Caixian Tang

List of Publications by Year
in descending order

297 papers	15,503 citations	17440 63 h-index	29157 104 g-index
298 all docs	298 docs citations	298 times ranked	12325 citing authors

#	Article	IF	Citations
1	Origins of root-mediated pH changes in the rhizosphere and their responses to environmental constraints: A review. Plant and Soil, 2003, 248, 43-59.	3.7	1,099
2	Responses of root architecture development to low phosphorus availability: a review. Annals of Botany, 2013, 112, 391-408.	2.9	433
3	Improved tolerance of maize plants to salt stress by arbuscular mycorrhiza is related to higher accumulation of soluble sugars in roots. Mycorrhiza, 2002, 12, 185-190.	2.8	345
4	Microplastics in the soil environment: Occurrence, risks, interactions and fate â€“ A review. Critical Reviews in Environmental Science and Technology, 2020, 50, 2175-2222.	12.8	324
5	The role of plant residues in pH change of acid soils differing in initial pH. Soil Biology and Biochemistry, 2006, 38, 709-719.	8.8	281
6	Long-term nutrient inputs shift soil microbial functional profiles of phosphorus cycling in diverse agroecosystems. ISME Journal, 2020, 14, 757-770.	9.8	280
7	Iron Deficiency-Induced Secretion of Phenolics Facilitates the Reutilization of Root Apoplastic Iron in Red Clover. Plant Physiology, 2007, 144, 278-285.	4.8	244
8	Remediation of As(III) and Cd(II) co-contamination and its mechanism in aqueous systems by a novel calcium-based magnetic biochar. Journal of Hazardous Materials, 2018, 348, 10-19.	12.4	223
9	Soil organic carbon dynamics: Impact of land use changes and management practices: A review. Advances in Agronomy, 2019, , 1-107.	5.2	216
10	Novel insight into adsorption and co-adsorption of heavy metal ions and an organic pollutant by magnetic graphene nanomaterials in water. Chemical Engineering Journal, 2019, 358, 1399-1409.	12.7	205
11	Crop yields, soil fertility and phosphorus fractions in response to long-term fertilization under the rice monoculture system on a calcareous soil. Field Crops Research, 2004, 86, 225-238.	5.1	186
12	Acid Phosphatase Role in Chickpea/Maize Intercropping. Annals of Botany, 2004, 94, 297-303.	2.9	175
13	Interspecific facilitation of nutrient uptake by intercropped maize and faba bean. Nutrient Cycling in Agroecosystems, 2003, 65, 61-71.	2.2	172
14	Crop acquisition of phosphorus, iron and zinc from soil in cereal/legume intercropping systems: a critical review. Annals of Botany, 2016, 117, 363-377.	2.9	161
15	Chickpea facilitates phosphorus uptake by intercropped wheat from an organic phosphorus source. Plant and Soil, 2003, 248, 297-303.	3.7	160
16	Chemical and biological immobilization mechanisms of potentially toxic elements in biochar-amended soils. Critical Reviews in Environmental Science and Technology, 2020, 50, 903-978.	12.8	157
17	A novel calcium-based magnetic biochar is effective in stabilization of arsenic and cadmium co-contamination in aerobic soils. Journal of Hazardous Materials, 2020, 387, 122010.	12.4	153
18	Title is missing!. Plant and Soil, 1999, 215, 29-38.	3.7	146

#	Article	IF	Citations
19	Functional Relationships of Soil Acidification, Liming, and Greenhouse Gas Flux. Advances in Agronomy, 2016, 139, 1-71.	5.2	144
20	Phosphorus Deficiency Impairs Early Nodule Functioning and Enhances Proton Release in Roots of Medicago truncatula L.. Annals of Botany, 2001, 88, 131-138.	2.9	140
21	Responses of wheat and barley to liming on a sandy soil with subsoil acidity. Field Crops Research, 2003, 80, 235-244.	5.1	129
22	Changes in chemical and biological properties of a sodic clay subsoil with addition of organic amendments. Soil Biology and Biochemistry, 2007, 39, 2806-2817.	8.8	126
23	Excess cation uptake, and extrusion of protons and organic acid anions by Lupinus albus under phosphorus deficiency. Plant Science, 2001, 160, 1191-1198.	3.6	124
24	Mechanisms for the removal of Cd(II) and Cu(II) from aqueous solution and mine water by biochars derived from agricultural wastes. Chemosphere, 2020, 254, 126745.	8.2	115
25	Rhizosphere priming effect on soil organic carbon decomposition under plant species differing in soil acidification and root exudation. New Phytologist, 2016, 211, 864-873.	7.3	114
26	Changes and availability of P fractions following 65Âyears of P application to a calcareous soil in a Mediterranean climate. Plant and Soil, 2008, 304, 21-33.	3.7	113
27	The contribution of crop residues to changes in soil pH under field conditions. Plant and Soil, 2013, 366, 185-198.	3.7	112
28	The role of iron in nodulation and nitrogen fixation in Lupinus angustifolius L. New Phytologist, 1990, 114, 173-182.	7.3	106
29	Effect of aging process on adsorption of diethyl phthalate in soils amended with bamboo biochar. Chemosphere, 2016, 142, 28-34.	8.2	105
30	The impact of elevated carbon dioxide on the phosphorus nutrition of plants: a review. Annals of Botany, 2015, 116, 987-999.	2.9	99
31	Effect of short-term legume residue decomposition on soil acidity. Soil Research, 1999, 37, 561.	1.1	99
32	A comparison of proton excretion of twelve pasture legumes grown in nutrient solution. Australian Journal of Experimental Agriculture, 1997, 37, 563.	1.0	98
33	Changes in soil physical properties and crop root growth in dense sodic subsoil following incorporation of organic amendments. Field Crops Research, 2009, 114, 137-146.	5.1	98
34	Silver sulfide nanoparticles (Ag₂S-NPs) are taken up by plants and are phytotoxic. Nanotoxicology, 2015, 9, 1041-1049.	3.0	96
35	Role of phosphorus nutrition in development of cluster roots and release of carboxylates in soil-grown Lupinus albus. Plant and Soil, 2003, 248, 199-206.	3.7	95
36	Microbial associated plant growth and heavy metal accumulation toÂimprove phytoextraction of contaminated soils. Soil Biology and Biochemistry, 2016, 103, 131-137.	8.8	94

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37	Application of 16S rDNA-PCR amplification and DGGE fingerprinting for detection of shift in microbial community diversity in Cu-, Zn-, and Cd-contaminated paddy soils. Chemosphere, 2006, 62, 1374-1380.	8.2	93
38	Interaction Between Phosphorus Nutrition and Drought on Grain Yield, and Assimilation of Phosphorus and Nitrogen in Two Soybean Cultivars Differing in Protein Concentration in Grains. Journal of Plant Nutrition, 2006, 29, 1433-1449.	1.9	89
39	Facilitation of pentachlorophenol degradation in the rhizosphere of ryegrass (Lolium perenne L.). Soil Biology and Biochemistry, 2005, 37, 2017-2024.	8.8	87
40	Regulation of nitrate reductase by nitric oxide in Chinese cabbage pakchoi (<i>Brassica chinensis</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.7	86
41	Factors affecting soil acidification under legumes. III. Acid production by N 2 â€fixing legumes as influenced by nitrate supply. New Phytologist, 1999, 143, 513-521.	7.3	82
42	Contrasting effects of alkaline amendments on the bioavailability and uptake of Cd in rice plants in a Cd-contaminated acid paddy soil. Environmental Science and Pollution Research, 2018, 25, 8827-8835.	5.3	82
43	Changes in soil P pools during legume residue decomposition. Soil Biology and Biochemistry, 2012, 49, 70-77.	8.8	81
44	Combined application of biochar and nitrogen fertilizer benefits nitrogen retention in the rhizosphere of soybean by increasing microbial biomass but not altering microbial community structure. Science of the Total Environment, 2018, 640-641, 1221-1230.	8.0	81
45	Absorption of foliar-applied Zn in sunflower (<i>Helianthus annuus</i>): importance of the cuticle, stomata and trichomes. Annals of Botany, 2019, 123, 57-68.	2.9	81
46	Phosphorus supply enhances the response of legumes to elevated CO2 (FACE) in a phosphorus-deficient vertisol. Plant and Soil, 2012, 358, 91-104.	3.7	80
47	Absorption of foliar-applied Zn fertilizers by trichomes in soybean and tomato. Journal of Experimental Botany, 2018, 69, 2717-2729.	4.8	80
48	Amelioration of dense sodic subsoil using organic amendments increases wheat yield more than using gypsum in a high rainfall zone of southern Australia. Field Crops Research, 2008, 107, 265-275.	5.1	78
49	Cadmium accumulation is enhanced by ammonium compared to nitrate in two hyperaccumulators, without affecting speciation. Journal of Experimental Botany, 2016, 67, 5041-5050.	4.8	78
50	Ethylene and nitric oxide interact to regulate the magnesium deficiencyâ€induced root hair development in <i>Arabidopsis</i>. New Phytologist, 2017, 213, 1242-1256.	7.3	77
51	Chemical composition controls residue decomposition in soils differing in initial pH. Soil Biology and Biochemistry, 2006, 38, 544-552.	8.8	75
52	Differential regulatory role of nitric oxide in mediating nitrate reductase activity in roots of tomato (Solanum lycocarpum). Annals of Botany, 2009, 104, 9-17.	2.9	75
53	A split-root experiment shows that iron is required for nodule initiation in Lupinus angustifolius L.. New Phytologist, 1990, 115, 61-67.	7.3	74
54	Impact of organic matter addition on pH change of paddy soils. Journal of Soils and Sediments, 2013, 13, 12-23.	3.0	74

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55	Plant growth-promoting rhizobacteria enhance the growth and Cd uptake of Sedum plumbizincicola in a Cd-contaminated soil. Journal of Soils and Sediments, 2015, 15, 1191-1199.	3.0	72
56	Carbon and nitrogen partitioning of wheat and field pea grown with two nitrogen levels under elevated CO2. Plant and Soil, 2015, 391, 367-382.	3.7	71
57	Aluminium-tolerant wheat uses more water and yields higher than aluminium-sensitive one on a sandy soil with subsurface acidity. Field Crops Research, 2002, 78, 93-103.	5.1	70
58	Effects of intercropping and nitrogen application on nitrate present in the profile of an Orthic Anthrosol in Northwest China. Agriculture, Ecosystems and Environment, 2005, 105, 483-491.	5.3	70
59	The kinetics of aluminum adsorption and desorption by root cell walls of an aluminum resistant wheat (Triticum aestivum L.) cultivar. Plant and Soil, 2004, 261, 85-90.	3.7	69
60	Lupin (Lupinus angustifolius L.) and Pea (Pisum sativum L.) Roots Differ in their Sensitivity to pH above 6.0. Journal of Plant Physiology, 1992, 140, 715-719.	3.5	67
61	Localised nitrate and phosphate application enhances root proliferation by wheat and maximises rhizosphere alkalisation in acid subsoil. Plant and Soil, 2008, 312, 101-115.	3.7	66
62	Changes in phosphorus fractions at various soil depths following long-term P fertiliser application on a Black Vertosol from south-eastern Queensland. Soil Research, 2007, 45, 524.	1.1	65
63	Long-term effects of elevated CO2 on carbon and nitrogen functional capacity of microbial communities in three contrasting soils. Soil Biology and Biochemistry, 2016, 97, 157-167.	8.8	65
64	Organic adsorbents modified with citric acid and Fe3O4 enhance the removal of Cd and Pb in contaminated solutions. Chemical Engineering Journal, 2020, 395, 125108.	12.7	65
65	Phosphorus acquisition characteristics of cotton (Gossypium hirsutum L.), wheat (Triticum aestivum) Tj ETQq1 1 0.784314 rgBT /Overlo	3.7	64
66	Nitric oxide is the shared signalling molecule in phosphorus- and iron-deficiency-induced formation of cluster roots in white lupin (Lupinus albus). Annals of Botany, 2012, 109, 1055-1064.	2.9	64
67	Magnesium availability regulates the development of root hairs in <scp><i>A</i></scp><i>rabidopsis thaliana</i> (<scp>L</scp>.) <scp>H</scp>eynh. Plant, Cell and Environment, 2014, 37, 2795-2813.	5.7	64
68	Changes in phosphorus fractions, sorption and release in Udic Mollisols under different ecosystems. Biology and Fertility of Soils, 2007, 44, 37-47.	4.3	62
69	Model organic compounds differ in their effects on pH changes of two soils differing in initial pH. Biology and Fertility of Soils, 2011, 47, 51-62.	4.3	62
70	Synchrotron-based Techniques Shed Light on Mechanisms of Plant Sensitivity and Tolerance to High Manganese in the Root Environment. Plant Physiology, 2015, 169, pp.00726.2015.	4.8	61
71	Acidification potential of ten grain legume species grown in nutrient solution. Australian Journal of Agricultural Research, 1997, 48, 1025.	1.5	61
72	The impact of long-term liming on soil organic carbon and aggregate stability in low-input acid soils. Biology and Fertility of Soils, 2016, 52, 697-709.	4.3	60

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73	Elevated CO2 Increases Nitrogen Fixation at the Reproductive Phase Contributing to Various Yield Responses of Soybean Cultivars. Frontiers in Plant Science, 2017, 8, 1546.	3.6	60
74	Competitive Traits Are More Important than Stress-Tolerance Traits in a Cadmium-Contaminated Rhizosphere: A Role for Trait Theory in Microbial Ecology. Frontiers in Microbiology, 2018, 9, 121.	3.5	60
75	Effects of carbide slag, lodestone and biochar on the immobilization, plant uptake and translocation of As and Cd in a contaminated paddy soil. Environmental Pollution, 2020, 266, 115194.	7.5	60
76	Proton release of two genotypes of bean (Phaseolus vulgaris L.) as affected by N nutrition and P deficiency. Plant and Soil, 2004, 260, 59-68.	3.7	59
77	Factors affecting the measurement of soil <scp>pH</scp> buffer capacity: approaches to optimize the methods. European Journal of Soil Science, 2015, 66, 53-64.	3.9	59
78	The negative impact of cadmium on nitrogen transformation processes in a paddy soil is greater under non-flooding than flooding conditions. Environment International, 2019, 129, 451-460.	10.0	59
79	Differences in carbon and nitrogen mineralization in soils of differing initial pH induced by electrokinesis and receiving crop residue amendments. Soil Biology and Biochemistry, 2013, 67, 70-84.	8.8	58
80	Manganese distribution and speciation help to explain the effects of silicate and phosphate on manganese toxicity in four crop species. New Phytologist, 2018, 217, 1146-1160.	7.3	58
81	Calcium, magnesium and microelement uptake as affected by phosphorus sources and interspecific root interactions between wheat and chickpea. Plant and Soil, 2004, 261, 29-37.	3.7	57
82	The effect of nitrogen form on rhizosphere soil pH and zinc phytoextraction by Thlaspi caerulescens. Chemosphere, 2008, 73, 635-642.	8.2	57
83	A critical review on methods to measure apoplastic pH in plants. Plant and Soil, 2000, 219, 29-40.	3.7	55
84	Extraction of apoplastic sap from plant roots by centrifugation. New Phytologist, 1999, 143, 299-304.	7.3	54
85	Model organic compounds differ in priming effects on alkalinity release in soils through carbon and nitrogen mineralisation. Soil Biology and Biochemistry, 2012, 51, 35-43.	8.8	54
86	Converting natural evergreen broadleaf forests to intensively managed moso bamboo plantations affects the pool size and stability of soil organic carbon and enzyme activities. Biology and Fertility of Soils, 2018, 54, 467-480.	4.3	54
87	Interactive effects of initial pH and nitrogen status on soil organic carbon priming by glucose and lignocellulose. Soil Biology and Biochemistry, 2018, 123, 33-44.	8.8	54
88	Impact of elevated CO2 on grain nutrient concentration varies with crops and soils â€“ A long-term FACE study. Science of the Total Environment, 2019, 651, 2641-2647.	8.0	54
89	Effects of solution pH and bicarbonate on the growth and nodulation of a range of grain legume species. Plant and Soil, 1996, 186, 321-330.	3.7	53
90	Rhizobacteria (Pseudomonas sp. SB) assist phytoremediation of oily-sludge-contaminated soil by tall fescue (Testuca arundinacea L.). Plant and Soil, 2013, 371, 533-542.	3.7	52

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91	Microbial community dynamics in the rhizosphere of a cadmium hyper-accumulator. Scientific Reports, 2016, 6, 36067.	3.3	52
92	Tillage system affects phosphorus form and depth distribution in three contrasting Victorian soils. Soil Research, 2009, 47, 33.	1.1	51
93	Auxin modulates the enhanced development of root hairs in <i>Arabidopsis thaliana</i> (L.) Heynh. under elevated CO₂. Plant, Cell and Environment, 2011, 34, 1304-1317.	5.7	51
94	Growth, P uptake in grain legumes and changes in rhizosphere soil P pools. Biology and Fertility of Soils, 2012, 48, 151-159.	4.3	51
95	Ammonia-Oxidizing Archaea Show More Distinct Biogeographic Distribution Patterns than Ammonia-Oxidizing Bacteria across the Black Soil Zone of Northeast China. Frontiers in Microbiology, 2018, 9, 171.	3.5	51
96	Effect of phosphorus deficiency on the growth, symbiotic N2 fixation and proton release by two bean (Phaseolus vulgaris) genotypes. Agronomy for Sustainable Development, 2001, 21, 683-689.	0.8	51
97	In vivo speciation of zinc in Noccaea caerulescens in response to nitrogen form and zinc exposure. Plant and Soil, 2011, 348, 167-183.	3.7	50
98	Effect of elevated CO₂on phosphorus nutrition of phosphate-deficient<i>Arabidopsis thaliana</i>(L.) Heynh under different nitrogen forms. Journal of Experimental Botany, 2013, 64, 355-367.	4.8	50
99	Phosphorus application and elevated CO2 enhance drought tolerance in field pea grown in a phosphorus-deficient vertisol. Annals of Botany, 2015, 116, 975-985.	2.9	50
100	Long-term stabilization of crop residues and soil organic carbon affected by residue quality and initial soil pH. Science of the Total Environment, 2017, 587-588, 502-509.	8.0	50
101	Microscopic evidence on how iron deficiency limits nodule initiation in Lupinus angustifolius L.. New Phytologist, 1992, 121, 457-467.	7.3	49
102	Understanding subsoil acidification: effect of nitrogen transformation and nitrate leaching. Soil Research, 2000, 38, 837.	1.1	49
103	Biological amelioration of subsoil acidity through managing nitrate uptake by wheat crops. Plant and Soil, 2011, 338, 383-397.	3.7	49
104	The short-term effects of liming on organic carbon mineralisation in two acidic soils as affected by different rates and application depths of lime. Biology and Fertility of Soils, 2017, 53, 431-443.	4.3	49
105	Assembly of root-associated microbiomes of typical rice cultivars in response to lindane pollution. Environment International, 2019, 131, 104975.	10.0	49
106	Organic matter chemistry and bacterial community structure regulate decomposition processes in post-fire forest soils. Soil Biology and Biochemistry, 2021, 160, 108311.	8.8	49
107	Is there a critical level of shoot phosphorus concentration for cluster-root formation in Lupinus albus?. Functional Plant Biology, 2008, 35, 328.	2.1	47
108	Growth response to subsurface soil acidity of wheat genotypes differing in aluminium tolerance. Plant and Soil, 2001, 236, 1-10.	3.7	45

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109	Bioorganic Fertilizer Enhances Soil Suppressive Capacity against Bacterial Wilt of Tomato. PLoS ONE, 2015, 10, e0121304.	2.5	45
110	pH above 6.0 reduces nodulation in Lupinus species. Plant and Soil, 1993, 152, 269-276.	3.7	44
111	Organic anion-to-acid ratio influences pH change of soils differing in initial pH. Journal of Soils and Sediments, 2014, 14, 407-414.	3.0	44
112	Influence of nitrogen form on the phytoextraction of cadmium by a newly discovered hyperaccumulator Carpobrotus rossii. Environmental Science and Pollution Research, 2016, 23, 1246-1253.	5.3	43
113	Rice rhizodeposition promotes the build-up of organic carbon in soil via fungal necromass. Soil Biology and Biochemistry, 2021, 160, 108345.	8.8	43
114	Root-induced acidification and excess cation uptake by N2-fixing Lupinus albus grown in phosphorus-deficient soil. Plant and Soil, 2004, 260, 69-77.	3.7	42
115	Increased microbial activity contributes to phosphorus immobilization in the rhizosphere of wheat under elevated CO2. Soil Biology and Biochemistry, 2014, 75, 292-299.	8.8	42
116	Ammonium-based fertilizers enhance Cd accumulation in Carpobrotus rossii grown in two soils differing in pH. Chemosphere, 2017, 188, 689-696.	8.2	42
117	The growth of Lupinus species on alkaline soils. Australian Journal of Agricultural Research, 1995, 46, 255.	1.5	41
118	Transformations and availability of phosphorus in three contrasting soil types from native and farming systems: A study using fractionation and isotopic labeling techniques. Journal of Soils and Sediments, 2010, 10, 18-29.	3.0	41
119	Contribution of soluble and insoluble fractions of agricultural residues to short-term pH changes. European Journal of Soil Science, 2011, 62, 718-727.	3.9	41
120	Synchrotron-based X-ray absorption near-edge spectroscopy imaging for laterally resolved speciation of selenium in fresh roots and leaves of wheat and rice. Journal of Experimental Botany, 2015, 66, 4795-4806.	4.8	41
121	The fate of soybean residue-carbon links to changes of bacterial community composition in Mollisols differing in soil organic carbon. Soil Biology and Biochemistry, 2017, 109, 50-58.	8.8	41
122	The role of rhizosphere pH in regulating the rhizosphere priming effect and implications for the availability of soil-derived nitrogen to plants. Annals of Botany, 2018, 121, 143-151.	2.9	41
123	Differences in transport behavior of natural soil colloids of contrasting sizes from nanometer to micron and the environmental implications. Science of the Total Environment, 2018, 634, 802-810.	8.0	39
124	High pH Causes Disintegration of the Root Surface in Lupinus angustifolius L.. Annals of Botany, 1993, 71, 201-207.	2.9	38
125	Organic amendments initiate the formation and stabilisation of macroaggregates in a high clay sodic soil. Soil Research, 2009, 47, 770.	1.1	38
126	Nitrate leaching stimulates subsurface root growth of wheat and increases rhizosphere alkalisation in a highly acidic soil. Plant and Soil, 2010, 328, 119-132.	3.7	38

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127	Elevated CO2 temporally enhances phosphorus immobilization in the rhizosphere of wheat and chickpea. Plant and Soil, 2013, 368, 315-328.	3.7	38
128	Impacts of elevated CO2 on plant resistance to nutrient deficiency and toxic ions via root exudates: A review. Science of the Total Environment, 2021, 754, 142434.	8.0	38
129	Microorganisms in heavy metal bioremediation: strategies for applying microbial-community engineering to remediate soils. AIMS Bioengineering, 2016, 3, 211-229.	1.1	38
130	Nitric oxide enhances development of lateral roots in tomato (Solanum lycopersicum L.) under elevated carbon dioxide. Planta, 2013, 237, 137-144.	3.2	37
131	Contrasting effects of microplastics on sorption of diazepam and phenanthrene in soil. Journal of Hazardous Materials, 2021, 406, 124312.	12.4	37
132	The Effect of Nitrogen Nutrition on Cluster Root Formation and Proton Extrusion by Lupinus albus. Annals of Botany, 2002, 89, 435-442.	2.9	36
133	Nitrate nutrition enhances zinc hyperaccumulation in Noccaea caerulescens (Prayon). Plant and Soil, 2010, 336, 391-404.	3.7	36
134	Enrichment of soil fertility and salinity by tamarisk in saline soils on the northern edge of the Taklamakan Desert. Agricultural Water Management, 2010, 97, 1978-1986.	5.6	36
135	Elevated CO2 and temperature increase grain oil concentration but their impacts on grain yield differ between soybean and maize grown in a temperate region. Science of the Total Environment, 2019, 666, 405-413.	8.0	36
136	Pasture legume species differ in their capacity to acidify soil. Australian Journal of Agricultural Research, 1998, 49, 53.	1.5	36
137	Impact of nitrogen form on iron uptake and distribution in maize seedlings in solution culture. Plant and Soil, 2001, 235, 143-149.	3.7	35
138	Influence of phenolic acids on phosphorus mobilisation in acidic and calcareous soils. Plant and Soil, 2005, 268, 173-180.	3.7	35
139	Formation of cluster roots and citrate exudation by Lupinus albus in response to localized application of different phosphorus sources. Plant Science, 2007, 172, 1017-1024.	3.6	35
140	Phosphorus and magnesium interactively modulate the elongation and directional growth of primary roots in Arabidopsis thaliana (L.) Heynh. Journal of Experimental Botany, 2015, 66, 3841-3854.	4.8	35
141	Long-term effect of lime application on the chemical composition of soil organic carbon in acid soils varying in texture and liming history. Biology and Fertility of Soils, 2016, 52, 295-306.	4.3	35
142	Cadmium uptake by Carpobrotus rossii (Haw.) Schwantes under different saline conditions. Environmental Science and Pollution Research, 2016, 23, 13480-13488.	5.3	35
143	Residue addition and liming history interactively enhance mineralization of native organic carbon in acid soils. Biology and Fertility of Soils, 2017, 53, 61-75.	4.3	35
144	Nitrate supply and sulfate-reducing suppression facilitate the removal of pentachlorophenol in a flooded mangrove soil. Environmental Pollution, 2019, 244, 792-800.	7.5	34

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145	Factors affecting soil acidification under legumes. II. Effect of phosphorus supply. Australian Journal of Agricultural Research, 1998, 49, 657.	1.5	34
146	The role of iron in the (brady)<i>Rhizobium</i>legume symbiosis. Journal of Plant Nutrition, 1992, 15, 2235-2252.	1.9	33
147	Title is missing!. Plant and Soil, 2003, 254, 349-360.	3.7	33
148	Phosphorus Deficiency Delays the Onset of Nodule Function in Soybean. Journal of Plant Nutrition, 2007, 30, 1341-1353.	1.9	33
149	The role of hydraulic lift and subsoil P placement in P uptake of cotton (Gossypium hirsutum L.). Plant and Soil, 2009, 325, 263-275.	3.7	33
150	Deep placement of organic amendments in dense sodic subsoil increases summer fallow efficiency and the use of deep soil water by crops. Plant and Soil, 2012, 359, 57-69.	3.7	33
151	Australian native plant species Carpobrotus rossii (Haw.) Schwantes shows the potential of cadmium phytoremediation. Environmental Science and Pollution Research, 2014, 21, 9843-9851.	5.3	33
152	Long-term CO2 enrichment alters the diversity and function of the microbial community in soils with high organic carbon. Soil Biology and Biochemistry, 2020, 144, 107780.	8.8	33
153	Role of Phenolics and Organic Acids in Phosphorus Mobilization in Calcareous and Acidic Soils. Journal of Plant Nutrition, 2005, 28, 1427-1439.	1.9	32
154	Dynamic processes in conjunction with microbial response to disclose the biochar effect on pentachlorophenol degradation under both aerobic and anaerobic conditions. Journal of Hazardous Materials, 2020, 384, 121503.	12.4	32
155	Atmospheric nitric oxide stimulates plant growth and improves the quality of spinach (<i>Spinacia) Tj ETQq1 1 0.784314 rgBT /Overlock	2.5	31
156	Priming of soil organic carbon induced by sugarcane residues and its biochar control the source of nitrogen for plant uptake: A dual 13C and 15N isotope three-source-partitioning study. Soil Biology and Biochemistry, 2020, 146, 107792.	8.8	31
157	HISTOCHEMICAL VISUALIZATION OF PHOSPHATASE RELEASED BY ARBUSCULAR MYCORRHIZAL FUNGI IN SOIL. Journal of Plant Nutrition, 2002, 25, 1-1.	1.9	30
158	GENOTYPIC DIFFERENCE IN SEED IRON CONTENT AND EARLY RESPONSES TO IRON DEFICIENCY IN WHEAT. Journal of Plant Nutrition, 2002, 25, 1631-1643.	1.9	30
159	Genotypic Differences Among Plant Species in Response to Aluminum Stress. Journal of Plant Nutrition, 2005, 28, 949-961.	1.9	30
160	Free-air CO₂enrichment (FACE) reduces the inhibitory effect of soil nitrate on N₂fixation of<i>Pisum sativum</i>. Annals of Botany, 2016, 117, 177-185.	2.9	30
161	Soil Biogeochemical Cycle Couplings Inferred from a Function-Taxon Network. Research, 2021, 2021, 7102769.	5.7	30
162	Which stage of nodule initiation in Lupinus angustifolius L. is sensitive to iron deficiency?. New Phytologist, 1991, 117, 243-250.	7.3	29

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163	Inadequate iron supply and high bicarbonate impair the symbiosis of peanuts (Arachis hypogaea L.) with different Bradyrhizobium strains. Plant and Soil, 1991, 138, 159-168.	3.7	29
164	Subsurface Soil Acidification in Farming Systems: Its Possible Causes and Management Options. , 2013, , 389-412.		29
165	The responses of red clover (Trifolium pratense L.) to iron deficiency: a root Fe(III) chelate reductase. Plant Science, 2003, 164, 679-687.	3.6	28
166	Combined effects of waterlogging and salinity on electrochemistry, water-soluble cations and water dispersible clay in soils with various salinity levels. Plant and Soil, 2004, 264, 231-245.	3.7	28
167	Phosphorus deficiency does not enhance proton release by roots of soybean [Glycine max (L.) Murr.]. Environmental and Experimental Botany, 2009, 67, 228-234.	4.2	27
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