Kosala Ranathunge

List of Publications by Year
in descending order

42 papers	3,685 citations	147566 31 h-index	264894 42 g-index
42 all docs	42 docs citations	42 times ranked	3916 citing authors

#	Article	IF	Citations
1	Using activated charcoal to remove substances interfering with the colorimetric assay of inorganic phosphate in plant extracts. Plant and Soil, 2022, 476, 755-764.	1.8	5
2	Strategies to acquire and use phosphorus in phosphorus-impoverished and fire-prone environments. Plant and Soil, 2022, 476, 133-160.	1.8	22
3	Nitrate-uptake restraint in Banksia spp. (Proteaceae) and Melaleuca spp. (Myrtaceae) from a severely phosphorus-impoverished environment. Plant and Soil, 2022, 476, 63-77.	1.8	4
4	A cool spot in a biodiversity hotspot: why do tall Eucalyptus forests in Southwest Australia exhibit low diversity?. Plant and Soil, 2022, 476, 669-688.	1.8	12
5	Role of roots in adaptation of soil-indifferent Proteaceae to calcareous soils in south-western Australia. Journal of Experimental Botany, 2021, 72, 1490-1505.	2.4	9
6	Delayed greening in phosphorus-efficient Hakea prostrata (Proteaceae) is a photoprotective and nutrient-saving strategy. Functional Plant Biology, 2021, 48, 218.	1.1	9
7	Seminal roots of wild and cultivated barley differentially respond to osmotic stress in gene expression, suberization, and hydraulic conductivity. Plant, Cell and Environment, 2020, 43, 344-357.	2.8	39
8	Edaphic niche characterization of four Proteaceae reveals unique calcicole physiology linked to hyperâ€endemism of Grevillea thelemanniana. New Phytologist, 2020, 228, 869-883.	3.5	10
9	The intersection of nitrogen nutrition and water use in plants: new paths toward improved crop productivity. Journal of Experimental Botany, 2020, 71, 4452-4468.	2.4	119
10	Osmotic stress enhances suberization of apoplastic barriers in barley seminal roots: analysis of chemical, transcriptomic and physiological responses. New Phytologist, 2019, 221, 180-194.	3.5	89
11	Strong host specificity of a root hemi-parasite (Santalum acuminatum) limits its local distribution: beggars can be choosers. Plant and Soil, 2019, 437, 159-177.	1.8	13
12	Overexpression of ANAC046 Promotes Suberin Biosynthesis in Roots of Arabidopsis thaliana. International Journal of Molecular Sciences, 2019, 20, 6117.	1.8	31
13	Suberized transport barriers in Arabidopsis, barley and rice roots: From the model plant to crop species. Journal of Plant Physiology, 2018, 227, 75-83.	1.6	79
14	How belowground interactions contribute to the coexistence of mycorrhizal and non-mycorrhizal species in severely phosphorus-impoverished hyperdiverse ecosystems. Plant and Soil, 2018, 424, 11-33.	1.8	149
15	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.	3.5	130
16	Composite Transport Model and Water and Solute Transport across Plant Roots: An Update. Frontiers in Plant Science, 2018, 9, 193.	1.7	44
17	The composite water and solute transport of barley (<i>Hordeum vulgare</i>) roots: effect of suberized barriers. Annals of Botany, 2017, 119, mcw252.	1.4	32
18	Altered Expression of OsNLA1 Modulates Pi Accumulation in Rice (Oryza sativa L.) Plants. Frontiers in Plant Science, 2017, 8, 928.	1.7	9

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19	Ammonium-induced architectural and anatomical changes with altered suberin and lignin levels significantly change water and solute permeabilities of rice (Oryza sativa L.) roots. Planta, 2016, 243, 231-249.	1.6	49
20	Overexpression of the CC-type glutaredoxin, OsGRX6 affects hormone and nitrogen status in rice plants. Frontiers in Plant Science, 2015, 6, 934.	1.7	44
21	ABCG Transporters Are Required for Suberin and Pollen Wall Extracellular Barriers in<i>Arabidopsis</i>Â Â. Plant Cell, 2014, 26, 3569-3588.	3.1	241
22	RCN1/OsABCG5, an ATPâ€binding cassette (ABC) transporter, is required for hypodermal suberization of roots in rice (<i>Oryza sativa</i>). Plant Journal, 2014, 80, 40-51.	2.8	94
23	AMT1;1 transgenic rice plants with enhanced NH4+ permeability show superior growth and higher yield under optimal and suboptimal NH4+ conditions. Journal of Experimental Botany, 2014, 65, 965-979.	2.4	176
24	The Rice R2R3-MYB Transcription Factor OsMYB55 Is Involved in the Tolerance to High Temperature and Modulates Amino Acid Metabolism. PLoS ONE, 2012, 7, e52030.	1.1	163
25	Suberin research in the genomics eraâ€”New interest for an old polymer. Plant Science, 2011, 180, 399-413.	1.7	185
26	Stagnant deoxygenated growth enhances root suberization and lignifications, but differentially affects water and NaCl permeabilities in rice (<i>Oryza sativa</i> L.) roots. Plant, Cell and Environment, 2011, 34, 1223-1240.	2.8	103
27	Water and solute permeabilities of Arabidopsis roots in relation to the amount and composition of aliphatic suberin. Journal of Experimental Botany, 2011, 62, 1961-1974.	2.4	116
28	<i>Defective Pollen Wall</i>Is Required for Anther and Microspore Development in Rice and Encodes a Fatty Acyl Carrier Protein Reductase Â Â. Plant Cell, 2011, 23, 2225-2246.	3.1	226
29	Root apoplastic barriers block Na+ transport to shoots in rice (Oryza sativa L.). Journal of Experimental Botany, 2011, 62, 4215-4228.	2.4	187
30	Properties of the soybean seed coat cuticle change during development. Planta, 2010, 231, 1171-1188.	1.6	41
31	Mutation in Wilted Dwarf and Lethal 1 (WDL1) causes abnormal cuticle formation and rapid water loss in rice. Plant Molecular Biology, 2010, 74, 91-103.	2.0	68
32	Functional and chemical comparison of apoplastic barriers to radial oxygen loss in roots of rice (Oryza sativa L.) grown in aerated or deoxygenated solution. Journal of Experimental Botany, 2009, 60, 2155-2167.	2.4	158
33	The role of root apoplastic transport barriers in salt tolerance of rice (Oryza sativa L.). Planta, 2009, 230, 119-134.	1.6	200
34	Apoplastic barriers effectively block oxygen permeability across outer cell layers of rice roots under deoxygenated conditions: roles of apoplastic pores and of respiration. New Phytologist, 2009, 184, 909-917.	3.5	55
35	Wax Crystal-Sparse Leaf1 encodes a Î²â€“ketoacyl CoA synthase involved in biosynthesis of cuticular waxes on rice leaf. Planta, 2008, 228, 675-685.	1.6	83
36	Soybean Root Suberin and Partial Resistance to Root Rot Caused by <i>Phytophthora sojae</i>. Phytopathology, 2008, 98, 1179-1189.	1.1	67

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37	Soybean Root Suberin: Anatomical Distribution, Chemical Composition, and Relationship to Partial Resistance to Phytophthora sojae Â. Plant Physiology, 2007, 144, 299-311.	2.3	144
38	Blockage of apoplastic bypass-flow of water in rice roots by insoluble salt precipitates analogous to a Pfeffer cell. Plant, Cell and Environment, 2005, 28, 121-133.	2.8	79
39	A new precipitation technique provides evidence for the permeability of Casparian bands to ions in young roots of corn (Zea mays L.) and rice (Oryza sativa L.). Plant, Cell and Environment, 2005, 28, 1450-1462.	2.8	55
40	The chemical composition of suberin in apoplastic barriers affects radial hydraulic conductivity differently in the roots of rice (Oryza sativa L. cv. IR64) and corn (Zea mays L. cv. Helix). Journal of Experimental Botany, 2005, 56, 1427-1436.	2.4	128
41	Water permeability and reflection coefficient of the outer part of young rice roots are differently affected by closure of water channels (aquaporins) or blockage of apoplastic pores. Journal of Experimental Botany, 2004, 55, 433-447.	2.4	104
42	Control of water uptake by rice (Oryza sativa L.): role of the outer part of the root. Planta, 2003, 217, 193-205.	1.6	114