amongst Western Australian reeds, rushes and sedges, and the impact of phosphorus supply on dauciformâ€root development in Schoenus unispiculatus (Cyperaceae). New Phytologist, 2005, 165, 887-898.	7.3	79
130	Manganese accumulation in leaves ofHakea prostrata(Proteaceae) and the significance of cluster roots for micronutrient uptake as dependent on phosphorus supply. Physiologia Plantarum, 2005, 124, 441-450.	5.2	79
131	Response of mitochondria to light intensity in the leaves of sun and shade species. Plant, Cell and Environment, 2005, 28, 760-771.	5.7	79
132	Growth and translocation of C and N in wheat (Triticum aestivum) grown with a split root system. Physiologia Plantarum, 1982, 56, 421-429.	5.2	78
133	Functional significance of dauciform roots: exudation of carboxylates and acid phosphatase under phosphorus deficiency in Caustis blakei (Cyperaceae). New Phytologist, 2006, 170, 491-500.	7.3	78
134	Systemic suppression of cluster-root formation and net P-uptake rates in Grevillea crithmifolia at elevated P supply: a proteacean with resistance for developing symptoms of â€˜P toxicityâ€™. Journal of Experimental Botany, 2006, 57, 413-423.	4.8	77
135	Effect of soil acidity, soil strength and macropores on root growth and morphology of perennial grass species differing in acidâ€soil resistance. Plant, Cell and Environment, 2011, 34, 444-456.	5.7	77
136	Greater root phosphatase activity in nitrogenâ€fixing rhizobial but not actinorhizal plants with declining phosphorus availability. Journal of Ecology, 2017, 105, 1246-1255.	4.0	77
137	Effect of Drought on Metabolism and Partitioning of Carbon in Two Wheat Varieties Differing in Drought-tolerance. Annals of Botany, 1985, 55, 727-742.	2.9	76
138	Multiple adaptive responses of Australian native perennial legumes with pasture potential to grow in phosphorus- and moisture-limited environments. Annals of Botany, 2010, 105, 755-767.	2.9	76
139	Phosphorus nutrition of phosphorus-sensitive Australian native plants: threats to plant communities in a global biodiversity hotspot. , 2013, 1, cot010-cot010.		76
140	Advances and Perspectives to Improve the Phosphorus Availability in Cropping Systems for Agroecological Phosphorus Management. Advances in Agronomy, 2015, 134, 51-79.	5.2	76
141	Increasing plant species diversity and extreme species turnover accompany declining soil fertility along a longâ€term chronosequence in a biodiversity hotspot. Journal of Ecology, 2016, 104, 792-805.	4.0	76
142	Growth and dry-mass partitioning in tomato as affected by phosphorus nutrition and light. Plant, Cell and Environment, 2001, 24, 1309-1317.	5.7	75
143	Carboxylate concentrations in the rhizosphere of lateral roots of chickpea (Cicer arietinum) increase during plant development, but are not correlated with phosphorus status of soil or plants. New Phytologist, 2004, 162, 745-753.	7.3	74
144	Root respiratory characteristics associated with plant adaptation to high soil temperature for geothermal and turf-type Agrostis species. Journal of Experimental Botany, 2006, 57, 623-631.	4.8	74

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145	Molecular mechanisms underpinning phosphorusâ€use efficiency in rice. Plant, Cell and Environment, 2018, 41, 1483-1496.	5.7	74
146	AusTraits, a curated plant trait database for the Australian flora. Scientific Data, 2021, 8, 254.	5.3	73
147	Growth rate, plant development and water relations of the ABA-deficient tomato mutant sitiens. Physiologia Plantarum, 1994, 92, 102-108.	5.2	72
148	Plant Responses to Limited Moisture and Phosphorus Availability. Advances in Agronomy, 2014, 124, 143-200.	5.2	72
149	The effect of nitrate-nitrogen supply on bacteria and bacterial-feeding fauna in the rhizosphere of different grass species. Oecologia, 1992, 91, 253-259.	2.0	71
150	The regulation of glycolysis and electron transport in roots. Physiologia Plantarum, 1983, 58, 155-166.	5.2	70
151	Contrasting responses of root morphology and root-exuded organic acids to low phosphorus availability in three important food crops with divergent root traits. AoB PLANTS, 2015, 7, plv097.	2.3	70
152	Hydroxamate-Stimulated O₂ Uptake in Roots of <i>Pisum sativum</i> and <i>Zea mays</i>, Mediated by a Peroxidase. Plant Physiology, 1986, 82, 236-240.	4.8	69
153	Effects of nitrogen supply on the anatomy and chemical composition of leaves of four grass species belonging to the genus Poa, as determined by image-processing analysis and pyrolysis-mass spectrometry. Plant, Cell and Environment, 1997, 20, 881-897.	5.7	69
154	Plant Water Relations. , 2008, , 163-223.		69
155	Interactions between osmoregulation and the alternative respiratory pathway in Plantago coronopus as affected by salinity. Physiologia Plantarum, 1981, 51, 63-68.	5.2	68
156	Using multiple trait associations to define hydraulic functional types in plant communities of south-western Australia. Oecologia, 2008, 158, 385-397.	2.0	68
157	Title is missing!. Plant and Soil, 1999, 215, 123-134.	3.7	67
158	Aerenchyma formation and radial O2 loss along adventitious roots of wheat with only the apical root portion exposed to O2 deficiency. Plant, Cell and Environment, 2003, 26, 1713-1722.	5.7	67
159	Effect of respiratory homeostasis on plant growth in cultivars of wheat and rice. Plant, Cell and Environment, 2004, 27, 853-862.	5.7	67
160	Triticum aestivum shows a greater biomass response to a supply of aluminium phosphate than Lupinus albus , despite releasing fewer carboxylates into the rhizosphere. New Phytologist, 2006, 169, 515-524.	7.3	67
161	Downregulation of net phosphorus-uptake capacity is inversely related to leaf phosphorus-resorption proficiency in four species from a phosphorus-impoverished environment. Annals of Botany, 2013, 111, 445-454.	2.9	67
162	The contribution of roots and shoots to whole plant nitrate reduction in fast- and slow-growing grass species. Journal of Experimental Botany, 2002, 53, 1635-1642.	4.8	66

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163	Variation in nutrient-acquisition patterns by mycorrhizal fungi of rare and common orchids explains diversification in a global biodiversity hotspot. Annals of Botany, 2013, 111, 1233-1241.	2.9	65
164	Morphologies and elemental compositions of calcium crystals in phyllodes and branchlets of Acacia robeorum (Leguminosae: Mimosoideae). Annals of Botany, 2012, 109, 887-896.	2.9	63
165	Differentiating phosphate-dependent and phosphate-independent systemic phosphate-starvation response networks in Arabidopsis thaliana through the application of phosphite. Journal of Experimental Botany, 2015, 66, 2501-2514.	4.8	63
166	Root Respiration and Growth in Plantago major as Affected by Vesicular-Arbuscular Mycorrhizal Infection. Plant Physiology, 1989, 91, 227-232.	4.8	62
167	Root morphological traits that determine phosphorus-acquisition efficiency and critical external phosphorus requirement in pasture species. Functional Plant Biology, 2016, 43, 815.	2.1	62
168	Phosphorus facilitation and covariation of root traits in steppe species. New Phytologist, 2020, 226, 1285-1298.	7.3	62
169	Can Meristematic Activity Determine Variation in Leaf Size and Elongation Rate among Four Poa Species? A Kinematic Study. Plant Physiology, 2000, 124, 845-856.	4.8	61
170	Are trade-offs in allocation pattern and root morphology related to species abundance? A congeneric comparison between rare and common species in the south-western Australian flora. Journal of Ecology, 2003, 91, 58-67.	4.0	61
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172	Genetic and Physiological Architecture of Early Vigor in Aegilops tauschii, the D-Genome Donor of Hexaploid Wheat. A Quantitative Trait Loci Analysis. Plant Physiology, 2005, 139, 1078-1094.	4.8	60
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