Chengrong Chen

List of Publications by Citations

176 papers	6,329 citations	46 h-index	70 g-index
181 ext. papers	7,660 ext. citations	5.5 avg, IF	6.13 L-index

#	Paper	IF	Citations
176	Soil Carbon Pools in Adjacent Natural and Plantation Forests of Subtropical Australia. *Soil Science Society of America Journal*, **2004**, 68, 282-291	2.5	188
175	Phosphorus dynamics in the rhizosphere of perennial ryegrass (Lolium perenne L.) and radiata pine (Pinus radiata D. Don.). *Soil Biology and Biochemistry*, **2002**, 34, 487-499	7.5	176
174	Seasonal changes in soil phosphorus and associated microbial properties under adjacent grassland and forest in New Zealand. *Forest Ecology and Management*, **2003**, 177, 539-557	3.9	170
173	Salt-affected soils, reclamation, carbon dynamics, and biochar: a review. *Journal of Soils and Sediments*, **2016**, 16, 939-953	3.4	161
172	Effects of afforestation on phosphorus dynamics and biological properties in a New Zealand grassland soil. *Plant and Soil*, **2000**, 220, 151-163	4.2	158
171	Roles of biochar in improving phosphorus availability in soils: A phosphate adsorbent and a source of available phosphorus. *Geoderma*, **2016**, 276, 1-6	6.7	154
170	The Australian three-dimensional soil grid: Australia's contribution to the GlobalSoilMap project. *Soil Research*, **2015**, 53, 845	1.8	146
169	Microbial composition and diversity of an upland red soil under long-term fertilization treatments as revealed by culture-dependent and culture-independent approaches. *Journal of Soils and Sediments*, **2008**, 8, 349-358	3.4	142
168	Impacts of grassland afforestation with coniferous trees on soil phosphorus dynamics and associated microbial processes: A review. *Forest Ecology and Management*, **2008**, 255, 396-409	3.9	136
167	Soil and Landscape Grid of Australia. *Soil Research*, **2015**, 53, 835	1.8	117
166	Global meta-analysis shows pervasive phosphorus limitation of aboveground plant production in natural terrestrial ecosystems. *Nature Communications*, **2020**, 11, 637	17.4	110
165	Effect of mulching on labile soil organic matter pools, microbial community functional diversity and nitrogen transformations in two hardwood plantations of subtropical Australia. *Applied Soil Ecology* , **2008**, 40, 229-239	5	105
164	Effect of feedstock and pyrolysis temperature on properties of biochar governing end use efficacy. *Biomass and Bioenergy*, **2017**, 105, 136-146	5.3	104
163	Warming and grazing affect soil labile carbon and nitrogen pools differently in an alpine meadow of the Qinghai□Tibet Plateau in China. *Journal of Soils and Sediments*, **2011**, 11, 903-914	3.4	103
162	Acid transformation of bauxite residue: Conversion of its alkaline characteristics. *Journal of Hazardous Materials*, **2017**, 324, 382-390	12.8	91
161	Digitally mapping the information content of visible□near infrared spectra of surficial Australian soils. *Remote Sensing of Environment*, **2011**, 115, 1443-1455	13.2	91
160	Soil carbon and nutrient pools, microbial properties and gross nitrogen transformations in adjacent natural forest and hoop pine plantations of subtropical Australia. *Journal of Soils and Sediments*, **2008**, 8, 99-105	3.4	89

159	Long-term nutrient inputs shift soil microbial functional profiles of phosphorus cycling in diverse agroecosystems. *ISME Journal*, **2020**, 14, 757-770	11.9	87
158	Effects of climate on soil phosphorus cycle and availability in natural terrestrial ecosystems. *Global Change Biology*, **2018**, 24, 3344-3356	11.4	85
157	Gross nitrogen transformations in adjacent native and plantation forests of subtropical Australia. *Soil Biology and Biochemistry*, **2007**, 39, 426-433	7.5	84
156	Soil microbial biomass, activity and community composition in adjacent native and plantation forests of subtropical Australia. *Journal of Soils and Sediments*, **2010**, 10, 1267-1277	3.4	83
155	Soil carbon and nitrogen pools and microbial properties in a 6-year-old slash pine plantation of subtropical Australia: impacts of harvest residue management. *Forest Ecology and Management*, **2005**, 206, 237-247	3.9	81
154	Warming and increased precipitation have differential effects on soil extracellular enzyme activities in a temperate grassland. *Science of the Total Environment*, **2013**, 444, 552-8	10.2	72
153	Phosphorus Speciation and Sorption-Desorption Characteristics in Heavily Manured Soils. *Soil Science Society of America Journal*, **2009**, 73, 93-101	2.5	71
152	Heavy metal behaviour at mineral-organo interfaces: Mechanisms, modelling and influence factors. *Environment International*, **2019**, 131, 104995	12.9	67
151	Changes in soil carbon during the establishment of a hardwood plantation in subtropical Australia. *Forest Ecology and Management*, **2008**, 254, 46-55	3.9	67
150	Abundance and community structure of ammonia-oxidizing bacteria and archaea in a temperate forest ecosystem under ten-years elevated CO2. *Soil Biology and Biochemistry*, **2012**, 46, 163-171	7.5	65
149	Aged acidic biochar increases nitrogen retention and decreases ammonia volatilization in alkaline bauxite residue sand. *Ecological Engineering*, **2017**, 98, 157-165	3.9	65
148	Fertiliser-induced nitrous oxide emissions from vegetable production in the world and the regulating factors: A review. *Atmospheric Environment*, **2015**, 112, 225-233	5.3	63
147	Impacts of greenwaste biochar on ammonia volatilisation from bauxite processing residue sand. *Plant and Soil*, **2013**, 367, 301-312	4.2	62
146	Soil extractable carbon and nitrogen, microbial biomass and microbial metabolic activity in response to warming and increased precipitation in a semiarid Inner Mongolian grassland. *Geoderma*, **2013**, 206, 24-31	6.7	61
145	Analysis and behavior of soluble organic nitrogen in forest soils. *Journal of Soils and Sediments*, **2008**, 8, 363-378	3.4	61
144	Soluble Organic Nitrogen Pools in Forest soils of Subtropical Australia. *Plant and Soil*, **2005**, 277, 285-297	4.2	60
143	Changes in δ15N in a soil–plant system under different biochar feedstocks and application rates. *Biology and Fertility of Soils*, **2014**, 50, 275-283	6.1	58
142	Soil environmental factors rather than denitrification gene abundance control N2O fluxes in a wet sclerophyll forest with different burning frequency. *Soil Biology and Biochemistry*, **2013**, 57, 292-300	7.5	57

141	Soil microbial community structure and diversity are largely influenced by soil pH and nutrient quality in 78-year-old tree plantations. *Biogeosciences*, **2017**, 14, 2101-2111	4.6	56
140	Abundance and community structure of ammonia oxidizing bacteria and archaea in a Sweden boreal forest soil under 19-year fertilization and 12-year warming. *Journal of Soils and Sediments*, **2012**, 12, 1124-1133	3.4	56
139	Long term repeated burning in a wet sclerophyll forest reduces fungal and bacterial biomass and responses to carbon substrates. *Soil Biology and Biochemistry*, **2008**, 40, 2246-2252	7.5	56
138	The phosphorus-rich signature of fire in the soil-plant system: a global meta-analysis. *Ecology Letters*, **2018**, 21, 335-344	10	54
137	Stoichiometric ratio of dissolved organic carbon to nitrate regulates nitrous oxide emission from the biochar-amended soils. *Science of the Total Environment*, **2017**, 576, 559-571	10.2	52
136	Warming and grazing increase mineralization of organic P in an alpine meadow ecosystem of Qinghai-Tibet Plateau, China. *Plant and Soil*, **2012**, 357, 73-87	4.2	52
135	Citric acid enhances the mobilization of organic phosphorus in subtropical and tropical forest soils. *Biology and Fertility of Soils*, **2010**, 46, 765-769	6.1	48
134	Effects of plant species on microbial biomass phosphorus and phosphatase activity in a range of grassland soils. *Biology and Fertility of Soils*, **2004**, 40, 313-322	6.1	48
133	Soil phosphorus fractionation and nutrient dynamics along the Cooloola coastal dune chronosequence, southern Queensland, Australia. *Geoderma*, **2015**, 257-258, 4-13	6.7	46
132	Soil microbial biomass during the early establishment of hoop pine plantation: seasonal variation and impacts of site preparation. *Forest Ecology and Management*, **2003**, 186, 213-225	3.9	46
131	High-frequency fire alters C : N : P stoichiometry in forest litter. *Global Change Biology*, **2014**, 20, 2321-31	11.4	44
130	Linking soil bacterial diversity to ecosystem multifunctionality using backward-elimination boosted trees analysis. *Journal of Soils and Sediments*, **2009**, 9, 547-554	3.4	43
129	Using light fraction and macroaggregate associated organic matters as early indicators for management-induced changes in soil chemical and biological properties in adjacent native and plantation forests of subtropical Australia. *Geoderma*, **2008**, 147, 116-125	6.7	43
128	Long-term frequent prescribed fire decreases surface soil carbon and nitrogen pools in a wet sclerophyll forest of Southeast Queensland, Australia. *Science of the Total Environment*, **2015**, 536, 39-47	10.2	41
127	Soluble organic nitrogen pools in adjacent native and plantation forests of subtropical Australia. *Soil Biology and Biochemistry*, **2007**, 39, 2723-2734	7.5	40
126	Effects of plant species on phosphorus availability in a range of grassland soils. *Plant and Soil*, **2003**, 256, 115-130	4.2	40
125	Mineralisation of soil orthophosphate monoesters under pine seedlings and ryegrass. *Soil Research*, **2004**, 42, 189	1.8	39
124	A preliminary assessment of the potential of using an acacia--biochar system for spent mine site rehabilitation. *Environmental Science and Pollution Research*, **2015**, 22, 2138-44	5.1	38

123	Phosphatase activity in relation to key litter and soil properties in mature subtropical forests in China. *Science of the Total Environment*, **2015**, 515-516, 83-91	10.2	36
122	Soil soluble organic nitrogen and active microbial characteristics under adjacent coniferous and broadleaf plantation forests. *Journal of Soils and Sediments*, **2010**, 10, 748-757	3.4	36
121	Effects of nitrogen fertilization on soil nitrogen pools and microbial properties in a hoop pine (Araucaria cunninghamii) plantation in southeast Queensland, Australia. *Biology and Fertility of Soils* , **2002**, 36, 276-283	6.1	35
120	Effects of single and mixed species forest ecosystems on diversity and function of soil microbial community in subtropical China. *Journal of Soils and Sediments*, **2012**, 12, 228-240	3.4	34
119	Characterization of phosphorus availability in selected New Zealand grassland soils. *Nutrient Cycling in Agroecosystems*, **2003**, 65, 89-100	3.3	34
118	Quantification and bioavailability of scyllo-inositol hexakisphosphate in pasture soils. *Soil Biology and Biochemistry*, **2005**, 37, 2155-2158	7.5	34
117	Soil pH predominantly controls the forms of organic phosphorus in topsoils under natural broadleaved forests along a 2500 km latitudinal gradient. *Geoderma*, **2018**, 315, 65-74	6.7	34
116	Phosphorus availability and rice grain yield in a paddy soil in response to long-term fertilization. *Biology and Fertility of Soils*, **2012**, 48, 579-588	6.1	33
115	Behaviour and dynamics of di-ammonium phosphate in bauxite processing residue sand in Western Australia--I. NH3 volatilisation and residual nitrogen availability. *Environmental Science and Pollution Research*, **2010**, 17, 1098-109	5.1	33
114	Total soluble nitrogen in forest soils as determined by persulfate oxidation and by high temperature catalytic oxidation. *Soil Research*, **2005**, 43, 515	1.8	33
113	Sediment nitrogen cycling rates and microbial abundance along a submerged vegetation gradient in a eutrophic lake. *Science of the Total Environment*, **2018**, 616-617, 899-907	10.2	33
112	Soil quality and vegetation performance indicators for sustainable rehabilitation of bauxite residue disposal areas: a review. *Soil Research*, **2019**, 57, 419	1.8	32
111	Soil labile carbon and nitrogen pools and microbial metabolic diversity under winter crops in an arid environment. *Applied Soil Ecology*, **2012**, 53, 49-55	5	32
110	A structural equation model analysis of phosphorus transformations in global unfertilized and uncultivated soils. *Global Biogeochemical Cycles*, **2016**, 30, 1300-1309	5.9	31
109	Fungal communities and functions response to long-term fertilization in paddy soils. *Applied Soil Ecology*, **2018**, 130, 251-258	5	31
108	Vertical and horizontal assemblage patterns of bacterial communities in a eutrophic river receiving domestic wastewater in southeast China. *Environmental Pollution*, **2017**, 230, 469-478	9.3	31
107	Surface charge characteristics and sorption properties of bauxite-processing residue sand. *Soil Research*, **2010**, 48, 77	1.8	30
106	Impact of global climate change and fire on the occurrence and function of understorey legumes in forest ecosystems. *Journal of Soils and Sediments*, **2012**, 12, 150-160	3.4	29

105	Spatial and temporal dynamics of nutrients in riparian soils after nine years of operation of the Three Gorges Reservoir, China. *Science of the Total Environment*, **2019**, 664, 841-850	10.2	28
104	The spatial factor, rather than elevated CO_2 controls the soil bacterial community in a temperate Forest Ecosystem. *Applied and Environmental Microbiology*, **2010**, 76, 7429-36	4.8	28
103	Responses of soil dissolved organic matter to long-term plantations of three coniferous tree species. *Geoderma*, **2012**, 170, 136-143	6.7	26
102	Long term repeated fire disturbance alters soil bacterial diversity but not the abundance in an Australian wet sclerophyll forest. *Scientific Reports*, **2016**, 6, 19639	4.9	26
101	Assessment of NO emissions from a fertilised vegetable cropping soil under different plant residue management strategies using N tracing techniques. *Science of the Total Environment*, **2017**, 598, 479-487	10.2	25
100	Solubility of phosphorus in subtropical forest soils as influenced by low-molecular organic acids and key soil properties. *Geoderma*, **2018**, 313, 172-180	6.7	25
99	Biochar nutrient availability rather than its water holding capacity governs the growth of both C3 and C4 plants. *Journal of Soils and Sediments*, **2016**, 16, 801-810	3.4	24
98	Prescribed fire alters foliar stoichiometry and nutrient resorption in the understorey of a subtropical eucalypt forest. *Plant and Soil*, **2017**, 410, 181-191	4.2	24
97	Soil soluble organic carbon and nitrogen pools under mono- and mixed species forest ecosystems in subtropical China. *Journal of Soils and Sediments*, **2010**, 10, 1071-1081	3.4	24
96	On the Nature and Ecological Functions of Soil Soluble Organic Nitrogen (SON) in Forest Ecosystems. *Journal of Soils and Sediments*, **2006**, 6, 63-66	3.4	24
95	Nutrient limitation on ecosystem productivity and processes of mature and old-growth subtropical forests in China. *PLoS ONE*, **2012**, 7, e52071	3.7	24
94	Differences in nitrate and phosphorus export between wooded and grassed riparian zones from farmland to receiving waterways under varying rainfall conditions. *Science of the Total Environment*, **2017**, 598, 188-197	10.2	23
93	Symbiotic nitrogen fixation and soil N availability under legume crops in an arid environment. *Journal of Soils and Sediments*, **2011**, 11, 762-770	3.4	23
92	Assessing management impacts on soil organic matter quality in subtropical Australian forests using physical and chemical fractionation as well as 13C NMR spectroscopy. *Soil Biology and Biochemistry*, **2009**, 41, 640-650	7.5	23
91	Carbon/nitrogen ratio as a major factor for predicting the effects of organic wastes on soil bacterial communities assessed by DNA-based molecular techniques. *Environmental Science and Pollution Research*, **2010**, 17, 807-15	5.1	23
90	Precipitation overrides warming in mediating soil nitrogen pools in an alpine grassland ecosystem on the Tibetan Plateau. *Scientific Reports*, **2016**, 6, 31438	4.9	22
89	Relationships of phosphorus fractions to organic carbon content in surface soils in mature subtropical forests, Dinghushan, China. *Soil Research*, **2014**, 52, 55	1.8	22
88	Dynamics of soil extractable carbon and nitrogen under different cover crop residues. *Journal of Soils and Sediments*, **2012**, 12, 844-853	3.4	21

87	Effects of warming and increased precipitation on soil carbon mineralization in an Inner Mongolian grassland after 6 years of treatments. *Biology and Fertility of Soils*, **2012**, 48, 859-866	6.1	20
86	Root, rhizosphere and root-free respiration in soils under grassland and forest plants. *European Journal of Soil Science*, **2006**, 57, 58-66	3.4	20
85	Vertical Distribution of Soil Denitrifying Communities in a Wet Sclerophyll Forest under Long-Term Repeated Burning. *Microbial Ecology*, **2015**, 70, 993-1003	4.4	19
84	Plant-available nitrogen supply from granulated biosolids: implications for land application guidelines. *Soil Research*, **2008**, 46, 423	1.8	19
83	Soil organic matter dynamics and nitrogen availability in response to site preparation and management during revegetation in tropical Central Queensland, Australia. *Journal of Soils and Sediments*, **2012**, 12, 386-395	3.4	18
82	Appraisal of 15N enrichment and 15N natural abundance methods for estimating N2 fixation by understorey Acacia leiocalyx and A. disparimma in a native forest of subtropical Australia. *Journal of Soils and Sediments*, **2012**, 12, 653-662	3.4	18
81	The effect of low-molecular-weight organic acids and inorganic phosphorus concentration on the determination of soil phosphorus by the molybdenum blue reaction. *Biology and Fertility of Soils*, **2009**, 45, 775-779	6.1	18
80	Effects of land-use change from grassland to forest on soil sulfur and arylsulfatase activity in New Zealand. *Soil Research*, **2001**, 39, 749	1.8	18
79	Uptake of organic nitrogen and preference for inorganic nitrogen by two Australian native Araucariaceae species. *Plant Ecology and Diversity*, **2015**, 8, 259-264	2.2	17
78	Shifts in the abundance and community structure of soil ammonia oxidizers in a wet sclerophyll forest under long-term prescribed burning. *Science of the Total Environment*, **2014**, 470-471, 578-86	10.2	17
77	Soil nitrogen mineralization and fate of (15NH4)2SO4 in field-incubated soil in a hardwood plantation of subtropical Australia: the effect of mulching. *Journal of Soils and Sediments*, **2008**, 8, 389-397	3.4	17
76	Shifts in characteristics of the plant-soil system associated with flooding and revegetation in the riparian zone of Three Gorges Reservoir, China. *Geoderma*, **2020**, 361, 114015	6.7	17
75	Within-lake variability and environmental controls of sediment denitrification and associated N2O production in a shallow eutrophic lake. *Ecological Engineering*, **2016**, 97, 251-257	3.9	17
74	A novel approach of combining isotopic and geochemical signatures to differentiate the sources of sediments and particulate nutrients from different land uses. *Science of the Total Environment*, **2019**, 655, 129-140	10.2	17
73	Linking feedstock and application rate of biochars to N2O emission in a sandy loam soil: Potential mechanisms. *Geoderma*, **2019**, 337, 880-892	6.7	17
72	The stoichiometric legacy of fire regime regulates the roles of micro-organisms and invertebrates in decomposition. *Ecology*, **2019**, 100, e02732	4.6	16
71	Cadmium adsorption on bacteria–mineral mixtures: effect of naturally occurring ligands. *European Journal of Soil Science*, **2016**, 67, 641-649	3.4	16
70	The short-term cover crops increase soil labile organic carbon in southeastern Australia. *Biology and Fertility of Soils*, **2012**, 48, 239-244	6.1	16

69	Short-term effects of prescribed burning on phosphorus availability in a suburban native forest of subtropical Australia. *Journal of Soils and Sediments*, **2013**, 13, 869-876	3.4	16
68	Fire alters soil labile stoichiometry and litter nutrients in Australian eucalypt forests. *International Journal of Wildland Fire*, **2017**, 26, 783	3.2	15
67	Subsoil application of compost improved sugarcane yield through enhanced supply and cycling of soil labile organic carbon and nitrogen in an acidic soil at tropical Australia. *Soil and Tillage Research*, **2018**, 180, 73-81	6.5	15
66	Non-additive effects of mixing different sources of dissolved organic matter on its biodegradation. *Soil Biology and Biochemistry*, **2014**, 78, 160-169	7.5	15
65	Selecting a nitrogen availability index for understanding plant nutrient dynamics in rehabilitated bauxite-processing residue sand. *Ecological Engineering*, **2013**, 58, 228-237	3.9	15
64	Responses of labile soil organic carbon and nitrogen pools to long-term prescribed burning regimes in a wet sclerophyll forest of southeast Queensland, Australia. *Science of the Total Environment*, **2019**, 647, 110-120	10.2	14
63	Rhizosphere effects on soil nutrient dynamics and microbial activity in an Australian tropical lowland rainforest. *Soil Research*, **2011**, 49, 652	1.8	14
62	Mineral nitrogen dynamics following soil compaction and cultivation during hoop pine plantation establishment. *Forest Ecology and Management*, **2005**, 204, 131-137	3.9	14
61	Latitudinal patterns of terrestrial phosphorus limitation over the globe. *Ecology Letters*, **2021**, 24, 1420-1431	14	14
60	Revegetation affects soil denitrifying communities in a riparian ecotone. *Ecological Engineering*, **2017**, 103, 256-263	3.9	13
59	Temporal dynamics of carbon and nitrogen in the surface soil and forest floor under different prescribed burning regimes. *Forest Ecology and Management*, **2016**, 382, 110-119	3.9	13
58	Balanced nutrient stoichiometry of organic amendments enhances carbon priming in a poorly structured sodic subsoil. *Soil Biology and Biochemistry*, **2020**, 145, 107800	7.5	12
57	Behaviour and dynamics of di-ammonium phosphate in bauxite processing residue sand in Western Australia--II. Phosphorus fractions and availability. *Environmental Science and Pollution Research*, **2010**, 17, 1110-8	5.1	12
56	Environmental factors, but not abundance and diversity of nitrifying microorganisms, explain sediment nitrification rates in Yangtze lakes.. *RSC Advances*, **2018**, 8, 1875-1883	3.7	11
55	Linking chemical and biochemical composition of plant materials to their effects on N2O emissions from a vegetable soil. *Soil Biology and Biochemistry*, **2016**, 103, 502-511	7.5	11
54	Plant phosphorus availability index in rehabilitated bauxite-processing residue sand. *Plant and Soil*, **2014**, 374, 565-578	4.2	11
53	Molecular composition of recycled organic wastes, as determined by solid-state 13C NMR and elemental analyses. *Waste Management*, **2013**, 33, 2157-69	8.6	11
52	Strategies to mitigate greenhouse gas emissions in intensively managed vegetable cropping systems in subtropical Australia. *Soil Research*, **2015**, 53, 475	1.8	10

51	High pyrolysis temperature biochars reduce nitrogen availability and nitrous oxide emissions from an acid soil. *GCB Bioenergy*, **2018**, 10, 930-945	5.6	10
50	Genotype and slope position control on the availability of soil soluble organic nitrogen in tea plantations. *Biogeochemistry*, **2011**, 103, 245-261	3.8	10
49	Effects of inundation and stranding on leaf litter decomposition and chemical transformation. *Aquatic Sciences*, **2018**, 80, 1	2.5	10
48	Forms of Nitrogen Alter Plant Phosphorus Uptake and Pathways in Rehabilitated Highly Alkaline Bauxite Processing Residue Sand. *Land Degradation and Development*, **2017**, 28, 628-637	4.4	9
47	Transformation and plant uptake of 15N-labeled fertilizers mediated by ammonia-oxidizing bacteria in alkaline bauxite-processing residue sand amended with greenwaste compost. *Ecological Engineering*, **2015**, 74, 68-78	3.9	9
46	Short-term contributions of cover crop surface residue return to soil carbon and nitrogen contents in temperate Australia. *Environmental Science and Pollution Research*, **2016**, 23, 23175-23183	5.1	9
45	Energetic efficiency and temperature sensitivity of soil heterotrophic respiration vary with decadal-scale fire history in a wet sclerophyll forest. *Soil Biology and Biochemistry*, **2019**, 134, 62-71	7.5	8
44	Factors driving low oxygen conditions in integrated rice-shrimp ponds. *Aquaculture*, **2019**, 512, 734315	4.4	8
43	Ethylene rather than dissolved organic carbon controls methane uptake in upland soils. *Global Change Biology*, **2014**, 20, 2379-80	11.4	8
42	Effects of amendments and fertilization on plant growth, nitrogen and phosphorus availability in rehabilitated highly alkaline bauxite-processing residue sand. *Soil Use and Management*, **2014**, 30, n/a-n/a	3.1	8
41	Soil organic matter formation is controlled by the chemistry and bioavailability of organic carbon inputs across different land uses. *Science of the Total Environment*, **2021**, 770, 145307	10.2	8
40	Biochar amendment and water stress alter rhizosphere carbon and nitrogen budgets in bauxite-processing residue sand under rehabilitation. *Journal of Environmental Management*, **2019**, 230, 446-455	7.9	8
39	Plant available N supply and recalcitrant C from organic soil amendments applied to a clay loam soil have correlations with amendment chemical composition. *Geoderma*, **2017**, 294, 50-62	6.7	7
38	Stoichiometric control on riparian wetland carbon and nutrient dynamics under different land uses. *Science of the Total Environment*, **2019**, 697, 134127	10.2	7
37	Rhizosphere management by biochar and leaching improved plant performance in fresh bauxite residue sand. *Journal of Cleaner Production*, **2019**, 219, 66-74	10.3	7
36	Shifts in leaf nitrogen to phosphorus ratio of Lolium rigidum grown in highly alkaline bauxite-processing residue sand with differing age of rehabilitation and amendments. *Ecological Indicators*, **2015**, 57, 32-40	5.8	7
35	Aggregational differentiation of ureolytic microbes in an Ultisol under long-term organic and chemical fertilizations. *Science of the Total Environment*, **2020**, 716, 137103	10.2	7
34	Direct uptake and rapid decrease of organic nitrogen by Wollemia nobilis. *Biology and Fertility of Soils*, **2013**, 49, 1247-1252	6.1	7

33	Soil carbon and nitrogen dynamics in the first year following herbicide and scalping in a revegetation trial in south-east Queensland, Australia. *Environmental Science and Pollution Research*, **2014**, 21, 5167-76	5.1	7
32	Effects of pre-planting site management on soil organic matter and microbial community functional diversity in subtropical Australia. *Applied Soil Ecology*, **2012**, 62, 31-36	5	7
31	Hot water extractable phosphorus pools as indicators of soil P responses to harvest residue management in an exotic pine plantation of subtropical Australia. *Journal of Soils and Sediments*, **2013**, 13, 1573-1578	3.4	7
30	Warming rather than increased precipitation increases soil recalcitrant organic carbon in a semiarid grassland after 6 years of treatments. *PLoS ONE*, **2013**, 8, e53761	3.7	7
29	Plant–soil interaction affects the mineralization of soil organic carbon: evidence from 73-year-old plantations with three coniferous tree species in subtropical Australia. *Journal of Soils and Sediments*, **2017**, 17, 985-995	3.4	6
28	Role of oxygen-containing functional groups in forest fire-generated and pyrolytic chars for immobilization of copper and nickel. *Environmental Pollution*, **2017**, 220, 946-954	9.3	6
27	Bioavailability and eco-toxicity of heavy metals in chars produced from municipal sewage sludge decreased during pyrolysis and hydrothermal carbonization. *Ecological Engineering*, **2021**, 162, 106173	3.9	6
26	Aged biochar alters nitrogen pathways in bauxite-processing residue sand: Environmental impact and biogeochemical mechanisms. *Environmental Pollution*, **2019**, 247, 438-446	9.3	6
25	Evaluating the mechanisms of the impacts of key factors on soil soluble organic nitrogen concentrations in subtropical mountain ecosystems. *Science of the Total Environment*, **2019**, 651, 2187-2196	10.2	6
24	Biotic and abiotic controls on nitrogen leaching losses into waterways during successive bovine urine application to soil. *Journal of Environmental Management*, **2016**, 176, 11-20	7.9	5
23	Liming improves soil microbial growth, but trash blanket placement increases labile carbon and nitrogen availability in a sugarcane soil of subtropical Australia. *Soil Research*, **2018**, 56, 235	1.8	5
22	Seasonal nutrient cycling in integrated rice-shrimp ponds. *Marine Pollution Bulletin*, **2019**, 149, 110647	6.7	5
21	Temporal Changes Rather than Long-Term Repeated Burning Predominately Control the Shift in the Abundance of Soil Denitrifying Community in an Australian Sclerophyll Forest. *Microbial Ecology*, **2017**, 73, 177-187	4.4	5
20	Shifts in leaf N:P stoichiometry during rehabilitation in highly alkaline bauxite processing residue sand. *Scientific Reports*, **2015**, 5, 14811	4.9	5
19	Pathways of different forms of nitrogen and role of ammonia-oxidizing bacteria in alkaline residue sand from bauxite processing. *European Journal of Soil Science*, **2015**, 66, 942-950	3.4	5
18	Influence of storage and drying methods on invertebrate elemental and isotopic measurements. *Communications in Soil Science and Plant Analysis*, **2018**, 49, 2231-2237	1.5	4
17	Technical note: Manipulating interactions between plant stress responses and soil methane oxidation rates. *Biogeosciences*, **2018**, 15, 4125-4129	4.6	4
16	The multi-element stoichiometry of wet eucalypt forest is transformed by recent, frequent fire. *Plant and Soil*, **2020**, 447, 447-461	4.2	4

15	High-frequency fire alters soil and plant chemistry but does not lead to nitrogen-limited growth of Eucalyptus pilularis seedlings. *Plant and Soil*, **2018**, 432, 191-205	4.2	4
14	Effects of biochar application on soil nitrogen transformation, microbial functional genes, enzyme activity, and plant nitrogen uptake: A meta-analysis of field studies. *GCB Bioenergy*, **2021**, 13, 1859	5.6	4
13	Modeling the effects of tree species and incubation temperature on soil's extracellular enzyme activity in 78-year-old tree plantations. *Biogeosciences*, **2017**, 14, 5393-5402	4.6	3
12	Vertical distribution of soil extractable organic C and N contents and total C and N stocks in 78-year-old tree plantations in subtropical Australia. *Environmental Science and Pollution Research*, **2017**, 24, 22312-22320	5.1	3
11	Differential uptake of soluble organic and inorganic nitrogen by two fruit species: Dimocarpus longan Lour. and Eriobotrya japonica Lindl.. *Journal of Soils and Sediments*, **2017**, 17, 1579-1587	3.4	3
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