

Experimental evaluation of methods to quantify dissolved organic carbon (DOC) in soil

Soil Biology and Biochemistry

38, 991-999

DOI: [10.1016/j.soilbio.2005.08.012](https://doi.org/10.1016/j.soilbio.2005.08.012)

Citation Report

#	ARTICLE	IF	CITATIONS
5	Dissolved organic nitrogen and carbon in pastoral soils: the New Zealand experience. <i>European Journal of Soil Science</i> , 2007, 58, 832-843.	1.8	63
6	Seasonal dynamics of carbon and nitrogen pools and fluxes under continuous arable and ley-arable rotations in a temperate environment. <i>European Journal of Soil Science</i> , 2007, 58, 1410-1424.	1.8	48
7	Microbial response time to sugar and amino acid additions to soil. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2178-2182.	4.2	93
8	Soluble organic nitrogen pools in adjacent native and plantation forests of subtropical Australia. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2723-2734.	4.2	43
9	Carbohydrate and amino acid composition of dissolved organic matter leached from soil. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2926-2935.	4.2	126
10	Indices of dissolved organic nitrogen, ammonium and nitrate across productivity gradients of boreal forests. <i>Soil Biology and Biochemistry</i> , 2007, 39, 3147-3158.	4.2	67
11	Free amino sugar reactions in soil in relation to soil carbon and nitrogen cycling. <i>Soil Biology and Biochemistry</i> , 2007, 39, 3081-3092.	4.2	74
12	Root exudate components change litter decomposition in a simulated rhizosphere depending on temperature. <i>Plant and Soil</i> , 2007, 290, 293-305.	1.8	182
13	Dissolved organic carbon affects soil microbial activity and nitrogen dynamics in a Mexican tropical deciduous forest. <i>Plant and Soil</i> , 2007, 295, 265-277.	1.8	90
14	Analysis and behavior of soluble organic nitrogen in forest soils. <i>Journal of Soils and Sediments</i> , 2008, 8, 363-378.	1.5	72
15	Critical evaluation of methods for determining total protein in soil solution. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1485-1495.	4.2	90
16	Nutrient dynamics in mangrove crab burrow sediments subjected to anthropogenic input. <i>Journal of Sea Research</i> , 2008, 59, 103-113.	0.6	33
17	The Beneficial Effect of Mycorrhizae on N Utilization by the Host-Plant: Myth or Reality?. , 2008, , 209-240.		7
18	Improved RP-HPLC and anion-exchange chromatography methods for the determination of amino acids and carbohydrates in soil solutions. <i>Journal of Plant Nutrition and Soil Science</i> , 2008, 171, 917-926.	1.1	24
19	Estimating the Impact of Seawater on the Production of Soil Water-Extractable Organic Carbon during Coastal Erosion. <i>Journal of Environmental Quality</i> , 2008, 37, 2368-2374.	1.0	29
20	Short-Term Changes in Extractable Inorganic Nutrients during Storage of Tropical Rain Forest Soils. <i>Soil Science Society of America Journal</i> , 2009, 73, 1972-1979.	1.2	86
21	Resilience of soil microbial activity and of amino acid dynamics to the removal of plant carbon inputs during winter. <i>Scientia Agricola</i> , 2009, 66, 132-135.	0.6	2
22	Characterization of the water soluble soil organic pool following the rewetting of dry soil in a drought-prone tallgrass prairie. <i>Soil Biology and Biochemistry</i> , 2009, 41, 21-28.	4.2	77

#	ARTICLE	IF	CITATIONS
23	Extractable and dissolved soil organic nitrogen – A quantitative assessment. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1029-1039.	4.2	106
24	Soil amino acid composition across a boreal forest successional sequence. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1210-1220.	4.2	84
25	Soil CO ₂ efflux and extractable organic carbon fractions under simulated precipitation events in a Mediterranean Dehesa. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1915-1922.	4.2	66
26	Substrate mineralization studies in the laboratory show different microbial C partitioning dynamics than in the field. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1951-1956.	4.2	41
27	Atmospheric nitrogen deposition in south-east Scotland: Quantification of the organic nitrogen fraction in wet, dry and bulk deposition. <i>Atmospheric Environment</i> , 2009, 43, 4087-4094.	1.9	52
28	Biodegradability of soil water soluble organic carbon extracted from seven different soils. <i>Journal of Environmental Sciences</i> , 2009, 21, 641-646.	3.2	43
29	Spatial variability of soil properties under <i>Pinus canariensis</i> canopy in two contrasting soil textures. <i>Plant and Soil</i> , 2009, 322, 139-150.	1.8	33
30	Spatial pattern and scale of soil N and P fractions under the influence of a leguminous shrub in a <i>Pinus canariensis</i> forest. <i>Geoderma</i> , 2009, 151, 303-310.	2.3	33
31	Soil organic nitrogen mineralization across a global latitudinal gradient. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	140
32	Bioavailability of terrestrial organic carbon to lake bacteria: The case of a degrading subarctic permafrost mire complex. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	67
33	Microbial activity in contrasting conditions of soil C and N availability in a tropical dry forest. <i>Journal of Tropical Ecology</i> , 2009, 25, 401-413.	0.5	9
34	Dissolved Organic Nitrogen: An Overlooked Pathway of Nitrogen Loss from Agricultural Systems?. <i>Journal of Environmental Quality</i> , 2009, 38, 393-401.	1.0	191
35	Methods for determination of labile soil organic matter: An overview. <i>Journal of Agrobiology</i> , 2010, 27, 49-60.	0.2	78
36	Soil Labile Organic Carbon With Different Land Uses in Reclaimed Land Area From Taihu Lake. <i>Soil Science</i> , 2010, 175, 624-630.	0.9	6
37	Alternative Methods for Measuring Inorganic, Organic, and Total Dissolved Nitrogen in Soil. <i>Soil Science Society of America Journal</i> , 2010, 74, 1018-1027.	1.2	273
38	Microbial biomass, and dissolved organic carbon and nitrogen strongly affect soil respiration in different land uses: A case study at Three Gorges Reservoir Area, South China. <i>Agriculture, Ecosystems and Environment</i> , 2010, 137, 294-307.	2.5	163
39	Soil soluble organic nitrogen and active microbial characteristics under adjacent coniferous and broadleaf plantation forests. <i>Journal of Soils and Sediments</i> , 2010, 10, 748-757.	1.5	46
40	Soil soluble organic carbon and nitrogen pools under mono- and mixed species forest ecosystems in subtropical China. <i>Journal of Soils and Sediments</i> , 2010, 10, 1071-1081.	1.5	34

#	ARTICLE	IF	CITATIONS
41	Seasonal variation of water extractable aluminium forms in acidified forest organic soils under different vegetation cover. <i>Biogeochemistry</i> , 2010, 101, 151-163.	1.7	24
42	Dynamics of the water extractable organic carbon pool during mineralisation in soils from a Douglas fir plantation and an oak-beech forest—an incubation experiment. <i>Plant and Soil</i> , 2010, 330, 465-479.	1.8	12
43	Plant phenology and life span influence soil pool dynamics: <i>Bromus tectorum</i> invasion of perennial C3&C4 grass communities. <i>Plant and Soil</i> , 2010, 335, 255-269.	1.8	41
44	Plants and biological soil crusts modulate the dominance of N forms in a semi-arid grassland. <i>Soil Biology and Biochemistry</i> , 2010, 42, 376-378.	4.2	48
45	Dynamics of dissolved and extractable organic nitrogen upon soil amendment with crop residues. <i>Soil Biology and Biochemistry</i> , 2010, 42, 2094-2101.	4.2	23
46	Nitrogen compounds in soil solutions of agricultural land. <i>Soil Biology and Biochemistry</i> , 2010, 42, 2325-2330.	4.2	90
47	$\delta^{15}\text{N}$ of soil N and plants in a N-saturated, subtropical forest of southern China. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2499-2506.	0.7	39
48	Dissolved organic matter leaching in some contrasting New Zealand pasture soils. <i>European Journal of Soil Science</i> , 2010, 61, 525-538.	1.8	36
49	Conversion of Wheat&Maize to Vegetable Cropping Systems Changes Soil Organic Matter Characteristics. <i>Soil Science Society of America Journal</i> , 2010, 74, 1320-1326.	1.2	29
50	Variation of Soil Respiration from Different Land Uses in Subtropical Agricultural Soils, Central China. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	0
51	Dissolved soil organic carbon and nitrogen were affected by conversion of native forests to plantations in subtropical China. <i>Canadian Journal of Soil Science</i> , 2010, 90, 27-36.	0.5	62
52	Assessing soluble organic nitrogen pools in horticultural soils: a case study in the suburbs of Shanghai (China). <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2010, 60, 529-538.	0.3	1
53	Initial soil responses to experimental warming in two contrasting forest ecosystems, Eastern Tibetan Plateau, China: Nutrient availabilities, microbial properties and enzyme activities. <i>Applied Soil Ecology</i> , 2010, 46, 291-299.	2.1	75
54	Dynamics of Nitrogen Speciation in Horticultural Soils in Suburbs of Shanghai, China. <i>Pedosphere</i> , 2010, 20, 261-272.	2.1	27
55	Autotrophic and heterotrophic contributions to short-term soil CO_2 efflux following simulated summer precipitation pulses in a Mediterranean dehesa. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	51
56	Riparian soil temperature modification of the relationship between flow and dissolved organic carbon concentration in a boreal stream. <i>Water Resources Research</i> , 2011, 47, .	1.7	62
57	Dissolved Organic Nitrogen in Mediterranean Ecosystems. <i>Pedosphere</i> , 2011, 21, 309-318.	2.1	30
59	Biochar mediated alterations in herbicide breakdown and leaching in soil. <i>Soil Biology and Biochemistry</i> , 2011, 43, 804-813.	4.2	267

#	ARTICLE	IF	CITATIONS
60	Seasonal variation in soluble soil carbon and nitrogen across a grassland productivity gradient. <i>Soil Biology and Biochemistry</i> , 2011, 43, 835-844.	4.2	85
61	The potential of microdialysis to monitor organic and inorganic nitrogen compounds in soil. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1321-1332.	4.2	114
62	Short-term biochar-induced increase in soil CO ₂ release is both biotically and abiotically mediated. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1723-1731.	4.2	445
63	Effects of soil frost on growth, composition and respiration of the soil microbial decomposer community. <i>Soil Biology and Biochemistry</i> , 2011, 43, 2069-2077.	4.2	65
64	Effects of dissolved organic matter from the rhizosphere of the hyperaccumulator <i>Sedum alfredii</i> on sorption of zinc and cadmium by different soils. <i>Journal of Hazardous Materials</i> , 2011, 192, 1616-1622.	6.5	102
65	Responses of dissolved organic carbon and dissolved nitrogen in surface water and soil to CO ₂ enrichment in paddy field. <i>Agriculture, Ecosystems and Environment</i> , 2011, 140, 273-279.	2.5	15
66	Rhizosphere characteristics of zinc hyperaccumulator <i>Sedum alfredii</i> involved in zinc accumulation. <i>Journal of Hazardous Materials</i> , 2011, 185, 818-823.	6.5	75
67	Sources of dissolved organic carbon in forest soils: evidences from the differences of organic carbon concentration and isotope composition studies. <i>Environmental Earth Sciences</i> , 2011, 63, 723-730.	1.3	18
68	Differences in Soluble Organic Matter After 23 Years of Contrasting Soil Management. <i>Soil Science Society of America Journal</i> , 2012, 76, 628-637.	1.2	32
69	Biodegradation of Soluble Organic Matter as Affected by Land-Use and Soil Depth. <i>Soil Science Society of America Journal</i> , 2012, 76, 1667-1677.	1.2	21
70	Molecular Weight of Dissolved Organic Carbon, Nitrogen, and Phenolics in Grassland Soils. <i>Soil Science Society of America Journal</i> , 2012, 76, 142-150.	1.2	28
71	Urban Soils of Texas: Relating Irrigation Sodicty to Water-Extractable Carbon and Nutrients. <i>Soil Science Society of America Journal</i> , 2012, 76, 972-982.	1.2	14
72	Soil Aggregate Destruction by Ultrasonication Increases Soil Organic Matter Mineralization and Mobility. <i>Soil Science Society of America Journal</i> , 2012, 76, 1634-1643.	1.2	37
73	Effects of different application timings of methane fermentation digested liquid to paddy plots on soil nitrogen and rice yield. <i>Soil Science and Plant Nutrition</i> , 2012, 58, 224-237.	0.8	2
74	Plant Species Richness and Ecosystem Multifunctionality in Global Drylands. <i>Science</i> , 2012, 335, 214-218.	6.0	1,043
75	Dissolved Organic Carbon in Association with Water Soluble Nutrients and Metals in Soils from Lake Okeechobee Watershed, South Florida. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 4075-4088.	1.1	5
76	Soil enzyme activities as potential indicators of soluble organic nitrogen pools in forest ecosystems of Northeast China. <i>Annals of Forest Science</i> , 2012, 69, 795-803.	0.8	39
77	Changes in labile soil organic carbon fractions in wetland ecosystems along a latitudinal gradient in Northeast China. <i>Catena</i> , 2012, 96, 83-89.	2.2	56

#	ARTICLE	IF	CITATIONS
78	Effects of land use intensity on dissolved organic carbon properties and microbial community structure. <i>European Journal of Soil Biology</i> , 2012, 52, 67-72.	1.4	54
79	Effect of fires on soil organic carbon pool and mineralization in a Northeastern China wetland. <i>Geoderma</i> , 2012, 189-190, 532-539.	2.3	52
80	Abundance and composition dynamics of soil ammonia-oxidizing archaea in an alpine fir forest on the eastern Tibetan Plateau of China. <i>Canadian Journal of Microbiology</i> , 2012, 58, 572-580.	0.8	25
81	Organic and Inorganic Carbon in Paddy Soil as Evaluated by Mid-Infrared Photoacoustic Spectroscopy. <i>PLoS ONE</i> , 2012, 7, e43368.	1.1	9
82	Reduction Kinetics of Hexavalent Chromium in Soils and Its Correlation with Soil Properties. <i>Journal of Environmental Quality</i> , 2012, 41, 1452-1458.	1.0	51
83	The significance of D-amino acids in soil, fate and utilization by microbes and plants: review and identification of knowledge gaps. <i>Plant and Soil</i> , 2012, 354, 21-39.	1.8	96
84	Will elevated CO ₂ enhance mineral bioavailability in wetland ecosystems? Evidence from a rice ecosystem. <i>Plant and Soil</i> , 2012, 355, 251-263.	1.8	23
85	Dynamics of soil extractable carbon and nitrogen under different cover crop residues. <i>Journal of Soils and Sediments</i> , 2012, 12, 844-853.	1.5	28
86	Seasonal nitrous oxide emissions from different land uses and their controlling factors in a tropical riparian ecosystem. <i>Agriculture, Ecosystems and Environment</i> , 2012, 158, 15-30.	2.5	22
87	Nutrient dynamics, microbial growth and weed emergence in biochar amended soil are influenced by time since application and reapplication rate. <i>Agriculture, Ecosystems and Environment</i> , 2012, 158, 192-199.	2.5	186
88	Characterization of dissolved organic matter in the rhizosphere of hyperaccumulator <i>Sedum alfredii</i> and its effect on the mobility of zinc. <i>Chemosphere</i> , 2012, 88, 570-576.	4.2	50
89	Fungal endophyte infection increases carbon sequestration potential of southeastern USA tall fescue stands. <i>Soil Biology and Biochemistry</i> , 2012, 44, 81-92.	4.2	59
90	Biochar-mediated changes in soil quality and plant growth in a three year field trial. <i>Soil Biology and Biochemistry</i> , 2012, 45, 113-124.	4.2	724
91	Discrete functional pools of soil organic matter in a UK grassland soil are differentially affected by temperature and priming. <i>Soil Biology and Biochemistry</i> , 2012, 49, 52-60.	4.2	34
92	Amino acid, peptide and protein mineralization dynamics in a taiga forest soil. <i>Soil Biology and Biochemistry</i> , 2012, 55, 60-69.	4.2	107
93	Amino acid and peptide dynamics in horticultural soils under conventional and organic management strategies. <i>Journal of Soils and Sediments</i> , 2012, 12, 323-333.	1.5	13
94	The influence of soil frost on the quality of dissolved organic carbon in a boreal forest soil: combining field and laboratory experiments. <i>Biogeochemistry</i> , 2012, 107, 95-106.	1.7	33
95	The effects of snow-N deposition and snowmelt dynamics on soil-N cycling in marginal terraced grasslands in the French Alps. <i>Biogeochemistry</i> , 2012, 108, 297-315.	1.7	30

#	ARTICLE	IF	CITATIONS
96	Greenhouse Gas Emissions from Southward Transplanted Wetlands During Freezing-Thawing Periods in Northeast China. <i>Wetlands</i> , 2013, 33, 1075-1081.	0.7	24
97	Main rhizosphere characteristics of the Cd hyperaccumulator <i>Rorippa globosa</i> (Turcz.) Thell. <i>Plant and Soil</i> , 2013, 372, 669-681.	1.8	43
98	Biological soil crusts increase the resistance of soil nitrogen dynamics to changes in temperatures in a semi-arid ecosystem. <i>Plant and Soil</i> , 2013, 366, 35-47.	1.8	41
99	Biochar application reduces nodulation but increases nitrogenase activity in clover. <i>Plant and Soil</i> , 2013, 366, 83-92.	1.8	94
100	Biocrusts control the nitrogen dynamics and microbial functional diversity of semi-arid soils in response to nutrient additions. <i>Plant and Soil</i> , 2013, 372, 643-654.	1.8	48
101	Integrated management systems and N fertilization: effect on soil organic matter in rice-rapeseed rotation. <i>Plant and Soil</i> , 2013, 372, 53-63.	1.8	25
102	Complexation with dissolved organic matter and mobility control of heavy metals in the rhizosphere of hyperaccumulator <i>Sedum alfredii</i> . <i>Environmental Pollution</i> , 2013, 182, 248-255.	3.7	110
103	Nitrogen dynamics in Turbic Cryosols from Siberia and Greenland. <i>Soil Biology and Biochemistry</i> , 2013, 67, 85-93.	4.2	78
104	Wetting and drying events determine soil N pools in two Mediterranean ecosystems. <i>Applied Soil Ecology</i> , 2013, 72, 161-170.	2.1	27
105	Labile soil organic matter fractions as influenced by non-flooded mulching cultivation and cropping season in rice-wheat rotation. <i>European Journal of Soil Biology</i> , 2013, 56, 19-25.	1.4	55
106	Is biochar a source or sink for polycyclic aromatic hydrocarbon (PAH) compounds in agricultural soils?. <i>GCB Bioenergy</i> , 2013, 5, 96-103.	2.5	119
107	Similar quality and quantity of dissolved organic carbon under different land use systems in two Canadian and Chinese soils. <i>Journal of Soils and Sediments</i> , 2013, 13, 34-42.	1.5	22
108	Extractable DOC and DON from a dry-land long-term rotation and cropping system in Texas, USA. <i>Geoderma</i> , 2013, 197-198, 79-86.	2.3	13
109	Effect of Zoige alpine wetland degradation on the density and fractions of soil organic carbon. <i>Ecological Engineering</i> , 2013, 51, 287-295.	1.6	84
110	CH ₄ Oxidation Potentials of Different Land Uses in Three Gorges Reservoir Area of Central Subtropical China. <i>Pedosphere</i> , 2013, 23, 609-619.	2.1	4
111	Mobilization of cadmium by dissolved organic matter in the rhizosphere of hyperaccumulator <i>Sedum alfredii</i> . <i>Chemosphere</i> , 2013, 91, 970-976.	4.2	50
112	Biological soil crusts promote N accumulation in response to dew events in dryland soils. <i>Soil Biology and Biochemistry</i> , 2013, 62, 22-27.	4.2	49
113	Sequential chemical extractions of the mineral-associated soil organic matter: An integrated approach for the fractionation of organo-mineral complexes. <i>Soil Biology and Biochemistry</i> , 2013, 62, 57-67.	4.2	88

#	ARTICLE	IF	CITATIONS
114	The effects of walnut shell and wood feedstock biochar amendments on greenhouse gas emissions from a fertile soil. <i>Geoderma</i> , 2013, 200-201, 90-98.	2.3	64
115	Carbon release from Sphagnum peat during thawing in a montane area in China. <i>Atmospheric Environment</i> , 2013, 75, 77-82.	1.9	23
116	Oligopeptides Represent a Preferred Source of Organic N Uptake: A Global Phenomenon?. <i>Ecosystems</i> , 2013, 16, 133-145.	1.6	80
117	Drivers of increased organic carbon concentrations in stream water following forest disturbance: Separating effects of changes in flow pathways and soil warming. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1814-1827.	1.3	35
118	Comparison of inorganic nitrogen uptake dynamics following snowmelt and at peak biomass in subalpine grasslands. <i>Biogeosciences</i> , 2013, 10, 7631-7645.	1.3	23
119	Dissolved Organic Carbon in Headwater Streams and Riparian Soil Organic Carbon along an Altitudinal Gradient in the Wuyi Mountains, China. <i>PLoS ONE</i> , 2013, 8, e78973.	1.1	14
120	Solubility and Leaching Risks of Organic Carbon in Paddy Soils as Affected by Irrigation Managements. <i>Scientific World Journal</i> , The, 2013, 2013, 1-9.	0.8	11
121	Assessment of Multiple Management Systems in the Upper Midwest. <i>Agronomy Journal</i> , 2013, 105, 1665-1675.	0.9	9
122	Assessing Soil Nitrogen Availability using Microdialysisâ€Derived Diffusive Flux Measurements. <i>Soil Science Society of America Journal</i> , 2014, 78, 1797-1803.	1.2	20
123	Analysis of Ion and Dissolved Organic Carbon Interference on Soil Solution Nitrate Concentration Measurements Using Ultraviolet Absorption Spectroscopy. <i>Vadose Zone Journal</i> , 2014, 13, vj2014.06.0071.	1.3	6
124	Effects of intercropping grasses on soil organic carbon and microbial community functional diversity under Chinese hickory (<i>Carya cathayensis</i> Sarg.) stands. <i>Soil Research</i> , 2014, 52, 575.	0.6	37
125	Cattle Manure Enhances Methanogens Diversity and Methane Emissions Compared to Swine Manure under Rice Paddy. <i>PLoS ONE</i> , 2014, 9, e113593.	1.1	56
126	Response of Soil Respiration to Grazing in an Alpine Meadow at Three Elevations in Tibet. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	0.8	21
127	Sulfur Speciation in an Arable Soil as Affected by Sample Pretreatments and Sewage Sludge Application. <i>Soil Science Society of America Journal</i> , 2014, 78, 1615-1623.	1.2	16
128	Firewood extraction affects carbon pools and nutrients in remnant fragments of temperate forests at the Mexican Transvolcanic Belt. <i>Bosque</i> , 2014, 35, 311-324.	0.1	9
129	A chronosequence study of soil nutrient status under oak and Corsican pine with Ellenberg assessed ground vegetation changes. <i>Forestry</i> , 2014, 87, 287-300.	1.2	11
130	Importance of soil moisture and N availability to larch growth and distribution in the Arctic taiga-tundra boundary ecosystem, northeastern Siberia. <i>Polar Science</i> , 2014, 8, 327-341.	0.5	35
131	CO ₂ emissions from soils of different depths of a permafrost peatland, Northeast China: response to simulated freezingâ€thawing cycles. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 524-531.	1.1	18

#	ARTICLE	IF	CITATIONS
132	Unifying soil respiration pulses, inhibition, and temperature hysteresis through dynamics of labile soil carbon and O_2 . <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 521-536.	1.3	63
133	Phosphatase Activities and Available Nutrients in Soil Receiving Pelletized Poultry Litter. <i>Soil Science</i> , 2014, 179, 182-189.	0.9	4
134	Carbon and nitrogen in soil and vine roots in harrowed and grass-covered vineyards. <i>Agriculture, Ecosystems and Environment</i> , 2014, 193, 70-82.	2.5	52
135	Effects of permafrost thaw on carbon emissions under aerobic and anaerobic environments in the Great Hing'an Mountains, China. <i>Science of the Total Environment</i> , 2014, 487, 604-610.	3.9	20
136	Response of osmolytes in soil to drying and rewetting. <i>Soil Biology and Biochemistry</i> , 2014, 70, 22-32.	4.2	149
137	Changes in pH, dissolved organic matter and Cd species in the rhizosphere soils of Cd phytostabilizer <i>Athyrium wardii</i> (Hook.) Makino involved in Cd tolerance and accumulation. <i>Environmental Science and Pollution Research</i> , 2014, 21, 4605-4613.	2.7	26
138	From the litter layer to the saprolite: Chemical changes in water-soluble soil organic matter and their correlation to microbial community composition. <i>Soil Biology and Biochemistry</i> , 2014, 68, 166-176.	4.2	75
139	Bacterial growth efficiency varies in soils under different land management practices. <i>Soil Biology and Biochemistry</i> , 2014, 69, 282-290.	4.2	60
140	Dissolved organic carbon loss fluxes through runoff and sediment on sloping upland of purple soil in the Sichuan Basin. <i>Nutrient Cycling in Agroecosystems</i> , 2014, 98, 125-135.	1.1	15
141	Composted and formulated poultry litters promote soil nutrient availability but not plant uptake or edamame quality. <i>Agronomy for Sustainable Development</i> , 2014, 34, 849-856.	2.2	7
142	Effects of freezing-thawing cycle on peatland active organic carbon fractions and enzyme activities in the Da Xing'anling Mountains, Northeast China. <i>Environmental Earth Sciences</i> , 2014, 72, 1853-1860.	1.3	29
143	Organic N molecules in the soil solution: what is known, what is unknown and the path forwards. <i>Plant and Soil</i> , 2014, 375, 1-19.	1.8	103
144	Recovery of individual soil nitrogen forms after sieving and extraction. <i>Soil Biology and Biochemistry</i> , 2014, 71, 76-86.	4.2	40
145	Evidence for spatially inaccessible labile N from a comparison of soil core extractions and soil pore water lysimetry. <i>Soil Biology and Biochemistry</i> , 2014, 73, 22-32.	4.2	44
146	The combined effects of earthworms and arbuscular mycorrhizal fungi on microbial biomass and enzyme activities in a calcareous soil spiked with cadmium. <i>Applied Soil Ecology</i> , 2014, 75, 33-42.	2.1	46
147	Effect of snow depth and snow duration on soil N dynamics and microbial activity in the alpine areas of the eastern Tibetan Plateau. <i>Russian Journal of Ecology</i> , 2014, 45, 263-268.	0.3	8
148	Apatite Loss in Pothwar Loess Plain (Pakistan) Fits a Simple Linear Reservoir Model. <i>Pedosphere</i> , 2014, 24, 763-775.	2.1	9
149	Contribution of above- and below-ground plant traits to the structure and function of grassland soil microbial communities. <i>Annals of Botany</i> , 2014, 114, 1011-1021.	1.4	136

#	ARTICLE	IF	CITATIONS
150	Response of organic N monomers in a sub-alpine soil to a dry–wet cycle. <i>Soil Biology and Biochemistry</i> , 2014, 77, 233-242.	4.2	22
151	Early season dynamics of soil nitrogen fluxes in fertilized and unfertilized boreal forests. <i>Soil Biology and Biochemistry</i> , 2014, 74, 167-176.	4.2	37
152	Elevated CO ₂ concentration increase the mobility of Cd and Zn in the rhizosphere of hyperaccumulator <i>Sedum alfredii</i> . <i>Environmental Science and Pollution Research</i> , 2014, 21, 5899-5908.	2.7	17
153	Snow removal alters soil microbial biomass and enzyme activity in a Tibetan alpine forest. <i>Applied Soil Ecology</i> , 2014, 76, 34-41.	2.1	92
154	Water-Soluble Carbon and the Carbon Dioxide Pulse are Regulated by the Extent of Soil Drying and Rewetting. <i>Soil Science Society of America Journal</i> , 2014, 78, 1267-1278.	1.2	11
155	Dissolved organic carbon and its carbon isotope compositions in hill slope soils of the karst area of southwest China: Implications for carbon dynamics in limestone soil. <i>Geochemical Journal</i> , 2014, 48, 277-285.	0.5	9
156	Sample storage-induced changes in the quantity and quality of soil labile organic carbon. <i>Scientific Reports</i> , 2015, 5, 17496.	1.6	23
157	Seasonal Dynamics of Soil Labile Organic Carbon and Enzyme Activities in Relation to Vegetation Types in Hangzhou Bay Tidal Flat Wetland. <i>PLoS ONE</i> , 2015, 10, e0142677.	1.1	62
158	Effect of biochar application on microbial biomass and enzymatic activities in degraded red soil. <i>African Journal of Agricultural Research Vol Pp</i> , 2015, 10, 755-766.	0.2	18
159	Pine Woodchip Biochar Impact on Soil Nutrient Concentrations and Corn Yield in a Silt Loam in the Mid-Southern U.S.. <i>Agriculture (Switzerland)</i> , 2015, 5, 30-47.	1.4	24
160	Distribution of Organic Carbon in the Sediments of Xinxue River and the Xinxue River Constructed Wetland, China. <i>PLoS ONE</i> , 2015, 10, e0134713.	1.1	19
161	Mulching Effects on Labile Soil Organic Nitrogen Pools under a Spring Maize Cropping System in Semiarid Farmland. <i>Agronomy Journal</i> , 2015, 107, 1465-1472.	0.9	19
162	Reactive Nitrogen in Turfgrass Systems: Relations to Soil Physical, Chemical, and Biological Properties. <i>Journal of Environmental Quality</i> , 2015, 44, 210-218.	1.0	23
163	A novel biologically-based approach to evaluating soil phosphorus availability across complex landscapes. <i>Soil Biology and Biochemistry</i> , 2015, 88, 110-119.	4.2	116
164	Size and Characteristics of the DOC Pool in Near-Surface Subarctic Mire Permafrost as a Potential Source for Nearby Freshwaters. <i>Arctic, Antarctic, and Alpine Research</i> , 2015, 47, 49-58.	0.4	6
165	Economic development influences on sediment-bound nitrogen and phosphorus accumulation of lakes in China. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18561-18573.	2.7	28
166	Elevated CO ₂ facilitates C and N accumulation in a rice paddy ecosystem. <i>Journal of Environmental Sciences</i> , 2015, 29, 27-33.	3.2	13
167	Priming of the decomposition of ageing soil organic matter: concentration dependence and microbial control. <i>Functional Ecology</i> , 2015, 29, 285-296.	1.7	57

#	ARTICLE	IF	CITATIONS
168	Complexation of silver and dissolved organic matter in soil water extracts. <i>Environmental Pollution</i> , 2015, 199, 174-184.	3.7	23
169	Sensitivity of soil organic carbon stocks and fractions to soil surface mulching in semiarid farmland. <i>European Journal of Soil Biology</i> , 2015, 67, 35-42.	1.4	68
170	Stoichiometric analysis of nutrient availability (N, P, K) within soils of polygonal tundra. <i>Biogeochemistry</i> , 2015, 122, 211-227.	1.7	38
171	Influence of Leaching Solution and Catchment Location on the Fluorescence of Water-Soluble Organic Matter. <i>Environmental Science & Technology</i> , 2015, 49, 4425-4432.	4.6	38
172	Speciation and phytoavailability of cadmium in soil treated with cadmium-contaminated rice straw. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2679-2686.	2.7	46
173	Effects of intraspecific variation in rice resistance to aboveground herbivore, brown planthopper, and rice root nematodes on plant yield, labile pools of plant, and rhizosphere soil. <i>Biology and Fertility of Soils</i> , 2015, 51, 417-425.	2.3	5
174	Changes of soil labile organic carbon fractions and their relation to soil microbial characteristics in four typical wetlands of Sanjiang Plain, Northeast China. <i>Ecological Engineering</i> , 2015, 82, 381-389.	1.6	70
175	Foliar nutrient resorption constrains soil nutrient transformations under two native oak species in a temperate deciduous forest in Mexico. <i>European Journal of Forest Research</i> , 2015, 134, 803-817.	1.1	15
176	Linking groundwater dissolved organic matter to sedimentary organic matter from a fluvio-lacustrine aquifer at Jiangnan Plain, China by EEM-PARAFAC and hydrochemical analyses. <i>Science of the Total Environment</i> , 2015, 529, 131-139.	3.9	78
177	Ecoenzymatic stoichiometry at the extremes: How microbes cope in an ultra-oligotrophic desert soil. <i>Soil Biology and Biochemistry</i> , 2015, 87, 34-42.	4.2	134
178	Plant acquisition and metabolism of the synthetic nitrification inhibitor dicyandiamide and naturally-occurring guanidine from agricultural soils. <i>Plant and Soil</i> , 2015, 395, 201-214.	1.8	30
179	Vineyard soil bacterial diversity and composition revealed by 16S rRNA genes: Differentiation by geographic features. <i>Soil Biology and Biochemistry</i> , 2015, 91, 232-247.	4.2	143
180	Organic nitrogen uptake by plants: reevaluation by position-specific labeling of amino acids. <i>Biogeochemistry</i> , 2015, 125, 359-374.	1.7	52
181	Soil aggregate size mediates the impacts of cropping regimes on soil carbon and microbial communities. <i>Soil Biology and Biochemistry</i> , 2015, 91, 169-181.	4.2	161
182	Soil characteristics determine soil carbon and nitrogen availability during leaf litter decomposition regardless of litter quality. <i>Soil Biology and Biochemistry</i> , 2015, 81, 134-142.	4.2	83
183	Linkages between the soil organic matter fractions and the microbial metabolic functional diversity within a broad-leaved Korean pine forest. <i>European Journal of Soil Biology</i> , 2015, 66, 57-64.	1.4	61
184	Vegetation-soil system controls soil mechanisms for nitrogen transformations in an oligotrophic Mexican desert. <i>Journal of Arid Environments</i> , 2015, 114, 62-69.	1.2	22
185	Qualitative differences in headwater stream dissolved organic matter and riparian water-extractable soil organic matter under four different vegetation types along an altitudinal gradient in the Wuyi Mountains of China. <i>Applied Geochemistry</i> , 2015, 52, 67-75.	1.4	24

#	ARTICLE	IF	CITATIONS
186	Comparison of methods for extraction of organic N monomers from soil microbial biomass. <i>Soil Biology and Biochemistry</i> , 2015, 81, 67-76.	4.2	24
187	Untargeted soil metabolomics methods for analysis of extractable organic matter. <i>Soil Biology and Biochemistry</i> , 2015, 80, 189-198.	4.2	144
188	The variations in soil microbial communities, enzyme activities and their relationships with soil organic matter decomposition along the northern slope of Changbai Mountain. <i>Applied Soil Ecology</i> , 2015, 86, 19-29.	2.1	174
189	Disentangling the effect of sheep urine patch size and nitrogen loading rate on cumulative N ₂ O emissions. <i>Animal Production Science</i> , 2016, 56, 265.	0.6	22
190	Short-Term Rhizosphere Effect on Available Carbon Sources, Phenanthrene Degradation, and Active Microbiome in an Aged-Contaminated Industrial Soil. <i>Frontiers in Microbiology</i> , 2016, 7, 92.	1.5	69
191	Microsite Differentiation Drives the Abundance of Soil Ammonia Oxidizing Bacteria along Aridity Gradients. <i>Frontiers in Microbiology</i> , 2016, 7, 505.	1.5	24
192	Temporal dynamic of parasite-mediated linkages between the forest canopy and soil processes and the microbial community. <i>New Phytologist</i> , 2016, 211, 1382-1392.	3.5	26
193	Unraveling the mechanisms underlying pulse dynamics of soil respiration in tropical dry forests. <i>Environmental Research Letters</i> , 2016, 11, 105005.	2.2	41
195	Exometabolomics for Linking Soil Carbon Dynamics to Microbial Communities. , 2016, , 119-145.		0
196	Changes in soil organic carbon fractions under integrated management systems in a low-productivity paddy soil given different organic amendments and chemical fertilizers. <i>Soil and Tillage Research</i> , 2016, 163, 64-70.	2.6	99
197	How To Live with Phosphorus Scarcity in Soil and Sediment: Lessons from Bacteria. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4652-4662.	1.4	60
198	Characterising changes in fluorescence properties of dissolved organic matter and links to N cycling in agricultural floodplains. <i>Agriculture, Ecosystems and Environment</i> , 2016, 221, 245-257.	2.5	26
199	Rapid N ₂ O fluxes at high level of nitrate nitrogen addition during freeze-thaw events in boreal peatlands of Northeast China. <i>Atmospheric Environment</i> , 2016, 135, 1-8.	1.9	26
200	Hydrological and climatological controls on radiocarbon concentrations in a tropical stalagmite. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 194, 233-252.	1.6	28
201	Soil respiration responses to soil physiochemical properties in urban different green-lands: A case study in Hefei, China. <i>International Soil and Water Conservation Research</i> , 2016, 4, 224-229.	3.0	15
202	Vineyard soil bacterial diversity and composition revealed by 16S rRNA genes: Differentiation by vineyard management. <i>Soil Biology and Biochemistry</i> , 2016, 103, 337-348.	4.2	95
203	Impacts of water regime and land-use on soil CO ₂ efflux in a small temperate agricultural catchment. <i>Biogeochemistry</i> , 2016, 130, 267-288.	1.7	9
204	A case study on the method-induced difference in the chemical properties and biodegradability of soil water extractable organic carbon of a granitic forest soil. <i>Science of the Total Environment</i> , 2016, 565, 656-662.	3.9	9

#	ARTICLE	IF	CITATIONS
205	Temperature sensitivity of soil carbon dioxide and nitrous oxide emissions in mountain forest and meadow ecosystems in China. <i>Atmospheric Environment</i> , 2016, 142, 340-350.	1.9	33
206	Temporal variation in soil enzyme activities after afforestation in the Loess Plateau, China. <i>Geoderma</i> , 2016, 282, 103-111.	2.3	107
207	Human impacts and aridity differentially alter soil N availability in drylands worldwide. <i>Global Ecology and Biogeography</i> , 2016, 25, 36-45.	2.7	33
208	Stability of soil organic carbon and potential carbon sequestration at eroding and deposition sites. <i>Journal of Soils and Sediments</i> , 2016, 16, 1705-1717.	1.5	20
209	Response of labile organic C and N pools to plastic film removal from semiarid farmland soil. <i>Soil Use and Management</i> , 2016, 32, 535-542.	2.6	7
210	Nutrient availability and corn growth in a poultry litter biochar-amended loam soil in a greenhouse experiment. <i>Soil Use and Management</i> , 2016, 32, 279-288.	2.6	30
211	Evolution of the amino acid fingerprint in the unsterilized rhizosphere of a legume in relation to plant maturity. <i>Soil Biology and Biochemistry</i> , 2016, 101, 226-236.	4.2	17
212	Ozone enhances biodegradability of heavy hydrocarbons in soil. <i>Journal of Environmental Engineering and Science</i> , 2016, 11, 7-17.	0.3	32
213	Fungal endophyte and tall fescue cultivar interact to differentially affect bulk and rhizosphere soil processes governing C and N cycling. <i>Soil Biology and Biochemistry</i> , 2016, 101, 165-174.	4.2	48
214	Soil fertility and fertilization practices affect accumulation and leaching risk of reactive N in greenhouse vegetable soils. <i>Canadian Journal of Soil Science</i> , 2016, 96, 281-288.	0.5	3
215	Precipitation overrides warming in mediating soil nitrogen pools in an alpine grassland ecosystem on the Tibetan Plateau. <i>Scientific Reports</i> , 2016, 6, 31438.	1.6	31
216	Mineralisation and sorption of dissolved organic nitrogen compounds in litter and soil from sugarcane fields. <i>Soil Biology and Biochemistry</i> , 2016, 103, 522-532.	4.2	40
217	Effects of Maize Residue Quality and Soil Water Content on Soil Labile Organic Carbon Fractions and Microbial Properties. <i>Pedosphere</i> , 2016, 26, 829-838.	2.1	22
218	Design and Validation of an Assay for Isotope Ratio Mass Spectrometry Analysis of Biologically Relevant Dissolved and Heat-Extracted Organic Carbon with Neutral Potassium Phosphate Buffer. <i>Communications in Soil Science and Plant Analysis</i> , 2016, 47, 2017-2025.	0.6	0
219	Effect of activated carbon and biochars on the bioavailability of polycyclic aromatic hydrocarbons in different industrially contaminated soils. <i>Environmental Science and Pollution Research</i> , 2016, 23, 11058-11068.	2.7	42
220	Characterising the within-field scale spatial variation of nitrogen in a grassland soil to inform the efficient design of in-situ nitrogen sensor networks for precision agriculture. <i>Agriculture, Ecosystems and Environment</i> , 2016, 230, 294-306.	2.5	28
221	Effects of different forms of plant-derived organic matter on nitrous oxide emissions. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 854-862.	1.7	6
222	Relative importance of soil properties and microbial community for soil functionality: insights from a microbial swap experiment. <i>Functional Ecology</i> , 2016, 30, 1862-1873.	1.7	115

#	ARTICLE	IF	CITATIONS
223	Changes in soil organic carbon fractions after afforestation with xerophytic shrubs in the <sc>T</sc>engger <sc>D</sc>esert, <sc>n</sc>orthern <sc>C</sc>hina. European Journal of Soil Science, 2016, 67, 184-195.	1.8	25
224	Effect of air-drying pre-treatment on the characterization of forest soil carbon pools. Geoderma, 2016, 265, 53-61.	2.3	8
225	Biochar affects soil organic matter cycling and microbial functions but does not alter microbial community structure in a paddy soil. Science of the Total Environment, 2016, 556, 89-97.	3.9	206
226	Rhizosphere characteristics of Pb phytostabilizer <i>Athyrium wardii</i> (Hook.) involved in Pb accumulation. Environmental Earth Sciences, 2016, 75, 1.	1.3	5
227	Stimulation of soil organic nitrogen pool: The effect of plant and soil organic matter degrading enzymes. Soil Biology and Biochemistry, 2016, 96, 97-106.	4.2	56
228	Species identity of biocrust-forming lichens drives the response of soil nitrogen cycle to altered precipitation frequency and nitrogen amendment. Soil Biology and Biochemistry, 2016, 96, 128-136.	4.2	40
229	The mobility of nitrification inhibitors under simulated ruminant urine deposition and rainfall: a comparison between DCD and DMPP. Biology and Fertility of Soils, 2016, 52, 491-503.	2.3	60
230	Combined use of empirical data and mathematical modelling to better estimate the microbial turnover of isotopically labelled carbon substrates in soil. Soil Biology and Biochemistry, 2016, 94, 154-168.	4.2	68
231	Biochar and compost amendments enhance copper immobilisation and support plant growth in contaminated soils. Journal of Environmental Management, 2016, 171, 101-112.	3.8	96
232	Relative contribution of soil, management and traits to co-variations of multiple ecosystem properties in grasslands. Oecologia, 2016, 180, 1001-1013.	0.9	18
233	Temperature effects on soil organic carbon, soil labile organic carbon fractions, and soil enzyme activities under long-term fertilization regimes. Applied Soil Ecology, 2016, 102, 36-45.	2.1	145
234	Effects of phosphorus addition on soil microbial biomass and community composition in a subalpine spruce plantation. European Journal of Soil Biology, 2016, 72, 35-41.	1.4	118
235	Potential of Effective micro-organisms and <i>Eisenia fetida</i> in enhancing vermi-degradation and nutrient release of fly ash incorporated into cow dung "paper waste mixture. Waste Management, 2016, 48, 165-173.	3.7	38
236	Seasonal microbial and nutrient responses during a 5-year reduction in the daily temperature range of soil in a Chihuahuan Desert ecosystem. Oecologia, 2016, 180, 265-277.	0.9	13
237	Plant species identities and fertilization influence on arbuscular mycorrhizal fungal colonisation and soil bacterial activities. Applied Soil Ecology, 2016, 98, 132-139.	2.1	27
238	Soil erosion, organic carbon and nitrogen dynamics in planted forests: A case study in a hilly catchment of Hunan Province, China. Soil and Tillage Research, 2016, 155, 69-77.	2.6	54
239	Silicon Alleviates Cadmium Toxicity in Two Cypress Varieties by Strengthening the Exodermis Tissues and Stimulating Phenolic Exudation of Roots. Journal of Plant Growth Regulation, 2016, 35, 420-429.	2.8	24
240	Climatic conditions, soil fertility and atmospheric nitrogen deposition largely determine the structure and functioning of microbial communities in biocrust-dominated Mediterranean drylands. Plant and Soil, 2016, 399, 271-282.	1.8	32

#	ARTICLE	IF	CITATIONS
241	Seasonal variations in labile soil organic matter fractions in permafrost soils with different vegetation types in the central Qinghai-Tibet Plateau. <i>Catena</i> , 2016, 137, 670-678.	2.2	60
242	Fungal and bacterial growth in floor dust at elevated relative humidity levels. <i>Indoor Air</i> , 2017, 27, 354-363.	2.0	108
243	Concentration and composition of soil amino compounds in major Chinese croplands. <i>Chemistry and Ecology</i> , 2017, 33, 156-170.	0.6	5
244	Vertical distributions of soil carbon and nitrogen fractions as affected by land-uses in the Ili River Valley. <i>Chemistry and Ecology</i> , 2017, 33, 143-155.	0.6	13
245	The impact of salinity on the microbial response to drying and rewetting in soil. <i>Soil Biology and Biochemistry</i> , 2017, 108, 17-26.	4.2	47
246	Microbial Communities and Associated Enzyme Activities in Alpine Wetlands with Increasing Altitude on the Tibetan Plateau. <i>Wetlands</i> , 2017, 37, 401-412.	0.7	17
247	Methane Emission Potential from Freshwater Marsh Soils of Northeast China: Response to Simulated Freezing-Thawing Cycles. <i>Wetlands</i> , 2017, 37, 437-445.	0.7	16
248	Effects of maize stover and its biochar on soil CO ₂ emissions and labile organic carbon fractions in Northeast China. <i>Agriculture, Ecosystems and Environment</i> , 2017, 240, 24-31.	2.5	132
249	Land-use impacts on profile distribution of labile and recalcitrant carbon in the Ili River Valley, northwest China. <i>Science of the Total Environment</i> , 2017, 586, 1038-1045.	3.9	30
250	Assessing the dynamic changes of rhizosphere functionality of Zea mays plants grown in organochlorine contaminated soils. <i>Journal of Hazardous Materials</i> , 2017, 331, 226-234.	6.5	13
251	The Automated Root Exudate System (<sc>ARES</sc>): a method to apply solutes at regular intervals to soils in the field. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1042-1050.	2.2	8
252	As contamination alters rhizosphere microbial community composition with soil type dependency during the rice growing season. <i>Paddy and Water Environment</i> , 2017, 15, 581-592.	1.0	7
253	Short-term soil mineral and organic nitrogen fluxes during moderate and severe drying-rewetting events. <i>Applied Soil Ecology</i> , 2017, 114, 28-33.	2.1	28
254	Changes in soil bacterial communities in an evergreen broad-leaved forest in east China following 4 years of nitrogen addition. <i>Journal of Soils and Sediments</i> , 2017, 17, 2156-2164.	1.5	32
255	Denitrifier community response to seven years of ground cover and nutrient management in an organic fruit tree orchard soil. <i>Applied Soil Ecology</i> , 2017, 112, 60-70.	2.1	6
256	Contrasting effects of nitrogen addition on soil respiration in two Mediterranean ecosystems. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26160-26171.	2.7	15
257	Effects of poly- ¹³ -glutamic acid (¹³ -PGA) on soil nitrogen and carbon leaching and CO ₂ fluxes in a sandy clay loam soil. <i>Canadian Journal of Soil Science</i> , 0, , .	0.5	5
258	Changes in soil organic carbon and its active fractions in different desertification stages of alpine-cold grassland in the eastern Qinghai-Tibet Plateau. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	13

#	ARTICLE	IF	CITATIONS
259	Altitude affects the quality of the water-extractable organic matter (WEOM) from rhizosphere and bulk soil in European beech forests. <i>Geoderma</i> , 2017, 302, 6-13.	2.3	43
260	A Novel Approach to Estimating Nitrous Oxide Emissions during Wetting Events from Single-Point Flux Measurements. <i>Journal of Environmental Quality</i> , 2017, 46, 247-254.	1.0	4
261	Green manure and long-term fertilization effects on soil zinc and cadmium availability and uptake by wheat (<i>Triticum aestivum</i> L.) at different growth stages. <i>Science of the Total Environment</i> , 2017, 599-600, 1330-1343.	3.9	40
262	Increased litter in subtropical forests boosts soil respiration in natural forests but not plantations of <i>Castanopsis carlesii</i> . <i>Plant and Soil</i> , 2017, 418, 141-151.	1.8	39
263	Soil nutrients influence the photosynthesis and biomass in invasive <i>Panicum virgatum</i> on the Loess Plateau in China. <i>Plant and Soil</i> , 2017, 418, 153-164.	1.8	9
264	Agglomeration Determines Effects of Carbonaceous Nanomaterials on Soybean Nodulation, Dinitrogen Fixation Potential, and Growth in Soil. <i>ACS Nano</i> , 2017, 11, 5753-5765.	7.3	80
265	Dissolved organic matter in soils varies across a chronosequence of <i>Pinus massoniana</i> plantations. <i>Ecosphere</i> , 2017, 8, e01764.	1.0	24
266	Critical comparison of the impact of biochar and wood ash on soil organic matter cycling and grassland productivity. <i>Soil Biology and Biochemistry</i> , 2017, 110, 134-142.	4.2	42
267	Precipitation Events and Management Practices Affect Greenhouse Gas Emissions from Vineyards in a Mediterranean Climate. <i>Soil Science Society of America Journal</i> , 2017, 81, 138-152.	1.2	11
268	Three years of biochar amendment alters soil physiochemical properties and fungal community composition in a black soil of northeast China. <i>Soil Biology and Biochemistry</i> , 2017, 110, 56-67.	4.2	262
269	Changes in small organic N during early stages of soil development. <i>Soil Biology and Biochemistry</i> , 2017, 110, 44-55.	4.2	13
270	Microbial mineralization of cellulose in frozen soils. <i>Nature Communications</i> , 2017, 8, 1154.	5.8	19
271	Enhancement of subsoil denitrification using an electrode as an electron donor. <i>Soil Biology and Biochemistry</i> , 2017, 115, 511-515.	4.2	13
272	Interactive effects of straw incorporation and tillage on crop yield and greenhouse gas emissions in double rice cropping system. <i>Agriculture, Ecosystems and Environment</i> , 2017, 250, 37-43.	2.5	57
273	An evaluation of soil chemistry in human cadaver decomposition islands: Potential for estimating postmortem interval (PMI). <i>Forensic Science International</i> , 2017, 279, 130-139.	1.3	29
274	Variation in small organic N compounds and amino acid enantiomers along an altitudinal gradient. <i>Soil Biology and Biochemistry</i> , 2017, 115, 197-212.	4.2	11
275	Improving in situ recovery of soil nitrogen using the microdialysis technique. <i>Soil Biology and Biochemistry</i> , 2017, 114, 93-103.	4.2	24
276	DMPP is ineffective at mitigating N ₂ O emissions from sheep urine patches in a UK grassland under summer conditions. <i>Agriculture, Ecosystems and Environment</i> , 2017, 246, 1-11.	2.5	26

#	ARTICLE	IF	CITATIONS
277	Environmental footprints of brick kiln bottom ashes: Geostatistical approach for assessment of metal toxicity. <i>Science of the Total Environment</i> , 2017, 609, 215-224.	3.9	29
278	Predicting organic matter, nitrogen, and phosphorus concentrations in runoff from peat extraction sites using partial least squares regression. <i>Water Resources Research</i> , 2017, 53, 5860-5876.	1.7	19
279	Effects of over 30-year of different fertilization regimes on fungal community compositions in the black soils of northeast China. <i>Agriculture, Ecosystems and Environment</i> , 2017, 248, 113-122.	2.5	105
280	Effects of snow absence on winter soil nitrogen dynamics in a subalpine spruce forest of southwestern China. <i>Geoderma</i> , 2017, 307, 107-113.	2.3	25
281	Evaluating Soil Dissolved Organic Matter Extraction Using Three-Dimensional Excitation-Emission Matrix Fluorescence Spectroscopy. <i>Pedosphere</i> , 2017, 27, 968-973.	2.1	31
282	Changes in Soil Organic Carbon Dynamics in a Native C4 Plant-Dominated Tidal Marsh Following <i>Spartina alterniflora</i> Invasion. <i>Pedosphere</i> , 2017, 27, 856-867.	2.1	24
283	Factors affecting distribution patterns of organic carbon in sediments at regional and national scales in China. <i>Scientific Reports</i> , 2017, 7, 5497.	1.6	23
284	Effects of residue incorporation and plant growth on soil labile organic carbon and microbial function and community composition under two soil moisture levels. <i>Environmental Science and Pollution Research</i> , 2017, 24, 18849-18859.	2.7	17
285	Microbial functional diversity responses to 2 years since biochar application in silt-loam soils on the Loess Plateau. <i>Ecotoxicology and Environmental Safety</i> , 2017, 144, 578-584.	2.9	35
286	Seasonal variations in the soil amino acid pool and flux following the conversion of a natural forest to a pine plantation on the eastern Tibetan Plateau, China. <i>Soil Biology and Biochemistry</i> , 2017, 105, 1-11.	4.2	40
287	A multicomponent approach to using waste-derived biochar in biofiltration: A case study based on dissimilar types of waste. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 565-576.	1.9	31
288	Tracing the source of sedimentary organic carbon in the Loess Plateau of China: An integrated elemental ratio, stable carbon signatures, and radioactive isotopes approach. <i>Journal of Environmental Radioactivity</i> , 2017, 167, 201-210.	0.9	14
289	Fe- and S-Metabolizing Microbial Communities Dominate an AMD-Contaminated River Ecosystem and Play Important Roles in Fe and S Cycling. <i>Geomicrobiology Journal</i> , 2017, 34, 695-705.	1.0	24
290	Soil solution interactions may limit Pb remediation using P&Aamendments in an urban soil. <i>Environmental Pollution</i> , 2017, 220, 549-556.	3.7	16
291	Response of soil organic carbon and nitrogen stocks to soil erosion and land use types in the Loess hilly"gully region of China. <i>Soil and Tillage Research</i> , 2017, 166, 1-9.	2.6	185
292	Climate change affects soil labile organic carbon fractions in a Tibetan alpine meadow. <i>Journal of Soils and Sediments</i> , 2017, 17, 326-339.	1.5	22
293	Contrasting response of two grassland soils to N addition and moisture levels: N2O emission and functional gene abundance. <i>Journal of Soils and Sediments</i> , 2017, 17, 384-392.	1.5	21
294	Buried straw layer plus plastic mulching improves soil organic carbon fractions in an arid saline soil from Northwest China. <i>Soil and Tillage Research</i> , 2017, 165, 286-293.	2.6	88

#	ARTICLE	IF	CITATIONS
295	Bacterial strategies along nutrient and time gradients, revealed by metagenomic analysis of laboratory microcosms. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	1.3	53
296	Effects of biochar addition on CO ₂ and CH ₄ emissions from a cultivated sandy loam soil during freeze-thaw cycles. <i>Plant, Soil and Environment</i> , 2017, 63, 243-249.	1.0	12
297	The Effects of Nitrogen Addition on the Uptake and Allocation of Macro- and Micronutrients in <i>Bothriochloa ischaemum</i> on Loess Plateau in China. <i>Frontiers in Plant Science</i> , 2017, 8, 1476.	1.7	19
298	Characterization of Dissolved Organic Matter in Deep Geothermal Water from Different Burial Depths Based on Three-Dimensional Fluorescence Spectra. <i>Water (Switzerland)</i> , 2017, 9, 266.	1.2	5
299	Construction of Viable Soil Defined Media Using Quantitative Metabolomics Analysis of Soil Metabolites. <i>Frontiers in Microbiology</i> , 2017, 8, 2618.	1.5	34
300	Effects of continuous manure application on methanogenic and methanotrophic communities and methane production potentials in rice paddy soil. <i>Agriculture, Ecosystems and Environment</i> , 2018, 258, 121-128.	2.5	59
301	Influences of observation method, season, soil depth, land use and management practice on soil dissolvable organic carbon concentrations: A meta-analysis. <i>Science of the Total Environment</i> , 2018, 631-632, 105-114.	3.9	18
302	Partitioning of Ag and CeO ₂ nanoparticles versus Ag and Ce ions in soil suspensions and effect of natural organic matter on CeO ₂ nanoparticles stability. <i>Chemosphere</i> , 2018, 200, 471-480.	4.2	17
303	Temperature and aridity regulate spatial variability of soil multifunctionality in drylands across the globe. <i>Ecology</i> , 2018, 99, 1184-1193.	1.5	42
304	Repeated application of anaerobic digestate, undigested cattle slurry and inorganic fertilizer N: Impacts on pasture yield and quality. <i>Grass and Forage Science</i> , 2018, 73, 758-763.	1.2	31
305	Microbial/biochemical indicators showing perceptible deterioration in the topsoil due to deforestation. <i>Ecological Indicators</i> , 2018, 91, 84-91.	2.6	23
306	Geothermally warmed soils reveal persistent increases in the respiratory costs of soil microbes contributing to substantial C losses. <i>Biogeochemistry</i> , 2018, 138, 245-260.	1.7	17
307	Effects of conversion from a natural evergreen broadleaf forest to a Moso bamboo plantation on the soil nutrient pools, microbial biomass and enzyme activities in a subtropical area. <i>Forest Ecology and Management</i> , 2018, 422, 161-171.	1.4	68
308	Quantitative models for predicting adsorption of oxytetracycline, ciprofloxacin and sulfamerazine to swine manures with contrasting properties. <i>Science of the Total Environment</i> , 2018, 634, 1148-1156.	3.9	30
309	Distinct responses of soil respiration to experimental litter manipulation in temperate woodland and tropical forest. <i>Ecology and Evolution</i> , 2018, 8, 3787-3796.	0.8	23
310	Spatial zoning of microbial functions and plant-soil nitrogen dynamics across a riparian area in an extensively grazed livestock system. <i>Soil Biology and Biochemistry</i> , 2018, 120, 153-164.	4.2	20
311	Litter and topsoil in <i>Alnus subcordata</i> plantation on former degraded natural forest land: A synthesis of age-sequence. <i>Soil and Tillage Research</i> , 2018, 179, 1-10.	2.6	31
312	Effects of straw mulching and plastic film mulching on improving soil organic carbon and nitrogen fractions, crop yield and water use efficiency in the Loess Plateau, China. <i>Agricultural Water Management</i> , 2018, 201, 133-143.	2.4	154

#	ARTICLE	IF	CITATIONS
313	Impacts of earthworm activity on the fate of straw carbon in soil: a microcosm experiment. <i>Environmental Science and Pollution Research</i> , 2018, 25, 11054-11062.	2.7	16
314	Effect of inorganic fertilizers with organic amendments on soil chemical properties and rice yield in a low-productivity paddy soil. <i>Geoderma</i> , 2018, 320, 23-29.	2.3	88
315	Rhizosphere characteristics of phytostabilizer <i>Athyrium wardii</i> (Hook.) involved in Cd and Pb accumulation. <i>Ecotoxicology and Environmental Safety</i> , 2018, 148, 892-900.	2.9	29
316	Comparative effects of prolonged freshwater and saline flooding on nitrogen cycling in an agricultural soil. <i>Applied Soil Ecology</i> , 2018, 125, 56-70.	2.1	23
317	Quantifying the contribution of riparian soils to the provision of ecosystem services. <i>Science of the Total Environment</i> , 2018, 624, 807-819.	3.9	33
318	Beyond respiration: Controls on lateral carbon fluxes across the terrestrial-aquatic interface. <i>Limnology and Oceanography Letters</i> , 2018, 3, 76-88.	1.6	81
319	Efficiency of C3 and C4 Plant Derived-Biochar for Cd Mobility, Nutrient Cycling and Microbial Biomass in Contaminated Soil. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018, 100, 834-838.	1.3	48
320	Effect of Wetland Reclamation on Soil Organic Carbon Stability in Peat Mire Soil Around Xingkai Lake in Northeast China. <i>Chinese Geographical Science</i> , 2018, 28, 325-336.	1.2	21
321	Using pine bark and mussel shell amendments to reclaim microbial functions in a Cu polluted acid mine soil. <i>Applied Soil Ecology</i> , 2018, 127, 102-111.	2.1	14
322	Tibetan sedges sequester more carbon belowground than grasses: a ¹³ C labeling study. <i>Plant and Soil</i> , 2018, 426, 287-298.	1.8	30
323	Subtropical urban turfs: Carbon and nitrogen pools and the role of enzyme activity. <i>Journal of Environmental Sciences</i> , 2018, 65, 18-28.	3.2	13
324	Aridity Decouples C:N:P Stoichiometry Across Multiple Trophic Levels in Terrestrial Ecosystems. <i>Ecosystems</i> , 2018, 21, 459-468.	1.6	40
325	Low-intensity surface fire effects on carbon and nitrogen cycling in soil and soil solution of a Scots pine forest in central Germany. <i>Catena</i> , 2018, 162, 360-375.	2.2	12
326	Soil labile organic carbon fractions and soil organic carbon stocks as affected by long-term organic and mineral fertilization regimes in the North China Plain. <i>Soil and Tillage Research</i> , 2018, 175, 281-290.	2.6	199
327	Ecoenzymatic stoichiometry and microbial nutrient limitation in rhizosphere soil in the arid area of the northern Loess Plateau, China. <i>Soil Biology and Biochemistry</i> , 2018, 116, 11-21.	4.2	243
328	Soil legacy effects of climatic stress, management and plant functional composition on microbial communities influence the response of <i>Lolium perenne</i> to a new drought event. <i>Plant and Soil</i> , 2018, 424, 233-254.	1.8	17
329	Thermal stability of organic carbon in soil aggregates as affected by soil erosion and deposition. <i>Soil and Tillage Research</i> , 2018, 175, 82-90.	2.6	89
330	Mechanism of toxicity and transformation of silver nanoparticles: Inclusive assessment in earthworm-microbe-soil-plant system. <i>Geoderma</i> , 2018, 314, 73-84.	2.3	81

#	ARTICLE	IF	CITATIONS
331	Soil CH ₄ and CO ₂ dynamics and nitrogen transformations with incubation in mountain forest and meadow ecosystems. <i>Catena</i> , 2018, 163, 24-32.	2.2	8
332	Labile organic carbon fractions and carbon pool management index in a 3-year field study with biochar amendment. <i>Journal of Soils and Sediments</i> , 2018, 18, 1569-1578.	1.5	49
333	Microbial competition for nitrogen and carbon is as intense in the subsoil as in the topsoil. <i>Soil Biology and Biochemistry</i> , 2018, 117, 72-82.	4.2	120
334	Green manure effects on zinc and cadmium accumulation in wheat grains (<i>Triticum aestivum</i> L.) on high and low zinc soils. <i>Plant and Soil</i> , 2018, 422, 437-453.	1.8	11
335	Cadmium accumulation and main rhizosphere characteristics of seven French marigold (<i>Tagetes</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.7	18
336	Differential responses of soil microbial biomass, diversity, and compositions to altitudinal gradients depend on plant and soil characteristics. <i>Science of the Total Environment</i> , 2018, 610-611, 750-758.	3.9	205
337	Soil organic matter availability and climate drive latitudinal patterns in bacterial diversity from tropical to cold temperate forests. <i>Functional Ecology</i> , 2018, 32, 61-70.	1.7	106
338	Microbial Response to Sodic Soil Amendments: Flue-Gas Gypsum, By-Product Lime, and Langbeinite. <i>Communications in Soil Science and Plant Analysis</i> , 2018, 49, 2894-2904.	0.6	2
339	Forest Soil C: Stock and Stability under Global Change. , 0, , .		1
340	Loss of deep roots limits biogenic agents of soil development that are only partially restored by decades of forest regeneration. <i>Elementa</i> , 2018, 6, .	1.1	34
341	Green Manuring Effect on Changes of Soil Nitrogen Fractions, Maize Growth, and Nutrient Uptake. <i>Agronomy</i> , 2018, 8, 261.	1.3	23
342	Enhancing organic and inorganic carbon sequestration in calcareous soil by the combination of wheat straw and wood ash and/or lime. <i>PLoS ONE</i> , 2018, 13, e0205361.	1.1	7
343	Shifting DOC concentration and quality in the freshwater lakes of the Kangerlussuaq region: An experimental assessment of possible mechanisms. <i>Arctic, Antarctic, and Alpine Research</i> , 2018, 50, .	0.4	11
344	Modification of the composition of dissolved nitrogen forms, nitrogen transformation processes, and diversity of bacterial communities by freeze-thaw events in temperate soils. <i>Pedobiologia</i> , 2018, 71, 41-49.	0.5	18
345	Stoichiometric constraints on the microbial processing of carbon with soil depth along a riparian hillslope. <i>Biology and Fertility of Soils</i> , 2018, 54, 949-963.	2.3	30
346	Toxicity responses of bacterial community as a biological indicator after repeated exposure to lead (Pb) in the presence of decabromodiphenyl ether (BDE209). <i>Environmental Science and Pollution Research</i> , 2018, 25, 36278-36286.	2.7	3
347	Historical charcoal additions alter water extractable, particulate and bulk soil C composition and stabilization. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 809-817.	1.1	17
348	Changes in Metal Availability and Improvements in Microbial Properties After Phytoextraction of a Cd, Zn and Pb Contaminated Soil. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018, 101, 624-630.	1.3	1

#	ARTICLE	IF	CITATIONS
349	Consistent responses of soil microbial taxonomic and functional attributes to mercury pollution across China. <i>Microbiome</i> , 2018, 6, 183.	4.9	109
350	Dissolved organic carbon and nitrogen release from boreal Holocene permafrost and seasonally frozen soils of Alaska. <i>Environmental Research Letters</i> , 2018, 13, 065011.	2.2	84
351	Identification of indicators for evaluating and monitoring the effects of Chinese fir monoculture plantations on soil quality. <i>Ecological Indicators</i> , 2018, 93, 547-554.	2.6	32
352	C and N cycle monitoring under <i>Quercus castaneifolia</i> plantation. <i>Forest Ecology and Management</i> , 2018, 427, 26-36.	1.4	20
353	Effects of snowfall depth on soil physical–chemical properties and soil microbial biomass in moss-dominated crusts in the Gurbantunggut Desert, Northern China. <i>Catena</i> , 2018, 169, 175-182.	2.2	21
354	Deforestation decreases spatial turnover and alters the network interactions in soil bacterial communities. <i>Soil Biology and Biochemistry</i> , 2018, 123, 80-86.	4.2	73
355	Rhizosheaths stimulate short-term root decomposition in a semiarid grassland. <i>Science of the Total Environment</i> , 2018, 640-641, 1297-1301.	3.9	9
356	Impact of elevated precipitation, nitrogen deposition and warming on soil respiration in a temperate desert. <i>Biogeosciences</i> , 2018, 15, 2007-2019.	1.3	25
357	Soil microbial populations in deep floodplain soils are adapted to infrequent but regular carbon substrate addition. <i>Soil Biology and Biochemistry</i> , 2018, 122, 60-70.	4.2	14
358	Seasonal and interannual dynamics of soil microbial biomass and available nitrogen in an alpine meadow in the eastern part of Qinghai–Tibet Plateau, China. <i>Biogeosciences</i> , 2018, 15, 567-579.	1.3	18
359	Soil respiration and its autotrophic and heterotrophic components in response to nitrogen addition among different degraded temperate grasslands. <i>Soil Biology and Biochemistry</i> , 2018, 124, 255-265.	4.2	41
360	Achieving low methane and nitrous oxide emissions with high economic incomes in a rice-based cropping system. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 95-106.	1.9	30
361	Drying-Wetting Cycles: Effect on Deep Soil Carbon. <i>Soil Systems</i> , 2018, 2, 3.	1.0	5
362	Spatial heterogeneity of microbial community and enzyme activities in a broad-leaved Korean pine mixed forest. <i>European Journal of Soil Biology</i> , 2018, 88, 65-72.	1.4	22
363	Large herbivores influence plant litter decomposition by altering soil properties and plant quality in a meadow steppe. <i>Scientific Reports</i> , 2018, 8, 9089.	1.6	28
364	Grass cultivation alters soil organic carbon fractions in a subtropical orchard of southern China. <i>Soil and Tillage Research</i> , 2018, 181, 110-116.	2.6	25
365	Characteristics of the rhizosphere bacterial community across different cultivation years in saline–alkaline paddy soils of Songnen Plain of China. <i>Canadian Journal of Microbiology</i> , 2018, 64, 925-936.	0.8	28
366	Methodological bias associated with soluble protein recovery from soil. <i>Scientific Reports</i> , 2018, 8, 11186.	1.6	16

#	ARTICLE	IF	CITATIONS
367	Influence of phosphorus application and water deficit on the soil microbiota of N ₂ -fixing and non-N ₂ -fixing tree. <i>Ecosphere</i> , 2018, 9, e02276.	1.0	23
368	Efficiency and surface characterization of different plant derived biochar for cadmium (Cd) mobility, bioaccessibility and bioavailability to Chinese cabbage in highly contaminated soil. <i>Chemosphere</i> , 2018, 211, 632-639.	4.2	95
369	Heterogeneity in arbuscular mycorrhizal fungal communities may contribute to inconsistent plant-soil feedback in a Neotropical forest. <i>Plant and Soil</i> , 2018, 432, 29-44.	1.8	15
370	Understory vegetation plays the key role in sustaining soil microbial biomass and extracellular enzyme activities. <i>Biogeosciences</i> , 2018, 15, 4481-4494.	1.3	32
371	Development of online microdialysis-mass spectrometry for continuous minimally invasive measurement of soil solution dynamics. <i>Soil Biology and Biochemistry</i> , 2018, 123, 266-275.	4.2	15
372	Drying and rewetting conditions differentially affect the mineralization of fresh plant litter and extant soil organic matter. <i>Soil Biology and Biochemistry</i> , 2018, 124, 81-89.	4.2	26
373	Soil mutagenicity – Effects of acidification and organic pollutants in urban/industrial areas. <i>Chemosphere</i> , 2018, 209, 666-674.	4.2	4
374	Responses of soil microbial communities to nutrient limitation in the desert-grassland ecological transition zone. <i>Science of the Total Environment</i> , 2018, 642, 45-55.	3.9	94
375	Management versus site effects on the abundance of nitrifiers and denitrifiers in European mountain grasslands. <i>Science of the Total Environment</i> , 2019, 648, 745-753.	3.9	18
376	Natural grassland as the optimal pattern of vegetation restoration in arid and semi-arid regions: Evidence from nutrient limitation of soil microbes. <i>Science of the Total Environment</i> , 2019, 648, 388-397.	3.9	164
377	Effect of agro industrial wastes compost on soil health and onion yields improvements: study at field condition. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , 2019, 8, 161-171.	2.0	19
378	Responses of rhizosphere soil properties, enzyme activities and microbial diversity to intercropping patterns on the Loess Plateau of China. <i>Soil and Tillage Research</i> , 2019, 195, 104355.	2.6	139
379	Enhanced Cd-Zn-Pb-contaminated soil phytoextraction by <i>Sedum alfredii</i> and the rhizosphere bacterial community structure and function by applying organic amendments. <i>Plant and Soil</i> , 2019, 444, 101-118.	1.8	28
380	Water-soluble mercury induced by organic amendments affected microbial community assemblage in mercury-polluted paddy soil. <i>Chemosphere</i> , 2019, 236, 124405.	4.2	14
381	Functionally dissimilar soil organisms improve growth and Pb/Zn uptake by <i>Stachys inflata</i> grown in a calcareous soil highly polluted with mining activities. <i>Journal of Environmental Management</i> , 2019, 247, 780-789.	3.8	18
382	Precipitation Events, Soil Type, and Vineyard Management Practices Influence Soil Carbon Dynamics in a Mediterranean Climate (Lodi, California). <i>Soil Science Society of America Journal</i> , 2019, 83, 772-779.	1.2	7
383	Variation in physicochemical and biochemical soil properties among different plant species treatments early in the restoration of a desertified alpine meadow. <i>Land Degradation and Development</i> , 2019, 30, 1889-1903.	1.8	12
384	Fate of Labile Organic Carbon in Paddy Soil Is Regulated by Microbial Ferric Iron Reduction. <i>Environmental Science & Technology</i> , 2019, 53, 8533-8542.	4.6	42

#	ARTICLE	IF	CITATIONS
385	Long-term nitrogen addition modifies microbial composition and functions for slow carbon cycling and increased sequestration in tropical forest soil. <i>Global Change Biology</i> , 2019, 25, 3267-3281.	4.2	121
386	Impacts of precipitation, warming and nitrogen deposition on methane uptake in a temperate desert. <i>Biogeochemistry</i> , 2019, 146, 17-29.	1.7	13
387	Biochar suppresses N ₂ O emissions and alters microbial communities in an acidic tea soil. <i>Environmental Science and Pollution Research</i> , 2019, 26, 35978-35987.	2.7	18
388	An Extensible Positioning System for Locating Mobile Robots in Unfamiliar Environments. <i>Sensors</i> , 2019, 19, 4025.	2.1	8
389	Regionalization and Partitioning of Soil Health Indicators for Nigeria Using Spatially Contiguous Clustering for Economic and Social-Cultural Developments. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 458.	1.4	7
390	Plant functional traits determine latitudinal variations in soil microbial function: evidence from forests in China. <i>Biogeosciences</i> , 2019, 16, 3333-3349.	1.3	2
391	Comparison of methylmercury accumulation in wheat and rice grown in straw-amended paddy soil. <i>Science of the Total Environment</i> , 2019, 697, 134143.	3.9	17
392	Responses of soil labile organic carbon fractions and stocks to different vegetation restoration strategies in degraded karst ecosystems of southwest China. <i>Ecological Engineering</i> , 2019, 138, 391-402.	1.6	42
393	Root litter inputs exert greater influence over soil C than does aboveground litter in a subtropical natural forest. <i>Plant and Soil</i> , 2019, 444, 489-499.	1.8	35
394	Risk assessment framework for nitrate contamination in groundwater for regional management. <i>Science of the Total Environment</i> , 2019, 697, 134102.	3.9	58
395	The missing nitrogen pieces: A critical review on the distribution, transformation, and budget of nitrogen in the vadose zone-groundwater system. <i>Water Research</i> , 2019, 165, 114977.	5.3	127
396	Changes in soil microbial community structure following amendment of biosolids for seven years. <i>Environmental Pollutants and Bioavailability</i> , 2019, 31, 24-31.	1.3	14
397	Streambed Organic Matter Controls on Carbon Dioxide and Methane Emissions from Streams. <i>Environmental Science & Technology</i> , 2019, 53, 2364-2374.	4.6	48
398	Soil bacterial communities with an indicative function response to nutrients in wetlands of Northeastern China that have undergone natural restoration. <i>Ecological Indicators</i> , 2019, 101, 562-571.	2.6	26
399	Nitrogen Addition Affects Soil Respiration Primarily through Changes in Microbial Community Structure and Biomass in a Subtropical Natural Forest. <i>Forests</i> , 2019, 10, 435.	0.9	11
400	Multi-trophic $\delta^{15}\text{N}$ diversity mediates the effect of environmental gradients on the turnover of multiple ecosystem functions. <i>Functional Ecology</i> , 2019, 33, 2053-2064.	1.7	26
401	Fungal richness contributes to multifunctionality in boreal forest soil. <i>Soil Biology and Biochemistry</i> , 2019, 136, 107526.	4.2	108
402	Naphthalene exerts substantial nontarget effects on soil nitrogen mineralization processes in a subalpine forest soil: A microcosm study. <i>PLoS ONE</i> , 2019, 14, e0217178.	1.1	5

#	ARTICLE	IF	CITATIONS
403	High aluminum stress drives different rhizosphere soil enzyme activities and bacterial community structure between aluminum-tolerant and aluminum-sensitive soybean genotypes. <i>Plant and Soil</i> , 2019, 440, 409-425.	1.8	55
404	Impact of 13-years of nitrogen addition on nitrous oxide and methane fluxes and ecosystem respiration in a temperate grassland. <i>Environmental Pollution</i> , 2019, 252, 675-681.	3.7	31
405	Direct and indirect effects of elevated CO ₂ and nitrogen addition on soil microbial communities in the rhizosphere of <i>Bothriochloa ischaemum</i> . <i>Journal of Soils and Sediments</i> , 2019, 19, 3679-3687.	1.5	12
406	High Capacity of Nutrient Accumulation by Invasive <i>Solidago canadensis</i> in a Coastal Grassland. <i>Frontiers in Plant Science</i> , 2019, 10, 575.	1.7	25
407	Losses in microbial functional diversity reduce the rate of key soil processes. <i>Soil Biology and Biochemistry</i> , 2019, 135, 267-274.	4.2	65
408	Soil Carbon Accumulation and Nutrient Availability in Managed and Unmanaged Ecosystems of East Tennessee. <i>Soil Science Society of America Journal</i> , 2019, 83, 458-465.	1.2	7
409	Effect of land management practices on the concentration of dissolved organic matter in soil: A meta-analysis. <i>Geoderma</i> , 2019, 344, 74-81.	2.3	33
410	Comparative analysis of bacterial community compositions between sediment and water in different types of wetlands of northeast China. <i>Journal of Soils and Sediments</i> , 2019, 19, 3083-3097.	1.5	18
411	Effects of water erosion on soil organic carbon stability in the subtropical China. <i>Journal of Soils and Sediments</i> , 2019, 19, 3564-3575.	1.5	7
412	Ecoenzymatic stoichiometry and nutrient dynamics along a revegetation chronosequence in the soils of abandoned land and <i>Robinia pseudoacacia</i> plantation on the Loess Plateau, China. <i>Soil Biology and Biochemistry</i> , 2019, 134, 1-14.	4.2	99
413	Stoichiometry of microbial indicators shows clearly more soil responses to land cover changes than absolute microbial activities. <i>Ecological Engineering</i> , 2019, 131, 99-106.	1.6	21
414	Effects of diversity of tree species on nutrient cycling and soil-related processes. <i>Catena</i> , 2019, 178, 335-344.	2.2	31
415	Effects of different long-term farmland mulching practices on the loessial soil fungal community in a semiarid region of China. <i>Applied Soil Ecology</i> , 2019, 137, 111-119.	2.1	46
416	Testing the dependence of microbial growth and carbon use efficiency on nitrogen availability, pH, and organic matter quality. <i>Soil Biology and Biochemistry</i> , 2019, 134, 25-35.	4.2	103
417	Litter Traits of Native and Non-Native Tropical Trees Influence Soil Carbon Dynamics in Timber Plantations in Panama. <i>Forests</i> , 2019, 10, 209.	0.9	12
418	Growing seasonal characteristics of soil and plants control the temporal patterns of bacterial communities following afforestation. <i>Catena</i> , 2019, 178, 288-297.	2.2	10
419	Changing precipitation exerts greater influence on soil heterotrophic than autotrophic respiration in a semiarid steppe. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 413-421.	1.9	56
420	Coupled carbon and nitrogen losses in response to seven years of chronic warming in subarctic soils. <i>Soil Biology and Biochemistry</i> , 2019, 134, 152-161.	4.2	25

#	ARTICLE	IF	CITATIONS
421	Variability of Aboveground Litter Inputs Alters Soil Carbon and Nitrogen in a Coniferous–Broadleaf Mixed Forest of Central China. <i>Forests</i> , 2019, 10, 188.	0.9	77
422	Leaching of dissolved organic carbon and nitrogen under cotton farming systems in a Vertisol. <i>Soil Use and Management</i> , 2019, 35, 443-452.	2.6	12
423	Long-term application of nitrogen, not phosphate or potassium, significantly alters the diazotrophic community compositions and structures in a Mollisol in northeast China. <i>Research in Microbiology</i> , 2019, 170, 147-155.	1.0	26
424	Effects of organic wastes on labile organic carbon in semiarid soil under plastic mulched drip irrigation. <i>Archives of Agronomy and Soil Science</i> , 2019, 65, 1873-1884.	1.3	7
425	Controls of organic matter bioreactivity on arsenic mobility in shallow aquifers of the Hetao Basin, P.R. China. <i>Journal of Hydrology</i> , 2019, 571, 448-459.	2.3	92
426	Real-time monitoring of nitrate in soils as a key for optimization of agricultural productivity and prevention of groundwater pollution. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3997-4010.	1.9	26
427	Compositional and chemical characteristics of dissolved organic matter in various types of cropped and natural Chinese soils. <i>Chemical and Biological Technologies in Agriculture</i> , 2019, 6, .	1.9	18
428	Plant toxicity and accumulation of biosolids-borne ciprofloxacin and azithromycin. <i>Science of the Total Environment</i> , 2019, 648, 1219-1226.	3.9	41
429	Retention-release of ciprofloxacin and azithromycin in biosolids and biosolids-amended soils. <i>Science of the Total Environment</i> , 2019, 650, 173-183.	3.9	24
430	Lead and antimony from bullet weathering in newly constructed target berms: Chemical speciation, mobilization, and remediation strategies. <i>Science of the Total Environment</i> , 2019, 658, 558-569.	3.9	11
431	Long-term straw mulch effects on crop yields and soil organic carbon fractions at different depths under a no-till system on the Chengdu Plain, China. <i>Journal of Soils and Sediments</i> , 2019, 19, 2143-2152.	1.5	21
432	Combined nitrogen fertilizer and wheat straw increases the cadmium phytoextraction efficiency of <i>Tagetes patula</i> . <i>Ecotoxicology and Environmental Safety</i> , 2019, 170, 210-217.	2.9	21
433	How understory vegetation affects the catalytic properties of soil extracellular hydrolases in a Chinese fir (<i>Cunninghamia lanceolata</i>) forest. <i>European Journal of Soil Biology</i> , 2019, 90, 15-21.	1.4	8
434	Soil Properties and Multi-Pollution Affect Taxonomic and Functional Bacterial Diversity in a Range of French Soils Displaying an Anthropisation Gradient. <i>Microbial Ecology</i> , 2019, 77, 993-1013.	1.4	23
435	Modeling dissolved organic nitrogen dynamics under different N management practices for intensive greenhouse production using an improved WHCNS_veg model. <i>Geoderma</i> , 2019, 337, 1039-1050.	2.3	13
436	Accumulation of nitrate and dissolved organic nitrogen at depth in a red soil Critical Zone. <i>Geoderma</i> , 2019, 337, 1175-1185.	2.3	45
437	Variations of soil nitrogen-fixing microorganism communities and nitrogen fractions in a <i>Robinia pseudoacacia</i> chronosequence on the Loess Plateau of China. <i>Catena</i> , 2019, 174, 316-323.	2.2	52
438	Typology of extreme flood event leads to differential impacts on soil functioning. <i>Soil Biology and Biochemistry</i> , 2019, 129, 153-168.	4.2	23

#	ARTICLE	IF	CITATIONS
439	Immobilization of cadmium in polluted soils by phytogenic iron oxide nanoparticles. <i>Science of the Total Environment</i> , 2019, 659, 491-498.	3.9	55
440	Soil parent material and stand development stage effects on labile soil C and N pools in Chinese fir plantations. <i>Geoderma</i> , 2019, 338, 247-258.	2.3	21
441	Isotope pool dilution reveals rapid turnover of small quaternary ammonium compounds. <i>Soil Biology and Biochemistry</i> , 2019, 131, 90-99.	4.2	18
442	Will heterotrophic soil respiration be more sensitive to warming than autotrophic respiration in subtropical forests?. <i>European Journal of Soil Science</i> , 2019, 70, 655-663.	1.8	17
443	Diversity patterns of the rhizosphere and bulk soil microbial communities along an altitudinal gradient in an alpine ecosystem of the eastern Tibetan Plateau. <i>Geoderma</i> , 2019, 338, 118-127.	2.3	139
444	Denitrification Rate and Controlling Factors for Accumulated Nitrate in the Deep Subsoil of Intensive Farmlands: A Case Study in the North China Plain. <i>Pedosphere</i> , 2019, 29, 516-526.	2.1	16
445	Effect of Freezing-Thawing Cycle on Soil Active Organic Carbon Fractions and Enzyme Activities in the Wetland of Sanjiang Plain, Northeast China. <i>Wetlands</i> , 2020, 40, 167-177.	0.7	9
446	Effect of Coapplication of Biochar and Nutrients on Microbiocenotic Composition, Dehydrogenase Activity Index and Chemical Properties of Sandy Soil. <i>Waste and Biomass Valorization</i> , 2020, 11, 3911-3923.	1.8	28
447	Soil nutrients of different land-use types and topographic positions in the water-wind erosion crisscross region of China's Loess Plateau. <i>Catena</i> , 2020, 184, 104243.	2.2	27
448	Biochar increases 15N fertilizer retention and indigenous soil N uptake in a cotton-barley rotation system. <i>Geoderma</i> , 2020, 357, 113944.	2.3	40
449	Co-incorporation of green manure and rice straw improves rice production, soil chemical, biochemical and microbiological properties in a typical paddy field in southern China. <i>Soil and Tillage Research</i> , 2020, 197, 104499.	2.6	95
450	Adaptive Fuzzy Inverse Optimal Control for Uncertain Strict-Feedback Nonlinear Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 2363-2374.	6.5	170
451	In situ methods of plant-microbial interactions for nitrogen in rhizosphere. <i>Rhizosphere</i> , 2020, 13, 100186.	1.4	23
452	Exploring anaerobic CO ₂ production response to elevated nitrate levels in Gulf of Mexico coastal wetlands: Phenomena and relationships. <i>Science of the Total Environment</i> , 2020, 709, 136158.	3.9	2
453	DNA stable isotope probing revealed no incorporation of ¹³ CO ₂ into comammox <i>Nitrospira</i> but ammonia-oxidizing archaea in a subtropical acid soil. <i>Journal of Soils and Sediments</i> , 2020, 20, 1297-1308.	1.5	8
454	Comparing the Effects of Biochar and Straw Amendment on Soil Carbon Pools and Bacterial Community Structure in Degraded Soil. <i>Journal of Soil Science and Plant Nutrition</i> , 2020, 20, 751-760.	1.7	14
455	Soil organic carbon and aggregation in response to thirty-nine years of tillage management in the southeastern US. <i>Soil and Tillage Research</i> , 2020, 197, 104523.	2.6	59
456	Water-soluble carbohydrates in <i>Patzkea paniculata</i> (L.): a plant strategy to tolerate snowpack reduction and spring drought in subalpine grasslands. <i>Plant Biology</i> , 2020, 22, 441-449.	1.8	6

#	ARTICLE	IF	CITATIONS
457	The sublethal lead (Pb) toxicity to the earthworm <i>Eisenia fetida</i> (Annelida, Oligochaeta) as affected by NaCl salinity and manure addition in a calcareous clay loam soil during an indoor mesocosm experiment. <i>Ecotoxicology and Environmental Safety</i> , 2020, 190, 110083.	2.9	14
458	Short-term response of soil N-cycling genes and transcripts to fertilization with nitrification and urease inhibitors, and relationship with field-scale N ₂ O emissions. <i>Soil Biology and Biochemistry</i> , 2020, 142, 107703.	4.2	28
459	C and N cycle under beech and hornbeam tree species in the Iranian old-growth forests. <i>Catena</i> , 2020, 187, 104406.	2.2	8
460	Effects of water and salinity on soil labile organic carbon in estuarine wetlands of the Yellow River Delta, China. <i>Ecohydrology and Hydrobiology</i> , 2020, 20, 556-569.	1.0	16
461	Soybeans Grown with Carbonaceous Nanomaterials Maintain Nitrogen Stoichiometry by Assimilating Soil Nitrogen to Offset Impaired Dinitrogen Fixation. <i>ACS Nano</i> , 2020, 14, 585-594.	7.3	15
462	Dynamics of soil water extractable organic carbon and inorganic nitrogen and their environmental controls in mountain forest and meadow ecosystems in China. <i>Catena</i> , 2020, 187, 104338.	2.2	7
463	Effect of rice straw, biochar and calcite on maize plant and Ni bio-availability in acidic Ni contaminated soil. <i>Journal of Environmental Management</i> , 2020, 259, 109674.	3.8	27
464	Prediction of free metal ion activity in contaminated soils using WHAM VII, baker soil test and solubility model. <i>Chemosphere</i> , 2020, 243, 125408.	4.2	14
465	Rice straw, biochar and calcite incorporation enhance nickel (Ni) immobilization in contaminated soil and Ni removal capacity. <i>Chemosphere</i> , 2020, 244, 125418.	4.2	49
466	Integrating cover crops with chicken grazing to improve soil nitrogen in rice fields and increase economic output. <i>Science of the Total Environment</i> , 2020, 713, 135218.	3.9	12
467	Co-incorporation of Chinese milk vetch (<i>Astragalus sinicus</i> L.) and rice (<i>Oryza sativa</i> L.) straw minimizes CH ₄ emissions by changing the methanogenic and methanotrophic communities in a paddy soil. <i>European Journal of Soil Science</i> , 2020, 71, 924-939.	1.8	12
468	Co-incorporation of rice straw and leguminous green manure can increase soil available nitrogen (N) and reduce carbon and N losses: An incubation study. <i>Pedosphere</i> , 2020, 30, 661-670.	2.1	51
469	Lime and/or Phosphate Application Affects the Stability of Soil Organic Carbon: Evidence from Changes in Quantity and Chemistry of the Soil Water-Extractable Organic Matter. <i>Environmental Science & Technology</i> , 2020, 54, 13908-13916.	4.6	11
470	Tree-scale spatial responses of extracellular enzyme activities and stoichiometry to different types of fertilization and cover crop in an apple orchard. <i>European Journal of Soil Biology</i> , 2020, 99, 103207.	1.4	9
471	Response of soil labile organic carbon fractions and carbon-cycle enzyme activities to vegetation degradation in a wet meadow on the Qinghai-Tibet Plateau. <i>Geoderma</i> , 2020, 377, 114565.	2.3	51
472	Soil labile organic carbon fractions and soil enzyme activities after 10 years of continuous fertilization and wheat residue incorporation. <i>Scientific Reports</i> , 2020, 10, 11318.	1.6	58
473	Nutrient Availability under Lettuce Grown in Rye Mulch in Histosols. <i>Nitrogen</i> , 2020, 1, 137-150.	0.6	2
474	Optimizing soil dissolved organic matter extraction by grey relational analysis. <i>Pedosphere</i> , 2020, 30, 589-596.	2.1	4

#	ARTICLE	IF	CITATIONS
475	Co-application of a biochar and an electric potential accelerates soil nitrate removal while decreasing N ₂ O emission. <i>Soil Biology and Biochemistry</i> , 2020, 149, 107946.	4.2	12
476	Revegetation type drives rhizosphere arbuscular mycorrhizal fungi and soil organic carbon fractions in the mining subsidence area of northwest China. <i>Catena</i> , 2020, 195, 104791.	2.2	21
477	Higher tree diversity increases soil microbial resistance to drought. <i>Communications Biology</i> , 2020, 3, 377.	2.0	25
478	Efficiency of KOH-modified rice straw-derived biochar for reducing cadmium mobility, bioaccessibility and bioavailability risk index in red soil. <i>Pedosphere</i> , 2020, 30, 874-882.	2.1	41
479	Estimating dissolved carbon concentrations in global soils: a global database and model. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	14
480	Chinese privet (<i>Ligustrum sinense</i> Lour.) alters the timing of litterfall and nutrient quality of leaf litter inputs in invaded riparian forests. <i>Biological Invasions</i> , 2020, 22, 3561-3574.	1.2	4
481	Effect of Maize Straw-Derived Biochar on Calcareous Arable Soil Organic Carbon Mineralization Under the Condition of with or Without Nitrogen-Fertilizer Addition. <i>Journal of Soil Science and Plant Nutrition</i> , 2020, 20, 2606-2616.	1.7	3
482	High Aluminum Drives Different Rhizobacterial Communities Between Aluminum-Tolerant and Aluminum-Sensitive Wild Soybean. <i>Frontiers in Microbiology</i> , 2020, 11, 1996.	1.5	22
483	Monitoring Soil Microorganisms with Community-Level Physiological Profiles Using Biolog EcoPlates [®] in Chaohu Lakeside Wetland, East China. <i>Eurasian Soil Science</i> , 2020, 53, 1142-1153.	0.5	7
484	Variability and controls of soil CO ₂ fluxes under different tillage and crop residue managements in a wheat-maize double-cropping system. <i>Environmental Science and Pollution Research</i> , 2020, 27, 45722-45736.	2.7	0
485	Effects of long-term fertiliser regime on soil organic carbon and its labile fractions under double cropping rice system of southern China. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2020, 70, 409-418.	0.3	10
486	Sorption-desorption mechanisms and environmental friendliness of different surfactants in enhancing remediation of soil contaminated with polycyclic aromatic hydrocarbons. <i>Journal of Soils and Sediments</i> , 2020, 20, 2817-2828.	1.5	9
487	Increasing soil organic carbon with maize in cotton-based cropping systems: Mechanisms and potential. <i>Agriculture, Ecosystems and Environment</i> , 2020, 299, 106985.	2.5	13
488	Nitrous oxide emissions from tea garden soil following the addition of urea and rapeseed cake. <i>Journal of Soils and Sediments</i> , 2020, 20, 3330-3339.	1.5	5
489	A novel extracellular enzyme stoichiometry method to evaluate soil heavy metal contamination: Evidence derived from microbial metabolic limitation. <i>Science of the Total Environment</i> , 2020, 738, 139709.	3.9	45
490	Nitrogen addition change soil N pools with litter removal or not in subtropical forest. <i>Soil Science and Plant Nutrition</i> , 2020, 66, 421-428.	0.8	3
491	Soil biota from newly established orchards are more beneficial to early growth of cherry trees than biota from older orchards. <i>Applied Soil Ecology</i> , 2020, 155, 103658.	2.1	4
492	Effects of abandonment management on soil C and N pools in Moso bamboo forests. <i>Science of the Total Environment</i> , 2020, 729, 138949.	3.9	13

#	ARTICLE	IF	CITATIONS
493	Factors controlling organic carbon distributions in a riverine wetland. <i>Environmental Science and Pollution Research</i> , 2020, 27, 34529-34540.	2.7	11
494	Nutrient cycling and soil-related processes under different land covers of semi-arid rangeland ecosystems in northern Iran. <i>Catena</i> , 2020, 193, 104621.	2.2	27
495	Soil organic matter dynamics and microbial metabolism along an altitudinal gradient in Highland tropical forests. <i>Science of the Total Environment</i> , 2020, 741, 140143.	3.9	14
496	Short-term responses of soil organic carbon and its labile fractions to different manure Nitrogen input in a double-cropping rice field. <i>Journal of Agricultural Science</i> , 2020, 158, 119-127.	0.6	5
497	The impacts of a biochar application on selected soil properties and bacterial communities in an Albic Clayic Luvisol. <i>Soil and Water Research</i> , 2020, 15, 85-92.	0.7	4
498	Fractionation and chemical structure of dissolved organic matter in the rhizosphere associated with cadmium accumulation in tobacco lines (<i>Nicotiana tabacum</i> L.). <i>Environmental Science and Pollution Research</i> , 2020, 27, 17794-17803.	2.7	7
499	Trafficking intensity index for soil compaction management in grasslands. <i>Soil Use and Management</i> , 2021, 37, 504-518.	2.6	14
500	Comparisons of the effects of different drying methods on soil nitrogen fractions: Insights into emissions of reactive nitrogen gases (HONO and NO). <i>Atmospheric and Oceanic Science Letters</i> , 2020, 13, 224-231.	0.5	7
501	Distribution and molecular chemodiversity of dissolved organic nitrogen in the vadose zone-groundwater system of a fluvial plain, northern China: Implications for understanding its loss pathway to groundwater. <i>Science of the Total Environment</i> , 2020, 723, 137928.	3.9	18
502	Litter Inputs, but Not Litter Diversity, Maintain Soil Processes in Degraded Tropical Forests—A Cross-Continental Comparison. <i>Frontiers in Forests and Global Change</i> , 2020, 2, .	1.0	22
503	Season-dependent effect of snow depth on soil microbial biomass and enzyme activity in a temperate forest in Northeast China. <i>Catena</i> , 2020, 195, 104760.	2.2	18
504	Characterization of dissolved organic matter in the rhizosphere of phytostabilizer <i>Athyrium wardii</i> (Hook.) involved in enhanced metal accumulation when exposed to Cd and Pb co-contamination. <i>Environmental Pollution</i> , 2020, 266, 115196.	3.7	19
505	Simulating nitrate and DON leaching to optimize water and N management practices for greenhouse vegetable production systems. <i>Agricultural Water Management</i> , 2020, 241, 106377.	2.4	25
506	Soil microbial and nutrient responses over seven years of organic apple orchard maturation. <i>Nutrient Cycling in Agroecosystems</i> , 2020, 118, 23-38.	1.1	8
507	Effects of UVâ€B radiation on soil carbon conversion and greenhouse gas emission in paddy soil. , 2020, 10, 965-979.		4
508	Cooperation between <i>Sporobolus airoides</i> and associated arbuscular mycorrhizal fungi for phosphorus acquisition under drought conditions in an oligotrophic desert ecosystem. <i>Rhizosphere</i> , 2020, 15, 100225.	1.4	8
509	Historical climate legacies on soil respiration persist despite extreme changes in rainfall. <i>Soil Biology and Biochemistry</i> , 2020, 143, 107752.	4.2	33
510	Microtopography is a fundamental organizing structure of vegetation and soil chemistry in black ash wetlands. <i>Biogeosciences</i> , 2020, 17, 901-915.	1.3	25

#	ARTICLE	IF	CITATIONS
511	Nitrogen, Phosphorus, and Potassium Resorption Responses of Alfalfa to Increasing Soil Water and P Availability in a Semi-Arid Environment. <i>Agronomy</i> , 2020, 10, 310.	1.3	8
512	Spatiotemporal variations in soil CO ₂ fluxes under a winter wheat-summer maize cropping system in the North China Plain. <i>Nutrient Cycling in Agroecosystems</i> , 2020, 117, 103-119.	1.1	5
513	Impact of forest degradation and reforestation with <i>Alnus</i> and <i>Quercus</i> species on soil quality and function in northern Iran. <i>Ecological Indicators</i> , 2020, 112, 106132.	2.6	22
514	Plant growth drives soil nitrogen cycling and N-related microbial activity through changing root traits. <i>Fungal Ecology</i> , 2020, 44, 100910.	0.7	14
515	Nitrogen pools in soil covered by biological soil crusts of different successional stages in a temperate desert in Central Asia. <i>Geoderma</i> , 2020, 366, 114166.	2.3	35
516	Linking nitrous oxide emissions from starch wastewater digestate amended soil to the abundance and structure of denitrifier communities. <i>Science of the Total Environment</i> , 2020, 722, 137406.	3.9	5
517	Substrate availability and soil microbes drive temperature sensitivity of soil organic carbon mineralization to warming along an elevation gradient in subtropical Asia. <i>Geoderma</i> , 2020, 364, 114198.	2.3	41
518	Reducing yield-scaled global warming potential and water use by rice plastic film mulching in a winter flooded paddy field. <i>European Journal of Agronomy</i> , 2020, 114, 126007.	1.9	22
519	Influencing pathways of soil microbial attributes on accumulation of heavy metals in brassica (<i>Brassica campestris</i> L. ssp. <i>chinensis</i> var. <i>utilis</i> Tsen et Lee) leaves. <i>Environmental Pollution</i> , 2020, 262, 114215.	3.7	19
520	Succession from meadow to mature forest: Impacts on soil biological, chemical and physical properties—Evidence from the Pieniny Mountains, Poland. <i>Catena</i> , 2020, 189, 104503.	2.2	21
521	Total soil organic carbon increases but becomes more labile after afforestation in China's Loess Plateau. <i>Forest Ecology and Management</i> , 2020, 461, 117911.	1.4	27
522	Fencing as an effective approach for restoration of alpine meadows: Evidence from nutrient limitation of soil microbes. <i>Geoderma</i> , 2020, 363, 114148.	2.3	42
523	Fertilization regime has a greater effect on soil microbial community structure than crop rotation and growth stage in an agroecosystem. <i>Applied Soil Ecology</i> , 2020, 149, 103510.	2.1	82
524	Geochemical Multisurface Modeling of Reactive Zinc Speciation in Compost as Influenced by Extraction Conditions. <i>Environmental Science & Technology</i> , 2020, 54, 2467-2475.	4.6	10
525	Zeolite-supported nanoscale zero-valent iron for immobilization of cadmium, lead, and arsenic in farmland soils: Encapsulation mechanisms and indigenous microbial responses. <i>Environmental Pollution</i> , 2020, 260, 114098.	3.7	83
526	Green manure incorporation with reductions in chemical fertilizer inputs improves rice yield and soil organic matter accumulation. <i>Journal of Soils and Sediments</i> , 2020, 20, 2784-2793.	1.5	21
527	Arbuscular mycorrhizal fungi increase the bioavailability and wheat (<i>Triticum aestivum</i> L.) uptake of selenium in soil. <i>Industrial Crops and Products</i> , 2020, 150, 112383.	2.5	19
528	Soil moisture mediates microbial carbon and phosphorus metabolism during vegetation succession in a semiarid region. <i>Soil Biology and Biochemistry</i> , 2020, 147, 107814.	4.2	140

#	ARTICLE	IF	CITATIONS
529	Long-time precipitation reduction and nitrogen deposition increase alter soil nitrogen dynamic by influencing soil bacterial communities and functional groups. <i>Pedosphere</i> , 2020, 30, 363-377.	2.1	30
530	Effects of Contemporary Land Use Types and Conversions from Wetland to Paddy Field or Dry Land on Soil Organic Carbon Fractions. <i>Sustainability</i> , 2020, 12, 2094.	1.6	11
531	Hyperspectral imaging for high-resolution mapping of soil carbon fractions in intact paddy soil profiles with multivariate techniques and variable selection. <i>Geoderma</i> , 2020, 370, 114358.	2.3	30
532	Multilevel Nitrogen Additions Alter Chemical Composition and Turnover of the Labile Fraction Soil Organic Matter via Effects on Vegetation and Microorganisms. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005316.	1.3	7
533	Variations of dissolved organic matter and Cu fractions in rhizosphere soil induced by the root activities of castor bean. <i>Chemosphere</i> , 2020, 254, 126800.	4.2	34
534	Regolith property controls on nitrate accumulation in a typical vadose zone in subtropical China. <i>Catena</i> , 2020, 192, 104589.	2.2	21
535	Biochar and phosphorus fertilization improved soil quality and inorganic phosphorus fractions in saline-alkaline soils. <i>Archives of Agronomy and Soil Science</i> , 2021, 67, 1177-1190.	1.3	18
536	Abiotic and biotic controls of soil dissolved organic nitrogen along a precipitation gradient on the Tibetan plateau. <i>Plant and Soil</i> , 2021, 459, 65-78.	1.8	7
537	Extracellular enzyme stoichiometry reveals the carbon and phosphorus limitations of microbial metabolisms in the rhizosphere and bulk soils in alpine ecosystems. <i>Plant and Soil</i> , 2021, 458, 7-20.	1.8	107
538	Identifying nitrate sources in surface water, regolith and groundwater in a subtropical red soil Critical Zone by using dual nitrate isotopes. <i>Catena</i> , 2021, 198, 104994.	2.2	24
539	Pathogen-Induced Tree Mortality Modifies Key Components of the C and N Cycles with No Changes on Microbial Functional Diversity. <i>Ecosystems</i> , 2021, 24, 451-466.	1.6	8
540	Soil organic carbon transformation and dynamics of microorganisms under different organic amendments. <i>Science of the Total Environment</i> , 2021, 750, 141719.	3.9	35
541	Amino acid profile characterization during the co-composting of a livestock manure and maize straw mixture. <i>Journal of Cleaner Production</i> , 2021, 278, 123494.	4.6	29
542	Root traits explain rhizosphere fungal community composition among temperate grassland plant species. <i>New Phytologist</i> , 2021, 229, 1492-1507.	3.5	102
543	Mine Water Source Discrimination Based on Hydrogeochemical Characteristics in the Northern Ordos Basin, China. <i>Mine Water and the Environment</i> , 2021, 40, 433-441.	0.9	18
544	Contrasting short-term responses of soil heterotrophic and autotrophic respiration to biochar-based and chemical fertilizers in a subtropical Moso bamboo plantation. <i>Applied Soil Ecology</i> , 2021, 157, 103758.	2.1	18
545	DGT methodology is more sensitive than conventional extraction strategies in assessing amendment-induced soil cadmium availability to rice. <i>Science of the Total Environment</i> , 2021, 760, 143949.	3.9	19
546	Changes in soil organic carbon status and microbial community structure following biogas slurry application in a wheat-rice rotation. <i>Science of the Total Environment</i> , 2021, 757, 143786.	3.9	40

#	ARTICLE	IF	CITATIONS
547	Can ridge-furrow with film and straw mulching improve wheat-maize system productivity and maintain soil fertility on the Loess Plateau of China?. <i>Agricultural Water Management</i> , 2021, 246, 106686.	2.4	30
548	Biogeochemical characteristics and hydroperiod affect carbon dioxide flux rates from exposed high-elevation pond sediments. <i>Limnology and Oceanography</i> , 2021, 66, 1050-1067.	1.6	3
549	Rates and microbial communities of denitrification and anammox across coastal tidal flat lands and inland paddy soils in East China. <i>Applied Soil Ecology</i> , 2021, 157, 103768.	2.1	20
550	Succession of the composition and co-occurrence networks of rhizosphere microbiota is linked to Cd/Zn hyperaccumulation. <i>Soil Biology and Biochemistry</i> , 2021, 153, 108120.	4.2	33
551	A combined method for the source apportionment of sediment organic carbon in rivers. <i>Science of the Total Environment</i> , 2021, 752, 141840.	3.9	11
552	Sulfate-reducing bacterial community shifts in response to acid mine drainage in the sediment of the Hengshi watershed, South China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 2822-2834.	2.7	20
553	Development of droplet digital PCR assays to quantify genes involved in nitrification and denitrification, comparison with quantitative real-time PCR and validation of assays in vineyard soil. <i>Canadian Journal of Microbiology</i> , 2021, 67, 174-187.	0.8	9
554	Early growing season immobilisation affects post-tillering wheat nitrogen uptake from crop stubble and 15N fertiliser in a sandy soil. <i>Soil Research</i> , 2021, 59, 239.	0.6	1
555	Effects of inorganic and organic fertilizers on CO ₂ and CH ₄ fluxes from tea plantation soil. <i>Elementa</i> , 2021, 9, .	1.1	13
557	Litter and soil characteristics mediate the buffering effect of snow cover on litter decomposition. <i>Plant and Soil</i> , 2021, 460, 511-525.	1.8	8
558	Nano-based soil conditioners eradicate micronutrient deficiency: soil physicochemical properties and plant molecular responses. <i>Environmental Science: Nano</i> , 2021, 8, 2824-2843.	2.2	5
559	Diffusive fluxes and water-extractable concentrations of different nitrogen forms in a temperate agricultural soil. <i>Soil Research</i> , 2021, , .	0.6	1
560	Organic mulching promotes soil organic carbon accumulation to deep soil layer in an urban plantation forest. <i>Forest Ecosystems</i> , 2021, 8, .	1.3	18
561	<i>E. coli</i> Is a Poor End-Product Criterion for Assessing the General Microbial Risk Posed From Consuming Norovirus Contaminated Shellfish. <i>Frontiers in Microbiology</i> , 2021, 12, 608888.	1.5	9
562	Changes in microbial utilization and fate of soil carbon following the addition of different fractions of anaerobic digestate to soils. <i>European Journal of Soil Science</i> , 2021, 72, 2398-2413.	1.8	10
563	Organic mulching masks rhizosphere effects on carbon and nitrogen fractions and enzyme activities in urban greening space. <i>Journal of Soils and Sediments</i> , 2021, 21, 1621-1632.	1.5	7
564	Soil ecoenzymatic stoichiometry and microbial resource limitation driven by thinning practices and season types in <i>Larix principis-rupprechtii</i> plantations in North China. <i>Forest Ecology and Management</i> , 2021, 482, 118880.	1.4	22
565	Climate change alters temporal dynamics of alpine soil microbial functioning and biogeochemical cycling via earlier snowmelt. <i>ISME Journal</i> , 2021, 15, 2264-2275.	4.4	51

#	ARTICLE	IF	CITATIONS
566	Increased nitrogen availability alters soil carbon quality by regulating microbial growth strategy, metabolic efficiency, and biomass in degraded temperate grasslands. Land Degradation and Development, 2021, 32, 3550-3560.	1.8	8
568	Interactions among hydro-aeolian processes and micro-geomorphology stimulate hot spots of sediment carbon source and sink within a coppice dune system. Physical Geography, 2022, 43, 487-502.	0.6	2
569	Converting cropland to plantation decreases soil organic carbon stock and liable fractions in the fertile alluvial plain of eastern China. Geoderma Regional, 2021, 24, e00356.	0.9	10
570	Alpine soil microbial community structure and diversity are largely influenced by moisture content in the Zoige wetland. International Journal of Environmental Science and Technology, 2022, 19, 4369-4378.	1.8	9
571	Toxicity of biogenic zinc oxide nanoparticles to soil organic matter cycling and their interaction with rice-straw derived biochar. Scientific Reports, 2021, 11, 8429.	1.6	20
572	Niche Selection by Soil Bacterial Community of Disturbed Subalpine Forests in Western Sichuan. Forests, 2021, 12, 505.	0.9	6
573	Four years of litter input manipulation changes soil microbial characteristics in a temperate mixed forest. Biogeochemistry, 2021, 154, 371-383.	1.7	11
574	Evidence for nickel mobilisation in rhizosphere soils of Ni hyperaccumulator <i>Odontarrhena serpyllifolia</i> . Plant and Soil, 2021, 464, 89.	1.8	5
575	Controlling organic interference in determination of soil mineral nitrogen. Soil Science Society of America Journal, 2021, 85, 919-928.	1.2	1
576	Comparing the long-term responses of soil microbial structures and diversities to polyethylene microplastics in different aggregate fractions. Environment International, 2021, 149, 106398.	4.8	115
577	Are researchers following best storage practices for measuring soil biochemical properties?. Soil, 2021, 7, 95-106.	2.2	7
578	Influence of Planting Density on the Phytoremediation Efficiency of <i>Festuca arundinacea</i> in Polluted Soil. Bulletin of Environmental Contamination and Toxicology, 2021, 107, 154-159.	1.3	7
579	Amino acids dominate diffusive nitrogen fluxes across soil depths in acidic tussock tundra. New Phytologist, 2021, 231, 2162-2173.	3.5	13
580	Variations in Soil Enzyme Activities and Microbial Communities along an Altitudinal Gradient on the Eastern Qinghai-Tibetan Plateau. Forests, 2021, 12, 681.	0.9	8
581	The content, composition, and influencing factors of organic carbon in the sediments of two types of constructed wetlands. Environmental Science and Pollution Research, 2021, 28, 49206-49219.	2.7	12
582	Effects of straw incorporation and potassium fertilizer on crop yields, soil organic carbon, and active carbon in the rice-wheat system. Soil and Tillage Research, 2021, 209, 104958.	2.6	54
583	Soil organic carbon cycling in response to simulated soil moisture variation under field conditions. Scientific Reports, 2021, 11, 10841.	1.6	20
584	Tree cover mediate indices related to the content of organic matter and the size of microbial population in semi-arid ecosystems. Journal of Environmental Management, 2021, 285, 112144.	3.8	0

#	ARTICLE	IF	CITATIONS
585	Bacterial communities drive the resistance of soil multifunctionality to land-use change in karst soils. <i>European Journal of Soil Biology</i> , 2021, 104, 103313.	1.4	25
586	Improvement of alfalfa resistance against Cd stress through rhizobia and arbuscular mycorrhiza fungi co-inoculation in Cd-contaminated soil. <i>Environmental Pollution</i> , 2021, 277, 116758.	3.7	78
587	Topsoil organic carbon increases but its stability declines after five years of reduced throughfall. <i>Soil Biology and Biochemistry</i> , 2021, 156, 108221.	4.2	10
588	Drivers controlling spatial and temporal variation of microbial properties and dissolved organic forms (DOC and DON) in fen soils with persistently low water tables. <i>Global Ecology and Conservation</i> , 2021, 27, e01605.	1.0	6
589	Dynamic changes of soil microbial community in <i>Pinus sylvestris</i> var. <i>mongolica</i> plantations in the Mu Us Sandy Land. <i>Journal of Environmental Management</i> , 2021, 287, 112306.	3.8	32
590	The driving effect of nitrogen-related functional microorganisms under water and nitrogen addition on N ₂ O emission in a temperate desert. <i>Science of the Total Environment</i> , 2021, 772, 145470.	3.9	18
591	Differential Organic Carbon Mineralization Responses to Soil Moisture in Three Different Soil Orders Under Mixed Forested System. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	7
592	The effects of hummock-hollow microtopography on soil organic carbon stocks and soil labile organic carbon fractions in a sedge peatland in Changbai Mountain, China. <i>Catena</i> , 2021, 201, 105204.	2.2	27
593	Nutritive and non-nutritive effects of compost on organic dryland wheat in Utah. <i>Agronomy Journal</i> , 2021, 113, 3518-3531.	0.9	3
594	Soil C and Aggregate Stability Were Promoted by Bio-fertilizer on the North China Plain. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 2355-2363.	1.7	10
595	Effect of Forest Management Operations on Aggregate-Associated SOC Dynamics Using a ¹³⁷ Cs Tracing Method. <i>Forests</i> , 2021, 12, 859.	0.9	11
596	Thermal stability of soil organic carbon subjected to water erosion as a function of edaphic factors. <i>International Journal of Sediment Research</i> , 2022, 37, 26-36.	1.8	4
597	Contribution of different proton sources to the acidification of red soil with maize cropping in subtropical China. <i>Geoderma</i> , 2021, 392, 114995.	2.3	29
598	Climate and atmospheric deposition drive the inter-annual variability and long-term trend of dissolved organic carbon flux in the conterminous United States. <i>Science of the Total Environment</i> , 2021, 771, 145448.	3.9	14
599	Interaction effects of environmental factors on soil nitrogen fractions based on a novel sequential extraction method. <i>European Journal of Soil Science</i> , 2022, 73, .	1.8	3
600	Soil Organic Matter Characterization by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry (FTICR MS): A Critical Review of Sample Preparation, Analysis, and Data Interpretation. <i>Environmental Science & Technology</i> , 2021, 55, 9637-9656.	4.6	88
601	Responses of CH ₄ flux and microbial diversity to changes in rainfall amount and frequencies in a wet meadow in the Tibetan Plateau. <i>Catena</i> , 2021, 202, 105253.	2.2	23
602	Dynamics of dissolved organic matter and dissolved organic nitrogen during anaerobic/anoxic/oxic treatment processes. <i>Bioresource Technology</i> , 2021, 331, 125026.	4.8	30

#	ARTICLE	IF	CITATIONS
603	Linkage of aggregate formation, aggregate-associated C distribution, and microorganisms in two different-textured ultisols: A short-term incubation experiment. <i>Geoderma</i> , 2021, 394, 114979.	2.3	7
604	Soil functional indicators in a mountain forest-rangeland mosaic of northern Iran. <i>Ecological Indicators</i> , 2021, 126, 107672.	2.6	10
605	Effects of different returning method combined with decomposer on decomposition of organic components of straw and soil fertility. <i>Scientific Reports</i> , 2021, 11, 15495.	1.6	14
607	Soil abiotic properties and plant functional diversity co-regulate the impacts of nitrogen addition on ecosystem multifunctionality in an alpine meadow. <i>Science of the Total Environment</i> , 2021, 780, 146476.	3.9	15
608	Divergent effects of hydrological alteration and nutrient addition on greenhouse gas emissions in the water level fluctuation zone of the Three Gorges Reservoir, China. <i>Water Research</i> , 2021, 201, 117308.	5.3	25
609	Conservation agriculture increases the soil resilience and cotton yield stability in climate extremes of the southeast US. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	21
610	Small-scale variation in a pristine montane cloud forest: evidence on high soil fungal diversity and biogeochemical heterogeneity. <i>PeerJ</i> , 2021, 9, e11956.	0.9	3
611	Specific protistan consumers and parasites are responsive to inorganic fertilization in rhizosphere and bulk soils. <i>Journal of Soils and Sediments</i> , 2021, 21, 3801-3812.	1.5	10
612	Effects of nitrogen addition on plant-soil-microbe stoichiometry characteristics of different functional group species in <i>Bothriochloa ischemum</i> community. <i>Soil Ecology Letters</i> , 2022, 4, 362-375.	2.4	4
613	Watershed scale patterns and controlling factors of ecosystem respiration and methane fluxes in a Tibetan alpine grassland. <i>Agricultural and Forest Meteorology</i> , 2021, 306, 108451.	1.9	1
614	The changes of rhizosphere characteristics contributed to enhanced Pb accumulation in <i>Athyrium wardii</i> (Hook.) Makino after nitrilotriacetic acid application. <i>Environmental Science and Pollution Research</i> , 2021, , 1.	2.7	2
615	Influence of light-irradiated <i>Noccaea caerulescens</i> on the characteristics of dissolved organic matter in its rhizospheric soil during phytoremediation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 2642-2649.	2.7	2
616	Microplastics pollution from different plastic mulching years accentuate soil microbial nutrient limitations. <i>Gondwana Research</i> , 2022, 108, 91-101.	3.0	40
617	Impact of common sample pre-treatments on key soil microbial properties. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108321.	4.2	29
618	Effects of decapitated and root-pruned <i>Sedum alfredii</i> on the characterization of dissolved organic matter and enzymatic activity in rhizosphere soil during Cd phytoremediation. <i>Journal of Hazardous Materials</i> , 2021, 417, 125977.	6.5	14
619	Soil properties and microbial abundance explain variations in N ₂ O fluxes from temperate steppe soil treated with nitrogen and water in Inner Mongolia, China. <i>Applied Soil Ecology</i> , 2021, 165, 103984.	2.1	10
620	Transformations of N derived from straw under long-term conventional and no-tillage soils: A 15N labelling study. <i>Science of the Total Environment</i> , 2021, 786, 147428.	3.9	18
621	Linking soils and streams: Chemical composition and sources of eroded organic matter during rainfall events in a Loess hilly-gully region of China. <i>Journal of Hydrology</i> , 2021, 600, 126518.	2.3	4

#	ARTICLE	IF	CITATIONS
622	Temperature differently affected methanogenic pathways and microbial communities in sub-Antarctic freshwater ecosystems. <i>Environment International</i> , 2021, 154, 106575.	4.8	21
623	Plant-mediated effects of long-term warming on soil microorganisms on the Qinghai-Tibet Plateau. <i>Catena</i> , 2021, 204, 105391.	2.2	32
624	Soil greenhouse gas fluxes from a humid tropical forest and differently managed urban parkland in Singapore. <i>Science of the Total Environment</i> , 2021, 786, 147305.	3.9	4
625	Increases in Potentially Mineralizable and Dissolved Organic Nitrogen in a Sandy Surface Soil Fertilized with Nitrogen are Greater with Lupin than Wheat Residues. <i>Journal of Soil Science and Plant Nutrition</i> , 0, , 1.	1.7	0
626	Plants use rhizosphere metabolites to regulate soil microbial diversity. <i>Land Degradation and Development</i> , 2021, 32, 5267-5280.	1.8	30
627	Do DOM optical parameters improve the prediction of copper availability in vineyard soils?. <i>Environmental Science and Pollution Research</i> , 2022, 29, 29268-29284.	2.7	6
628	Spatial distribution and stability mechanisms of soil organic carbon in a tropical montane rainforest. <i>Ecological Indicators</i> , 2021, 129, 107965.	2.6	7
629	Effects of sulfur-rich biochar amendment on microbial methylation of mercury in rhizosphere paddy soil and methylmercury accumulation in rice. <i>Environmental Pollution</i> , 2021, 286, 117290.	3.7	25
630	Influence of biochar and biochar-based fertilizer on yield, quality of tea and microbial community in an acid tea orchard soil. <i>Applied Soil Ecology</i> , 2021, 166, 104005.	2.1	67
631	Variations in soil microbial communities in the sedge-dominated peatlands along an altitude gradient on the northern slope of Changbai Mountain, China. <i>Ecological Indicators</i> , 2021, 129, 107964.	2.6	11
632	The magnitude and direction of priming were driven by soil moisture and temperature in a temperate forest soil of China. <i>Pedobiologia</i> , 2021, 89, 150769.	0.5	13
633	Soil function can sensitively respond to different canopy composition of <i>Crataegus</i> and <i>Berberis</i> . <i>Applied Soil Ecology</i> , 2021, 167, 104112.	2.1	2
634	Effects of water flow on performance of soil microbial fuel cells: Electricity generation, benzo[a]pyrene removal, microbial community and molecular ecological networks. <i>Environmental Research</i> , 2021, 202, 111658.	3.7	5
635	Rates of soil respiration components in response to inorganic and organic fertilizers in an intensively-managed Moso bamboo forest. <i>Geoderma</i> , 2021, 403, 115212.	2.3	16
636	Alteration of desert soil microbial community structure in response to agricultural reclamation and abandonment. <i>Catena</i> , 2021, 207, 105678.	2.2	16
637	Rhizosphere soil metabolites mediated microbial community changes of <i>Pinus sylvestris</i> var. <i>mongolica</i> across stand ages in the Mu Us Desert. <i>Applied Soil Ecology</i> , 2022, 169, 104222.	2.1	22
638	Structural and Functional Alterations in Soil Bacterial Community Compositions after Fifteen-Years Restoration of Chaohu Lakeside Wetland, East China. <i>Eurasian Soil Science</i> , 2021, 54, 98-107.	0.5	1
640	Altered litter inputs modify carbon and nitrogen storage in soil organic matter in a lowland tropical forest. <i>Biogeochemistry</i> , 2021, 156, 115-130.	1.7	17

#	ARTICLE	IF	CITATIONS
641	Labile soil organic matter pools under a mixed grass/lucerne pasture and adjacent native bush in Western Australia. <i>Soil Research</i> , 2007, 45, 333.	0.6	11
642	Linkage between soil organic carbon and the utilization of soil microbial carbon under plastic film mulching in a semi-arid agroecosystem in China. <i>Archives of Agronomy and Soil Science</i> , 2019, 65, 1788-1801.	1.3	10
644	Study on the Diversity of Fungal and Bacterial Communities in Continuous Cropping Fields of Chinese Chives (<i>Allium tuberosum</i>). <i>BioMed Research International</i> , 2020, 2020, 1-14.	0.9	15
645	Acquisition and Assimilation of Nitrogen as Peptide-Bound and D-Enantiomers of Amino Acids by Wheat. <i>PLoS ONE</i> , 2011, 6, e19220.	1.1	118
646	Decomposition of Organic Carbon in Fine Soil Particles Is Likely More Sensitive to Warming than in Coarse Particles: An Incubation Study with Temperate Grassland and Forest Soils in Northern China. <i>PLoS ONE</i> , 2014, 9, e95348.	1.1	27
647	Inorganic Nitrogen Supply and Dissolved Organic Nitrogen Abundance across the US Great Plains. <i>PLoS ONE</i> , 2014, 9, e107775.	1.1	2
648	Contents and distribution characteristics of soluble organic nitrogen in surface sediments of lakes. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2009, 21, 623-630.	0.3	4
649	Natural Organic Compounds in Soil Solution: Potential Role as Soil Quality Indicators. <i>Current Organic Chemistry</i> , 2013, 17, 2991-2997.	0.9	27
650	Distribution of aluminium fractions in acid forest soils: influence of vegetation changes. <i>IForest</i> , 2018, 11, 721-727.	0.5	8
651	Effect of exogenous nitrogen and phosphorus inputs on the microbe-soil interaction in the secondary <i>Castanopsis sclerophylla</i> forest in east China. <i>IForest</i> , 2018, 11, 794-801.	0.5	5
652	Dissolved Organic Carbon and Nitrogen in Andisol for Six Crop Rotations with Different Soil Management Intensity. <i>Chilean Journal of Agricultural Research</i> , 2009, 69, .	0.4	15
653	Shifts in Carbon Stocks through Soil Profiles Following Management Change in Intensive Agricultural Systems. <i>Agricultural Sciences</i> , 2015, 06, 304-314.	0.2	2
654	Spatial Pattern of Dissolved Organic Carbon and its Specific Ultraviolet Absorbance under Different Scales in a Wetland Complex on the Eastern Tibetan Plateau. <i>Ekoloji</i> , 2014, , 16-21.	0.4	4
656	Agricultural land-use change in a Mexican oligotrophic desert depletes ecosystem stability. <i>PeerJ</i> , 2016, 4, e2365.	0.9	13
657	The response of soil microbial communities to variation in annual precipitation depends on soil nutritional status in an oligotrophic desert. <i>PeerJ</i> , 2017, 5, e4007.	0.9	10
658	Microbial secondary succession in soil microcosms of a desert oasis in the Cuatro Ciénegas Basin, Mexico. <i>PeerJ</i> , 2013, 1, e47.	0.9	50
659	Dynamics of soil properties and fungal community structure in continuous-cropped alfalfa fields in Northeast China. <i>PeerJ</i> , 2019, 7, e7127.	0.9	17
660	Responses of Arbuscular Mycorrhizal Fungi Diversity and Community to 41-Year Rotation Fertilization in Brown Soil Region of Northeast China. <i>Frontiers in Microbiology</i> , 2021, 12, 742651.	1.5	10

#	ARTICLE	IF	CITATIONS
661	Enrichment of <i>N-fixing</i> type denitrifiers by arbuscular mycorrhizal fungi mitigates N_2O emissions from soybean stubbles. <i>Environmental Microbiology</i> , 2021, 23, 6587-6602.	1.8	13
662	Long-term organic amendments improved soil carbon sequestration to support crop production. <i>Journal of Plant Nutrition and Soil Science</i> , 0, .	1.1	3
663	Labile organic carbon fractions drive soil microbial communities after long-term fertilization. <i>Global Ecology and Conservation</i> , 2021, 32, e01867.	1.0	20
664	Chemodiversity of Soil Dissolved Organic Matter and Its Association With Soil Microbial Communities Along a Chronosequence of Chinese Fir Monoculture Plantations. <i>Frontiers in Microbiology</i> , 2021, 12, 729344.	1.5	12
665	Contribution of above ground litterfall and roots to the soil CO ₂ efflux of two sub-tropical <i>Cunninghamia lanceolata</i> and <i>Castanopsis carlesii</i> forests. <i>Agricultural and Forest Meteorology</i> , 2021, 311, 108671.	1.9	11
666	Topsoil and subsoil C and N turnover are affected by superficial lime and gypsum application in the short-term. <i>Soil Biology and Biochemistry</i> , 2021, 163, 108456.	4.2	6
667	Mobilidade de Ânions em solo sob sistema de semeadura direta submetido às adubações mineral e orgânica ¹ . <i>Revista Brasileira De Ciencia Do Solo</i> , 2011, 35, 1311-1321.	0.5	0
668	Soil biochemical dynamics at three elevations during the soil thawing period, Eastern Tibetan Plateau: Nutrient availabilities, microbial properties and enzyme activities. <i>African Journal of Microbiology Research</i> , 2012, 6, .	0.4	1
670	Assay of Soil Water Repellency of Coastal Forest Catchment in Subtropical Okinawa Island of Japan. <i>Journal of Rainwater Catchment Systems</i> , 2014, 20, 1-10.	0.2	0
671	Kumlu Tâñın Bâñnyeli Bir Topraññın C ve N-Dinamiññi Açzerine Ham ve Arññtññlmñññ Zeytin Karasuyunun Etkileri. <i>Adnan Menderes Üniversitesi Ziraat Fakâñltesi Dergisi</i> , 0, , 25-32.	0.1	0
672	RESPONSE OF LABILE ORGANIC MATTER FRACTIONS TO PLASTIC FILM REMOVAL DURING MAIZE (ZEA MAYS L.) GROWTH IN SEMIARID FARMLAND SOIL. <i>Applied Ecology and Environmental Research</i> , 2019, 17, .	0.2	0
675	N_2O hot moments were not driven by changes in nitrogen and carbon substrates or changes in N cycling functional genes. <i>European Journal of Soil Science</i> , 2022, 73, .	1.8	4
676	Storage of soil samples leads to over-representation of the contribution of nitrate to plant-available nitrogen. <i>Soil Research</i> , 2022, 60, 22-32.	0.6	7
677	Glyphosate-based herbicides alter soil carbon and phosphorus dynamics and microbial activity. <i>Applied Soil Ecology</i> , 2022, 169, 104256.	2.1	23
678	The impact of fertilization intensity on soil nematode communities in a Tibetan Plateau grassland ecosystem. <i>Applied Soil Ecology</i> , 2022, 170, 104258.	2.1	4
679	Nitrate leaching and N accumulation in a typical subtropical red soil with N fertilization. <i>Geoderma</i> , 2022, 407, 115559.	2.3	17
680	Effects of magnetically treated <i>Sedum alfredii</i> seeds on the dissolved organic matter characteristics of Cd-contaminated soil during phytoextraction. <i>Environmental Science and Pollution Research</i> , 2022, 29, 20808-20816.	2.7	4
681	Ecoenzymatic stoichiometry reveals phosphorus addition alleviates microbial nutrient limitation and promotes soil carbon sequestration in agricultural ecosystems. <i>Journal of Soils and Sediments</i> , 2022, 22, 536-546.	1.5	25

#	ARTICLE	IF	CITATIONS
682	Assessing nitrous oxide emissions in time and space with minimal uncertainty using static chambers and eddy covariance from a temperate grassland. <i>Agricultural and Forest Meteorology</i> , 2022, 313, 108743.	1.9	2
683	Effect of high soil C/N ratio and nitrogen limitation caused by the long-term combined organic-inorganic fertilization on the soil microbial community structure and its dominated SOC decomposition. <i>Journal of Environmental Management</i> , 2022, 303, 114155.	3.8	39
684	Lowering soil greenhouse gas emissions without sacrificing yields by increasing crop rotation diversity in the North China Plain. <i>Field Crops Research</i> , 2022, 276, 108366.	2.3	19
685	Changes in microbial metabolic C- and N- limitations in the rhizosphere and bulk soils along afforestation chronosequence in desertified ecosystems. <i>Journal of Environmental Management</i> , 2022, 303, 114215.	3.8	13
686	Estimation of baseline levels of bacterial community tolerance to Cr, Ni, Pb, and Zn in unpolluted soils, a background for PICT (pollution-induced community tolerance) determination. <i>Biology and Fertility of Soils</i> , 2022, 58, 49-61.	2.3	5
687	Changes in soil carbon and nitrogen stocks and microbial community after forest conversion in a subtropical region. <i>Scandinavian Journal of Forest Research</i> , 2021, 36, 575-584.	0.5	4
688	Climatic Controls on Soil Carbon Accumulation and Loss in a Dryland Ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, .	1.3	3
689	Agronomic system for stabilizing wheat yields and enhancing the sustainable utilization of soil: A 12-year in-situ rotation study in a semi-arid agro-ecosystem. <i>Journal of Cleaner Production</i> , 2021, 329, 129768.	4.6	6
690	Distinguishing atmospheric nitrogen compounds (nitrate and ammonium) in lichen biomonitoring studies. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 2021-2036.	1.7	1
691	In Situ Nitrous Oxide and Dinitrogen Fluxes from a Grazed Pasture Soil Following Cow Urine Application at Two Nitrogen Rates. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
692	Transformation of fertilizer nitrogen in fluvo-aquic soils with different textures and its influencing factors. <i>Plant and Soil</i> , 2022, 471, 541-558.	1.8	5
693	Do long-term N additions affect the soil organic carbon pool in temperate grasslands?. <i>Science of the Total Environment</i> , 2022, 810, 152227.	3.9	4
694	The influence of sucrose on soil nitrogen availability – A root exudate simulation using microdialysis. <i>Geoderma</i> , 2022, 409, 115645.	2.3	7
695	Addition of iron to agricultural topsoil and subsoil is not an effective C sequestration strategy. <i>Geoderma</i> , 2022, 409, 115646.	2.3	3
696	Optimizing residue and tillage management practices to improve soil carbon sequestration in a wheat-peanut rotation system. <i>Journal of Environmental Management</i> , 2022, 306, 114468.	3.8	9
697	Biochar incorporation increases winter wheat (<i>Triticum aestivum</i> L.) production with significantly improving soil enzyme activities at jointing stage. <i>Catena</i> , 2022, 211, 105979.	2.2	19
698	Planted forests intensified soil microbial metabolic nitrogen and phosphorus limitation on the Loess Plateau, China. <i>Catena</i> , 2022, 211, 105982.	2.2	10
699	Local weather conditions determine DOC production and losses from agricultural fen soils affected by open-pit lignite mining. <i>Catena</i> , 2022, 211, 106012.	2.2	4

#	ARTICLE	IF	CITATIONS
700	Natural dissolved organic matter (DOM) affects W(VI) adsorption onto Al (hydr)oxide: Mechanisms and influencing factors. <i>Environmental Research</i> , 2022, 205, 112571.	3.7	9
701	Winter Drainage and Plastic Film Mulching Mitigate CH ₄ Emission by Regulating Function and Structure of Methanogenic Microbial Communities in Paddy Soil. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
702	Synergy between compost and cover crops in a Mediterranean row crop system leads to increased subsoil carbon storage. <i>Soil</i> , 2022, 8, 59-83.	2.2	4
703	Effects of different short-term tillage managements on rhizosphere soil autotrophic <sc>CO ₂ </sc>-fixing bacteria in a double-cropping rice paddy field. <i>Environmental Microbiology Reports</i> , 2022, 14, 245-253.	1.0	8
704	Responses of bacterial taxonomic attributes to mercury species in rhizosphere paddy soil under natural sulphur-rich biochar amendment. <i>Ecotoxicology and Environmental Safety</i> , 2022, 229, 113058.	2.9	6
705	Contrasting Impacts of Photochemical and Microbial Processing on the Photoreactivity of Dissolved Organic Matter in an Adirondack Lake Watershed. <i>Environmental Science & Technology</i> , 2022, 56, 1688-1701.	4.6	14
706	Conservation Systems Influence on Soil Properties in Pumpkin Production. <i>Soil Science Society of America Journal</i> , 0, , .	1.2	0
707	Soil Water Content Shapes Microbial Community Along Gradients of Wetland Degradation on the Tibetan Plateau. <i>Frontiers in Microbiology</i> , 2022, 13, 824267.	1.5	13
708	Element mobility related to rock weathering and soil formation at the westward side of the southernmost Patagonian Andes. <i>Science of the Total Environment</i> , 2022, 817, 152977.	3.9	4
709	Distribution and influencing factors of soil organic carbon in a typical karst catchment undergoing natural restoration. <i>Catena</i> , 2022, 212, 106078.	2.2	19
710	Impacts of short-term tillage and crop residue incorporation managements on soil microbial community in a double-cropping rice field. <i>Scientific Reports</i> , 2022, 12, 2093.	1.6	4
711	Impacts of Elevated Atmospheric CO ₂ and N Fertilization on N ₂ O Emissions and Dynamics of Associated Soil Labile C Components and Mineral N in a Maize Field in the North China Plain. <i>Agronomy</i> , 2022, 12, 432.	1.3	8
712	Seasonal dynamics of soil pH and N transformation as affected by N fertilization in subtropical China: An in situ ¹⁵ N labeling study. <i>Science of the Total Environment</i> , 2022, 816, 151596.	3.9	22
713	Comparing soil organic carbon stock and fractions under natural secondary forest and <i>Pinus massoniana</i> plantation in subtropical China. <i>Catena</i> , 2022, 212, 106092.	2.2	15
714	Microbial Metabolic Limitation Response to Experimental Warming Along an Altitudinal Gradient in Alpine Grasslands, Eastern Tibetan Plateau. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
715	Cover Crop and Chemical Fertilizer Seasonally Mediate Microbial Carbon and Phosphorus Metabolisms in an Apple Orchard: Evidence from the Enzymatic Stoichiometry Method. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
716	The Assembly of Tropical Dry Forest Tree Communities in Anthropogenic Landscapes: The Role of Chemical Defenses. <i>Plants</i> , 2022, 11, 516.	1.6	1
717	Kinetics of Chromium Reduction Associated with Varying Characteristics of Agricultural Soils. <i>Water (Switzerland)</i> , 2022, 14, 570.	1.2	2

#	ARTICLE	IF	CITATIONS
718	Effects of long-term nitrogen & phosphorus fertilization on soil microbial, bacterial and fungi respiration and their temperature sensitivity on the Qinghai-Tibet Plateau. <i>PeerJ</i> , 2022, 10, e12851.	0.9	0
719	Changes in the Soil Labile Organic Carbon Fractions following Bedrock Exposure Rate in a Karst Context. <i>Forests</i> , 2022, 13, 516.	0.9	4
720	Changes in rhizosphere soil nitrogen fractions associated with enzyme activities are linked to the microbial community following intercropping combined with nitrogen fertilization. <i>Land Degradation and Development</i> , 2022, 33, 1101-1113.	1.8	8
721	Response of N ₂ O emission and denitrification genes to different inorganic and organic amendments. <i>Scientific Reports</i> , 2022, 12, 3940.	1.6	7
722	Difference of Bacterial Community Structure in the Meadow, Maize, and Continuous Cropped Alfalfa in Northeast China. <i>Frontiers in Microbiology</i> , 2022, 13, 794848.	1.5	2
723	Synergies between Heat Disturbance and Inoculum Size Promote the Invasion Potential of a Bacterial Pathogen in Soil. <i>Microorganisms</i> , 2022, 10, 630.	1.6	1
724	Interactive effects of nitrogen and water addition on soil microbial resource limitation in a temperate desert shrubland. <i>Plant and Soil</i> , 2022, 475, 361-378.	1.8	10
725	Changes in Soil Chemical Properties Due to Long-Term Compost Fertilization Regulate Methane Turnover Related Gene Abundances in Rice Paddy. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2652.	1.3	8
726	Effects of short-term tillage managements on rhizosphere soil labile organic carbon fractions and their hydrolytic enzyme activity under a double cropping rice field regime in Southern China. <i>Land Degradation and Development</i> , 2022, 33, 832-843.	1.8	3
727	Experimental Warming Has Not Affected the Changes in Soil Organic Carbon During the Growing Season in an Alpine Meadow Ecosystem on the Qinghai-Tibet Plateau. <i>Frontiers in Plant Science</i> , 2022, 13, 847680.	1.7	3
728	Biochemical composition and function of subalpine shrubland and meadow soil microbiomes in the Qilian Mountains, Qinghai-Tibetan plateau, China. <i>PeerJ</i> , 2022, 10, e13188.	0.9	2
729	The rhizospheric microbiome becomes more diverse with maize domestication and genetic improvement. <i>Journal of Integrative Agriculture</i> , 2022, 21, 1188-1202.	1.7	4
730	The impact of drought length and intensity on N cycling gene abundance, transcription and the size of an N ₂ O hot moment from a temperate grassland soil. <i>Soil Biology and Biochemistry</i> , 2022, 168, 108606.	4.2	9
731	The mechanism of the dose effect of straw on soil respiration: Evidence from enzymatic stoichiometry and functional genes. <i>Soil Biology and Biochemistry</i> , 2022, 168, 108636.	4.2	22
732	Characteristics and environmental significance of organic carbon in sediments from Taihu Lake, China. <i>Ecological Indicators</i> , 2022, 138, 108796.	2.6	6
733	Aggregation reduces the release of bioavailable silicon from allophane and phytolith. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 325, 87-105.	1.6	17
734	Polyethylene microplastics alter the microbial functional gene abundances and increase nitrous oxide emissions from paddy soils. <i>Journal of Hazardous Materials</i> , 2022, 432, 128721.	6.5	63
735	Low-disturbance farming regenerates healthy deep soil toward sustainable agriculture - Evidence from long-term no-tillage with stover mulching in Mollisols. <i>Science of the Total Environment</i> , 2022, 825, 153929.	3.9	14

#	ARTICLE	IF	CITATIONS
736	The effects of plastic film mulching and straw mulching on licorice root yield and soil organic carbon content in a dryland farming. <i>Science of the Total Environment</i> , 2022, 826, 154113.	3.9	10
737	Factors controlling soil organic carbon content in wetlands at multiple scales and assessment of the universality of estimation equations: A mega-data study. <i>Science of the Total Environment</i> , 2022, 827, 154380.	3.9	6
738	Soil acidification and loss of base cations in a subtropical agricultural watershed. <i>Science of the Total Environment</i> , 2022, 827, 154338.	3.9	22
739	Role of plants in determining the soil response to either a single freeze-thaw or dry-wet event. <i>Applied Soil Ecology</i> , 2022, 175, 104409.	2.1	0
740	Microbial metabolic limitation response to experimental warming along an altitudinal gradient in alpine grasslands, eastern Tibetan Plateau. <i>Catena</i> , 2022, 214, 106243.	2.2	19
741	Decreasing microbial phosphorus limitation increases soil carbon release. <i>Geoderma</i> , 2022, 419, 115868.	2.3	39
742	Dynamics Variation of Soil Labile Organic Carbon Fractions in Different Wetland Types of Dongting Lake under Seasonal Water Level Fluctuation. <i>Sustainability</i> , 2021, 13, 13836.	1.6	3
743	Isotopic Elucidation of Microbial Nitrogen Transformations in Forest Soils. <i>Global Biogeochemical Cycles</i> , 2021, 35, .	1.9	4
744	Soil organic carbon stabilization in forest subsoils: Directions for the research community – Comment on “Biogeochemical limitations of carbon stabilization in forest subsoils” by Patrick Liebmann et al., <i>Journal of Plant Nutrition and Soil Science</i> , 185(1), 35–43 (2022). <i>Journal of Plant Nutrition and Soil Science</i> , 0, , .	1.1	1
745	Distributions and Influencing Factors of Soil Organic Carbon Fractions under Different Vegetation Restoration Conditions in a Subtropical Mountainous Area, SW China. <i>Forests</i> , 2022, 13, 629.	0.9	4
746	Analysis of UV–Vis spectral characteristics and content estimation of soil DOM under mulching practices. <i>Ecological Indicators</i> , 2022, 138, 108869.	2.6	8
754	Responses of Soil Active Organic Carbon Fractions and Enzyme Activities to Freeze-thaw Cycles in Wetlands. <i>Wetlands</i> , 2022, 42, 1.	0.7	2
755	Nitrogen application increases soil microbial carbon fixation and maize productivity on the semiarid Loess Plateau. <i>Plant and Soil</i> , 2023, 488, 9-22.	1.8	9
756	Effects of Simulated Nitrogen Deposition on Soil Active Carbon Fractions in a Wet Meadow in the Qinghai-Tibet Plateau. <i>Journal of Soil Science and Plant Nutrition</i> , 2022, 22, 2943-2954.	1.7	2
757	Saltwater intrusion induces shifts in soil microbial diversity and carbon use efficiency in a coastal grassland ecosystem. <i>Soil Biology and Biochemistry</i> , 2022, 170, 108700.	4.2	10
758	Effects of phosphorus-modified biochar as a soil amendment on the growth and quality of <i>Pseudostellaria heterophylla</i> . <i>Scientific Reports</i> , 2022, 12, 7268.	1.6	16
759	Soil water extractable organic matter under long-term dryland cropping systems on the Texas High Plains. <i>Soil Science Society of America Journal</i> , 2022, 86, 1249-1263.	1.2	2
760	Effect of nitrogen addition on the carbon metabolism of soil microorganisms in a <i>Calamagrostis angustifolia</i> wetland of the Sanjiang Plain, northeastern China. <i>Annals of Microbiology</i> , 2022, 72, .	1.1	6

#	ARTICLE	IF	CITATIONS
761	Cultivar sensitivity of broomcorn millet (<i>Panicum miliaceum</i> L.) to nitrogen availability is associated with differences in photosynthetic physiology and nitrogen uptake. <i>Plant Physiology and Biochemistry</i> , 2022, 182, 90-103.	2.8	4
762	Adaptation of soil micro-food web to elemental limitation: evidence from the forest-steppe ecotone. <i>Soil Biology and Biochemistry</i> , 2022, 170, 108698.	4.2	17
763	Contrasting patterns of microbial nutrient limitations between rhizosphere and bulk soil during stump sprout restoration in a clear-cut oak forest. <i>Forest Ecology and Management</i> , 2022, 515, 120241.	1.4	5
764	Variations in Concentration and Carbon Isotope Composition of Methanotroph Biomarkers in Sedge Peatlands Along the Altitude Gradient in the Changbai Mountain, China. <i>Frontiers in Microbiology</i> , 2022, 13, .	1.5	1
765	Maize root exudate composition alters rhizosphere bacterial community to control hotspots of hydrolase activity in response to nitrogen supply. <i>Soil Biology and Biochemistry</i> , 2022, 170, 108717.	4.2	27
766	Differences in Green Cover Management Affect Soil Nutrients, Aggregates, and Fungal Community Composition in a Vineyard in North China. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
767	Responses of Fungal Community Structure and Functional Composition to Short-Term Fertilization and Dry Season Irrigation in <i>Eucalyptus urophylla</i> – <i>Eucalyptus grandis</i> Plantation Soils. <i>Forests</i> , 2022, 13, 854.	0.9	3
768	In situ nitrous oxide and dinitrogen fluxes from a grazed pasture soil following cow urine application at two nitrogen rates. <i>Science of the Total Environment</i> , 2022, 838, 156473.	3.9	6
769	Soil dissolved carbon and nitrogen dynamics along a revegetation chronosequence of <i>Caragana korshinskii</i> plantations in the Loess hilly region of China. <i>Catena</i> , 2022, 216, 106405.	2.2	8
770	Relationships of priming effects with organic amendment composition and soil microbial properties. <i>Geoderma</i> , 2022, 422, 115951.	2.3	10
771	Crop Rotational Diversity Influences Wheat–Maize Production Through Soil Legacy Effects in the North China Plain. <i>International Journal of Plant Production</i> , 2022, 16, 415-427.	1.0	4
772	Effect of Six Different Feedstocks on Biochar’s Properties and Expected Stability. <i>Agronomy</i> , 2022, 12, 1525.	1.3	8
773	Intensive management of a bamboo forest significantly enhanced soil nutrient concentrations but decreased soil microbial biomass and enzyme activity: a long-term chronosequence study. <i>Journal of Soils and Sediments</i> , 2022, 22, 2640-2653.	1.5	2
774	Microplastics alter nitrous oxide production and pathways through affecting microbiome in estuarine sediments. <i>Water Research</i> , 2022, 221, 118733.	5.3	37
775	Changes in soil prokaryotic communities and nitrogen cycling functions along a groundwater table drawdown gradient in desert wetlands. <i>Science of the Total Environment</i> , 2022, 842, 156868.	3.9	14
776	Changes in soil organic carbon and its fractions under grassland reclamation in alpine-cold soils, China. <i>Soil and Water Research</i> , 2022, 17, 211-221.	0.7	1
777	Production of dissolved carbon and alkalinity during macroalgal wrack degradation on beaches: a mesocosm experiment with implications for blue carbon. <i>Biogeochemistry</i> , 2022, 160, 159-175.	1.7	9
778	Effects of a decade of organic fertilizer substitution on vegetable yield and soil phosphorus pools, phosphatase activities, and the microbial community in a greenhouse vegetable production system. <i>Journal of Integrative Agriculture</i> , 2022, 21, 2119-2133.	1.7	19

#	ARTICLE	IF	CITATIONS
779	Nitrogen-Induced Changes in Soil Environmental Factors Are More Important Than Nitrification and Denitrification Gene Abundance in Regulating N ₂ O Emissions in Subtropical Forest Soils. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	1
780	Deep soil microbial carbon metabolic function is important but often neglected: a study on the Songnen Plain reed wetland, Northeast China. <i>Fundamental Research</i> , 2022, , .	1.6	2
782	Cover cropping and chemical fertilizer seasonally mediate microbial carbon and phosphorus metabolisms in an apple orchard: Evidence from the enzymatic stoichiometry method. <i>Applied Soil Ecology</i> , 2022, 178, 104579.	2.1	4
783	Adaptive multi-paddock grazing increases soil nutrient availability and bacteria to fungi ratio in grassland soils. <i>Applied Soil Ecology</i> , 2022, 179, 104590.	2.1	7
784	Mechanisms of nitrogen transfer in a model clover-ryegrass pasture: a ¹⁵ N-tracer approach. <i>Plant and Soil</i> , 2022, 480, 369-389.	1.8	2
785	Plastic mulching significantly improves soil enzyme and microbial activities without mitigating gaseous N emissions in winter wheat-summer maize rotations. <i>Field Crops Research</i> , 2022, 286, 108630.	2.3	11
786	Challenges in quantifying and characterizing dissolved organic carbon: Sampling, isolation, storage, and analysis. <i>Journal of Environmental Quality</i> , 2022, 51, 837-871.	1.0	8
787	Stronger responses of soil protistan communities to legacy mercury pollution than bacterial and fungal communities in agricultural systems. <i>ISME Communications</i> , 2022, 2, .	1.7	8
788	Are soil carbon and nitrogen stocks at steady state despite introducing grass and legumes to soybean and maize production system?. <i>Nutrient Cycling in Agroecosystems</i> , 2022, 124, 35-57.	1.1	1
789	Soil-resistant organic carbon improves soil erosion resistance under agroforestry in the Yellow River Flood Plain, of China. <i>Agroforestry Systems</i> , 2022, 96, 997-1008.	0.9	2
790	Improvement of dissolved organic nitrogen extraction accuracy in unsaturated zones. <i>Hydrological Processes</i> , 2022, 36, .	1.1	1
791	Tree roots exert greater influence on soil microbial necromass carbon than above-ground litter in subtropical natural and plantation forests. <i>Soil Biology and Biochemistry</i> , 2022, 173, 108811.	4.2	15
793	Combined application of humic acid and arbuscular mycorrhizal fungi regulates microbial community dynamics and enhances mercury-resistant genes in mercury-polluted paddy soil. <i>Journal of Cleaner Production</i> , 2022, 369, 133317.	4.6	1
794	Converting rice paddy to upland fields decreased plant lignin but increased the contribution of microbial residue to SOC. <i>Geoderma</i> , 2022, 425, 116079.	2.3	8
795	Changes in bacterial community structures in soil caused by migration and aging of microplastics. <i>Science of the Total Environment</i> , 2022, 848, 157790.	3.9	12
796	Enzymatic stoichiometry reveals phosphorus limitation-induced changes in the soil bacterial communities and element cycling: Evidence from a long-term field experiment. <i>Geoderma</i> , 2022, 426, 116124.	2.3	21
797	Fertilization regime shifts the molecular diversity and chlorine reactivity of soil dissolved organic matter from tropical croplands. <i>Water Research</i> , 2022, 225, 119106.	5.3	9
798	Coupled effects of CO ₂ and biochar amendment on the yield and quality of <i>Pseudostellaria heterophylla</i> . <i>Industrial Crops and Products</i> , 2022, 188, 115599.	2.5	3

#	ARTICLE	IF	CITATIONS
799	Decreased greenhouse gas intensity of winter wheat production under plastic film mulching in semi-arid areas. <i>Agricultural Water Management</i> , 2022, 274, 107941.	2.4	8
800	Winter drainage and film mulching cultivation mitigated CH ₄ emission by regulating the function and structure of methanogenic archaeal and fermenting bacterial communities in paddy soil. <i>Journal of Environmental Management</i> , 2022, 323, 116194.	3.8	6
801	Combining passive sampling with fraction transfer and toxicokinetic modeling to assess bioavailability of organic pollutants in a benthic invertebrate, <i>Lumbriculus variegatus</i> . <i>Journal of Hazardous Materials</i> , 2023, 441, 129986.	6.5	2
802	Bioplastic (PHBV) addition to soil alters microbial community structure and negatively affects plant-microbial metabolic functioning in maize. <i>Journal of Hazardous Materials</i> , 2023, 441, 129959.	6.5	33
803	Responses of microbial community composition and respiration to soil moisture in eroded soil. <i>Applied Soil Ecology</i> , 2023, 181, 104662.	2.1	10
804	Decreased Greenhouse Gas Intensity of Winter Wheat Production Under Plastic Film Mulching in Semi-Arid Areas. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
805	Water Extractable Carbon and Nitrogen Across Vegetated and Non-Vegetated Coastal Ecosystems. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
806	Slope Position Mediates the Co-Utilization of Phosphorus by Plants and Microbes Through Rhizosphere Processes in a Phosphorus-Limited Forest. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
807	Phosphorus acquisition strategies of wheat are related to biochar types added in cadmium-contaminated soil: Evidence from soil zymography and root morphology. <i>Science of the Total Environment</i> , 2023, 856, 159033.	3.9	8
808	A new view into three-dimensional excitation-emission matrix fluorescence spectroscopy for dissolved organic matter. <i>Science of the Total Environment</i> , 2023, 855, 158963.	3.9	38
809	Discrepant impact of polyethylene microplastics on methane emissions from different paddy soils. <i>Applied Soil Ecology</i> , 2023, 181, 104650.	2.1	12
810	Microbial endophytes and compost improve plant growth in two contrasting types of hard rock mining waste. <i>International Journal of Phytoremediation</i> , 2023, 25, 781-788.	1.7	2
811	Fertilization Regulates Grape Yield and Quality in by Altering Soil Nutrients and the Microbial Community. <i>Sustainability</i> , 2022, 14, 10857.	1.6	1
812	Straw Strip Mulching Increased Soil Organic Carbon Components of a Wheat Field in Dry Farming Regions of the Loess Plateau. <i>Water (Switzerland)</i> , 2022, 14, 2645.	1.2	3
813	Effects of Earthworms and Phosphate-Solubilizing Bacteria on Carbon Sequestration in Soils Amended with Manure and Slurry: A 4-Year Field Study. <i>Agronomy</i> , 2022, 12, 2064.	1.3	4
814	Characteristics of soil microbiota and organic carbon distribution in jackfruit plantation under different fertilization regimes. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	2
815	Snow Exclusion Does Not Affect Soil Ammonia-Oxidizing Bacteria and Archaea Communities. <i>Forests</i> , 2022, 13, 1483.	0.9	0
816	Cover crop residue influence on soil N_2O and CO_2 emissions under wetting&drying intensities: an incubation study. <i>European Journal of Soil Science</i> , 0, , .	1.8	0

#	ARTICLE	IF	CITATIONS
817	Effects of Forest Vegetation Restoration on Soil Organic Carbon and Its Labile Fractions in the Danxia Landform of China. Sustainability, 2022, 14, 12283.	1.6	3
818	Water-Soluble Organic Matter From Soils at the Terrestrial-Aquatic Interface in Wetland-Dominated Landscapes. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	6
819	Microsystem Nodes for Soil Monitoring via an Energy Mapping Network: A Proof-of-Concept Preliminary Study. Micromachines, 2022, 13, 1440.	1.4	3
820	Effects of Long-Term Fertilizer Practices on Rhizosphere Soil Autotrophic CO ₂ -Fixing Bacteria under Double Rice Ecosystem in Southern China. Journal of Microbiology and Biotechnology, 2022, 32, 1292-1298.	0.9	2
821	Soil functional indicators in mixed beech forests are clearly species-specific. Journal of Forestry Research, 2023, 34, 1033-1049.	1.7	6
822	Soil Fungal Composition Drives Ecosystem Multifunctionality after Long-Term Field Nitrogen and Phosphorus Addition in Alpine Meadows on the Tibetan Plateau. Plants, 2022, 11, 2893.	1.6	2
823	Effects of experimental and seasonal drying on soil microbial biomass and nutrient cycling in four lowland tropical forests. Biogeochemistry, 2022, 161, 227-250.	1.7	5
824	Carbon and Nitrogen Availability Drives Seasonal Variation in Soil Microbial Communities along an Elevation Gradient. Forests, 2022, 13, 1657.	0.9	8
825	Chemical forms of cadmium in soil and its distribution in French marigold sub-cells in response to chelator GLDA. Scientific Reports, 2022, 12, .	1.6	2
826	Mitigation of nutrient runoff loss using reduced nitrogen application and green manure planting in citrus orchard in Hubei, China. Journal of Soils and Sediments, 2023, 23, 582-595.	1.5	7
827	Bioaccessibility of arsenic, lead, and cadmium in contaminated mining/smeltering soils: Assessment, modeling, and application for soil environment criteria derivation. Journal of Hazardous Materials, 2023, 443, 130321.	6.5	8
828	Responses of Rhizosphere Bacterial and Fungal Communities to the Long-Term Continuous Monoculture of Water Oat. Microorganisms, 2022, 10, 2174.	1.6	6
829	Fractionation, molecular composition, and biological effects of organic matter in bio-stabilization sludge with implication to land utilization. Environment International, 2022, 170, 107601.	4.8	6
830	Controls on soil dissolved organic carbon along the 4000Âkm North-South forest transect in Eastern China. Catena, 2023, 220, 106691.	2.2	8
831	Dispersed ice of permafrost peatlands represents an important source of labile carboxylic acids, nutrients and metals. Geoderma, 2023, 429, 116256.	2.3	3
832	The Composition of Dissolved Organic Matter in Arable Lands: Does Soil Management Practice Matter?. Agronomy, 2022, 12, 2797.	1.3	3
833	Interactive Influence of Soil Erosion and Cropland Revegetation on Soil Enzyme Activities and Microbial Nutrient Limitations in the Loess Hilly-Gully Region of China. Agronomy, 2022, 12, 2796.	1.3	4
834	Examining spatial variation in soil solutes and flowpaths in a semi-arid, montane catchment. Frontiers in Water, 0, 4, .	1.0	1

#	ARTICLE	IF	CITATIONS
835	Heavy thinning temporally reduced soil carbon storage by intensifying soil microbial phosphorus limitation. <i>Plant and Soil</i> , 2023, 484, 33-48.	1.8	6
836	Rapid Permafrost Thaw Removes Nitrogen Limitation and Rises the Potential for N ₂ O Emissions. <i>Nitrogen</i> , 2022, 3, 608-627.	0.6	1
837	Short-term arsenic mobilization, labilization, and microbiological aspects after gasoline and diesel addition in tropical soils. <i>Environmental Geochemistry and Health</i> , 0, , .	1.8	0
838	A combined microbial and biogeochemical dataset from high-latitude ecosystems with respect to methane cycle. <i>Scientific Data</i> , 2022, 9, .	2.4	6
839	Land use differentially affects fungal communities and network complexity in northeast China. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	0
840	Response of bacterial communities to shrub encroachment and forage planting in alpine grassland of the Qinghai-Tibetan Plateau. <i>Ecological Engineering</i> , 2023, 186, 106837.	1.6	1
841	Transport and transformation of arsenic in coastal aquifer at the scenario of seawater intrusion followed by managed aquifer recharge. <i>Water Research</i> , 2023, 229, 119440.	5.3	7
842	Responses of N ₂ O emissions to straw addition under different tillage soils: A ¹⁵ N labelling study. <i>Applied Soil Ecology</i> , 2023, 183, 104744.	2.1	0
843	Slope position mediates the co-utilization of phosphorus by plants and microbes through rhizosphere processes in a phosphorus-limited forest. <i>Catena</i> , 2023, 222, 106808.	2.2	2
844	Variations in organic carbon mineralization of the biological soil crusts following revegetation in the Tengger Desert, North China. <i>Catena</i> , 2023, 222, 106860.	2.2	1
845	Deep accumulation of soluble organic nitrogen after land-use conversion from woodlands to orchards in a subtropical hilly region. <i>Science of the Total Environment</i> , 2023, 863, 160931.	3.9	1
846	Grazing and ecosystem service delivery in global drylands. <i>Science</i> , 2022, 378, 915-920.	6.0	81
847	Abundant fungi dominate the complexity of microbial networks in soil of contaminated site: High-precision community analysis by full-length sequencing. <i>Science of the Total Environment</i> , 2023, 861, 160563.	3.9	8
848	Soil function indicators are influenced by land use of different ages: A case study in a semi-arid region. <i>Science of the Total Environment</i> , 2023, 861, 160570.	3.9	6
849	Long-Term Effects of Organic Amendments on Carbon Stability in Clayâ€“Organic Complex and Its Role in Soil Aggregation. <i>Agronomy</i> , 2023, 13, 39.	1.3	6
850	Effects of land use types on soil erodibility in a small karst watershed in western Hubei. <i>PeerJ</i> , 0, 10, e14423.	0.9	0
851	Impact of Water Table on Methane Emission Dynamics in Terrestrial Wetlands and Implications on Strategies for Wetland Management and Restoration. <i>Wetlands</i> , 2022, 42, .	0.7	0
852	Exogenous glucose modulated the diversity of soil nitrogen-related bacteria and promoted the nitrogen absorption and utilisation of peanut. <i>Plant, Soil and Environment</i> , 2022, 68, 560-571.	1.0	1

#	ARTICLE	IF	CITATIONS
853	Microplastics derived from polymer-coated fertilizer altered soil properties and bacterial community in a Cd-contaminated soil. <i>Applied Soil Ecology</i> , 2023, 183, 104694.	2.1	7
854	Influence of Clay Mineralogy on Soil Organic Carbon Stabilization under Tropical Climate, India. <i>Journal of Soil Science and Plant Nutrition</i> , 2023, 23, 1003-1018.	1.7	6
855	Enhanced ultraviolet-B radiation reduces methane emission in one of the oldest and largest rice terraces in China but triggers new challenges. <i>Frontiers in Earth Science</i> , 0, 10, .	0.8	0
856	Screening and Identification of the Rhizosphere Fungal Communities Associated with Land Reclamation in Egypt. <i>Agriculture (Switzerland)</i> , 2023, 13, 215.	1.4	4
857	Influence of microbial weathering on the partitioning of per- and polyfluoroalkyl substances (PFAS) in biosolids. <i>Environmental Sciences: Processes and Impacts</i> , 0, , .	1.7	0
858	How do tree species with different successional stages affect soil organic nitrogen transformations?. <i>Geoderma</i> , 2023, 430, 116319.	2.3	4
859	Combining field and laboratory approaches to quantify N assimilation in a soil microbe-plant-animal grazing land system. <i>Agriculture, Ecosystems and Environment</i> , 2023, 346, 108338.	2.5	4
861	Contrasting effects of elevated CO ₂ on autotrophic prokaryotes with different CO ₂ fixation strategies in tea plantation soil. <i>Biology and Fertility of Soils</i> , 2023, 59, 205-215.	2.3	3
862	A New Method for Sequential Fractionation of Nitrogen in Drained Organic (Peat) Soils. <i>International Journal of Environmental Research and Public Health</i> , 2023, 20, 2367.	1.2	4
863	The contrasted impacts of grasshoppers on soil microbial activities in function of primary production and herbivore diet. , 0, 3, .		0
864	Linking Microbial Decomposition to Dissolved Organic Matter Composition in the Revegetation of the Red Soil Erosion Area. <i>Forests</i> , 2023, 14, 270.	0.9	3
865	Invasive Wetland Weeds Derived Biochar Properties Affecting Soil Carbon Dynamics of South Indian Tropical Ultisol. <i>Environmental Management</i> , 2023, 72, 343-362.	1.2	1
866	Use of untargeted metabolomics to analyse changes in extractable soil organic matter in response to long-term fertilisation. <i>Biology and Fertility of Soils</i> , 2023, 59, 301-316.	2.3	2
867	How the Birch effect differs in mechanisms and magnitudes due to soil texture. <i>Soil Biology and Biochemistry</i> , 2023, 179, 108973.	4.2	4
868	Nanobubble oxygenated increases crop production via soil structure improvement: The perspective of microbially mediated effects. <i>Agricultural Water Management</i> , 2023, 282, 108263.	2.4	5
869	Straw return, rather than warming, alleviates microbial phosphorus limitation in a cultivated Mollisol. <i>Applied Soil Ecology</i> , 2023, 186, 104821.	2.1	5
870	Effects of freeze-thaw dynamics and microplastics on the distribution of antibiotic resistance genes in soil aggregates. <i>Chemosphere</i> , 2023, 329, 138678.	4.2	2
871	Microbial nutrient limitations limit carbon sequestration but promote nitrogen and phosphorus cycling: A case study in an agroecosystem with long-term straw return. <i>Science of the Total Environment</i> , 2023, 870, 161865.	3.9	7

#	ARTICLE	IF	CITATIONS
872	Mineral protection controls soil organic carbon stability in permafrost wetlands. <i>Science of the Total Environment</i> , 2023, 869, 161864.	3.9	3
873	Competitive adsorption of lead and cadmium on soil aggregate at micro-interfaces: Multi-surface modeling and spectroscopic studies. <i>Journal of Hazardous Materials</i> , 2023, 448, 130915.	6.5	4
874	Anthropogenic N input increases global warming potential by awakening the “sleeping” ancient C in deep critical zones. <i>Science Advances</i> , 2023, 9, .	4.7	6
875	Aboveground litter input is not important for soil microbes during the non-growing season. <i>Journal of Soils and Sediments</i> , 2023, 23, 1654-1661.	1.5	0
876	Contaminants from a former Croatian coal sludge dictate the structure of microbiota in the estuarine (RaÅ¡a Bay) sediment and soil. <i>Frontiers in Microbiology</i> , 0, 14, .	1.5	0
877	Habitats generated by the restoration of coal mining subsidence land differentially alter the content and composition of soil organic carbon. <i>PLoS ONE</i> , 2023, 18, e0282014.	1.1	1
878	Generation and properties of organic colloids extracted by water from the organic horizon of a boreal forest soil. <i>Geoderma</i> , 2023, 432, 116386.	2.3	1
879	Experiences on Methods of Vermicompost Analysis for Plant and Soil Nutrition. , 2023, , 45-58.		0
880	Application of biogas-slurry and biochar improves soil multifunctionality in a poplar plantation during afforestation processes. <i>Plant and Soil</i> , 0, , .	1.8	4
881	Acetoclastic archaea adaptation under increasing temperature in lake sediments and wetland soils from Alaska. <i>Polar Biology</i> , 2023, 46, 259-275.	0.5	1
883	Forest thinning alleviates the negative effects of precipitation reduction on soil microbial diversity and multifunctionality. <i>Biology and Fertility of Soils</i> , 2023, 59, 423-440.	2.3	5
884	Nitrogen Significantly Affected N Cycling Functional Gene Abundances Compared with Phosphorus and Drought in an Alpine Meadow. <i>Agronomy</i> , 2023, 13, 1041.	1.3	1
885	Cover legumes promote the growth of young rubber trees by increasing organic carbon and organic nitrogen content in the soil. <i>Industrial Crops and Products</i> , 2023, 197, 116640.	2.5	2
886	Root phosphatase activity is a competitive trait affiliated with the conservation gradient in root economic space. <i>Forest Ecosystems</i> , 2023, 10, 100111.	1.3	3
887	Assessment of nitrogen and phosphorus in the soil of longitudinal direction affected by in-situ oxidation remediation. <i>Environmental Technology (United Kingdom)</i> , 0, , 1-10.	1.2	0
888	Biochar for Mitigation of Heat Stress in Crop Plants. <i>Sustainable Agriculture Reviews</i> , 2023, , 159-187.	0.6	0
889	Soil enzyme kinetics and thermodynamics in response to long-term vegetation succession. <i>Science of the Total Environment</i> , 2023, 882, 163542.	3.9	3
890	Soil functional indicators in different development stages of an oak (<i>Quercus castaneifolia</i> C.A. Mey.) stand. <i>Applied Soil Ecology</i> , 2023, 189, 104922.	2.1	1

#	ARTICLE	IF	CITATIONS
891	Dose effect of polyethylene microplastics on nitrous oxide emissions from paddy soils cultivated for different periods. Journal of Hazardous Materials, 2023, 453, 131445.	6.5	11
892	Effects of microorganisms on soil selenium and its uptake by pak choi in selenium-enriched lateritic red soil. Ecotoxicology and Environmental Safety, 2023, 257, 114927.	2.9	2
908	Soil organic nitrogen. , 2023, , 243-252.		0