Hans Lambers

List of Publications by Year
in descending order

563 papers	46,619 citations	1977 100 h-index	4049 173 g-index
636 all docs	636 docs citations	636 times ranked	27605 citing authors

#	Article	IF	Citations
1	Plant nutrient-acquisition strategies change with soil age. Trends in Ecology and Evolution, 2008, 23, 95-103.	9.4	1,272
2	Root Structure and Functioning for Efficient Acquisition of Phosphorus: Matching Morphological and Physiological Traits. Annals of Botany, 2006, 98, 693-713.	3.1	1,140
3	Inherent Variation in Growth Rate Between Higher Plants: A Search for Physiological Causes and Ecological Consequences. Advances in Ecological Research, 1992, , 187-261.	0.0	1,021
4	Opportunities for improving phosphorusâ€use efficiency in crop plants. New Phytologist, 2012, 195, 306-320.	8.1	853
5	Plant and microbial strategies to improve the phosphorus efficiency of agriculture. Plant and Soil, 2011, 349, 121-156.	3.4	792
6	Functions of Macronutrients. , 2012, , 135-189.		619
7	Carbon and Nitrogen Economy of 24 Wild Species Differing in Relative Growth Rate. Plant Physiology, 1990, 94, 621-627.	5.4	564
8	Plant diversity and overyielding: insights from belowground facilitation of intercropping in agriculture. New Phytologist, 2014, 203, 63-69.	8.1	564
9	Ecology and evolution of plant diversity in the endangered campo rupestre: a neglected conservation priority. Plant and Soil, 2015, 403, 129-152.	3.4	560
10	Phosphorus Acquisition and Utilization in Plants. Annual Review of Plant Biology, 2022, 73, 17-42.	24.8	545
11	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. New Phytologist, 2021, 232, 973-1122.	8.1	451
12	Plant Functional Traits: Soil and Ecosystem Services. Trends in Plant Science, 2017, 22, 385-394.	10.8	409
13	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. New Phytologist, 2015, 206, 614-636.	8.1	402
14	Strategies and agronomic interventions to improve the phosphorus-use efficiency of farming systems. Plant and Soil, 2011, 349, 89-120.	3.4	390
15	Cluster Roots: A Curiosity in Context. Plant and Soil, 2005, 274, 101-125.	3.4	380
16	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.	7.5	378
17	Tradeoffs among root morphology, exudation and mycorrhizal symbioses for phosphorusâ€acquisition strategies of 16 crop species. New Phytologist, 2019, 223, 882-895.	8.1	354
18	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.	3.4	343

#	Article	IF	Citations
19	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.	3.4	343
20	Leaf manganese accumulation and phosphorus-acquisition efficiency. Trends in Plant Science, 2015, 20, 83-90.	10.8	311
21	Cyanide-resistant respiration: A non-phosphorylating electron transport pathway acting as an energy overflow. Physiologia Plantarum, 1982, 55, 478-485.	3.7	296
22	Short-term waterlogging has long-term effects on the growth and physiology of wheat. New Phytologist, 2002, 153, 225-236.	8.1	296
23	Chickpea and white lupin rhizosphere carboxylates vary with soil properties and enhance phosphorus uptake. Plant and Soil, 2003, 248, 187-197.	3.4	289
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.	4.6	288
25	Surplus Carbon Drives Allocation and Plantâ€“Soil Interactions. Trends in Ecology and Evolution, 2020, 35, 1110-1118.	9.4	285
26	Linking root exudation to belowground economic traits for resource acquisition. New Phytologist, 2022, 233, 1620-1635.	8.1	276
27	Phosphorus limitation, soilâ€borne pathogens and the coexistence of plant species in hyperdiverse forests and shrublands. New Phytologist, 2015, 206, 507-521.	8.1	269
28	Hidden miners â€“ the roles of cover crops and soil microorganisms in phosphorus cycling through agroecosystems. Plant and Soil, 2018, 434, 7-45.	3.4	265
29	Effects of Water Stress on Respiration in Soybean Leaves. Plant Physiology, 2005, 139, 466-473.	5.4	260
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.	8.1	260
31	Leaf Respiration of Snow Gum in the Light and Dark. Interactions between Temperature and Irradiance. Plant Physiology, 2000, 122, 915-924.	5.4	258
32	Root-released organic anions in response to low phosphorus availability: recent progress, challenges and future perspectives. Plant and Soil, 2019, 447, 135-156.	3.4	258
33	Diversity of plant nutrient-acquisition strategies increases during long-term ecosystem development. Nature Plants, 2015, 1, .	11.8	249
34	How a phosphorusâ€acquisition strategy based on carboxylate exudation powers the success and agronomic potential of lupines (Lupinus, Fabaceae). American Journal of Botany, 2013, 100, 263-288.	2.2	238
35	Plant Growth Modelling and Applications: The Increasing Importance of Plant Architecture in Growth Models. Annals of Botany, 2008, 101, 1053-1063.	3.1	236
36	Nitrogen Redistribution during Grain Growth in Wheat (Triticum aestivum L.). Plant Physiology, 1983, 71, 7-14.	5.4	228

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37	Global ecological predictors of the soil priming effect. Nature Communications, 2019, 10, .	14.2	222
38	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.	5.4	215
39	Costs of acquiring phosphorus by vascular land plants: patterns and implications for plant coexistence. New Phytologist, 2018, 217, 1420-1427.	8.1	214
40	Soil microbial biomass and the fate of phosphorus during long-term ecosystem development. Plant and Soil, 2012, 367, 225-234.	3.4	211
41	Experimental assessment of nutrient limitation along a 2â€million â€year dune chronosequence in the southâ€western Australia biodiversity hotspot. Journal of Ecology, 2012, 100, 631-642.	4.6	205
42	Global systematic review with meta-analysis reveals yield advantage of legume-based rotations and its drivers. Nature Communications, 2022, 13, .	14.2	205
43	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.	8.1	201
44	Plant phosphorus-acquisition and -use strategies affect soil carbon cycling. Trends in Ecology and Evolution, 2021, 36, 899-906.	9.4	201
45	Changes in belowground biodiversity during ecosystem development. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6891-6896.	7.5	200
46	Respiratory energy costs for the maintenance of biomass, for growth and for ion uptake in roots of Carex diandra and Carex acutiformis. Physiologia Plantarum, 1988, 72, 483-491.	3.7	198
47	Plant adaptations to severely phosphorus-impoverished soils. Current Opinion in Plant Biology, 2015, 25, 23-31.	7.4	197
48	Phosphorus Nutrition of Proteaceae in Severely Phosphorus-Impoverished Soils: Are There Lessons To Be Learned for Future Crops?. Plant Physiology, 2011, 156, 1058-1066.	5.4	193
49	Physiological and ecological significance of biomineralization in plants. Trends in Plant Science, 2014, 19, 166-174.	10.8	192
50	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.	3.4	189
51	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.	8.1	189
52	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.	3.7	188
53	Inherent Variation in Growth Rate Between Higher Plants: A Search for Physiological Causes and Ecological Consequences. Advances in Ecological Research, 2004, , 283-362.	0.0	188
54	Respiratory energy requirements of roots vary with the potential growth rate of a plant species. Physiologia Plantarum, 1991, 83, 469-475.	3.7	187

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55	Carboxylate release of wheat, canola and 11 grain legume species as affected by phosphorus status. Plant and Soil, 2006, 288, 127-139.	3.4	186
56	How belowground interactions contribute to the coexistence of mycorrhizal and non-mycorrhizal species in severely phosphorus-impoverished hyperdiverse ecosystems. Plant and Soil, 2017, 424, 11-33.	3.4	186
57	Respiration in Intact Plants and Tissues: Its Regulation and Dependence on Environmental Factors, Metabolism and Invaded Organisms. , 1985, , 418-473.		181
58	Interaction of nitrogen and phosphorus nutrition in determining growth. Plant and Soil, 2003, 248, 257-268.	3.4	181
59	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.	5.4	180
60	Tightening the Phosphorus Cycle through Phosphorus-Efficient Crop Genotypes. Trends in Plant Science, 2020, 25, 967-975.	10.8	180
61	Phosphorus benefits of different legume crops to subsequent wheat grown in different soils of Western Australia. Plant and Soil, 2005, 271, 175-187.	3.4	178
62	How does pedogenesis drive plant diversity?. Trends in Ecology and Evolution, 2013, 28, 331-340.	9.4	177
63	Mineral nutrition of campos rupestres plant species on contrasting nutrientâ€impoverished soil types. New Phytologist, 2015, 205, 1183-1194.	8.1	177
64	Enhanced Expression and Activation of the Alternative Oxidase during Infection of Arabidopsis withPseudomonas syringae pv tomato1. Plant Physiology, 1999, 120, 529-538.	5.4	176
65	Little evidence for fire-adapted plant traits in Mediterranean climate regions. Trends in Plant Science, 2011, 16, 69-76.	10.8	176
66	Presymptomatic visualization of plantâ€“virus interactions by thermography. Nature Biotechnology, 1999, 17, 813-816.	25.8	174
67	Tissue and cellular phosphorus storage during development of phosphorus toxicity in Hakea prostrata (Proteaceae). Journal of Experimental Botany, 2004, 55, 1033-1044.	5.2	166
68	Phosphorus-mobilization ecosystem engineering: the roles of cluster roots and carboxylate exudation in young P-limited ecosystems. Annals of Botany, 2012, 110, 329-348.	3.1	166
69	Trait correlation networks: a wholeâ€plant perspective on the recently criticized leaf economic spectrum. New Phytologist, 2014, 201, 378-382.	8.1	162
70	Mechanism of arsenic uptake, translocation and plant resistance to accumulate arsenic in rice grains. Agriculture, Ecosystems and Environment, 2018, 253, 23-37.	6.3	160
71	Phosphorus addition decreases microbial residual contribution to soil organic carbon pool in a tropical coastal forest. Global Change Biology, 2021, 27, 454-466.	11.1	157
72	Banksia 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.	6.4	155

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73	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.	6.4	153
74	An In Vivo Perspective of the Role(s) of the Alternative Oxidase Pathway. Trends in Plant Science, 2018, 23, 206-219.	10.8	149
75	Intercropping alleviates the inhibitory effect of N fertilization on nodulation and symbiotic N2 fixation of faba bean. Plant and Soil, 2009, 323, 295-308.	3.4	148
76	AusTraits, a curated plant trait database for the Australian flora. Scientific Data, 2021, 8, .	6.4	148
77	Phosphorus nutrition in Proteaceae and beyond. Nature Plants, 2015, 1, .	11.8	147
78	The physiological significance of cyanideâ€resistant respiration in higher plants. Plant, Cell and Environment, 1980, 3, 293-302.	6.4	146
79	The Cyanide-Resistant Oxidase: To Inhibit or Not to Inhibit, That Is the Question. Plant Physiology, 1996, 110, 1-2.	5.4	141
80	The effect of an elevated atmospheric CO2 concentration on growth, photosynthesis and respiration of Plantago major. Physiologia Plantarum, 1988, 73, 553-559.	3.7	137
81	Title is missing!. Plant and Soil, 2002, 238, 111-122.	3.4	137
82	Respiration of crop species under CO2 enrichment. Physiologia Plantarum, 1985, 63, 351-356.	3.7	136
83	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.	4.3	136
84	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.	6.4	136
85	Respiration for growth, maintenance and ion uptake. An evaluation of concepts, methods, values and their significance. Physiologia Plantarum, 1983, 58, 556-563.	3.7	129
86	Cytokinin concentration in relation to mineral nutrition and benzyladenine treatment in Plantago major ssp. pleiosperma. Physiologia Plantarum, 1989, 75, 511-517.	3.7	126
87	Contribution of physiological and morphological plant traits to a species' competitive ability at high and low nitrogen supply. Oecologia, 1993, 94, 434-440.	1.7	125
88	Specialized 'dauciform' roots of Cyperaceae are structurally distinct, but functionally analogous with 'cluster' roots. Plant, Cell and Environment, 2006, 29, 1989-1999.	6.4	123
89	Variation in morphological and physiological parameters in herbaceous perennial legumes in response to phosphorus supply. Plant and Soil, 2009, 331, 241-255.	3.4	122
90	Ontogenetic shifts in plant ecological strategies. Functional Ecology, 2018, 32, 2730-2741.	4.3	122

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91	Translocation of nitrogen in a vegetative wheat plant (Triticum aestivum). Physiologia Plantarum, 1982, 56, 11-17.	3.7	121
92	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.	3.4	121
93	Introduction, Dryland Salinity: A Key Environmental Issue in Southern Australia. Plant and Soil, 2003, 257, V-VII.	3.4	120
94	Cyanide-resistant respiration in roots and leaves. Measurements with intact tissues and isolated mitochondria. Physiologia Plantarum, 1983, 58, 148-154.	3.7	115
95	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.	6.4	115
96	Leaf Respiration in Light and Darkness (A Comparison of Slow- and Fast-Growing Poa Species). Plant Physiology, 1997, 113, 961-965.	5.4	114
97	Foliar phosphorus fractions reveal how tropical plants maintain photosynthetic rates despite low soil phosphorus availability. Functional Ecology, 2019, 33, 503-513.	4.3	113
98	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.	6.4	110
99	Rising CO2, secondary plant metabolism, plant-herbivore interactions and litter decomposition. Plant Ecology, 1993, 104-105, 263-271.	1.2	107
100	Molecular mechanisms underpinning phosphorusâ€use efficiency in rice. Plant, Cell and Environment, 2018, 41, 1483-1496.	6.4	107
101	Partitioning of evapotranspiration in a semi-arid eucalypt woodland in south-western Australia. Agricultural and Forest Meteorology, 2009, 149, 25-37.	5.4	106
102	Shallowâ€soil endemics: adaptive advantages and constraints of a specialized rootâ€system morphology. New Phytologist, 2008, 178, 371-381.	8.1	105
103	Growth comparisons of a supernodulating soybean (Glycine max) mutant and its wild-type parent. Physiologia Plantarum, 1986, 68, 375-382.	3.7	102
104	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.	3.4	102
105	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.	5.2	101
106	Root morphology, root-hair development and rhizosheath formation on perennial grass seedlings is influenced by soil acidity. Plant and Soil, 2010, 335, 457-468.	3.4	99
107	Phosphorus recycling in photorespiration maintains high photosynthetic capacity in woody species. Plant, Cell and Environment, 2015, 38, 1142-1156.	6.4	98
108	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.	5.4	97

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109	Belowground facilitation and trait matching: two or three to tango?. Trends in Plant Science, 2021, 26, 1227-1235.	10.8	97
110	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.	4.3	96
111	Effect of soil drying on growth, biomass allocation and leaf gas exchange of two annual grass species. Plant and Soil, 1996, 185, 137-149.	3.4	95
112	Phosphorus nutrition of phosphorus-sensitive Australian native plants: threats to plant communities in a global biodiversity hotspot. , 2013, 1, cot010-cot010.		95
113	Advances and Perspectives to Improve the Phosphorus Availability in Cropping Systems for Agroecological Phosphorus Management. Advances in Agronomy, 2015, , 51-79.	0.0	95
114	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.	5.2	94
115	Plant Responses to Limited Moisture and Phosphorus Availability. Advances in Agronomy, 2014, , 143-200.	0.0	94
116	Greater root phosphatase activity in nitrogenâ€fixing rhizobial but not actinorhizal plants with declining phosphorus availability. Journal of Ecology, 2017, 105, 1246-1255.	4.6	94
117	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.	4.6	93
118	Soil-plant-atmosphere interactions: structure, function, and predictive scaling for climate change mitigation. Plant and Soil, 2020, 461, 5-27.	3.4	91
119	Functional significance of dauciform roots: exudation of carboxylates and acid phosphatase under phosphorus deficiency in Caustis blakei (Cyperaceae). New Phytologist, 2006, 170, 491-500.	8.1	90
120	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.	5.4	89
121	Variation in seedling growth of 11 perennial legumes in response to phosphorus supply. Plant and Soil, 2009, 328, 133-143.	3.4	89
122	Phosphorus facilitation and covariation of root traits in steppe species. New Phytologist, 2020, 226, 1285-1298.	8.1	89
123	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.	3.7	87
124	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.	3.4	86
125	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.	6.4	86
126	Does cluster-root activity benefit nutrient uptake and growth of co-existing species?. Oecologia, 2013, 174, 23-31.	1.7	86

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127	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.	8.1	84
128	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.	5.2	84
129	Morphologies and elemental compositions of calcium crystals in phyllodes and branchlets of Acacia robeorum (Leguminosae: Mimosoideae). Annals of Botany, 2012, 109, 887-896.	3.1	83
130	Response of mitochondria to light intensity in the leaves of sun and shade species. Plant, Cell and Environment, 2005, 28, 760-771.	6.4	82
131	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	82
132	Belowground processes and sustainability in agroecosystems with intercropping. Plant and Soil, 2022, 476, 263-288.	3.4	82
133	The mycorrhiza-specific ammonium transporter ZmAMT3;1 mediates mycorrhiza-dependent nitrogen uptake in maize roots. Plant Cell, 2022, 34, 4066-4087.	7.6	82
134	Growth and translocation of C and N in wheat (Triticum aestivum) grown with a split root system. Physiologia Plantarum, 1982, 56, 421-429.	3.7	81
135	Carboxylate concentrations in the rhizosphere of lateral roots of chickpea () Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 432 Td (plants. New Phytologist, 2004, 162, 745-753.	8.1	81
136	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.	3.1	81
137	The influence of soil age on ecosystem structure and function across biomes. Nature Communications, 2020, 11, .	14.2	79
138	Effect of Drought on Metabolism and Partitioning of Carbon in Two Wheat Varieties Differing in Drought-tolerance. Annals of Botany, 1985, 55, 727-742.	3.1	78
139	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.	3.1	78
140	Leaf manganese concentrations as a tool to assess belowground plant functioning in phosphorus-impoverished environments. Plant and Soil, 2020, 461, 43-61.	3.4	77
141	Growth rate, plant development and water relations of the ABA-deficient tomato mutant sitiens. Physiologia Plantarum, 1994, 92, 102-108.	3.7	76
142	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.	5.2	76
143	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.	3.1	76
144	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.	5.2	76

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145	Responses of foliar phosphorus fractions to soil age are diverse along a 2ÂMyr dune chronosequence. New Phytologist, 2019, 223, 1621-1633.	8.1	76
146	Phosphorus acquisition and utilisation in crop legumes under global change. Current Opinion in Plant Biology, 2018, 45, 248-254.	7.4	74
147	The effect of pH on morphological and physiological root traits of Lupinus angustifolius treated with struvite as a recycled phosphorus source. Plant and Soil, 2018, 434, 65-78.	3.4	74
148	The effect of nitrate-nitrogen supply on bacteria and bacterial-feeding fauna in the rhizosphere of different grass species. Oecologia, 1992, 91, 253-259.	1.7	73
149	Moderating mycorrhizas: arbuscular mycorrhizas modify rhizosphere chemistry and maintain plant phosphorus status within narrow boundaries. Plant, Cell and Environment, 2014, 37, 911-921.	6.4	73
150	Phosphorus-fertilisation has differential effects on leaf growth and photosynthetic capacity of Arachis hypogaea L.. Plant and Soil, 2019, 447, 99-116.	3.4	72
151	Mobilization of soil phosphate after 8Âyears of warming is linked to plant phosphorusâ€acquisition strategies in an alpine meadow on the Qinghaiâ€Tibetan Plateau. Global Change Biology, 2021, 27, 6578-6591.	11.1	72
152	The regulation of glycolysis and electron transport in roots. Physiologia Plantarum, 1983, 58, 155-166.	3.7	71
153	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.	8.1	71
154	Using multiple trait associations to define hydraulic functional types in plant communities of south-western Australia. Oecologia, 2008, 158, 385-397.	1.7	71
155	Title is missing!. Plant and Soil, 1999, 215, 123-134.	3.4	70
156	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.	5.2	70
157	Supplementary Calcium Restores Peanut (Arachis hypogaea) Growth and Photosynthetic Capacity Under Low Nocturnal Temperature. Frontiers in Plant Science, 2020, 10, .	4.2	70
158	Hydroxamate-Stimulated O₂ Uptake in Roots of Pisum sativum and Zea mays, Mediated by a Peroxidase. Plant Physiology, 1986, 82, 236-240.	5.4	69
159	Interactions between osmoregulation and the alternative respiratory pathway in Plantago coronopus as affected by salinity. Physiologia Plantarum, 1981, 51, 63-68.	3.7	68
160	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.	5.4	68
161	Complementary plant nutrientâ€acquisition strategies promote growth of neighbour species. Functional Ecology, 2014, 28, 819-828.	4.3	68
162	Native soilborne pathogens equalize differences in competitive ability between plants of contrasting nutrientâ€acquisition strategies. Journal of Ecology, 2017, 105, 549-557.	4.6	68

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163	Eudicots from severely phosphorusâ€impoverished environments preferentially allocate phosphorus to their mesophyll. New Phytologist, 2018, 218, 959-973.	8.1	68
164	Organâ€specific phosphorusâ€allocation patterns and transcript profiles linked to phosphorus efficiency in two contrasting wheat genotypes. Plant, Cell and Environment, 2014, 37, 943-960.	6.4	67
165	Climatic and edaphic controls over the elevational pattern of microbial necromass in subtropical forests. Catena, 2021, 207, 105707.	5.6	66
166	Can Meristematic Activity Determine Variation in Leaf Size and Elongation Rate among Four Poa Species? A Kinematic Study. Plant Physiology, 2000, 124, 845-856.	5.4	65
167	Plant Water Relations. , 2008, , 163-223.		65
168	Plant Water Relations. , 2019, , 187-263.		65
169	Arsenic in Rice Soils and Potential Agronomic Mitigation Strategies to Reduce Arsenic Bioavailability: A Review. Pedosphere, 2018, 28, 363-382.	5.8	64
170	Ethylene Emission and Responsiveness to Applied Ethylene Vary among Poa Species That Inherently Differ in Leaf Elongation Rates. Plant Physiology, 2002, 129, 1382-1390.	5.4	63
171	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.	4.6	63
172	Soil pH accounts for differences in species distribution and leaf nutrient concentrations of Brazilian woodland savannah and seasonally dry forest species. Perspectives in Plant Ecology, Evolution and Systematics, 2014, 16, 64-74.	3.0	63
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