

# Hans Lambers

## List of Publications by Citations

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587 papers	29,869 citations	86 h-index	149 g-index
630 ext. papers	34,715 ext. citations	5.7 avg, IF	7.48 L-index

#	Paper	IF	Citations
587	Plant Physiological Ecology <b>1998</b> ,		1082
586	Plant Physiological Ecology <b>2008</b> ,		1036
585	Inherent Variation in Growth Rate Between Higher Plants: A Search for Physiological Causes and Ecological Consequences. <i>Advances in Ecological Research</i> , <b>1992</b> , 187-261	4.6	844
584	Plant nutrient-acquisition strategies change with soil age. <i>Trends in Ecology and Evolution</i> , <b>2008</b> , 23, 95-103	3.9	833
583	Root structure and functioning for efficient acquisition of phosphorus: Matching morphological and physiological traits. <i>Annals of Botany</i> , <b>2006</b> , 98, 693-713	4.1	800
582	Plant and microbial strategies to improve the phosphorus efficiency of agriculture. <i>Plant and Soil</i> , <b>2011</b> , 349, 121-156	4.2	532
581	Carbon and nitrogen economy of 24 wild species differing in relative growth rate. <i>Plant Physiology</i> , <b>1990</b> , 94, 621-7	6.6	488
580	Opportunities for improving phosphorus-use efficiency in crop plants. <i>New Phytologist</i> , <b>2012</b> , 195, 306-320	3.8	479
579	Plant-microbe-soil interactions in the rhizosphere: an evolutionary perspective. <i>Plant and Soil</i> , <b>2009</b> , 321, 83-115	4.2	395
578	Ecology and evolution of plant diversity in the endangered campo rupestre: a neglected conservation priority. <i>Plant and Soil</i> , <b>2016</b> , 403, 129-152	4.2	321
577	Functions of Macronutrients <b>2012</b> , 135-189		319
576	Cluster Roots: A Curiosity in Context. <i>Plant and Soil</i> , <b>2005</b> , 274, 101-125	4.2	295
575	Plant diversity and overyielding: insights from belowground facilitation of intercropping in agriculture. <i>New Phytologist</i> , <b>2014</b> , 203, 63-9	9.8	289
574	Plant mineral nutrition in ancient landscapes: high plant species diversity on infertile soils is linked to functional diversity for nutritional strategies. <i>Plant and Soil</i> , <b>2010</b> , 334, 11-31	4.2	278
573	Root and leaf attributes accounting for the performance of fast- and slow-growing grasses at different nutrient supply. <i>Plant and Soil</i> , <b>1995</b> , 170, 251-265	4.2	274
572	Strategies and agronomic interventions to improve the phosphorus-use efficiency of farming systems. <i>Plant and Soil</i> , <b>2011</b> , 349, 89-120	4.2	262
571	Cyanide-resistant respiration: A non-phosphorylating electron transport pathway acting as an energy overflow. <i>Physiologia Plantarum</i> , <b>1982</b> , 55, 478-485	4.6	260

570	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , <b>2015</b> , 206, 614-36	9.8	244
569	Leaf respiration of snow gum in the light and dark. Interactions between temperature and irradiance. <i>Plant Physiology</i> , <b>2000</b> , 122, 915-23	6.6	226
568	Effects of water stress on respiration in soybean leaves. <i>Plant Physiology</i> , <b>2005</b> , 139, 466-73	6.6	221
567	Chickpea and white lupin rhizosphere carboxylates vary with soil properties and enhance phosphorus uptake. <i>Plant and Soil</i> , <b>2003</b> , 248, 187-197	4.2	209
566	Short-term waterlogging has long-term effects on the growth and physiology of wheat. <i>New Phytologist</i> , <b>2002</b> , 153, 225-236	9.8	206
565	Plant Functional Traits: Soil and Ecosystem Services. <i>Trends in Plant Science</i> , <b>2017</b> , 22, 385-394	13.1	203
564	The Alternative Oxidase: in vivo Regulation and Function. <i>Plant Biology</i> , <b>2003</b> , 5, 2-15	3.7	199
563	Nitrogen Redistribution during Grain Growth in Wheat ( <i>Triticum aestivum</i> L.) : IV. Development of a Quantitative Model of the Translocation of Nitrogen to the Grain. <i>Plant Physiology</i> , <b>1983</b> , 71, 7-14	6.6	194
562	Foliar nutrient concentrations and resorption efficiency in plants of contrasting nutrient-acquisition strategies along a 2-million-year dune chronosequence. <i>Journal of Ecology</i> , <b>2014</b> , 102, 396-410	6	191
561	Effect of photosynthesis and carbohydrate status on respiratory rates and the involvement of the alternative pathway in leaf respiration. <i>Plant Physiology</i> , <b>1983</b> , 72, 598-603	6.6	190
560	Leaf manganese accumulation and phosphorus-acquisition efficiency. <i>Trends in Plant Science</i> , <b>2015</b> , 20, 83-90	13.1	166
559	Plant growth modelling and applications: the increasing importance of plant architecture in growth models. <i>Annals of Botany</i> , <b>2008</b> , 101, 1053-63	4.1	165
558	How a phosphorus-acquisition strategy based on carboxylate exudation powers the success and agronomic potential of lupines ( <i>Lupinus</i> , Fabaceae). <i>American Journal of Botany</i> , <b>2013</b> , 100, 263-88	2.7	163
557	Root exudates drive interspecific facilitation by enhancing nodulation and N <sub>2</sub> fixation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 6496-501	11.5	160
556	Respiratory energy requirements of roots vary with the potential growth rate of a plant species. <i>Physiologia Plantarum</i> , <b>1991</b> , 83, 469-475	4.6	160
555	Enhanced expression and activation of the alternative oxidase during infection of <i>Arabidopsis</i> with <i>Pseudomonas syringae</i> pv tomato. <i>Plant Physiology</i> , <b>1999</b> , 120, 529-38	6.6	159
554	Proteaceae from severely phosphorus-impovertished soils extensively replace phospholipids with galactolipids and sulfolipids during leaf development to achieve a high photosynthetic phosphorus-use-efficiency. <i>New Phytologist</i> , <b>2012</b> , 196, 1098-1108	9.8	157
553	Experimental assessment of nutrient limitation along a 2-million-year dune chronosequence in the south-western Australia biodiversity hotspot. <i>Journal of Ecology</i> , <b>2012</b> , 100, 631-642	6	150

552	Update on phosphorus nutrition in Proteaceae. Phosphorus nutrition of proteaceae in severely phosphorus-impoverished soils: are there lessons to be learned for future crops?. <i>Plant Physiology</i> , <b>2011</b> , 156, 1058-66	6.6	146
551	Carboxylate release of wheat, canola and 11 grain legume species as affected by phosphorus status. <i>Plant and Soil</i> , <b>2006</b> , 288, 127-139	4.2	145
550	Distribution of Carboxylates and Acid Phosphatase and Depletion of Different Phosphorus Fractions in the Rhizosphere of a Cereal and Three Grain Legumes. <i>Plant and Soil</i> , <b>2006</b> , 281, 109-120	4.2	142
549	Presymptomatic visualization of plant-virus interactions by thermography. <i>Nature Biotechnology</i> , <b>1999</b> , 17, 813-6	44.5	142
548	Phosphorus limitation, soil-borne pathogens and the coexistence of plant species in hyperdiverse forests and shrublands. <i>New Phytologist</i> , <b>2015</b> , 206, 507-21	9.8	141
547	Diversity of plant nutrient-acquisition strategies increases during long-term ecosystem development. <i>Nature Plants</i> , <b>2015</b> , 1,	11.5	139
546	Phosphorus benefits of different legume crops to subsequent wheat grown in different soils of Western Australia. <i>Plant and Soil</i> , <b>2005</b> , 271, 175-187	4.2	139
545	Measurement of the activity and capacity of the alternative pathway in intact plant tissues: Identification of problems and possible solutions. <i>Physiologia Plantarum</i> , <b>1988</b> , 72, 642-649	4.6	139
544	Does elevated atmospheric CO <sub>2</sub> concentration inhibit mitochondrial respiration in green plants?. <i>Plant, Cell and Environment</i> , <b>1999</b> , 22, 649-657	8.4	137
543	Carboxylate composition of root exudates does not relate consistently to a crop species' ability to use phosphorus from aluminium, iron or calcium phosphate sources. <i>New Phytologist</i> , <b>2007</b> , 173, 181-90	9.8	136
542	Little evidence for fire-adapted plant traits in Mediterranean climate regions. <i>Trends in Plant Science</i> , <b>2011</b> , 16, 69-76	13.1	132
541	Developmental physiology of cluster-root carboxylate synthesis and exudation in harsh hakea. Expression of phosphoenolpyruvate carboxylase and the alternative oxidase. <i>Plant Physiology</i> , <b>2004</b> , 135, 549-60	6.6	132
540	Tissue and cellular phosphorus storage during development of phosphorus toxicity in <i>Hakea prostrata</i> (Proteaceae). <i>Journal of Experimental Botany</i> , <b>2004</b> , 55, 1033-44	7	131
539	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> . <i>Physiologia Plantarum</i> , <b>1988</b> , 72, 483-491	4.6	131
538	How does pedogenesis drive plant diversity?. <i>Trends in Ecology and Evolution</i> , <b>2013</b> , 28, 331-40	10.9	130
537	The Cyanide-Resistant Oxidase: To Inhibit or Not to Inhibit, That Is the Question. <i>Plant Physiology</i> , <b>1996</b> , 110, 1-2	6.6	129
536	The effect of an elevated atmospheric CO <sub>2</sub> concentration on growth, photosynthesis and respiration of <i>Plantago major</i> . <i>Physiologia Plantarum</i> , <b>1988</b> , 73, 553-559	4.6	129
535	Respiration of crop species under CO <sub>2</sub> enrichment. <i>Physiologia Plantarum</i> , <b>1985</b> , 63, 351-356	4.6	129

534	Soil microbial biomass and the fate of phosphorus during long-term ecosystem development. <i>Plant and Soil</i> , <b>2013</b> , 367, 225-234	4.2	127
533	Phosphorus-mobilization ecosystem engineering: the roles of cluster roots and carboxylate exudation in young P-limited ecosystems. <i>Annals of Botany</i> , <b>2012</b> , 110, 329-48	4.1	125
532	Shoot P status regulates cluster-root growth and citrate exudation in <i>Lupinus albus</i> grown with a divided root system. <i>Plant, Cell and Environment</i> , <b>2003</b> , 26, 265-273	8.4	125
531	Mineral nutrition of campos rupestres plant species on contrasting nutrient-impooverished soil types. <i>New Phytologist</i> , <b>2015</b> , 205, 1183-1194	9.8	118
530	Plant adaptations to severely phosphorus-impooverished soils. <i>Current Opinion in Plant Biology</i> , <b>2015</b> , 25, 23-31	9.9	116
529	<i>Banksia</i> species (Proteaceae) from severely phosphorus-impooverished soils exhibit extreme efficiency in the use and re-mobilization of phosphorus. <i>Plant, Cell and Environment</i> , <b>2007</b> , 30, 1557-65	8.4	115
528	Cytokinin concentration in relation to mineral nutrition and benzyladenine treatment in <i>Plantago major</i> ssp. <i>pleiosperma</i> . <i>Physiologia Plantarum</i> , <b>1989</b> , 75, 511-517	4.6	114
527	Physiological and ecological significance of biomineralization in plants. <i>Trends in Plant Science</i> , <b>2014</b> , 19, 166-74	13.1	111
526	Contribution of physiological and morphological plant traits to a species' competitive ability at high and low nitrogen supply : A hypothesis for inherently fast- and slow-growing monocotyledonous species. <i>Oecologia</i> , <b>1993</b> , 94, 434-440	2.9	111
525	The physiological significance of cyanide-resistant respiration in higher plants. <i>Plant, Cell and Environment</i> , <b>2006</b> , 3, 293-302	8.4	110
524	Respiration for growth, maintenance and ion uptake. An evaluation of concepts, methods, values and their significance. <i>Physiologia Plantarum</i> , <b>1983</b> , 58, 556-563	4.6	110
523	The pattern of carboxylate exudation in <i>Banksia grandis</i> (Proteaceae) is affected by the form of phosphate added to the soil. <i>Plant and Soil</i> , <b>2002</b> , 238, 111-122	4.2	109
522	Translocation of nitrogen in a vegetative wheat plant ( <i>Triticum aestivum</i> ). <i>Physiologia Plantarum</i> , <b>1982</b> , 56, 11-17	4.6	109
521	Interaction of nitrogen and phosphorus nutrition in determining growth. <i>Plant and Soil</i> , <b>2003</b> , 248, 257-268	4.8	108
520	Carbon trading for phosphorus gain: the balance between rhizosphere carboxylates and arbuscular mycorrhizal symbiosis in plant phosphorus acquisition. <i>Plant, Cell and Environment</i> , <b>2012</b> , 35, 2170-80	8.4	106
519	Exudation of carboxylates in Australian Proteaceae: chemical composition. <i>Plant, Cell and Environment</i> , <b>2001</b> , 24, 891-904	8.4	106
518	The Causes of Inherently Slow Growth in Alpine Plants: An Analysis Based on the Underlying Carbon Economies of Alpine and Lowland <i>Poa</i> Species. <i>Functional Ecology</i> , <b>1996</b> , 10, 698	5.6	106
517	Tradeoffs among root morphology, exudation and mycorrhizal symbioses for phosphorus-acquisition strategies of 16 crop species. <i>New Phytologist</i> , <b>2019</b> , 223, 882-895	9.8	105

516	Leaf water relations during summer water deficit: differential responses in turgor maintenance and variation in leaf structure among different plant communities in south-western Australia. <i>Plant, Cell and Environment</i> , <b>2008</b> , 31, 1791-802	8.4	104
515	How belowground interactions contribute to the coexistence of mycorrhizal and non-mycorrhizal species in severely phosphorus-impooverished hyperdiverse ecosystems. <i>Plant and Soil</i> , <b>2018</b> , 424, 11-33	4.2	100
514	Cyanide-resistant respiration in roots and leaves. Measurements with intact tissues and isolated mitochondria. <i>Physiologia Plantarum</i> , <b>1983</b> , 58, 148-154	4.6	97
513	Leaf Respiration in Light and Darkness (A Comparison of Slow- and Fast-Growing Poa Species). <i>Plant Physiology</i> , <b>1997</b> , 113, 961-965	6.6	96
512	Introduction, Dryland Salinity: A Key Environmental Issue in Southern Australia. <i>Plant and Soil</i> , <b>2003</b> , 257, V-VII	4.2	94
511	Trait correlation networks: a whole-plant perspective on the recently criticized leaf economic spectrum. <i>New Phytologist</i> , <b>2014</b> , 201, 378-382	9.8	93
510	Variation in morphological and physiological parameters in herbaceous perennial legumes in response to phosphorus supply. <i>Plant and Soil</i> , <b>2010</b> , 331, 241-255	4.2	93
509	Rising CO <sub>2</sub> , secondary plant metabolism, plant-herbivore interactions and litter decomposition. <i>Plant Ecology</i> , <b>1993</b> , 104-105, 263-271		93
508	Specialized 'dauciform' roots of Cyperaceae are structurally distinct, but functionally analogous with 'cluster' roots. <i>Plant, Cell and Environment</i> , <b>2006</b> , 29, 1989-99	8.4	92
507	Hidden miners II the roles of cover crops and soil microorganisms in phosphorus cycling through agroecosystems. <i>Plant and Soil</i> , <b>2019</b> , 434, 7-45	4.2	91
506	An In Vivo Perspective of the Role(s) of the Alternative Oxidase Pathway. <i>Trends in Plant Science</i> , <b>2018</b> , 23, 206-219	13.1	90
505	Costs of acquiring phosphorus by vascular land plants: patterns and implications for plant coexistence. <i>New Phytologist</i> , <b>2018</b> , 217, 1420-1427	9.8	89
504	Intercropping alleviates the inhibitory effect of N fertilization on nodulation and symbiotic N <sub>2</sub> fixation of faba bean. <i>Plant and Soil</i> , <b>2009</b> , 323, 295-308	4.2	88
503	Low levels of ribosomal RNA partly account for the very high photosynthetic phosphorus-use efficiency of Proteaceae species. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 1276-98	8.4	87
502	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. <i>Plant Physiology</i> , <b>1998</b> , 118, 599-607	6.6	87
501	Phosphorus nutrition in Proteaceae and beyond. <i>Nature Plants</i> , <b>2015</b> , 1, 15109	11.5	85
500	Growth comparisons of a supernodulating soybean ( <i>Glycine max</i> ) mutant and its wild-type parent. <i>Physiologia Plantarum</i> , <b>1986</b> , 68, 375-382	4.6	85
499	Partitioning of evapotranspiration in a semi-arid eucalypt woodland in south-western Australia. <i>Agricultural and Forest Meteorology</i> , <b>2009</b> , 149, 25-37	5.8	83

498	Shallow-soil endemics: adaptive advantages and constraints of a specialized root-system morphology. <i>New Phytologist</i> , <b>2008</b> , 178, 371-381	9.8	83
497	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. <i>Physiologia Plantarum</i> , <b>1994</b> , 92, 585-594	4.6	83
496	Respiration in Intact Plants and Tissues: Its Regulation and Dependence on Environmental Factors, Metabolism and Invaded Organisms <b>1985</b> , 418-473		83
495	Effect of soil drying on growth, biomass allocation and leaf gas exchange of two annual grass species. <i>Plant and Soil</i> , <b>1996</b> , 185, 137-149	4.2	82
494	The respiratory energy requirements involved in nocturnal carbohydrate export from starch-storing mature source leaves and their contribution to leaf dark respiration. <i>Journal of Experimental Botany</i> , <b>1995</b> , 46, 1185-1194	7	81
493	The carboxylate-releasing phosphorus-mobilizing strategy can be proxied by foliar manganese concentration in a large set of chickpea germplasm under low phosphorus supply. <i>New Phytologist</i> , <b>2018</b> , 219, 518-529	9.8	79
492	Changes in belowground biodiversity during ecosystem development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6891-6896	11.5	78
491	Variation in seedling growth of 11 perennial legumes in response to phosphorus supply. <i>Plant and Soil</i> , <b>2010</b> , 328, 133-143	4.2	78
490	Growth and carbon economy of a fast-growing and a slow-growing grass species as dependent on nitrate supply. <i>Plant and Soil</i> , <b>1995</b> , 171, 217-227	4.2	77
489	Mechanism of arsenic uptake, translocation and plant resistance to accumulate arsenic in rice grains. <i>Agriculture, Ecosystems and Environment</i> , <b>2018</b> , 253, 23-37	5.7	77
488	SO42- Deprivation Has an Early Effect on the Content of Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase and Photosynthesis in Young Leaves of Wheat. <i>Plant Physiology</i> , <b>1997</b> , 115, 1231-1239	6.6	76
487	A root trait accounting for the extreme phosphorus sensitivity of <i>Hakea prostrata</i> (Proteaceae). <i>Plant, Cell and Environment</i> , <b>2004</b> , 27, 991-1004	8.4	75
486	Contrasting effects of N and P deprivation on the regulation of photosynthesis in tomato plants in relation to feedback limitation. <i>Journal of Experimental Botany</i> , <b>2003</b> , 54, 1957-67	7	74
485	Phosphorus uptake by grain legumes and subsequently grown wheat at different levels of residual phosphorus fertiliser. <i>Australian Journal of Agricultural Research</i> , <b>2005</b> , 56, 1041		74
484	Respiratory Patterns in Roots in Relation to Their Functioning <b>2002</b> , 521-552		74
483	Response of mitochondria to light intensity in the leaves of sun and shade species. <i>Plant, Cell and Environment</i> , <b>2005</b> , 28, 760-771	8.4	73
482	Evidence for Optimal Partitioning of Biomass and Nitrogen at a Range of Nitrogen Availabilities for a Fast- and Slow-Growing Species. <i>Functional Ecology</i> , <b>1993</b> , 7, 63	5.6	73
481	Effects of external phosphorus supply on internal phosphorus concentration and the initiation, growth and exudation of cluster roots in <i>Hakea prostrata</i> R.Br.. <i>Plant and Soil</i> , <b>2003</b> , 248, 209-219	4.2	72

480	Growth and translocation of C and N in wheat ( <i>Triticum aestivum</i> ) grown with a split root system. <i>Physiologia Plantarum</i> , <b>1982</b> , 56, 421-429	4.6	72
479	Functional significance of dauciform roots: exudation of carboxylates and acid phosphatase under phosphorus deficiency in <i>Caustis blakei</i> (Cyperaceae). <i>New Phytologist</i> , <b>2006</b> , 170, 491-500	9.8	71
478	Growth and water-use efficiency of 10 <i>Triticum aestivum</i> cultivars at different water availability in relation to allocation of biomass. <i>Plant, Cell and Environment</i> , <b>1997</b> , 20, 200-210	8.4	70
477	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?. <i>Plant, Cell and Environment</i> , <b>1998</b> , 21, 995-1005	8.4	69
476	Systemic suppression of cluster-root formation and net P-uptake rates in <i>Grevillea crithmifolia</i> at elevated P supply: a proteacean with resistance for developing symptoms of 'P toxicity'. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 413-23	7	69
475	Root-released organic anions in response to low phosphorus availability: recent progress, challenges and future perspectives. <i>Plant and Soil</i> , <b>2020</b> , 447, 135-156	4.2	69
474	The occurrence of dauciform roots amongst Western Australian reeds, rushes and sedges, and the impact of phosphorus supply on dauciform-root development in <i>Schoenus unispiculatus</i> (Cyperaceae). <i>New Phytologist</i> , <b>2005</b> , 165, 887-98	9.8	68
473	The effect of nitrate-nitrogen supply on bacteria and bacterial-feeding fauna in the rhizosphere of different grass species. <i>Oecologia</i> , <b>1992</b> , 91, 253-259	2.9	68
472	Multiple adaptive responses of Australian native perennial legumes with pasture potential to grow in phosphorus- and moisture-limited environments. <i>Annals of Botany</i> , <b>2010</b> , 105, 755-67	4.1	67
471	Growth rate, plant development and water relations of the ABA-deficient tomato mutant sitiens. <i>Physiologia Plantarum</i> , <b>1994</b> , 92, 102-108	4.6	67
470	Effect of Drought on Metabolism and Partitioning of Carbon in Two Wheat Varieties Differing in Drought-tolerance. <i>Annals of Botany</i> , <b>1985</b> , 55, 727-742	4.1	67
469	Manganese accumulation in leaves of <i>Hakea prostrata</i> (Proteaceae) and the significance of cluster roots for micronutrient uptake as dependent on phosphorus supply. <i>Physiologia Plantarum</i> , <b>2005</b> , 124, 441-450	4.6	66
468	The regulation of glycolysis and electron transport in roots. <i>Physiologia Plantarum</i> , <b>1983</b> , 58, 155-166	4.6	65
467	Root respiratory characteristics associated with plant adaptation to high soil temperature for geothermal and turf-type <i>Agrostis</i> species. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 623-31	7	64
466	Root morphology, root-hair development and rhizosheath formation on perennial grass seedlings is influenced by soil acidity. <i>Plant and Soil</i> , <b>2010</b> , 335, 457-468	4.2	63
465	Effects of nitrogen supply on the anatomy and chemical composition of leaves of four grass species belonging to the genus <i>Poa</i> , as determined by image-processing analysis and pyrolysis mass spectrometry. <i>Plant, Cell and Environment</i> , <b>1997</b> , 20, 881-897	8.4	63
464	Hydroxamate-Stimulated O <sub>2</sub> Uptake in Roots of <i>Pisum sativum</i> and <i>Zea mays</i> , Mediated by a Peroxidase : Its Consequences for Respiration Measurements. <i>Plant Physiology</i> , <b>1986</b> , 82, 236-40	6.6	63
463	Interactions between osmoregulation and the alternative respiratory pathway in <i>Plantago coronopus</i> as affected by salinity. <i>Physiologia Plantarum</i> , <b>1981</b> , 51, 63-68	4.6	63

462	Does cluster-root activity benefit nutrient uptake and growth of co-existing species?. <i>Oecologia</i> , <b>2014</b> , 174, 23-31	2.9	62
461	Using multiple trait associations to define hydraulic functional types in plant communities of south-western Australia. <i>Oecologia</i> , <b>2008</b> , 158, 385-97	2.9	62
460	Triticum aestivum shows a greater biomass response to a supply of aluminium phosphate than Lupinus albus, despite releasing fewer carboxylates into the rhizosphere. <i>New Phytologist</i> , <b>2006</b> , 169, 515-24	9.8	62
459	Phosphorus nutrition of phosphorus-sensitive Australian native plants: threats to plant communities in a global biodiversity hotspot <b>2013</b> , 1, cot010		60
458	Aerenchyma formation and radial O <sub>2</sub> loss along adventitious roots of wheat with only the apical root portion exposed to O <sub>2</sub> deficiency. <i>Plant, Cell and Environment</i> , <b>2003</b> , 26, 1713-1722	8.4	60
457	Phosphorus recycling in photorespiration maintains high photosynthetic capacity in woody species. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 1142-56	8.4	59
456	Interactions between arbuscular mycorrhizal and non-mycorrhizal plants: do non-mycorrhizal species at both extremes of nutrient availability play the same game?. <i>Plant, Cell and Environment</i> , <b>2013</b> , 36, 1911-5	8.4	59
455	Downregulation of net phosphorus-uptake capacity is inversely related to leaf phosphorus-resorption proficiency in four species from a phosphorus-impooverished environment. <i>Annals of Botany</i> , <b>2013</b> , 111, 445-54	4.1	59
454	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. <i>New Phytologist</i> , <b>2004</b> , 162, 745-753	9.8	59
453	Root Respiration and Growth in Plantago major as Affected by Vesicular-Arbuscular Mycorrhizal Infection. <i>Plant Physiology</i> , <b>1989</b> , 91, 227-32	6.6	59
452	Increasing plant species diversity and extreme species turnover accompany declining soil fertility along a long-term chronosequence in a biodiversity hotspot. <i>Journal of Ecology</i> , <b>2016</b> , 104, 792-805	6	59
451	Plant mineral nutrition in ancient landscapes: high plant species diversity on infertile soils is linked to functional diversity for nutritional strategies. <i>Plant and Soil</i> , <b>2011</b> , 348, 7-27	4.2	58
450	Effect of respiratory homeostasis on plant growth in cultivars of wheat and rice. <i>Plant, Cell and Environment</i> , <b>2004</b> , 27, 853-862	8.4	57
449	Inherent Variation in Growth Rate Between Higher Plants: A Search for Physiological Causes and Ecological Consequences. <i>Advances in Ecological Research</i> , <b>2004</b> , 283-362	4.6	57
448	Can meristematic activity determine variation in leaf size and elongation rate among four Poa species? A kinematic study. <i>Plant Physiology</i> , <b>2000</b> , 124, 845-56	6.6	57
447	Global ecological predictors of the soil priming effect. <i>Nature Communications</i> , <b>2019</b> , 10, 3481	17.4	56
446	Regulation of Respiration in the Leaves and Roots of Two Lolium perenne Populations with Contrasting Mature Leaf Respiration Rates and Crop Yields. <i>Plant Physiology</i> , <b>1985</b> , 78, 678-83	6.6	56
445	Growth and dry-mass partitioning in tomato as affected by phosphorus nutrition and light. <i>Plant, Cell and Environment</i> , <b>2001</b> , 24, 1309-1317	8.4	55

444	The contribution of roots and shoots to whole plant nitrate reduction in fast- and slow-growing grass species. <i>Journal of Experimental Botany</i> , <b>2002</b> , 53, 1635-42	7	55
443	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. <i>Journal of Ecology</i> , <b>2003</b> , 91, 58-67	6	54
442	Kinetin application to roots and its effect on uptake, translocation and distribution of nitrogen in wheat ( <i>Triticum aestivum</i> ) grown with a split root system. <i>Physiologia Plantarum</i> , <b>1982</b> , 56, 430-435	4.6	54
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440	Regulation of alternative oxidase activity in six wild monocotyledonous species. An in vivo study at the whole root level. <i>Plant Physiology</i> , <b>2001</b> , 126, 376-87	6.6	52
439	A critique of the use of inhibitors to estimate partitioning of electrons between mitochondrial respiratory pathways in plants. <i>Physiologia Plantarum</i> , <b>1995</b> , 95, 523-532	4.6	52
438	The Effect of Light Intensity and Relative Humidity on Growth Rate and Root Respiration of <i>Plantago lanceolata</i> and <i>Zea mays</i> . <i>Journal of Experimental Botany</i> , <b>1980</b> , 31, 1621-1630	7	52
437	Surplus Carbon Drives Allocation and Plant-Soil Interactions. <i>Trends in Ecology and Evolution</i> , <b>2020</b> , 35, 1110-1118	10.9	52
436	Plant Responses to Limited Moisture and Phosphorus Availability. <i>Advances in Agronomy</i> , <b>2014</b> , 124, 143-200	7.9	51
435	Enhanced soil and leaf nutrient status of a Western Australian <i>Banksia</i> woodland community invaded by <i>Ehrharta calycina</i> and <i>Pelargonium capitatum</i> . <i>Plant and Soil</i> , <b>2006</b> , 284, 253-264	4.2	51
434	Variation in relative growth rate of 20 <i>Aegilops</i> species (Poaceae) in the field: The importance of net assimilation rate or specific leaf area depends on the time scale. <i>Plant and Soil</i> , <b>2005</b> , 272, 11-27	4.2	51
433	Changes in physiological and morphological traits of roots and shoots of wheat in response to different depths of waterlogging. <i>Functional Plant Biology</i> , <b>2001</b> , 28, 1121	2.7	51
432	Salicylic acid enhances the activity of the alternative pathway of respiration in tobacco leaves and induces thermogenicity. <i>Planta</i> , <b>1995</b> , 196, 412-419	4.7	51
431	Analysis of specific leaf area and photosynthesis of two inbred lines of <i>Plantago major</i> differing in relative growth rate. <i>New Phytologist</i> , <b>1989</b> , 113, 283-290	9.8	51
430	Efficiency of Root Respiration in Relation to Growth Rate, Morphology and Soil Composition. <i>Physiologia Plantarum</i> , <b>1979</b> , 46, 194-202	4.6	51
429	Morphologies and elemental compositions of calcium crystals in phyllodes and branchlets of <i>Acacia roborum</i> (Leguminosae: Mimosoideae). <i>Annals of Botany</i> , <b>2012</b> , 109, 887-96	4.1	50
428	Direct measurement of roots in soil for single and mixed species using a quantitative DNA-based method. <i>Plant and Soil</i> , <b>2011</b> , 348, 123-137	4.2	50
427	Genetic and physiological architecture of early vigor in <i>Aegilops tauschii</i> , the D-genome donor of hexaploid wheat. A quantitative trait loci analysis. <i>Plant Physiology</i> , <b>2005</b> , 139, 1078-94	6.6	50

426	Energy metabolism of <i>Plantago lanceolata</i> as dependent on the supply of mineral nutrients. <i>Physiologia Plantarum</i> , <b>1981</b> , 51, 85-92	4.6	50
425	Growth and the efficiency of root respiration of <i>Pisum sativum</i> as dependent on the source of nitrogen. <i>Physiologia Plantarum</i> , <b>1983</b> , 58, 533-543	4.6	50
424	Differentiating phosphate-dependent and phosphate-independent systemic phosphate-starvation response networks in <i>Arabidopsis thaliana</i> through the application of phosphite. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 2501-14	7	49
423	Proteaceae from phosphorus-impooverished habitats preferentially allocate phosphorus to photosynthetic cells: An adaptation improving phosphorus-use efficiency. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 605-619	8.4	49
422	Moderating mycorrhizas: arbuscular mycorrhizas modify rhizosphere chemistry and maintain plant phosphorus status within narrow boundaries. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 911-21	8.4	49
421	Complementary plant nutrient-acquisition strategies promote growth of neighbour species. <i>Functional Ecology</i> , <b>2014</b> , 28, 819-828	5.6	48
420	Assimilation and allocation of carbon and nitrogen of thermal and nonthermal <i>Agrostis</i> species in response to high soil temperature. <i>New Phytologist</i> , <b>2006</b> , 170, 479-90	9.8	47
419	The alternative oxidase in roots of <i>poa annua</i> after transfer from high-light to low-light conditions. <i>Plant Journal</i> , <b>2000</b> , 23, 623-32	6.9	47
418	Relatively large nitrate efflux can account for the high specific respiratory costs for nitrate transport in slow-growing grass species. <i>Plant and Soil</i> , <b>1999</b> , 215, 123-134	4.2	47
417	Advances and Perspectives to Improve the Phosphorus Availability in Cropping Systems for Agroecological Phosphorus Management. <i>Advances in Agronomy</i> , <b>2015</b> , 134, 51-79	7.7	46
416	Contrasting responses of root morphology and root-exuded organic acids to low phosphorus availability in three important food crops with divergent root traits. <i>AoB PLANTS</i> , <b>2015</b> , 7,	2.9	46
415	Ethylene emission and responsiveness to applied ethylene vary among <i>Poa</i> species that inherently differ in leaf elongation rates. <i>Plant Physiology</i> , <b>2002</b> , 129, 1382-90	6.6	46
414	Role of sugars and organic acids in regulating the concentration and activity of the alternative oxidase in <i>Poa annua</i> roots. <i>Journal of Experimental Botany</i> , <b>2002</b> , 53, 1081-8	7	46
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410	Efficiency and regulation of root respiration in a legume: Effects of the N source. <i>Physiologia Plantarum</i> , <b>1980</b> , 50, 319-325	4.6	45
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407	Interactive effects of nitrogen and irradiance on growth and partitioning of dry mass and nitrogen in young tomato plants. <i>Functional Plant Biology</i> , <b>2002</b> , 29, 1319-1328	2.7	44
406	Organ-specific phosphorus-allocation patterns and transcript profiles linked to phosphorus efficiency in two contrasting wheat genotypes. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 943-60	8.4	43
405	Variation in nutrient-acquisition patterns by mycorrhizal fungi of rare and common orchids explains diversification in a global biodiversity hotspot. <i>Annals of Botany</i> , <b>2013</b> , 111, 1233-41	4.1	43
404	Cytochrome and alternative pathway activity in roots of thermal and non-thermal <i>Agrostis</i> species in response to high soil temperature. <i>Physiologia Plantarum</i> , <b>2007</b> , 129, 163-174	4.6	43
403	Soil pH accounts for differences in species distribution and leaf nutrient concentrations of Brazilian woodland savannah and seasonally dry forest species. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , <b>2014</b> , 16, 64-74	3	42
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401	Foliar phosphorus fractions reveal how tropical plants maintain photosynthetic rates despite low soil phosphorus availability. <i>Functional Ecology</i> , <b>2019</b> , 33, 503-513	5.6	42
400	Greater root phosphatase activity in nitrogen-fixing rhizobial but not actinorhizal plants with declining phosphorus availability. <i>Journal of Ecology</i> , <b>2017</b> , 105, 1246-1255	6	41
399	Root morphological traits that determine phosphorus-acquisition efficiency and critical external phosphorus requirement in pasture species. <i>Functional Plant Biology</i> , <b>2016</b> , 43, 815-826	2.7	41
398	Relative growth rate and biomass allocation in 20 <i>Aegilops</i> (Poaceae) species. <i>New Phytologist</i> , <b>1998</b> , 140, 425-437	9.8	41
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395	Effects of phosphorus supply on growth, phosphate concentration and cluster-root formation in three <i>Lupinus</i> species. <i>Annals of Botany</i> , <b>2010</b> , 105, 365-74	4.1	40
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390	Ontogenetic shifts in plant ecological strategies. <i>Functional Ecology</i> , <b>2018</b> , 32, 2730-2741	5.6	40
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388	Characterisation of arbuscular mycorrhizal fungi colonisation in cluster roots of shape <i>Hakea verrucosa</i> F. Muell (Proteaceae), and its effect on growth and nutrient acquisition in ultramafic soil. <i>Plant and Soil</i> , <b>2005</b> , 269, 357-367	4.2	39
387	The Roots of Carnivorous Plants. <i>Plant and Soil</i> , <b>2005</b> , 274, 127-140	4.2	39
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380	Native soilborne pathogens equalize differences in competitive ability between plants of contrasting nutrient-acquisition strategies. <i>Journal of Ecology</i> , <b>2017</b> , 105, 549-557	6	37
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333	A physiological analysis of genotypic variation in relative growth rate: Can growth rate confer ecological advantage? <b>1987</b> , 237-252		28
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313	The effect of pH on morphological and physiological root traits of <i>Lupinus angustifolius</i> treated with struvite as a recycled phosphorus source. <i>Plant and Soil</i> , <b>2019</b> , 434, 65-78	4.2	24
312	Response of phosphorus dynamics to sewage sludge application in an agroecosystem in northern France. <i>Applied Soil Ecology</i> , <b>2019</b> , 137, 178-186	5	24
311	Drought resistance and recovery in mature <i>Bituminaria bituminosa</i> var. <i>albomarginata</i> . <i>Annals of Applied Biology</i> , <b>2015</b> , 166, 154-169	2.6	24
310	Peppermint trees shift their phosphorus-acquisition strategy along a strong gradient of plant-available phosphorus by increasing their transpiration at very low phosphorus availability. <i>Oecologia</i> , <b>2017</b> , 185, 387-400	2.9	24
309	Precipitation of calcium, magnesium, strontium and barium in tissues of four <i>Acacia</i> species (Leguminosae: Mimosoideae). <i>PLoS ONE</i> , <b>2012</b> , 7, e41563	3.7	24
308	Disruption of <i>ptLDP1</i> or <i>ptLDP2</i> , genes that encode isoforms of the plastidial lipoamide dehydrogenase, confers arsenate hypersensitivity in <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2010</b> , 153, 1385-97	6.6	24
307	Change in uptake, transport and accumulation of ions in <i>Nerium oleander</i> (rosebay) as affected by different nitrogen sources and salinity. <i>Annals of Botany</i> , <b>2008</b> , 102, 735-46	4.1	24
306	From individual leaf elongation to whole shoot leaf area expansion: a comparison of three <i>Aegilops</i> and two <i>Triticum</i> species. <i>Annals of Botany</i> , <b>2004</b> , 94, 99-108	4.1	24
305	Growth responses to waterlogging and drainage of woody <i>Hakea</i> (Proteaceae) seedlings, originating from contrasting habitats in south-western Australia. <i>Plant and Soil</i> , <b>2003</b> , 253, 57-70	4.2	24
304	Respiration of the Roots of Flood-Tolerant and Flood-Intolerant Senecio Species: Affinity for Oxygen and Resistance to Cyanide. <i>Physiologia Plantarum</i> , <b>1978</b> , 42, 163-166	4.6	24
303	Shifts in symbiotic associations in plants capable of forming multiple root symbioses across a long-term soil chronosequence. <i>Ecology and Evolution</i> , <b>2016</b> , 6, 2368-77	2.8	24
302	Respiratory costs and rate of protein turnover in the roots of a fast-growing ( <i>Dactylis glomerata</i> L.) and a slow-growing ( <i>Festuca ovina</i> L.) grass species. <i>Journal of Experimental Botany</i> , <b>2000</b> , 51, 1089-97	7	24
301	Specialized roots of Velloziaceae weather quartzite rock while mobilizing phosphorus using carboxylates. <i>Functional Ecology</i> , <b>2019</b> , 33, 762-773	5.6	23

300	Phosphorus-acquisition strategies of canola, wheat and barley in soil amended with sewage sludges. <i>Scientific Reports</i> , <b>2019</b> , 9, 14878	4.9	23
299	Respiratory costs and rate of protein turnover in the roots of a fast-growing ( <i>Dactylis glomerata</i> L.) and a slow-growing ( <i>Festuca ovina</i> L.) grass species. <i>Journal of Experimental Botany</i> , <b>2000</b> , 51, 1089-1097	7	23
298	Effects of global environmental change on carbon partitioning in vegetative plants of <i>Triticum aestivum</i> and closely related <i>Aegilops</i> species. <i>Global Change Biology</i> , <b>1995</b> , 1, 397-406	11.4	23
297	Response to phosphorus supply of tropical tree seedlings: a comparison between a pioneer species <i>Tapirira obtusa</i> and a climax species <i>Lecythis corrugata</i> . <i>New Phytologist</i> , <b>1996</b> , 132, 97-102	9.8	23
296	Relative growth rate, biomass allocation pattern and water use efficiency of three wheat cultivars during early ontogeny as dependent on water availability. <i>Physiologia Plantarum</i> , <b>1996</b> , 98, 493-504	4.6	23
295	Effects of N-supply on the rates of photosynthesis and shoot and root respiration of inherently fast- and slow-growing monocotyledonous species. <i>Physiologia Plantarum</i> , <b>1993</b> , 89, 563-569	4.6	23
294	Partitioning of nitrogen and biomass at a range of N-addition rates and their consequences for growth and gas exchange in two perennial grasses from inland dunes. <i>Physiologia Plantarum</i> , <b>1992</b> , 86, 152-160	4.6	23
293	Leaf manganese concentrations as a tool to assess belowground plant functioning in phosphorus-impooverished environments. <i>Plant and Soil</i> , <b>2021</b> , 461, 43-61	4.2	23
292	Arbuscular mycorrhizal fungus colonization in <i>Nicotiana tabacum</i> decreases the rate of both carboxylate exudation and root respiration and increases plant growth under phosphorus limitation. <i>Plant and Soil</i> , <b>2017</b> , 416, 97-106	4.2	22
291	Differences in nutrient foraging among <i>Trifolium subterraneum</i> cultivars deliver improved P-acquisition efficiency. <i>Plant and Soil</i> , <b>2018</b> , 424, 539-554	4.2	22
290	Biotic and abiotic plant-soil feedback depends on nitrogen-acquisition strategy and shifts during long-term ecosystem development. <i>Journal of Ecology</i> , <b>2019</b> , 107, 142-153	6	22
289	The metabolic acclimation of <i>Arabidopsis thaliana</i> to arsenate is sensitized by the loss of mitochondrial LIPOAMIDE DEHYDROGENASE2, a key enzyme in oxidative metabolism. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 684-95	8.4	22
288	Seasonal water relations of <i>Lyginia barbata</i> (Southern rush) in relation to root xylem development and summer dormancy of root apices. <i>New Phytologist</i> , <b>2010</b> , 185, 1025-37	9.8	22
287	Water relations and mineral nutrition of <i>Triodia</i> grasses on desert dunes and interdunes. <i>Australian Journal of Botany</i> , <b>2008</b> , 56, 408	1.2	22
286	Kinetics of nitrate uptake by different species from nutrient-rich and nutrient-poor habitats as affected by the nutrient supply. <i>Physiologia Plantarum</i> , <b>1982</b> , 55, 103-110	4.6	22
285	Translocation and utilization of carbon in wheat ( <i>Triticum aestivum</i> ). <i>Physiologia Plantarum</i> , <b>1982</b> , 56, 18-22	4.6	22
284	Respiratory energy requirements of roots vary with the potential growth rate of a plant species. <i>Physiologia Plantarum</i> , <b>1991</b> , 83, 469-475	4.6	22
283	Phosphorus: Back to the Roots <b>2015</b> , 1-22		21

282	High variation in the percentage of root length colonised by arbuscular mycorrhizal fungi among 139 lines representing the species subterranean clover ( <i>Trifolium subterraneum</i> ). <i>Applied Soil Ecology</i> , <b>2016</b> , 98, 221-232	5	21
281	Do arbuscular mycorrhizas or heterotrophic soil microbes contribute toward plant acquisition of a pulse of mineral phosphate?. <i>Plant and Soil</i> , <b>2013</b> , 373, 699-710	4.2	21
280	Dinitrogen-fixing Acacia species from phosphorus-impooverished soils resorb leaf phosphorus efficiently. <i>Plant, Cell and Environment</i> , <b>2011</b> , 34, 2060-70	8.4	21
279	Summer dormancy and winter growth: root survival strategy in a perennial monocotyledon. <i>New Phytologist</i> , <b>2009</b> , 183, 1085-1096	9.8	21
278	Short-term and long-term root respiratory acclimation to elevated temperatures associated with root thermotolerance for two <i>Agrostis</i> grass species. <i>Journal of Experimental Botany</i> , <b>2008</b> , 59, 3803-9	7	21
277	Effects of N-supply on the rates of photosynthesis and shoot and root respiration of inherently fast- and slow-growing monocotyledonous species. <i>Physiologia Plantarum</i> , <b>1993</b> , 89, 563-569	4.6	21
276	Phosphorus addition decreases microbial residual contribution to soil organic carbon pool in a tropical coastal forest. <i>Global Change Biology</i> , <b>2021</b> , 27, 454-466	11.4	21
275	Using research networks to create the comprehensive datasets needed to assess nutrient availability as a key determinant of terrestrial carbon cycling. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 125006	6.2	21
274	The carboxylate composition of rhizosheath and root exudates from twelve species of grassland and crop legumes with special reference to the occurrence of citramalate. <i>Plant and Soil</i> , <b>2018</b> , 424, 389-403	4.3	20
273	Incorporation of dolomite reduces iron toxicity, enhances growth and yield, and improves phosphorus and potassium nutrition in lowland rice ( <i>Oryza sativa</i> L). <i>Plant and Soil</i> , <b>2017</b> , 410, 299-312	4.2	20
272	Evidence for a significant contribution by peroxidase-mediated O <sub>2</sub> uptake to root respiration of <i>Brachypodium pinnatum</i> . <i>Planta</i> , <b>1991</b> , 183, 347-52	4.7	20
271	Growth, photosynthesis and respiration in <i>Plantago coronopus</i> as affected by salinity. <i>Physiologia Plantarum</i> , <b>1981</b> , 51, 265-268	4.6	20
270	High abundance of non-mycorrhizal plant species in severely phosphorus-impooverished Brazilian campos rupestres. <i>Plant and Soil</i> , <b>2018</b> , 424, 255-271	4.2	20
269	Trait convergence in photosynthetic nutrient-use efficiency along a 2-million year dune chronosequence in a global biodiversity hotspot. <i>Journal of Ecology</i> , <b>2019</b> , 107, 2006-2023	6	19
268	A dynamic whole-plant model of integrated metabolism of nitrogen and carbon. 2. Balanced growth driven by C fluxes and regulated by signals from C and N substrate. <i>Plant and Soil</i> , <b>2000</b> , 220, 71-87	4.2	19
267	Reduction, assimilation and transport of N in normal and gibberellin-deficient tomato plants. <i>Physiologia Plantarum</i> , <b>1995</b> , 95, 347-354	4.6	19
266	Regulation of K <sup>+</sup> and NO <sub>3</sub> <sup>-</sup> fluxes in roots of sunflower ( <i>Helianthus annuus</i> ) after changes in light intensity. <i>Physiologia Plantarum</i> , <b>1995</b> , 93, 279-285	4.6	19
265	The influence of soil age on ecosystem structure and function across biomes. <i>Nature Communications</i> , <b>2020</b> , 11, 4721	17.4	19

264	Calcium modulates leaf cell-specific phosphorus allocation in Proteaceae from south-western Australia. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 3995-4009	7	18
263	Is nitrogen transfer among plants enhanced by contrasting nutrient-acquisition strategies?. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 50-60	8.4	18
262	Contrasting physiological responses of two co-occurring eucalypts to seasonal drought at restored bauxite mine sites. <i>Tree Physiology</i> , <b>2011</b> , 31, 1052-66	4.2	18
261	Epidermal cell division and cell elongation in two Aegilops species with contrasting leaf elongation rates. <i>Functional Plant Biology</i> , <b>2003</b> , 30, 425-432	2.7	18
260	Influx, efflux and net uptake of nitrate in Quercus suber seedlings. <i>Plant and Soil</i> , <b>2000</b> , 221, 25-32	4.2	18
259	Ecophysiology of Campos Rupestres Plants <b>2016</b> , 227-272		18
258	Phosphorus-fertilisation has differential effects on leaf growth and photosynthetic capacity of Arachis hypogaea L.. <i>Plant and Soil</i> , <b>2020</b> , 447, 99-116	4.2	18
257	Soil-plant-atmosphere interactions: structure, function, and predictive scaling for climate change mitigation. <i>Plant and Soil</i> , <b>2021</b> , 461, 5-27	4.2	18
256	Understanding the long-term impact of prescribed burning in mediterranean-climate biodiversity hotspots, with a focus on south-western Australia. <i>International Journal of Wildland Fire</i> , <b>2018</b> , 27, 643	3.2	18
255	Tight control of nitrate acquisition in a plant species that evolved in an extremely phosphorus-impooverished environment. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 2754-2761	8.4	17
254	Response to Keeley et al.: Fire as an evolutionary pressure shaping plant traits. <i>Trends in Plant Science</i> , <b>2011</b> , 16, 405	13.1	17
253	Regulation of K <sup>+</sup> and NO <sub>3</sub> <sup>-</sup> fluxes in roots of sunflower (Helianthus annuus) after changes in light intensity. <i>Physiologia Plantarum</i> , <b>1995</b> , 93, 279-285	4.6	17
252	Respiration in mature leaves of Lolium perenne as affected by nutrient supply, cutting and competition. <i>Physiologia Plantarum</i> , <b>1986</b> , 66, 53-57	4.6	17
251	Modelling of the responses to nitrogen availability of two Plantago species grown at a range of exponential nutrient addition rates. <i>Plant, Cell and Environment</i> , <b>1988</b> , 11, 827-834	8.4	17
250	Linking shifts in species composition induced by grazing with root traits for phosphorus acquisition in a typical steppe in Inner Mongolia. <i>Science of the Total Environment</i> , <b>2020</b> , 712, 136495	10.2	17
249	Responses of foliar phosphorus fractions to soil age are diverse along a 2Myr dune chronosequence. <i>New Phytologist</i> , <b>2019</b> , 223, 1621-1633	9.8	16
248	Cluster roots of Embothrium coccineum (Proteaceae) affect enzyme activities and phosphorus lability in rhizosphere soil. <i>Plant and Soil</i> , <b>2015</b> , 395, 189-200	4.2	16
247	Field benchmarking of the critical external phosphorus requirements of pasture legumes for southern Australia. <i>Crop and Pasture Science</i> , <b>2019</b> , 70, 1080	2.2	16

246	A long-term experimental test of the dynamic equilibrium model of species diversity. <i>Oecologia</i> , <b>2013</b> , 171, 439-48	2.9	16
245	Development and persistence of sandsheaths of <i>Lyginia barbata</i> (Restionaceae): relation to root structural development and longevity. <i>Annals of Botany</i> , <b>2011</b> , 108, 1307-22	4.1	16
244	The Association of Biomass Allocation With Growth and Water Use Efficiency of Two Triticum aestivum Cultivars. <i>Functional Plant Biology</i> , <b>1996</b> , 23, 751	2.7	16
243	The interactive effect of irradiance and source of nitrogen on growth and root respiration of <i>Calamagrostis epigejos</i> . <i>New Phytologist</i> , <b>1996</b> , 134, 407-412	9.8	16
242	Respiration of Senecio Shoots: Inhibition during Photosynthesis, Resistance to Cyanide and Relation to Growth and Maintenance. <i>Physiologia Plantarum</i> , <b>1979</b> , 45, 351-356	4.6	16
241	Plant phosphorus-acquisition and -use strategies affect soil carbon cycling. <i>Trends in Ecology and Evolution</i> , <b>2021</b> , 36, 899-906	10.9	16
240	Phosphorus concentration coordinates a respiratory bypass, synthesis and exudation of citrate, and the expression of high-affinity phosphorus transporters in <i>Solanum lycopersicum</i> . <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 865-875	8.4	15
239	Intrinsic capacity for nutrient foraging predicts critical external phosphorus requirement of 12 pasture legumes. <i>Crop and Pasture Science</i> , <b>2018</b> , 69, 174	2.2	15
238	Inoculation with <i>Azospirillum brasilense</i> (Ab-V4, Ab-V5) increases Zea mays root carboxylate-exudation rates, dependent on soil phosphorus supply. <i>Plant and Soil</i> , <b>2017</b> , 410, 499-507	4.2	15
237	Establishment, survival, and herbage production of novel, summer-active perennial pasture legumes in the low-rainfall cropping zone of Western Australia as affected by plant density and cutting frequency. <i>Crop and Pasture Science</i> , <b>2013</b> , 64, 71	2.2	15
236	Preferential outcrossing in <i>Banksia ilicifolia</i> (Proteaceae). <i>Australian Journal of Botany</i> , <b>2005</b> , 53, 163	1.2	15
235	Increased ecological amplitude through heterosis following wide outcrossing in <i>Banksia ilicifolia</i> R.Br. (Proteaceae). <i>Journal of Evolutionary Biology</i> , <b>2006</b> , 19, 1327-38	2.3	15
234	Physiological changes in white lupin associated with variation in root-zone CO <sub>2</sub> concentration and cluster-root P mobilization. <i>Plant, Cell and Environment</i> , <b>2005</b> , 28, 1203-1217	8.4	15
233	The effect of handling on photosynthesis, transpiration, respiration, and nitrogen and carbohydrate content of populations of <i>Lolium perenne</i> . <i>Physiologia Plantarum</i> , <b>1994</b> , 91, 631-638	4.6	15
232	Cyanide-Resistant Root Respiration and Tap Root Formation in Two Subspecies of <i>Hypochaeris radicata</i> . <i>Physiologia Plantarum</i> , <b>1979</b> , 45, 235-239	4.6	15
231	Drought resistance at the seedling stage in the promising fodder plant teder (Bituminaria bituminosa var. albomarginata). <i>Crop and Pasture Science</i> , <b>2012</b> , 63, 1034	2.2	15
230	Role of Root Clusters in Phosphorus Acquisition and Increasing Biological Diversity in Agriculture	237-250	15
229	The Role of Intracellular and Secreted Purple Acid Phosphatases in Plant Phosphorus Scavenging and Recycling	2015, 265-287	14

228	Below-ground-mediated and phase-dependent processes drive nitrogen-evoked community changes in grasslands. <i>Journal of Ecology</i> , <b>2020</b> , 108, 1874-1887	6	14
227	Phosphorus- and nitrogen-acquisition strategies in two <i>Bossiaea</i> species (Fabaceae) along retrogressive soil chronosequences in south-western Australia. <i>Physiologia Plantarum</i> , <b>2018</b> , 163, 323	4.6	14
226	Adaptive shoot and root responses collectively enhance growth at optimum temperature and limited phosphorus supply of three herbaceous legume species. <i>Annals of Botany</i> , <b>2012</b> , 110, 959-68	4.1	14
225	Control of Leaf Growth and its Role in Determining Variation in Plant Growth Rate from an Ecological Perspective. <i>Plant Biology</i> , <b>1999</b> , 1, 13-18	3.7	14
224	Respiratory Properties of Developing Bean and Pea Leaves. <i>Functional Plant Biology</i> , <b>1983</b> , 10, 237	2.7	14
223	Phosphorus Acquisition and Utilization in Plants.. <i>Annual Review of Plant Biology</i> , <b>2021</b> ,	30.7	14
222	Impact of roots, microorganisms and microfauna on the fate of soil phosphorus in the rhizosphere <b>2015</b> , 375-407		13
221	Release of tartrate as a major carboxylate by alfalfa ( <i>Medicago sativa</i> L.) under phosphorus deficiency and the effect of soil nitrogen supply. <i>Plant and Soil</i> , <b>2020</b> , 449, 169-178	4.2	13
220	Silicon Dynamics During 2 Million Years of Soil Development in a Coastal Dune Chronosequence Under a Mediterranean Climate. <i>Ecosystems</i> , <b>2020</b> , 23, 1614-1630	3.9	13
219	Vellozioid roots allow for habitat specialization among rock- and soil-dwelling Velloziaceae in campos rupestres. <i>Functional Ecology</i> , <b>2020</b> , 34, 442-457	5.6	13
218	Changes in soil phosphorus fractions following sole cropped and intercropped maize and faba bean grown on calcareous soil. <i>Plant and Soil</i> , <b>2020</b> , 448, 587-601	4.2	13
217	Supplementary Calcium Restores Peanut () Growth and Photosynthetic Capacity Under Low Nocturnal Temperature. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1637	6.2	13
216	Contrasting patterns in biomass allocation, root morphology and mycorrhizal symbiosis for phosphorus acquisition among 20 chickpea genotypes with different amounts of rhizosheath carboxylates. <i>Functional Ecology</i> , <b>2020</b> , 34, 1311-1324	5.6	13
215	Cluster-root formation and carboxylate release in three <i>Lupinus</i> species as dependent on phosphorus supply, internal phosphorus concentration and relative growth rate. <i>Annals of Botany</i> , <b>2013</b> , 112, 1449-59	4.1	13
214	Changes in water relations for <i>Acacia ancistrocarpa</i> on natural and mine-rehabilitation sites in response to an experimental wetting pulse in the Great Sandy Desert. <i>Plant and Soil</i> , <b>2010</b> , 326, 75-96	4.2	13
213	Effects of applied gibberellic acid and paclobutrazol on leaf expansion and biomass allocation in two <i>Aegilops</i> species with contrasting leaf elongation rates. <i>Physiologia Plantarum</i> , <b>2004</b> , 122, 143-151	4.6	13
212	Plant Construction Cost in the Boreal Species Differing in Their Ecological Strategies. <i>Russian Journal of Plant Physiology</i> , <b>2001</b> , 48, 67-73	1.6	13
211	A shift from phenol to silica-based leaf defences during long-term soil and ecosystem development. <i>Ecology Letters</i> , <b>2021</b> , 24, 984-995	10	13

210	Tradeoffs among phosphorus-acquisition root traits of crop species for agroecological intensification. <i>Plant and Soil</i> , <b>2021</b> , 461, 137-150	4.2	13
209	Phosphorus: Back to the Roots <b>2018</b> , 3-22		13
208	Belowground facilitation and trait matching: two or three to tango?. <i>Trends in Plant Science</i> , <b>2021</b> , 26, 1227-1235	13.1	13
207	Growth and Allocation <b>1998</b> , 299-351		13
206	Cluster-root formation and carboxylate release in <i>Euplassa cantareirae</i> (Proteaceae) from a neotropical biodiversity hotspot. <i>Plant and Soil</i> , <b>2016</b> , 403, 267-275	4.2	12
205	Root morphology acclimation to phosphorus supply by six cultivars of <i>Trifolium subterraneum</i> L. <i>Plant and Soil</i> , <b>2017</b> , 412, 21-34	4.2	12
204	Mechanisms for tolerance of very high tissue phosphorus concentrations in <i>Ptilotus polystachyus</i> . <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 790-9	8.4	12
203	Sensitivity of different <i>Lupinus</i> species to calcium under a low phosphorus supply. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 1512-1523	8.4	12
202	Nutrient limitation along the Jurien Bay dune chronosequence: response to Uren & Parsons (). <i>Journal of Ecology</i> , <b>2013</b> , 101, 1088-1092	6	12
201	<i>Viminaria juncea</i> does not vary its shoot phosphorus concentration and only marginally decreases its mycorrhizal colonization and cluster-root dry weight under a wide range of phosphorus supplies. <i>Annals of Botany</i> , <b>2013</b> , 111, 801-9	4.1	12
200	Soil phosphorus supply affects nodulation and N:P ratio in 11 perennial legume seedlings. <i>Crop and Pasture Science</i> , <b>2011</b> , 62, 992	2.2	12
199	An enzymatic fluorescent assay for the quantification of phosphite in a microtiter plate format. <i>Analytical Biochemistry</i> , <b>2011</b> , 412, 74-8	3.1	12
198	Growth and Allocation <b>2008</b> , 321-374		12
197	Photosynthesis and Respiration of Two Inbred Lines of <i>Plantago Major</i> L. Differing in Relative Growth Rate <b>1986</b> , 251-255		12
196	<i>Xylomelum occidentale</i> (Proteaceae) accesses relatively mobile soil organic phosphorus without releasing carboxylates. <i>Journal of Ecology</i> , <b>2021</b> , 109, 246-259	6	12
195	Strong phosphorus (P)-zinc (Zn) interactions in a calcareous soil-alfalfa system suggest that rational P fertilization should be considered for Zn biofortification on Zn-deficient soils and phytoremediation of Zn-contaminated soils. <i>Plant and Soil</i> , <b>2021</b> , 461, 119-134	4.2	12
194	OCBIL theory examined: reassessing evolution, ecology and conservation in the world's ancient, climatically buffered and infertile landscapes. <i>Biological Journal of the Linnean Society</i> , <b>2021</b> , 133, 266-296	1.9	12
193	Membrane remodelling in phosphorus-deficient plants <b>2015</b> , 237-263		11

192	Root morphology and its contribution to a large root system for phosphorus uptake by Rytidosperma species (wallaby grass). <i>Plant and Soil</i> , <b>2017</b> , 412, 7-19	4.2	11
191	Field application of a DNA-based assay to the measurement of roots of perennial grasses. <i>Plant and Soil</i> , <b>2012</b> , 358, 183-199	4.2	11
190	Leaf and root respiration of Lolium perenne populations selected for contrasting leaf respiration rates are affected by intra- and interpopulation interactions <b>2001</b> , 231, 267-274		11
189	Relative growth rate, biomass allocation pattern and water use efficiency of three wheat cultivars during early ontogeny as dependent on water availability. <i>Physiologia Plantarum</i> , <b>1996</b> , 98, 493-504	4.6	11
188	Effects of leaf development and phosphorus supply on the photosynthetic characteristics of perennial legume species with pasture potential: modelling photosynthesis with leaf development. <i>Functional Plant Biology</i> , <b>2010</b> , 37, 713	2.7	11
187	Revisiting mycorrhizal dogmas: Are mycorrhizas really functioning as they are widely believed to do?. <i>Soil Ecology Letters</i> , <b>2021</b> , 3, 73-82	2.7	11
186	Reduced root mycorrhizal colonization as affected by phosphorus fertilization is responsible for high cadmium accumulation in wheat. <i>Plant and Soil</i> , 1	4.2	11
185	Phosphate Transporters <b>2015</b> , 125-158		10
184	Seasonal and diurnal variation in the stomatal conductance and paraheliotropism of tederia (Bituminaria bituminosa var. albomarginata) in the field. <i>Functional Plant Biology</i> , <b>2013</b> , 40, 719-729	2.7	10
183	Tight control of sulfur assimilation: an adaptive mechanism for a plant from a severely phosphorus-impooverished habitat. <i>New Phytologist</i> , <b>2017</b> , 215, 1068-1079	9.8	10
182	A comparison of the vegetative growth of male-sterile and hermaphroditic lines of Plantago lanceolata in relation to N supply. <i>New Phytologist</i> , <b>1997</b> , 135, 429-437	9.8	10
181	Life Cycles: Environmental Influences and Adaptations <b>2008</b> , 375-402		10
180	Yield advantage of a slow-over a fast-respiring population of Lolium perenne cv. S23 depends on plant density. <i>New Phytologist</i> , <b>2006</b> , 123, 39-44	9.8	10
179	The influence of a reduced gibberellin biosynthesis and nitrogen supply on the morphology and anatomy of leaves and roots of tomato (Solanum lycopersicum). <i>Physiologia Plantarum</i> , <b>2001</b> , 111, 40-45	4.6	10
178	The influence of temperature and nitrogen source on growth and nitrogen uptake of two polar-desert species, Saxifraga caespitosa and Cerastium alpinum. <i>Plant and Soil</i> , <b>2000</b> , 227, 139-148	4.2	10
177	Effects of pH and bicarbonate on the nutrient status and growth of three Lupinus species. <i>Plant and Soil</i> , <b>2020</b> , 447, 9-28	4.2	10
176	Differences in investment and functioning of cluster roots account for different distributions of Banksia attenuata and B. sessilis, with contrasting life history. <i>Plant and Soil</i> , <b>2020</b> , 447, 85-98	4.2	10
175	Compromised root development constrains the establishment potential of native plants in unamended alkaline post-mining substrates. <i>Plant and Soil</i> , <b>2021</b> , 461, 163-179	4.2	10

174	Plant Water Relations <b>1998</b> , 154-209		10
173	Darwin as a plant scientist: a Southern Hemisphere perspective. <i>Trends in Plant Science</i> , <b>2009</b> , 14, 421-351	3.1	9
172	Mineral Nutrition <b>1998</b> , 239-298		9
171	Adaptations to winter-wet ironstone soils: a comparison between rare ironstone Hakea (Proteaceae) species and their common congeners. <i>Australian Journal of Botany</i> , <b>2008</b> , 56, 574	1.2	9
170	Nitrogen limitation and calcifuge plant strategies constrain the establishment of native vegetation on magnetite mine tailings. <i>Plant and Soil</i> , <b>2021</b> , 461, 181-201	4.2	9
169	Strong host specificity of a root hemi-parasite ( <i>Santalum acuminatum</i> ) limits its local distribution: beggars can be choosers. <i>Plant and Soil</i> , <b>2019</b> , 437, 159-177	4.2	8
168	Accumulation and precipitation of magnesium, calcium, and sulfur in two Acacia (Leguminosae; Mimosoideae) species grown in different substrates proposed for mine-site rehabilitation. <i>American Journal of Botany</i> , <b>2015</b> , 102, 290-301	2.7	8
167	Contrasting communities of arbuscule-forming root symbionts change external critical phosphorus requirements of some annual pasture legumes. <i>Applied Soil Ecology</i> , <b>2018</b> , 126, 88-97	5	8
166	Arid-zone Acacia species can access poorly soluble iron phosphate but show limited growth response. <i>Plant and Soil</i> , <b>2012</b> , 358, 119-130	4.2	8
165	Ecophysiology of <i>Eucalyptus marginata</i> and <i>Corymbia calophylla</i> in decline in an urban parkland. <i>Austral Ecology</i> , <b>2009</b> , 34, 499-507	1.5	8
164	The effect of handling on the yield of two populations of <i>Lolium perenne</i> selected for differences in mature leaf respiration rate. <i>Physiologia Plantarum</i> , <b>1993</b> , 89, 341-346	4.6	8
163	Mineral Nutrition <b>2019</b> , 301-384		8
162	Leaf growth in the fast-growing <i>Holcus lanatus</i> and the slow-growing <i>Deschampsia flexuosa</i> : tissue maturation. <i>Journal of Experimental Botany</i> , <b>1998</b> , 49, 1509-1517	7	8
161	In the beginning, there was only bare regolith. When some plants arrived and changed the regolith. <i>Journal of Plant Ecology</i> , <b>2020</b> , 13, 511-516	1.7	8
160	Traits related to efficient acquisition and use of phosphorus promote diversification in Proteaceae in phosphorus-impooverished landscapes. <i>Plant and Soil</i> , <b>2021</b> , 462, 67-88	4.2	8
159	Cluster roots: A curiosity in context. <i>Plant Ecophysiology</i> , <b>2005</b> , 101-125		8
158	Plants in constrained canopy micro-swards compensate for decreased root biomass and soil exploration with increased amounts of rhizosphere carboxylates. <i>Functional Plant Biology</i> , <b>2017</b> , 44, 552-562	2.7	7
157	The application potential of coal fly ash for selenium biofortification. <i>Advances in Agronomy</i> , <b>2019</b> , 157, 1-54	7.7	7

156	Do cluster roots of red alder play a role in nutrient acquisition from bedrock?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 11575-11576	11.5	7
155	Sensing, signalling, and CONTROL of phosphate starvation in plants: molecular players and applications <b>2015</b> , 23-63		7
154	Soybean (Glycine max (L.) Merrill) intercropping with reduced nitrogen input influences rhizosphere phosphorus dynamics and phosphorus acquisition of sugarcane (Saccharum officinarum). <i>Biology and Fertility of Soils</i> , <b>2020</b> , 56, 1063-1075	6.1	7
153	Is pH the key reason why some Lupinus species are sensitive to calcareous soil?. <i>Plant and Soil</i> , <b>2019</b> , 434, 185-201	4.2	7
152	Respiration in Terrestrial Ecosystems <b>2014</b> , 613-649		7
151	Rhizosphere carboxylate concentrations of chickpea are affected by soil bulk density. <i>Plant Biology</i> , <b>2006</b> , 8, 198-203	3.7	7
150	Root Physiology [From Gene to Function. <i>Plant and Soil</i> , <b>2005</b> , 274, vii-xv	4.2	7
149	Chemical Composition of the Leaves of Plants with Different Ecological Strategies from the Boreal Zone. <i>Russian Journal of Ecology</i> , <b>2001</b> , 32, 221-229	0.7	7
148	Plant Water Relations <b>2019</b> , 187-263		7
147	Rhizosphere processes do not explain variation in P acquisition from sparingly soluble forms among Lupinus albus accessions. <i>Australian Journal of Agricultural Research</i> , <b>2008</b> , 59, 616		7
146	Allelopathic and autotoxic interactions in selected populations of Lolium perenne grown in monoculture and mixed culture. <i>Functional Plant Biology</i> , <b>2002</b> , 29, 1465-1473	2.7	7
145	Silicon mobilisation by root-released carboxylates. <i>Trends in Plant Science</i> , <b>2021</b> , 26, 1116-1125	13.1	7
144	omics [Approaches Towards Understanding Plant Phosphorus Acquisition and Use <b>2015</b> , 65-97		6
143	Molecular Components that Drive Phosphorus-Remobilisation During Leaf Senescence <b>2015</b> , 159-186		6
142	From controlled environments to field simulations: Developing a growth model for the novel perennial pasture legume Cullen australasicum. <i>Agricultural and Forest Meteorology</i> , <b>2010</b> , 150, 1373-1382	5.8	6
141	Polyamine concentrations in four Poa species, differing in their maximum relative growth rate, grown with free access to nitrate and at limiting nitrate supply. <i>Plant Growth Regulation</i> , <b>1998</b> , 24, 77-89	3.2	6
140	RESPONSE OF GROWTH OF TOMATO TO PHOSPHORUS AND NITROGEN NUTRITION. <i>Acta Horticulturae</i> , <b>2004</b> , 357-364	0.3	6
139	Variation in the rate of root respiration of two Carex species: A comparison of four related methods to determine the energy requirements for growth, maintenance and ion uptake. <i>Plant and Soil</i> , <b>1988</b> , 111, 207-211	4.2	6

138	Mobilization of soil phosphate after 8 years of warming is linked to plant phosphorus-acquisition strategies in an alpine meadow on the Qinghai-Tibetan Plateau. <i>Global Change Biology</i> , <b>2021</b> , 27, 6578-6594	11.4	6
137	Partitioning of nitrogen and biomass at a range of N-addition rates and their consequences for growth and gas exchange in two perennial grasses from inland dunes. <i>Physiologia Plantarum</i> , <b>1992</b> , 86, 152-160	4.6	6
136	Towards more sustainable cropping systems: lessons from native Cerrado species. <i>Theoretical and Experimental Plant Physiology</i> , <b>2020</b> , 32, 175-194	2.4	6
135	Floral micromorphology of the bird-pollinated carnivorous plant species <i>Utricularia menziesii</i> R.Br. (Lentibulariaceae). <i>Annals of Botany</i> , <b>2019</b> , 123, 213-220	4.1	6
134	Processes at the soil-root interface determine the different responses of nutrient limitation and metal toxicity in forbs and grasses to nitrogen enrichment. <i>Journal of Ecology</i> , <b>2021</b> , 109, 927-938	6	6
133	A significant increase in rhizosheath carboxylates and greater specific root length in response to terminal drought is associated with greater relative phosphorus acquisition in chickpea. <i>Plant and Soil</i> , <b>2021</b> , 460, 51-68	4.2	6
132	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , <b>2021</b> , 8, 254	8.2	6
131	Differential growth response of <i>Rytidosperma</i> species (wallaby grass) to phosphorus application and its implications for grassland management. <i>Grass and Forage Science</i> , <b>2016</b> , 71, 245-258	2.3	5
130	Floral micromorphology and nectar composition of the early evolutionary lineage <i>Utricularia</i> (subgenus <i>Polypompholyx</i> , Lentibulariaceae). <i>Protoplasma</i> , <b>2019</b> , 256, 1531-1543	3.4	5
129	A model for simulating transpiration of <i>Eucalyptus salmonophloia</i> trees. <i>Physiologia Plantarum</i> , <b>2006</b> , 127, 465-477	4.6	5
128	Photosynthesis, biomass partitioning and peroxisomicine A1 production of <i>Karwinskia</i> species in response to nitrogen supply. <i>Physiologia Plantarum</i> , <b>2000</b> , 108, 300-306	4.6	5
127	Linking root exudation to belowground economic traits for resource acquisition. <i>New Phytologist</i> , <b>2021</b> ,	9.8	5
126	Edaphic niche characterization of four Proteaceae reveals unique calcicole physiology linked to hyper-endemism of <i>Grevillea thelemanniana</i> . <i>New Phytologist</i> , <b>2020</b> , 228, 869-883	9.8	5
125	Exogenous Calcium Alleviates Nocturnal Chilling-Induced Feedback Inhibition of Photosynthesis by Improving Sink Demand in Peanut (). <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 607029	6.2	5
124	Genetic delineation of local provenance defines seed collection zones along a climate gradient. <i>AoB PLANTS</i> , <b>2016</b> , 8,	2.9	5
123	Phosphorus-utilisation efficiency and leaf-morphology traits of <i>Rytidosperma</i> species (wallaby grasses) that differ in their growth response to phosphorus fertilisation. <i>Australian Journal of Botany</i> , <b>2016</b> , 64, 65	1.2	5
122	Pronounced surface stratification of soil phosphorus, potassium and sulfur under pastures upstream of a eutrophic wetland and estuarine system. <i>Soil Research</i> , <b>2017</b> , 55, 657	1.8	4
121	Globular structures in roots accumulate phosphorus to extremely high concentrations following phosphorus addition. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 1987-2002	8.4	4

120	Interactions between Nitrogen and Phosphorus metabolism <b>2015</b> , 187-214		4
119	Effects of calcium and its interaction with phosphorus on the nutrient status and growth of three Lupinus species. <i>Physiologia Plantarum</i> , <b>2018</b> , 163, 386	4.6	4
118	Modelling of Respiration: Effect of Variation in Respiration on Plant Growth in Two Carex Species. <i>Functional Ecology</i> , <b>1989</b> , 3, 655	5.6	4
117	Interaction of nitrogen and phosphorus nutrition in determining growth <b>2003</b> , 257-268		4
116	Assimilation, respiration and allocation of carbon in Plantago major as affected by atmospheric CO <sub>2</sub> levels <b>1993</b> , 369-378		4
115	Reduction, assimilation and transport of N in normal and gibberellin-deficient tomato plants. <i>Physiologia Plantarum</i> , <b>1995</b> , 95, 347-354	4.6	4
114	The potential for phosphorus benefits through root placement in the rhizosphere of phosphorus-mobilising neighbours. <i>Oecologia</i> , <b>2020</b> , 193, 843-855	2.9	4
113	Calcicole-calcifuge plant strategies limit restoration potential in a regional semi-arid flora. <i>Ecology and Evolution</i> , <b>2021</b> , 11, 6941-6961	2.8	4
112	Novel Genes and Genetic Loci Associated With Root Morphological Traits, Phosphorus-Acquisition Efficiency and Phosphorus-Use Efficiency in Chickpea. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 636973	6.2	4
111	Leaf traits from stomata to morphology are associated with climatic and edaphic variables for dominant tropical forest evergreen oaks. <i>Journal of Plant Ecology</i> ,	1.7	4
110	Nodulation promotes cluster-root formation in Lupinus albus under low phosphorus conditions. <i>Plant and Soil</i> , <b>2019</b> , 439, 233-242	4.2	4
109	Accumulation of phosphorus and calcium in different cells protects the phosphorus-hyperaccumulator Ptilotus exaltatus from phosphorus toxicity in high-phosphorus soils. <i>Chemosphere</i> , <b>2021</b> , 264, 128438	8.4	4
108	Addition of nitrogen to canopy versus understorey has different effects on leaf traits of understorey plants in a subtropical evergreen broad-leaved forest. <i>Journal of Ecology</i> , <b>2021</b> , 109, 692-702	6	4
107	Root positioning and trait shifts in Hibbertia racemosa as dependent on its neighbour's nutrient-acquisition strategy. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 1257-1267	8.4	4
106	Foliar nutrient allocation patterns in Banksia attenuata and Banksia sessilis differing in growth rate and adaptation to low-phosphorus habitats. <i>Annals of Botany</i> , <b>2021</b> , 128, 419-430	4.1	4
105	Soil phosphorus availability affects diazotroph communities during vegetation succession in lowland subtropical forests. <i>Applied Soil Ecology</i> , <b>2021</b> , 166, 104009	5	4
104	Algae in a phosphorus-limited landscape <b>2015</b> , 337-374		3
103	The Role of Post-Translational Enzyme Modifications in the Metabolic Adaptations of Phosphorus-Deprived Plants <b>2015</b> , 99-123		3

102	Root dynamics and survival in a nutrient-poor and species-rich woodland under a drying climate. <i>Plant and Soil</i> , <b>2018</b> , 424, 91-102	4.2	3
101	Nutrient resorption from senescing leaves of epiphytes, hemiparasites and their hosts in tropical forests of Sri Lanka. <i>Journal of Plant Ecology</i> , <b>2018</b> , 11, 815-826	1.7	3
100	Microbiomes of Velloziaceae from phosphorus-impooverished soils of the campos rupestres, a biodiversity hotspot. <i>Scientific Data</i> , <b>2019</b> , 6, 140	8.2	3
99	Comparison of novel and standard methods for analysing patterns of plant death in designed field experiments. <i>Journal of Agricultural Science</i> , <b>2012</b> , 150, 319-334	1	3
98	Introduction History, Assumptions, and Approaches <b>2008</b> , 1-9		3
97	Correlations between allocation to foliar phosphorus fractions and maintenance of photosynthetic integrity in six mangrove populations as affected by chilling. <i>New Phytologist</i> , <b>2021</b> , 232, 2267-2282	9.8	3
96	Respiration in Intact Tissues: Problems and Perspectives <b>1987</b> , 321-330		3
95	Respiratory pathways in germinating maize radicles correlated with desiccation tolerance and soluble sugars. <i>Physiologia Plantarum</i> , <b>1992</b> , 85, 581-588	4.6	3
94	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. <i>Physiologia Plantarum</i> , <b>1994</b> , 92, 585-594	4.6	3
93	Mulling over the mulla mullas: revisiting phosphorus hyperaccumulation in the Australian plant genus <i>Ptilotus</i> (Amaranthaceae). <i>Australian Journal of Botany</i> , <b>2020</b> , 68, 63	1.2	3
92	Incorporating rock in surface covers improves the establishment of native pioneer vegetation on alkaline mine tailings. <i>Science of the Total Environment</i> , <b>2021</b> , 768, 145373	10.2	3
91	Interactions between below-ground traits and rhizosheath fungal and bacterial communities for phosphorus acquisition. <i>Functional Ecology</i> , <b>2021</b> , 35, 1603-1619	5.6	3
90	Exceptional nitrogen-resorption efficiency enables <i>Maireana</i> species (Chenopodiaceae) to function as pioneers at a mine-restoration site. <i>Science of the Total Environment</i> , <b>2021</b> , 779, 146420	10.2	3
89	Soil Plant Atmosphere Interactions. <i>Developments in Soil Science</i> , <b>2018</b> , 29-60	1.3	3
88	Interactions among cluster-root investment, leaf phosphorus concentration, and relative growth rate in two <i>Lupinus</i> species. <i>American Journal of Botany</i> , <b>2015</b> , 102, 1529-37	2.7	2
87	Reassessing protocarnivory [how hungry are triggerplants?]. <i>Australian Journal of Botany</i> , <b>2018</b> , 66, 325	1.2	2
86	Regulation of growth by phosphorus supply in whole tomato plants <b>2001</b> , 114-115		2
85	Phosphate-solubilising microorganisms mainly increase plant phosphate uptake by effects of pH on root physiology. <i>Plant and Soil</i> , 1	4.2	2

84	Biotic Influences: Parasitic Associations <b>2019</b> , 597-613		2
83	Photosynthesis, Respiration, and Long-Distance Transport: Photosynthesis <b>2019</b> , 11-114		2
82	Growth rate, plant development and water relations of the ABA-deficient tomato mutant sitiens. <i>Physiologia Plantarum</i> , <b>1994</b> , 92, 102-108	4.6	2
81	Performance of two <i>Lupinus albus</i> L. cultivars in response to three soil pH levels. <i>Experimental Agriculture</i> , <b>2020</b> , 56, 321-330	1.7	2
80	Targeting Low-Phytate Soybean Genotypes Without Compromising Desirable Phosphorus-Acquisition Traits. <i>Frontiers in Genetics</i> , <b>2020</b> , 11, 574547	4.5	2
79	In addition to foliar manganese concentration, both iron and zinc provide proxies for rhizosheath carboxylates in chickpea under low phosphorus supply. <i>Plant and Soil</i> , <b>2021</b> , 465, 31-46	4.2	2
78	Formation of dauciform roots by Japanese native Cyperaceae and their contribution to phosphorus dynamics in soils. <i>Plant and Soil</i> , <b>2021</b> , 461, 107-118	4.2	2
77	Role of roots in adaptation of soil-indifferent Proteaceae to calcareous soils in south-western Australia. <i>Journal of Experimental Botany</i> , <b>2021</b> , 72, 1490-1505	7	2
76	Contrasting phosphorus sensitivity of two Australian native monocots adapted to different habitats. <i>Plant and Soil</i> , <b>2021</b> , 461, 151-162	4.2	2
75	Leaf Phosphorus Concentration Regulates the Development of Cluster Roots and Exudation of Carboxylates in. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 610591	6.2	2
74	Ecophysiological Performance of Proteaceae Species From Southern South America Growing on Substrates Derived From Young Volcanic Materials. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 636056	6.2	2
73	Rhizosphere 'Trade' Is an Unnecessary Analogy: Response to No. <i>Trends in Ecology and Evolution</i> , <b>2021</b> , 36, 176-177	10.9	2
72	Symbiotic Associations <b>2008</b> , 403-443		2
71	Interactions Among Plants <b>2008</b> , 505-531		2
70	Role in Ecosystem and Global Processes <b>1998</b> , 495-517		2
69	An integrated belowground trait-based understanding of nitrogen driven plant diversity loss.. <i>Global Change Biology</i> , <b>2022</b> ,	11.4	2
68	Belowground processes and sustainability in agroecosystems with intercropping. <i>Plant and Soil</i> ,	4.2	2
67	Population Size Effects on Progeny Performance in <i>Banksia ilicifolia</i> R. Br. (Proteaceae). <i>HAYATI Journal of Biosciences</i> , <b>2009</b> , 16, 43-48	1.2	1

66	Adding intercropped maize and faba bean root residues increases phosphorus bioavailability in a calcareous soil due to organic phosphorus mineralization. <i>Plant and Soil</i> , 1	4.2	1
65	Soil property determines the ability of rhizobial inoculation to enhance nitrogen fixation and phosphorus acquisition in soybean. <i>Applied Soil Ecology</i> , <b>2022</b> , 171, 104346	5	1
64	Effects of external phosphorus supply on internal phosphorus concentration and the initiation, growth and exudation of cluster roots in <i>Hakea prostrata</i> R.Br. <b>2003</b> , 209-219		1
63	Growth and Allocation <b>2019</b> , 385-449		1
62	Introduction: History, Assumptions, and Approaches <b>2019</b> , 1-10		1
61	Life Cycles: Environmental Influences and Adaptations <b>2019</b> , 451-486		1
60	Photosynthesis, Respiration, and Long-Distance Transport: Respiration <b>2019</b> , 115-172		1
59	Plant Energy Budgets: The Plant's Energy Balance <b>2019</b> , 265-278		1
58	Variation in the rate of root respiration of two <i>Carex</i> species: A comparison of four related methods to determine the energy requirements for growth, maintenance and ion uptake <b>1989</b> , 131-135		1
57	Energy Metabolism in Nodulated Roots <b>1984</b> , 453-460		1
56	Lower seed P content does not affect early growth in chickpea, provided starter P fertiliser is supplied. <i>Plant and Soil</i> , <b>2021</b> , 463, 113-124	4.2	1
55	Changes in soil phosphorus fractions in response to long-term phosphate fertilization under sole cropping and intercropping of maize and faba bean on a calcareous soil. <i>Plant and Soil</i> , <b>2021</b> , 463, 589	4.2	1
54	Increase in leaf organic acids to enhance adaptability of dominant plant species in karst habitats. <i>Ecology and Evolution</i> , <b>2021</b> , 11, 10277-10289	2.8	1
53	No evidence of regulation in root-mediated iron reduction in two Strategy I cluster-rooted <i>Banksia</i> species (Proteaceae). <i>Plant and Soil</i> , <b>2021</b> , 461, 203-218	4.2	1
52	Phosphorus and selenium uptake, root morphology, and carboxylates in the rhizosphere of alfalfa ( <i>Medicago sativa</i> ) as affected by localised phosphate and selenite supply in a split-root system. <i>Functional Plant Biology</i> , <b>2021</b> , 48, 1161-1174	2.7	1
51	Effects of oxytetracycline on plant growth, phosphorus uptake, and carboxylates in the rhizosphere of alfalfa. <i>Plant and Soil</i> , <b>2021</b> , 461, 501-515	4.2	1
50	AusTraits  curated plant trait database for the Australian flora		1
49	Delayed greening in phosphorus-efficient <i>Hakea prostrata</i> (Proteaceae) is a photoprotective and nutrient-saving strategy. <i>Functional Plant Biology</i> , <b>2021</b> , 48, 218-230	2.7	1

48	Metabolic Adaptations of the Non-Mycotrophic Proteaceae to Soils with Low Phosphorus Availability <b>2018</b> , 289-335		1
47	Faster recovery of soil biodiversity in native species mixture than in Eucalyptus monoculture after 60 years afforestation in tropical degraded coastal terraces. <i>Global Change Biology</i> , <b>2021</b> , 27, 5329-5340 <sup>11.4</sup>		1
46	Critical phosphorus requirements of Trifolium species: The importance of root morphology and root acclimation in response to phosphorus stress. <i>Physiologia Plantarum</i> , <b>2021</b> , 173, 1030-1047	4.6	1
45	Response of foliar mineral nutrients to long-term nitrogen and phosphorus addition in a tropical forest. <i>Functional Ecology</i> , <b>2021</b> , 35, 2329	5.6	1
44	Increasing nitrogen supply to phosphorus-deficient Medicago sativa decreases shoot growth and enhances root exudation of tartrate to discharge surplus carbon dependent on nitrogen form. <i>Plant and Soil</i> , 1	4.2	1
43	The relative contribution of indigenous and introduced arbuscular mycorrhizal fungi and rhizobia to plant nutrient acquisition in soybean/maize intercropping in unsterilized soils. <i>Applied Soil Ecology</i> , <b>2021</b> , 168, 104124	5	1
42	Climatic and edaphic controls over the elevational pattern of microbial necromass in subtropical forests. <i>Catena</i> , <b>2021</b> , 207, 105707	5.8	1
41	Biotic Influences <b>1998</b> , 378-494		1
40	The role of microbes in the increase of organic phosphorus availability in the rhizosheath of cover crops. <i>Plant and Soil</i> , 1	4.2	1
39	The mechanisms and potentially positive effects of seven years of delayed and wetter wet seasons on nitrous oxide fluxes in a tropical monsoon forest. <i>Geoderma</i> , <b>2022</b> , 412, 115740	6.7	0
38	Amending aeolian sandy soil in the Mu Us Sandy Land of China with Pisha sandstone and increasing phosphorus supply were more effective than increasing water supply for improving plant growth and phosphorus and nitrogen nutrition of lucerne (Medicago sativa). <i>Crop and Pasture Science</i> , <b>2020</b> , 71, 785	2.2	0
37	Using activated charcoal to remove substances interfering with the colorimetric assay of inorganic phosphate in plant extracts. <i>Plant and Soil</i> , 1	4.2	0
36	Response to Zhong and Zhou: P-acquisition strategies and total soil C sequestration. <i>Trends in Ecology and Evolution</i> , <b>2021</b> ,	10.9	0
35	Nitrogen addition increases aboveground silicon and phytolith concentrations in understory plants of a tropical forest. <i>Plant and Soil</i> , 1	4.2	0
34	Biogeomorphological evolution of rocky hillslopes driven by roots in campos rupestres, Brazil. <i>Geomorphology</i> , <b>2021</b> , 395, 107985	4.3	0
33	Chickpea and white lupin rhizosphere carboxylates vary with soil properties and enhance phosphorus uptake <b>2003</b> , 187-197		0
32	Phosphorus toxicity, not deficiency, explains the calcifuge habit of phosphorus-efficient Proteaceae. <i>Physiologia Plantarum</i> , <b>2021</b> , 172, 1724-1738	4.6	0
31	Soil microbial communities are driven by the declining availability of cations and phosphorus during ecosystem retrogression. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 163, 108430	7.5	0

30	The pervasive use of P O , K O, CaO, MgO and other molecules that do not exist in soil or fertiliser bags. <i>New Phytologist</i> , <b>2021</b> , 232, 1901-1903	9.8	o
29	Desiccation tolerance implies costs to productivity but allows survival under extreme drought conditions in Velloziaceae species in campos rupestres. <i>Environmental and Experimental Botany</i> , <b>2021</b> , 189, 104556	5.9	o
28	Impact of ecosystem water balance and soil parent material on silicon dynamics: insights from three long-term chronosequences. <i>Biogeochemistry</i> , <b>2021</b> , 156, 335	3.8	o
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