

Zed Rengel

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222
papers

9,624
citations

55
h-index

88
g-index

225
ext. papers

11,301
ext. citations

5
avg, IF

6.62
L-index

#	Paper	IF	Citations
222	The role of calcium in salt toxicity. <i>Plant, Cell and Environment</i> , 1992 , 15, 625-632	8.4	364
221	Nutrient availability and management in the rhizosphere: exploiting genotypic differences. <i>New Phytologist</i> , 2005 , 168, 305-12	9.8	319
220	Agronomic approaches for improving the micronutrient density in edible portions of field crops. <i>Field Crops Research</i> , 1999 , 60, 27-40	5.5	310
219	Crops and genotypes differ in efficiency of potassium uptake and use. <i>Physiologia Plantarum</i> , 2008 , 133, 624-36	4.6	277
218	Rhizosphere interactions between microorganisms and plants govern iron and phosphorus acquisition along the root axis [model and research methods. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 883-894	7.5	236
217	Role of dynamics of intracellular calcium in aluminium-toxicity syndrome. <i>New Phytologist</i> , 2003 , 159, 295-314	9.8	201
216	Cellular Mechanisms in Higher Plants Governing Tolerance to Cadmium Toxicity. <i>Critical Reviews in Plant Sciences</i> , 2014 , 33, 374-391	5.6	197
215	Modelling root-soil interactions using three-dimensional models of root growth, architecture and function. <i>Plant and Soil</i> , 2013 , 372, 93-124	4.2	191
214	Salicylic acid improves salinity tolerance in Arabidopsis by restoring membrane potential and preventing salt-induced K ⁺ loss via a GORK channel. <i>Journal of Experimental Botany</i> , 2013 , 64, 2255-68	7	171
213	Direct measurement of aluminum uptake and distribution in single cells of Chara corallina. <i>Plant Physiology</i> , 2000 , 123, 987-96	6.6	155
212	Role of magnesium in alleviation of aluminium toxicity in plants. <i>Journal of Experimental Botany</i> , 2011 , 62, 2251-64	7	149
211	Is there an optimal root architecture for nitrate capture in leaching environments?. <i>Plant, Cell and Environment</i> , 2003 , 26, 835-844	8.4	146
210	Phytomelatonin receptor PMTR1-mediated signaling regulates stomatal closure in Arabidopsis thaliana. <i>Journal of Pineal Research</i> , 2018 , 65, e12500	10.4	143
209	Salicylic acid in plant salinity stress signalling and tolerance. <i>Plant Growth Regulation</i> , 2015 , 76, 25-40	3.2	139
208	Localized application of phosphorus and ammonium improves growth of maize seedlings by stimulating root proliferation and rhizosphere acidification. <i>Field Crops Research</i> , 2010 , 119, 355-364	5.5	138
207	Acquiring control: The evolution of ROS-Induced oxidative stress and redox signaling pathways in plant stress responses. <i>Plant Physiology and Biochemistry</i> , 2019 , 141, 353-369	5.4	129
206	Genetic control of root exudation. <i>Plant and Soil</i> , 2002 , 245, 59-70	4.2	112

205	Responses of wheat and barley to liming on a sandy soil with subsoil acidity. <i>Field Crops Research</i> , 2003 , 80, 235-244	5.5	110
204	Exudation of carboxylates in Australian Proteaceae: chemical composition. <i>Plant, Cell and Environment</i> , 2001 , 24, 891-904	8.4	106
203	Competitive Al Inhibition of Net Mg Uptake by Intact Lolium multiflorum Roots : I. Kinetics. <i>Plant Physiology</i> , 1989 , 91, 1407-13	6.6	102
202	Distribution and remobilization of Zn and Mn during grain development in wheat. <i>Journal of Experimental Botany</i> , 1994 , 45, 1829-1835	7	100
201	Major Crop Species Show Differential Balance between Root Morphological and Physiological Responses to Variable Phosphorus Supply. <i>Frontiers in Plant Science</i> , 2016 , 7, 1939	6.2	96
200	Increased soil phosphorus availability induced by faba bean root exudation stimulates root growth and phosphorus uptake in neighbouring maize. <i>New Phytologist</i> , 2016 , 209, 823-31	9.8	96
199	Phosphorus uptake and rhizosphere properties of intercropped and monocropped maize, faba bean, and white lupin in acidic soil. <i>Biology and Fertility of Soils</i> , 2010 , 46, 79-91	6.1	93
198	Biofortification and estimated human bioavailability of zinc in wheat grains as influenced by methods of zinc application. <i>Plant and Soil</i> , 2012 , 361, 279-290	4.2	86
197	Rhizosphere Properties of Poaceae Genotypes Under P-limiting Conditions. <i>Plant and Soil</i> , 2006 , 283, 11-24	4.2	83
196	Localized fertilization with P plus N elicits an ammonium-dependent enhancement of maize root growth and nutrient uptake. <i>Field Crops Research</i> , 2012 , 133, 176-185	5.5	82
195	Simulating form and function of root systems: efficiency of nitrate uptake is dependent on root system architecture and the spatial and temporal variability of nitrate supply. <i>Functional Ecology</i> , 2004 , 18, 204-211	5.6	81
194	Aluminium cycling in the soil-plant-animal-human continuum. <i>BioMetals</i> , 2004 , 17, 669-89	3.4	81
193	The NPR1-dependent salicylic acid signalling pathway is pivotal for enhanced salt and oxidative stress tolerance in Arabidopsis. <i>Journal of Experimental Botany</i> , 2015 , 66, 1865-75	7	80
192	Biochars immobilize soil cadmium, but do not improve growth of emergent wetland species <i>Juncus subsecundus</i> in cadmium-contaminated soil. <i>Journal of Soils and Sediments</i> , 2013 , 13, 140-151	3.4	79
191	Differential accumulation patterns of phosphorus and potassium by canola cultivars compared to wheat. <i>Journal of Plant Nutrition and Soil Science</i> , 2007 , 170, 404-411	2.3	79
190	Dissipation of polycyclic aromatic hydrocarbons (PAHs) in the rhizosphere: synthesis through meta-analysis. <i>Environmental Pollution</i> , 2010 , 158, 855-61	9.3	77
189	Breeding for better symbiosis. <i>Plant and Soil</i> , 2002 , 245, 147-162	4.2	77
188	Phytoremediation potential of <i>Juncus subsecundus</i> in soils contaminated with cadmium and polynuclear aromatic hydrocarbons (PAHs). <i>Geoderma</i> , 2012 , 175-176, 1-8	6.7	76

187	Screening cereals for genotypic variation in efficiency of phosphorus uptake and utilisation. <i>Australian Journal of Agricultural Research</i> , 2002 , 53, 295		75
186	Molecular and physiological strategies to increase aluminum resistance in plants. <i>Molecular Biology Reports</i> , 2012 , 39, 2069-79	2.8	74
185	Polynuclear aromatic hydrocarbons (PAHs) mediate cadmium toxicity to an emergent wetland species. <i>Journal of Hazardous Materials</i> , 2011 , 189, 119-26	12.8	72
184	Ammonium and nitrate uptake by the floating plant <i>Landoltia punctata</i> . <i>Annals of Botany</i> , 2007 , 99, 365-70	4.0	72
183	Root morphological responses to localized nutrient supply differ among crop species with contrasting root traits. <i>Plant and Soil</i> , 2014 , 376, 151-163	4.2	71
182	Arsenic Speciation Governs Arsenic Uptake and Transport in Terrestrial Plants. <i>Mikrochimica Acta</i> , 2005 , 151, 141-152	5.8	71
181	Root exudation and microflora populations in rhizosphere of crop genotypes differing in tolerance to micronutrient deficiency. <i>Plant and Soil</i> , 1997 , 196, 255-260	4.2	70
180	Zinc fertilization and water stress affects plant water relations, stomatal conductance and osmotic adjustment in chickpea (<i>Cicer arietinum</i> L.). <i>Plant and Soil</i> , 2004 , 267, 271-284	4.2	68
179	Wheat genotypes differ in potassium efficiency under glasshouse and field conditions. <i>Australian Journal of Agricultural Research</i> , 2007 , 58, 816		67
178	Aluminum-induced plasma membrane surface potential and H ⁺ -ATPase activity in near-isogenic wheat lines differing in tolerance to aluminum. <i>New Phytologist</i> , 2004 , 162, 71-79	9.8	66
177	Role of phosphorus nutrition in development of cluster roots and release of carboxylates in soil-grown <i>Lupinus albus</i> . <i>Plant and Soil</i> , 2003 , 248, 199-206	4.2	66
176	Availability of Mn, Zn and Fe in the rhizosphere. <i>Journal of Soil Science and Plant Nutrition</i> , 2015 , 0-0	3.2	62
175	Arsenic speciation in terrestrial plant material using microwave-assisted extraction, ion chromatography and inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 128-134	3.7	62
174	Arsenic-phosphorus interactions in the soil-plant-microbe system: Dynamics of uptake, suppression and toxicity to plants. <i>Environmental Pollution</i> , 2018 , 233, 1003-1012	9.3	61
173	Aluminium-tolerant wheat uses more water and yields higher than aluminium-sensitive one on a sandy soil with subsurface acidity. <i>Field Crops Research</i> , 2002 , 78, 93-103	5.5	61
172	Influence of plant species and submerged zone with carbon addition on nutrient removal in stormwater biofilter. <i>Ecological Engineering</i> , 2011 , 37, 1833-1841	3.9	58
171	Arsenic uptake, translocation and speciation in <i>pho1</i> and <i>pho2</i> mutants of <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 2004 , 120, 280-286	4.6	58
170	Localized application of NH ₄ ⁺ -N plus P at the seedling and later growth stages enhances nutrient uptake and maize yield by inducing lateral root proliferation. <i>Plant and Soil</i> , 2013 , 372, 65-80	4.2	57

169	Beneficial Elements 2012 , 249-269		56
168	Biogeochemistry of soil organic matter in agroecosystems & environmental implications. <i>Science of the Total Environment</i> , 2019 , 658, 1559-1573	10.2	56
167	Zinc fertilisation increases grain zinc and reduces grain lead and cadmium concentrations more in zinc-biofortified than standard wheat cultivar. <i>Science of the Total Environment</i> , 2017 , 605-606, 454-460	10.2	55
166	Root architecture alteration of narrow-leafed lupin and wheat in response to soil compaction. <i>Field Crops Research</i> , 2014 , 165, 61-70	5.5	54
165	Development of a novel semi-hydroponic phenotyping system for studying root architecture. <i>Functional Plant Biology</i> , 2011 , 38, 355-363	2.7	54
164	Maize responds to low shoot P concentration by altering root morphology rather than increasing root exudation. <i>Plant and Soil</i> , 2017 , 416, 377-389	4.2	53
163	Low-pH and aluminum resistance in arabidopsis correlates with high cytosolic magnesium content and increased magnesium uptake by plant roots. <i>Plant and Cell Physiology</i> , 2013 , 54, 1093-104	4.9	53
162	Competitive Al Inhibition of Net Mg Uptake by Intact Lolium multiflorum Roots : II. Plant Age Effects. <i>Plant Physiology</i> , 1990 , 93, 1261-7	6.6	53
161	Zn fertilization improves water use efficiency, grain yield and seed Zn content in chickpea. <i>Plant and Soil</i> , 2003 , 249, 389-400	4.2	52
160	The Role of the Plasma Membrane H-ATPase in Plant Responses to Aluminum Toxicity. <i>Frontiers in Plant Science</i> , 2017 , 8, 1757	6.2	50
159	Brassica genotypes differ in growth, phosphorus uptake and rhizosphere properties under P-limiting conditions. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 87-98	7.5	50
158	Genotypic differences in wheat for uptake and utilisation of P from iron phosphate. <i>Australian Journal of Agricultural Research</i> , 2002 , 53, 837		50
157	Melatonin alleviates aluminium toxicity through modulating antioxidative enzymes and enhancing organic acid anion exudation in soybean. <i>Functional Plant Biology</i> , 2017 , 44, 961-968	2.7	48
156	Microbial community composition and functioning in the rhizosphere of three Banksia species in native woodland in Western Australia. <i>Applied Soil Ecology</i> , 2005 , 28, 191-201	5	48
155	Response of wheat genotypes efficient in P utilisation and genotypes responsive to P fertilisation to different P banding depths and watering regimes. <i>Australian Journal of Agricultural Research</i> , 2003 , 54, 59		47
154	Cadmium accumulation by muskmelon under salt stress in contaminated organic soil. <i>Science of the Total Environment</i> , 2009 , 407, 2175-82	10.2	46
153	The effectiveness of deep placement of fertilisers is determined by crop species and edaphic conditions in Mediterranean-type environments: a review. <i>Soil Research</i> , 2009 , 47, 19	1.8	46
152	Polynuclear aromatic hydrocarbons (PAHs) differentially influence growth of various emergent wetland species. <i>Journal of Hazardous Materials</i> , 2010 , 182, 689-95	12.8	45

151	Nutrient Removal from Simulated Wastewater Using <i>Canna indica</i> and <i>Schoenoplectus validus</i> in Mono- and Mixed-Culture in Wetland Microcosms. <i>Water, Air, and Soil Pollution</i> , 2007 , 183, 95-105	2.6	45
150	Phenotypic variability and modelling of root structure of wild <i>Lupinus angustifolius</i> genotypes. <i>Plant and Soil</i> , 2011 , 348, 345-364	4.2	44
149	Melatonin alleviates aluminum-induced root growth inhibition by interfering with nitric oxide production in <i>Arabidopsis</i> . <i>Environmental and Experimental Botany</i> , 2019 , 161, 157-165	5.9	43
148	Aluminium-induced ion transport in <i>Arabidopsis</i> : the relationship between Al tolerance and root ion flux. <i>Journal of Experimental Botany</i> , 2010 , 61, 3163-75	7	43
147	Cadmium Accumulation and Translocation in Four Emergent Wetland Species. <i>Water, Air, and Soil Pollution</i> , 2010 , 212, 239-249	2.6	43
146	Plant genotype and micronutrient status influence colonization of wheat roots by soil bacteria. <i>Journal of Plant Nutrition</i> , 1998 , 21, 99-113	2.3	42
145	Aluminium induces an increase in cytoplasmic calcium in intact wheat root apical cells. <i>Functional Plant Biology</i> , 1999 , 26, 401	2.7	42
144	Magnesium alleviates plant toxicity of aluminium and heavy metals. <i>Crop and Pasture Science</i> , 2015 , 66, 1298	2.2	41
143	Interaction of veterinary antibiotic tetracyclines and copper on their fates in water and water hyacinth (<i>Eichhornia crassipes</i>). <i>Journal of Hazardous Materials</i> , 2014 , 280, 389-98	12.8	41
142	Membrane fluxes and comparative toxicities of aluminium, scandium and gallium. <i>Journal of Experimental Botany</i> , 1996 , 47, 1881-1888	7	41
141	COMPILATION OF SIMPLE SPECTROPHOTOMETRIC TECHNIQUES FOR THE DETERMINATION OF ELEMENTS IN NUTRIENT SOLUTIONS. <i>Journal of Plant Nutrition</i> , 2001 , 24, 75-86	2.3	40
140	Plant genotype, micronutrient fertilization and take-all infection influence bacterial populations in the rhizosphere of wheat. <i>Plant and Soil</i> , 1996 , 183, 269-277	4.2	40
139	Humic acids decrease uptake and distribution of trace metals, but not the growth of radish exposed to cadmium toxicity. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 151, 55-61	7	37
138	Assessing variability in root traits of wild <i>Lupinus angustifolius</i> germplasm: basis for modelling root system structure. <i>Plant and Soil</i> , 2012 , 354, 141-155	4.2	37
137	Chickpea genotypes differ in their sensitivity to Zn deficiency. <i>Plant and Soil</i> , 1998 , 198, 11-18	4.2	36
136	Increase in pH stimulates mineralization of native organic carbon and nitrogen in naturally salt-affected sandy soils. <i>Plant and Soil</i> , 2007 , 290, 269-282	4.2	36
135	Canola genotypes differ in potassium efficiency during vegetative growth. <i>Euphytica</i> , 2007 , 156, 387-397	2.1	36
134	Phosphate uptake in <i>Arabidopsis thaliana</i> : dependence of uptake on the expression of transporter genes and internal phosphate concentrations. <i>Plant, Cell and Environment</i> , 1999 , 22, 1455-1461	8.4	36

133	Phosphorus starvation boosts carboxylate secretion in P-deficient genotypes of <i>Lupinus angustifolius</i> with contrasting root structure. <i>Crop and Pasture Science</i> , 2013 , 64, 588	2.2	35
132	Kinetics of ammonium, nitrate and phosphorus uptake by <i>Canna indica</i> and <i>Schoenoplectus validus</i> . <i>Aquatic Botany</i> , 2009 , 91, 71-74	1.8	35
131	Root-induced acidification and excess cation uptake by N ₂ -fixing <i>Lupinus albus</i> grown in phosphorus-deficient soil. <i>Plant and Soil</i> , 2004 , 260, 69-77	4.2	35
130	Growth response to subsurface soil acidity of wheat genotypes differing in aluminium tolerance. <i>Plant and Soil</i> , 2001 , 236, 1-10	4.2	35
129	Auxin enhances aluminium-induced citrate exudation through upregulation of GmMATE and activation of the plasma membrane H ⁺ -ATPase in soybean roots. <i>Annals of Botany</i> , 2016 , 118, 933-940	4.1	33
128	Manganese availability and microbial populations in the rhizosphere of wheat genotypes differing in tolerance to Mn deficiency. <i>Journal of Plant Nutrition and Soil Science</i> , 2003 , 166, 712-718	2.3	32
127	Daily rhythms of phyto melatonin signaling modulate diurnal stomatal closure via regulating reactive oxygen species dynamics in <i>Arabidopsis</i> . <i>Journal of Pineal Research</i> , 2020 , 68, e12640	10.4	31
126	Uptake of aluminium into <i>Arabidopsis</i> root cells measured by fluorescent lifetime imaging. <i>Annals of Botany</i> , 2009 , 104, 189-95	4.1	31
125	Neighbouring plants modify maize root foraging for phosphorus: coupling nutrients and neighbours for improved nutrient-use efficiency. <i>New Phytologist</i> , 2020 , 226, 244-253	9.8	31
124	Modelling root plasticity and response of narrow-leaved lupin to heterogeneous phosphorus supply. <i>Plant and Soil</i> , 2013 , 372, 319-337	4.2	30
123	Improved measurements of Na ⁺ fluxes in plants using calixarene-based microelectrodes. <i>Journal of Plant Physiology</i> , 2011 , 168, 1045-51	3.6	30
122	Soil Salinisation and Salt Stress in Crop Production 2011 ,		30
121	Modelling yield losses of aluminium-resistant and aluminium-sensitive wheat due to subsurface soil acidity: effects of rainfall, liming and nitrogen application. <i>Plant and Soil</i> , 2003 , 254, 349-360	4.2	30
120	Transmembrane calcium fluxes during Al stress. <i>Plant and Soil</i> , 1995 , 171, 125-130	4.2	30
119	Aluminum-dependent dynamics of ion transport in <i>Arabidopsis</i> : specificity of low pH and aluminum responses. <i>Physiologia Plantarum</i> , 2010 , 139, 401-12	4.6	29
118	Uptake of zinc by rye, bread wheat and durum wheat cultivars differing in zinc efficiency. <i>Plant and Soil</i> , 1999 , 209, 245-252	4.2	29
117	Accumulation and distribution of arsenic and cadmium in winter wheat (<i>Triticum aestivum</i> L.) at different developmental stages. <i>Science of the Total Environment</i> , 2019 , 667, 532-539	10.2	28
116	Impact of nitrogen form on iron uptake and distribution in maize seedlings in solution culture. <i>Plant and Soil</i> , 2001 , 235, 143-149	4.2	28

115	The root growth response to heterogeneous nitrate supply differs for <i>Lupinus angustifolius</i> and <i>Lupinus pilosus</i> . <i>Australian Journal of Agricultural Research</i> , 2001 , 52, 495		28
114	Environmental salinization processes: Detection, implications & solutions. <i>Science of the Total Environment</i> , 2021 , 754, 142432	10.2	27
113	Interactive effects of nitrogen and phosphorus loadings on nutrient removal from simulated wastewater using <i>Schoenoplectus validus</i> in wetland microcosms. <i>Chemosphere</i> , 2008 , 72, 1823-8	8.4	26
112	Heterogeneous distribution of phosphorus and potassium in soil influences wheat growth and nutrient uptake. <i>Plant and Soil</i> , 2007 , 291, 301-309	4.2	26
111	Spatial distribution of ammonium and nitrate fluxes along roots of wetland plants. <i>Plant Science</i> , 2007 , 173, 240-246	5.3	26
110	Bauxite residue sand has the capacity to rapidly decrease availability of added manganese. <i>Plant and Soil</i> , 2001 , 234, 143-151	4.2	26
109	Growth and P uptake by wheat genotypes supplied with phytate as the only P source. <i>Australian Journal of Agricultural Research</i> , 2002 , 53, 845		26
108	<i>Lupinus angustifolius</i> has a plastic uptake response to heterogeneously supplied nitrate while <i>Lupinus pilosus</i> does not. <i>Australian Journal of Agricultural Research</i> , 2001 , 52, 505		26
107	Soil plant-available phosphorus levels and maize genotypes determine the phosphorus acquisition efficiency and contribution of mycorrhizal pathway. <i>Plant and Soil</i> , 2020 , 449, 357-371	4.2	25
106	Localized application of NH ₄ ⁺ -N plus P enhances zinc and iron accumulation in maize via modifying root traits and rhizosphere processes. <i>Field Crops Research</i> , 2014 , 164, 107-116	5.5	25
105	Salinity decreases dissolved organic carbon in the rhizosphere and increases trace element phyto-accumulation. <i>European Journal of Soil Science</i> , 2012 , 63, 685-693	3.4	24
104	Influence of phenolic acids on phosphorus mobilisation in acidic and calcareous soils. <i>Plant and Soil</i> , 2005 , 268, 173-180	4.2	24
103	Aluminium Effects on Pollen Germination and Tube Growth of <i>Chamelaucium uncinatum</i> . A Comparison with Other Ca ²⁺ -Antagonists. <i>Annals of Botany</i> , 1999 , 84, 559-564	4.1	24
102	Crop species differ in root plasticity response to localised P supply. <i>Journal of Plant Nutrition and Soil Science</i> , 2009 , 172, 360-368	2.3	23
101	Genotypes of lucerne (<i>Medicago sativa</i> L.) show differential tolerance to manganese deficiency and toxicity when grown in bauxite residue sand. <i>Plant and Soil</i> , 2003 , 249, 287-296	4.2	23
100	Tolerance to ion toxicities enhances wheat (<i>Triticum aestivum</i> L.) grain yield in waterlogged acidic soils. <i>Plant and Soil</i> , 2012 , 354, 371-381	4.2	22
99	Molecular marker linked to a chromosome region regulating seed Zn accumulation in barley. <i>Molecular Breeding</i> , 2010 , 25, 167-177	3.4	21
98	Root length and root lipid composition contribute to drought tolerance of winter and spring wheat. <i>Plant and Soil</i> , 2019 , 439, 57-73	4.2	21

97	Mapping QTL associated with remobilization of zinc from vegetative tissues into grains of barley (<i>Hordeum vulgare</i>). <i>Plant and Soil</i> , 2016 , 399, 193-208	4.2	20
96	Dynamics of nutrient remobilisation from seed of wheat genotypes during imbibition, germination and early seedling growth. <i>Plant and Soil</i> , 1997 , 197, 271-280	4.2	20
95	Phosphorus acquisition and wheat growth are influenced by shoot phosphorus status and soil phosphorus distribution in a split-root system. <i>Journal of Plant Nutrition and Soil Science</i> , 2008 , 171, 266-271	3.7	20
94	Growth and resource allocation of <i>Canna indica</i> and <i>Schoenoplectus validus</i> as affected by interspecific competition and nutrient availability. <i>Hydrobiologia</i> , 2007 , 589, 235-248	2.4	20
93	Deep placement of manganese fertiliser improves sustainability of lucerne growing on bauxite residue: A glasshouse study. <i>Plant and Soil</i> , 2003 , 257, 85-95	4.2	20
92	Ecotypes of <i>Holcus lanatus</i> Tolerant to Zinc Toxicity also Tolerate Zinc Deficiency. <i>Annals of Botany</i> , 2000 , 86, 1119-1126	4.1	20
91	Physiological responses of wheat genotypes grown in chelator-buffered nutrient solutions with increasing concentrations of excess HEDTA. <i>Plant and Soil</i> , 1999 , 215, 193-202	4.2	20
90	Combined effects of waterlogging and salinity on electrochemistry, water-soluble cations and water dispersible clay in soils with various salinity levels. <i>Plant and Soil</i> , 2004 , 264, 231-245	4.2	19
89	Banding phosphorus and ammonium enhances nutrient uptake by maize via modifying root spatial distribution. <i>Crop and Pasture Science</i> , 2013 , 64, 965	2.2	18
88	Wheat genotypes differ in potassium accumulation and osmotic adjustment under drought stress. <i>Crop and Pasture Science</i> , 2011 , 62, 550	2.2	18
87	Biosynthesis of a 34-kDa Polypeptide in the Root-cell Plasma Membrane of a Zn-efficient Wheat Genotype Increases upon Zn Deficiency. <i>Functional Plant Biology</i> , 1997 , 24, 307	2.7	18
86	Mineral bioavailability in grains of Pakistani bread wheat declines from old to current cultivars. <i>Euphytica</i> , 2012 , 186, 153-163	2.1	17
85	Wheat and white lupin differ in root proliferation and phosphorus use efficiency under heterogeneous soil P supply. <i>Crop and Pasture Science</i> , 2011 , 62, 467	2.2	17
84	Interactive effects of N and P on growth but not on resource allocation of <i>Canna indica</i> in wetland microcosms. <i>Aquatic Botany</i> , 2008 , 89, 317-323	1.8	17
83	Root Morphology, Proton Release, and Carboxylate Exudation in Lupin in Response to Phosphorus Deficiency. <i>Journal of Plant Nutrition</i> , 2008 , 31, 557-570	2.3	17
82	Low arsenate influx rate and high phosphorus concentration in wheat (<i>Triticum aestivum</i> L.): A mechanism for arsenate tolerance in wheat plants. <i>Chemosphere</i> , 2019 , 214, 94-102	8.4	17
81	Zinc-biofortified wheat accumulates more cadmium in grains than standard wheat when grown on cadmium-contaminated soil regardless of soil and foliar zinc application. <i>Science of the Total Environment</i> , 2019 , 654, 402-408	10.2	16
80	Biomass bottom ash & dolomite similarly ameliorate an acidic low-nutrient soil, improve phytonutrition and growth, but increase Cd accumulation in radish. <i>Science of the Total Environment</i> , 2021 , 753, 141902	10.2	16

79	Arsenic and Heavy Metal (Cadmium, Lead, Mercury and Nickel) Contamination in Plant-Based Foods 2019 , 447-490		15
78	Response of chickpea genotypes to zinc fertilization under field conditions in south Australia and Pakistan. <i>Journal of Plant Nutrition</i> , 2000 , 23, 1517-1531	2.3	15
77	Reactive oxygen species production in wheat roots is not linked with changes in h fluxes during acidic and aluminium stresses. <i>Plant Signaling and Behavior</i> , 2006 , 1, 71-6	2.5	14
76	Cycling of Micronutrients in Terrestrial Ecosystems 2007 , 93-121		14
75	Root over-production in heterogeneous nutrient environment has no negative effects on Zea mays shoot growth in the field. <i>Plant and Soil</i> , 2016 , 409, 405-417	4.2	14
74	Zinc and Cadmium Mapping in the Apical Shoot and Hypocotyl Tissues of Radish by High-Resolution Secondary Ion Mass Spectrometry (NanoSIMS) after Short-Term Exposure to Metal Contamination. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	13
73	Boron inhibits cadmium uptake in wheat (<i>Triticum aestivum</i>) by regulating gene expression. <i>Plant Science</i> , 2020 , 297, 110522	5.3	13
72	Orthogonal polynomial models to describe yield response of rice to nitrogen and phosphorus at different levels of soil fertility. <i>Nutrient Cycling in Agroecosystems</i> , 2003 , 65, 243-251	3.3	13
71	Zinc status and its requirement by rural adults consuming wheat from control or zinc-treated fields. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 1877-1892	4.7	13
70	Root trait diversity, molecular marker diversity, and trait-marker associations in a core collection of <i>Lupinus angustifolius</i> . <i>Journal of Experimental Botany</i> , 2016 , 67, 3683-97	7	13
69	Zinc and cadmium mapping by NanoSIMS within the root apex after short-term exposure to metal contamination. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 171, 571-578	7	13
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