## Priming effects: Interactions between living and dead o

Soil Biology and Biochemistry 42, 1363-1371 DOI: 10.1016/j.soilbio.2010.04.003

Citation Report

#	Article	IF	CITATIONS
1	Soil carbon breakdown. Nature Geoscience, 2010, 3, 823-824.	5.4	9
2	Soil carbon release enhanced by increased tropical forest litterfall. Nature Climate Change, 2011, 1, 304-307.	8.1	221
3	Soil Biota, Soil Health and Global Change. Soil Biology, 2011, , 155-177.	0.6	5
4	Seasonal dynamics of the bacterial community in forest soils under different quantities of leaf litter. Applied Soil Ecology, 2011, 47, 14-23.	2.1	50
5	Soil microbial diversity: Methodological strategy, spatial overview and functional interest. Comptes Rendus - Biologies, 2011, 334, 403-411.	0.1	97
6	Interactive effects of temperature, soil moisture and enchytraeid activities on C losses from a peatland soil. Pedobiologia, 2011, 54, 291-299.	0.5	18
7	Persistence of soil organic matter as an ecosystem property. Nature, 2011, 478, 49-56.	13.7	4,243
8	Atividade microbiana e enzimÃ <sub>i</sub> tica em solo após a aplicação de xisto retortado. Pesquisa Agropecuaria Brasileira, 2011, 46, 1538-1546.	0.9	10
9	Rapid transfer of photosynthetic carbon through the plant-soil system in differently managed species-rich grasslands. Biogeosciences, 2011, 8, 1131-1139.	1.3	95
10	Microbial food web dynamics along a soil chronosequence of a glacier forefield. Biogeosciences, 2011, 8, 3283-3294.	1.3	36
11	How to link soil C pools with CO <sub>2</sub> fluxes?. Biogeosciences, 2011, 8, 1523-1537.	1.3	60
13	Reconsidering Copenhagen. Nature Climate Change, 2011, 1, 297-298.	8.1	0
14	Rhizosphere priming effect increases the temperature sensitivity of soil organic matter decomposition. Global Change Biology, 2011, 17, 2172-2183.	4.2	172
15	Does soil biology hold the key to optimized slurry management? A manifesto for research. Soil Use and Management, 2011, 27, 464-469.	2.6	7
16	Fungi mediate long term sequestration of carbon and nitrogen in soil through their priming effect. Soil Biology and Biochemistry, 2011, 43, 86-96.	4.2	595
17	Microbial processes and community composition in the rhizosphere of European beech–ÂThe influence of plant C exudates. Soil Biology and Biochemistry, 2011, 43, 551-558.	4.2	170
18	Three-source-partitioning of microbial biomass and of CO2 efflux from soil to evaluate mechanisms of priming effects. Soil Biology and Biochemistry, 2011, 43, 778-786.	4.2	129
19	Positive and negative carbon mineralization priming effects among a variety of biochar-amended soils. Soil Biology and Biochemistry, 2011, 43, <u>1169-1179</u> .	4.2	1,093

TION RED

~		-	
( пт	ATION	リフロ	DODT
	AHON		PORT

#	ARTICLE	IF	CITATIONS
20	Microbial community abundance and structure are determinants of soil organic matter mineralisation in the presence of labile carbon. Soil Biology and Biochemistry, 2011, 43, 1705-1713.	4.2	203
21	Changes in variability of soil moisture alter microbial community C and N resource use. Soil Biology and Biochemistry, 2011, 43, 1837-1847.	4.2	151
22	Earthworms promote the reduction of Fusarium biomass and deoxynivalenol content in wheat straw under field conditions. Soil Biology and Biochemistry, 2011, 43, 1858-1865.	4.2	52
23	Long-term exclusion of plant-inputs to soil reduces the functional capacity of microbial communities to mineralise recalcitrant root-derived carbon sources. Soil Biology and Biochemistry, 2011, 43, 1873-1880.	4.2	70
24	Effect of temperature on metabolic activity of intact microbial communities: Evidence for altered metabolic pathway activity but not for increased maintenance respiration and reduced carbon use efficiency. Soil Biology and Biochemistry, 2011, 43, 2023-2031.	4.2	212
25	The priming potential of biochar products in relation to labile carbon contents and soil organic matter status. Soil Biology and Biochemistry, 2011, 43, 2127-2134.	4.2	414
26	Short term soil priming effects and the mineralisation of biochar following its incorporation to soils of different pH. Soil Biology and Biochemistry, 2011, 43, 2304-2314.	4.2	510
27	Actinobacterial community and diversity in rhizosphere soils of Aquilaria crassna Pierre ex Lec assessed by RT-PCR and PCR-DGGE. Biochemical Systematics and Ecology, 2011, 39, 509-519.	0.6	13
28	Changes in soil biochemical properties associated with Ligularia virgaurea spreading in grazed alpine meadows. Plant and Soil, 2011, 347, 65-78.	1.8	13
29	Response of soil organic matter pools to elevated CO2 and warming in a semi-arid grassland. Plant and Soil, 2011, 347, 339-350.	1.8	59
30	Identification of General Patterns of Nutrient and Labile Carbon Control on Soil Carbon Dynamics Across a Successional Gradient. Ecosystems, 2011, 14, 710-719.	1.6	30
31	Contribution of the endogeic earthworm species Aporrectodea caliginosa to the degradation of deoxynivalenol and Fusarium biomass in wheat straw. Mycotoxin Research, 2011, 27, 215-220.	1.3	17
32	Carbon metabolism of soil microbial communities of restored forests in Southern China. Journal of Soils and Sediments, 2011, 11, 789-799.	1.5	29
33	Longâ€ŧerm release of carbon from grassland soil amended with different slurry particle size fractions: a laboratory incubation study. Rapid Communications in Mass Spectrometry, 2011, 25, 1514-1520.	0.7	9
34	Priming effect after glucose amendment in two different soils evaluated by SIR- and PLFA-technique. Ecological Engineering, 2011, 37, 465-473.	1.6	11
35	Prime time for microbes. Nature Climate Change, 2011, 1, 295-297.	8.1	20
36	Rhizosphere effects on soil nutrient dynamics and microbial activity in an Australian tropical lowland rainforest. Soil Research, 2011, 49, 652.	0.6	17
37	Squeezing the Arctic carbon balloon. Nature Climate Change, 2012, 2, 841-842.	8.1	5

#	Article	IF	CITATIONS
38	Effects of 49 years of fertilization on the distribution and accumulation of soil carbon under corn cultivation. Canadian Journal of Soil Science, 2012, 92, 835-839.	0.5	7
39	Cropland Soil Carbon Dynamics. , 2012, , 303-346.		3
40	Age-related changes in litter inputs explain annual trends in soil CO2 effluxes over a full Eucalyptus rotation after afforestation of a tropical savannah. Biogeochemistry, 2012, 111, 515-533.	1.7	34
41	Modelling the long-term response to positive and negative priming of soil organic carbon by black carbon. Biogeochemistry, 2012, 111, 83-95.	1.7	99
42	Soil organic matter evolution after the application of high doses of organic amendments in a Mediterranean calcareous soil. Journal of Soils and Sediments, 2012, 12, 1257-1268.	1.5	45
43	Grass Invasions Across a Regional Gradient are Associated with Declines in Belowground Carbon Pools. Ecosystems, 2012, 15, 1271-1282.	1.6	30
44	Binding of Organic Ligands with Al(III) in Dissolved Organic Matter from Soil: Implications for Soil Organic Carbon Storage. Environmental Science & Technology, 2012, 46, 6102-6109.	4.6	159
45	Advances in the understanding of nutrient dynamics and management in UK agriculture. Science of the Total Environment, 2012, 434, 39-50.	3.9	101
46	The earthworm (Aporrectodea caliginosa) primes the release of mobile and available micronutrients in soil. Pedobiologia, 2012, 55, 93-99.	0.5	18
47	Tropical forest carbon balance in a warmer world: a critical review spanning microbial―to ecosystemâ€ <del>s</del> cale processes. Biological Reviews, 2012, 87, 912-927.	4.7	109
48	The priming effects induced by earthworm mucus on mineralization and humification of plant residues. European Journal of Soil Biology, 2012, 50, 1-6.	1.4	33
49	Transcriptomic profiling of Bacillus amyloliquefaciens FZB42 in response to maize root exudates. BMC Microbiology, 2012, 12, 116.	1.3	151
50	The flat-plate plant-microbial fuel cell: the effect of a new design on internal resistances. Biotechnology for Biofuels, 2012, 5, 70.	6.2	74
51	Warmingâ€enhanced preferential microbial mineralization of humified boreal forest soil organic matter: Interpretation of soil profiles along a climate transect using laboratory incubations. Journal of Geophysical Research, 2012, 117, .	3.3	21
52	Trenching reduces soil heterotrophic activity in a loblolly pine ( Pinus taeda ) forest exposed to elevated atmospheric [CO 2 ] and N fertilization. Agricultural and Forest Meteorology, 2012, 165, 43-52.	1.9	27
53	Assessment of soil microbial functional diversity in a coppiced forest system. Applied Soil Ecology, 2012, 62, 115-123.	2.1	57
54	Soil microbial-root and microbial-rhizosphere processes to increase nitrogen availability and retention in agroecosystems. Current Opinion in Environmental Sustainability, 2012, 4, 517-522.	3.1	38
55	Endogeic earthworms shape bacterial functional communities and affect organic matter mineralization in a tropical soil. ISME Journal, 2012, 6, 213-222.	4.4	169

#	Article	IF	CITATIONS
56	Radiocarbon evidence for the mining of organic nitrogen from soil by mycorrhizal fungi. Biogeochemistry, 2013, 114, 381.	1.7	14
57	Impact on C and N dynamics of simultaneous application of pig slurry and wheat straw, as affected by their initial locations in soil. Biology and Fertility of Soils, 2012, 48, 633-642.	2.3	21
58	Preface "Biotic interactions and biogeochemical processes in the soil environment". Biogeosciences, 2012, 9, 1823-1825.	1.3	2
59	Evidence of a strong coupling between root exudation, <scp>C</scp> and <scp>N</scp> availability, and stimulated <scp>SOM</scp> decomposition caused by rhizosphere priming effects. Ecology and Evolution, 2012, 2, 1843-1852.	0.8	177
60	Decomposition of lupine seeds and seedlings as N fertilizer in organic vegetable production. Plant and Soil, 2012, 357, 59-71.	1.8	3
61	Severe drought-induced community tolerance to heat wave. An experimental study on soil microbial processes. Journal of Soils and Sediments, 2012, 12, 513-518.	1.5	32
62	On the initialization of soil carbon models and its effects on model predictions for England and Wales. European Journal of Soil Science, 2012, 63, 32-41.	1.8	22
63	Increased nitrate availability in the soil of a mixed mature temperate forest subjected to elevated <scp>CO</scp> <sub>2</sub> concentration (canopy <scp>FACE</scp> ). Global Change Biology, 2012, 18, 757-768.	4.2	47
64	Soil carbon and nitrogen cycling and storage throughout the soil profile in a sweetgum plantation after 11Åyears of CO <sub>2</sub> $\hat{a}\in e$ nrichment. Global Change Biology, 2012, 18, 1684-1697.	4.2	74
65	Green manuring effect of pure and mixed barley – hairy vetch winter cover crops on maize and processing tomato N nutrition. European Journal of Agronomy, 2012, 43, 136-146.	1.9	68
66	Effects of NH4+ and NO3â^' on litter and soil organic carbon decomposition in a Chinese fir plantation forest in South China. Soil Biology and Biochemistry, 2012, 47, 116-122.	4.2	68
67	Input related microbial carbon dynamic of soil organic matter in particle size fractions. Soil Biology and Biochemistry, 2012, 47, 209-219.	4.2	47
68	Biological carbon assimilation and dynamics in a flooded rice – Soil system. Soil Biology and Biochemistry, 2012, 48, 39-46.	4.2	105
69	Discrete functional pools of soil organic matter in a UK grassland soil are differentially affected by temperature and priming. Soil Biology and Biochemistry, 2012, 49, 52-60.	4.2	34
70	Stable carbon isotope fractionation, carbon flux partitioning and priming effects in anoxic soils during methanogenic degradation of straw and soil organic matter. Soil Biology and Biochemistry, 2012, 49, 193-199.	4.2	53
71	Abiotic solubilization of soil organic matter, a less-seen aspect of dissolved organic matter production. Soil Biology and Biochemistry, 2012, 50, 12-21.	4.2	37
72	Model organic compounds differ in priming effects on alkalinity release in soils through carbon and nitrogen mineralisation. Soil Biology and Biochemistry, 2012, 51, 35-43.	4.2	54
73	Nodulated soybean enhances rhizosphere priming effects on soil organic matter decomposition more than non-nodulated soybean. Soil Biology and Biochemistry, 2012, 51, 56-65.	4.2	53

#	Article	IF	CITATIONS
74	Seasonal and diurnal dynamics of soil respiration fluxes in two typical forests on the semiarid Loess Plateau of China: Temperature sensitivities of autotrophs and heterotrophs and analyses of integrated driving factors. Soil Biology and Biochemistry, 2012, 52, 99-107.	4.2	35
75	Maize biochars accelerate short-term soil nitrogen dynamics in a loamy sand soil. Soil Biology and Biochemistry, 2012, 55, 20-27.	4.2	289
76	Mineralization of soil organic matter initiated by the application of an available substrate to the profiles of surface and buried podzolic soils. Eurasian Soil Science, 2012, 45, 435-444.	0.5	10
77	Application of X-ray computed tomography to quantify fresh root decomposition in situ. Plant and Soil, 2013, 372, 619-627.	1.8	15
79	Global soil carbon projections are improved by modelling microbial processes. Nature Climate Change, 2013, 3, 909-912.	8.1	772
80	Sustainable Agriculture Reviews. Sustainable Agriculture Reviews, 2013, , .	0.6	8
81	Soilâ€specific response functions of organic matter mineralization to the availability of labile carbon. Global Change Biology, 2013, 19, 1562-1571.	4.2	147
82	Priming of soil organic matter mineralisation is intrinsically insensitive to temperature. Soil Biology and Biochemistry, 2013, 66, 20-28.	4.2	58
83	Altered Composition and Microbial versus UV-Mediated Degradation of Dissolved Organic Matter in Boreal Soils Following Wildfire. Ecosystems, 2013, 16, 1396-1412.	1.6	46
84	Short-term effects of organic and inorganic fertilizers on soil microbial community structure and function. Biology and Fertility of Soils, 2013, 49, 723-733.	2.3	325
85	Impacts of changed litter inputs on soil CO2 efflux in three forest types in central south China. Science Bulletin, 2013, 58, 750-757.	1.7	15
86	Stimulation of Different Functional Groups of Bacteria by Various Plant Residues as a Driver of Soil Priming Effect. Ecosystems, 2013, 16, 810-822.	1.6	265
87	Soil property, CO2 emission and aridity index as agroecological indicators to assess the mineralization of cover crop green manure in a Mediterranean environment. Ecological Indicators, 2013, 34, 31-40.	2.6	47
88	Impacts of drying–wetting cycles on rhizosphere respiration and soil organic matter decomposition. Soil Biology and Biochemistry, 2013, 63, 89-96.	4.2	66
89	Soil microbial diversity and C turnover modified by tillage and cropping in Laos tropical grassland. Environmental Chemistry Letters, 2013, 11, 391-398.	8.3	28
90	Soil organic carbon contributes to alkalinity priming induced by added organic substrates. Soil Biology and Biochemistry, 2013, 65, 217-226.	4.2	16
91	Frequent-wildfires with shortened time-since-fire affect soil microbial functional stability to drying and rewetting events. Soil Biology and Biochemistry, 2013, 57, 663-674.	4.2	22
92	Soil enzymes in a changing environment: Current knowledge and future directions. Soil Biology and Biochemistry, 2013, 58, 216-234.	4.2	1,535

	CITA	TION REPORT	
#	Article	IF	Citations
93	Microbial utilisation of biochar-derived carbon. Science of the Total Environment, 2013, 465, 288-297.	3.9	292
94	Both priming and temperature sensitivity of soil organic matter decomposition depend on microbial biomass â€ <sup>6</sup> An incubation study. Soil Biology and Biochemistry, 2013, 57, 739-748.	4.2	180
95	Decomposition differences of labile carbon from litter to soil in a tropical rain forest and rubber plantation of Xishuangbanna, southwest China. European Journal of Soil Biology, 2013, 55, 55-61.	1.4	17
96	Root and arbuscular mycorrhizal mycelial interactions with soil microorganisms in lowland tropical forest. FEMS Microbiology Ecology, 2013, 85, 37-50.	1.3	66
97	Spatial variability of soil fungal and bacterial abundance: Consequences for carbon turnover along a transition from a forested to clear-cut site. Soil Biology and Biochemistry, 2013, 63, 5-13.	4.2	34
98	Fluxes of Carbon, Water and Nutrients. , 2013, , 225-328.		0
99	Tree species diversity versus tree species identity: Driving forces in structuring forest food webs as indicated by soil nematodes. Soil Biology and Biochemistry, 2013, 62, 36-45.	4.2	91
100	Chars produced by slow pyrolysis and hydrothermal carbonization vary in carbon sequestration potential and greenhouse gases emissions. Soil Biology and Biochemistry, 2013, 62, 137-146.	4.2	150
101	Roots from beech (Fagus sylvatica L.) and ash (Fraxinus excelsior L.) differentially affect soil microorganisms and carbon dynamics. Soil Biology and Biochemistry, 2013, 61, 23-32.	4.2	55
102	Carbon dynamics and retention in soil after anaerobic digestion of dairy cattle feed and faeces. Soil Biology and Biochemistry, 2013, 58, 82-87.	4.2	79
103	Agricultural Management and Labile Carbon Additions Affect Soil Microbial Community Structure and Interact with Carbon and Nitrogen Cycling. Microbial Ecology, 2013, 66, 158-170.	1.4	114
104	Effects of organic matter amendments on net primary productivity and greenhouse gas emissions in annual grasslands. Ecological Applications, 2013, 23, 46-59.	1.8	102
105	Ecosystemâ€level controls on rootâ€rhizosphere respiration. New Phytologist, 2013, 199, 339-351.	3.5	175
107	Analysis of Consecutive Events for Nutrient and Sediment Treatment in Field-Monitored Bioretention Cells. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	35
108	Lignin properties in topsoils of a beech/oak forest after 8Âyears of manipulated litter fall: relevance of altered input and oxidation of lignin. Plant and Soil, 2013, 367, 579-589.	1.8	8
109	Stoichiometry constrains microbial response to root exudation- insights from a model and a field experiment in a temperate forest. Biogeosciences, 2013, 10, 821-838.	1.3	197
110	The variable response of soil microorganisms to trace concentrations of low molecular weight organic substrates of increasing complexity. Soil Biology and Biochemistry, 2013, 64, 57-64.	4.2	44
111	Rhizosphere effects of tree species – Large reduction of N2O emission by saplings of ash, but not of beech, in temperate forest soil. European Journal of Soil Biology, 2013, 54, 7-15.	1.4	8

#	Article	IF	CITATIONS
112	Microbial use of 15N-labelled maize residues affected by winter temperature scenarios. Soil Biology and Biochemistry, 2013, 65, 22-32.	4.2	24
113	Variation in soil carbon under contrasting biodiesel feedstock crops. Pedobiologia, 2013, 56, 61-67.	0.5	1
114	Connecting the Green and Brown Worlds. Advances in Ecological Research, 2013, 49, 69-175.	1.4	84
116	Thermal adaptation of decomposer communities in warming soils. Frontiers in Microbiology, 2013, 4, 333.	1.5	270
117	Mineralisation of dissolved organic matter by heterotrophic stream biofilm communities in a large boreal catchment. Freshwater Biology, 2013, 58, 2007-2026.	1.2	23
118	Conference Report: Soil organic matter dynamics: beyond carbon: a report of the 4th International Symposium on Soil Organic Matter Dynamics. Carbon Management, 2013, 4, 485-489.	1.2	3
119	A Review: Carbon Dioxide Capture: Biomass-Derived-Biochar and Its Applications. Journal of Dispersion Science and Technology, 2013, 34, 974-984.	1.3	32
120	Linking aboveground net primary productivity to soil carbon and dissolved organic carbon in complex terrain. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1225-1236.	1.3	21
121	Biochar Impact on Plant Resistance to Disease. , 2013, , 49-76.		9
122	Soil respiration in a northeastern US temperate forest: a 22â€year synthesis. Ecosphere, 2013, 4, 1-28.	1.0	83
122 123	Soil respiration in a northeastern US temperate forest: a 22â€year synthesis. Ecosphere, 2013, 4, 1-28. Root and dissolved organic carbon controls on subsurface soil carbon dynamics: A model approach. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1646-1659.	1.0 1.3	83 45
122 123 124	Soil respiration in a northeastern US temperate forest: a 22â€year synthesis. Ecosphere, 2013, 4, 1-28.         Root and dissolved organic carbon controls on subsurface soil carbon dynamics: A model approach. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1646-1659.         Variability of above-ground litter inputs alters soil physicochemical and biological processes: a meta-analysis of litterfall-manipulation experiments. Biogeosciences, 2013, 10, 7423-7433.	1.0 1.3 1.3	83 45 155
122 123 124 125	Soil respiration in a northeastern US temperate forest: a 22â€year synthesis. Ecosphere, 2013, 4, 1-28.         Root and dissolved organic carbon controls on subsurface soil carbon dynamics: A model approach.         Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1646-1659.         Variability of above-ground litter inputs alters soil physicochemical and biological processes: a meta-analysis of litterfall-manipulation experiments. Biogeosciences, 2013, 10, 7423-7433.         Rhizosphere priming: a nutrient perspective. Frontiers in Microbiology, 2013, 4, 216.	1.0 1.3 1.3	83 45 155 407
122 123 124 125 126	Soil respiration in a northeastern US temperate forest: a 22â€year synthesis. Ecosphere, 2013, 4, 1-28.         Root and dissolved organic carbon controls on subsurface soil carbon dynamics: A model approach. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1646-1659.         Variability of above-ground litter inputs alters soil physicochemical and biological processes: a meta-analysis of litterfall-manipulation experiments. Biogeosciences, 2013, 10, 7423-7433.         Rhizosphere priming: a nutrient perspective. Frontiers in Microbiology, 2013, 4, 216.         A dual isotope approach to isolate soil carbon pools of different turnover times. Biogeosciences, 2013, 10, 8067-8081.	1.0 1.3 1.3 1.5	<ul> <li>83</li> <li>45</li> <li>155</li> <li>407</li> <li>52</li> </ul>
122 123 124 125 126	Soil respiration in a northeastern US temperate forest: a 22â€year synthesis. Ecosphere, 2013, 4, 1-28.         Root and dissolved organic carbon controls on subsurface soil carbon dynamics: A model approach.         Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1646-1659.         Variability of above-ground litter inputs alters soil physicochemical and biological processes: a meta-analysis of litterfall-manipulation experiments. Biogeosciences, 2013, 10, 7423-7433.         Rhizosphere priming: a nutrient perspective. Frontiers in Microbiology, 2013, 4, 216.         A dual isotope approach to isolate soil carbon pools of different turnover times. Biogeosciences, 2013, 10, 8067-8081.         Contribution of Doñana Wetlands to Carbon Sequestration. PLoS ONE, 2013, 8, e71456.	1.0 1.3 1.3 1.5 1.3 1.1	<ul> <li>83</li> <li>45</li> <li>155</li> <li>407</li> <li>52</li> <li>16</li> </ul>
122 123 124 125 126 127	<ul> <li>Soil respiration in a northeastern US temperate forest: a 22â€year synthesis. Ecosphere, 2013, 4, 1-28.</li> <li>Root and dissolved organic carbon controls on subsurface soil carbon dynamics: A model approach. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1646-1659.</li> <li>Variability of above-ground litter inputs alters soil physicochemical and biological processes: a meta-analysis of litterfall-manipulation experiments. Biogeosciences, 2013, 10, 7423-7433.</li> <li>Rhizosphere priming: a nutrient perspective. Frontiers in Microbiology, 2013, 4, 216.</li> <li>A dual isotope approach to isolate soil carbon pools of different turnover times. Biogeosciences, 2013, 10, 8067-8081.</li> <li>Contribution of Doñana Wetlands to Carbon Sequestration. PLoS ONE, 2013, 8, e71456.</li> <li>Priming of Soil Carbon Decomposition in Two Inner Mongolia Grassland Soils following Sheep Dung Addition: A Study Using 13C Natural Abundance Approach. PLoS ONE, 2013, 8, e78578.</li> </ul>	1.0 1.3 1.3 1.5 1.3 1.1	<ul> <li>83</li> <li>45</li> <li>155</li> <li>407</li> <li>52</li> <li>16</li> <li>11</li> </ul>
<ol> <li>122</li> <li>123</li> <li>124</li> <li>125</li> <li>126</li> <li>127</li> <li>128</li> <li>129</li> </ol>	Soil respiration in a northeastern US temperate forest: a 22â&year synthesis. Ecosphere, 2013, 4, 1-28.         Root and dissolved organic carbon controls on subsurface soil carbon dynamics: A model approach.         Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1646-1659.         Variability of above-ground litter inputs alters soil physicochemical and biological processes: a meta-analysis of litterfall-manipulation experiments. Biogeosciences, 2013, 10, 7423-7433.         Rhizosphere priming: a nutrient perspective. Frontiers in Microbiology, 2013, 4, 216.         A dual isotope approach to isolate soil carbon pools of different turnover times. Biogeosciences, 2013, 10, 8067-8081.         Contribution of Do±ana Wetlands to Carbon Sequestration. PLoS ONE, 2013, 8, e71456.         Priming of Soil Carbon Decomposition in Two Inner Mongolia Crassland Soils following Sheep Dung Addition: A Study Using 13C Natural Abundance Approach. PLoS ONE, 2013, 8, e78578.         Dynamic relationships between microbial biomass, respiration, inorganic nutrients and enzyme activities: informing enzyme-based decomposition models. Frontiers in Microbiology, 2013, 4, 223.	1.0 1.3 1.3 1.5 1.3 1.1 1.1 1.1	<ul> <li>83</li> <li>45</li> <li>155</li> <li>407</li> <li>52</li> <li>16</li> <li>11</li> <li>242</li> </ul>

#	Article	IF	CITATIONS
131	Effects of Detrital Inputs and Roots on Carbon Saturation Deficit of a Temperate Forest Soil. Soil Science Society of America Journal, 2014, 78, S76.	1.2	21
132	Integrating microbial physiology and physio-chemical principles in soils with the MIcrobial-MIneral Carbon Stabilization (MIMICS) model. Biogeosciences, 2014, 11, 3899-3917.	1.3	243
133	Straw application in paddy soil enhances methane production also from other carbon sources. Biogeosciences, 2014, 11, 237-246.	1.3	63
134	Interactions of Soluble and Solid Organic Amendments with Priming Effects Induced by Glucose. Vadose Zone Journal, 2014, 13, 1-8.	1.3	6
135	The sensitivity of carbon turnover in the Community Land Model to modified assumptions about soil processes. Earth System Dynamics, 2014, 5, 211-221.	2.7	36
136	Measuring and Modeling Soil Carbon Respiration following Repeated Dairy Slurry Application. Soil Science Society of America Journal, 2014, 78, 1414-1425.	1.2	7
137	Microbial carbon mineralization in tropical lowland and montane forest soils of Peru. Frontiers in Microbiology, 2014, 5, 720.	1.5	31
138	Sources and distribution of organic matter in thirty five tropical estuaries along the west coast of India-a preliminary assessment. Estuarine, Coastal and Shelf Science, 2014, 151, 21-33.	0.9	44
139	The myriad surprises of unwanted guests: invasive plants and dynamic soil carbon pools. New Phytologist, 2014, 203, 1-3.	3.5	5
140	Experimental drought reduces the transfer of recently fixed plant carbon to soil microbes and alters the bacterial community composition in a mountain meadow. New Phytologist, 2014, 201, 916-927.	3.5	261
141	Carbon Mineralizability Determines Interactive Effects on Mineralization of Pyrogenic Organic Matter and Soil Organic Carbon. Environmental Science & Camp; Technology, 2014, 48, 13727-13734.	4.6	67
142	Microbe-driven turnover offsets mineral-mediated storage of soil carbon under elevated CO2. Nature Climate Change, 2014, 4, 1099-1102.	8.1	309
143	Root-induced changes in nutrient cycling in forests depend on exudation rates. Soil Biology and Biochemistry, 2014, 78, 213-221.	4.2	181
144	Effect of biogas digested slurry based-biochar and digested liquid on N2O, CO2 flux and crop yield for three continuous cropping cycles of komatsuna (Brassica rapa var. perviridis). Biology and Fertility of Soils, 2014, 50, 1201-1209.	2.3	33
145	Priming in the microbial landscape: periphytic algal stimulation of litterâ€associated microbial decomposers. Ecology, 2014, 95, 749-762.	1.5	112
146	Bacteria and Fungi Respond Differently to Multifactorial Climate Change in a Temperate Heathland, Traced with 13C-Glycine and FACE CO2. PLoS ONE, 2014, 9, e85070.	1.1	42
147	Precipitation and net ecosystem exchange are the most important drivers of DOC flux in upland boreal catchments. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1861-1878.	1.3	27
148	Translocation and turnover of rhizodeposit carbon within soil microbial communities of an extensive grassland ecosystem. Plant and Soil, 2014, 376, 61-73.	1.8	42

#	Article	IF	CITATIONS
149	Physiological shifts in the microbial community drive changes in enzyme activity in a perennial agroecosystem. Biogeochemistry, 2014, 117, 67-79.	1.7	52
150	Micro-scale modeling of pesticide degradation coupled to carbon turnover in the detritusphere: model description and sensitivity analysis. Biogeochemistry, 2014, 117, 185-204.	1.7	20
151	Impact of fine litter chemistry on lignocellulolytic enzyme efficiency during decomposition of maize leaf and root in soil. Biogeochemistry, 2014, 117, 169-183.	1.7	65
152	Soil carbon sensitivity to temperature and carbon use efficiency compared across microbial-ecosystem models of varying complexity. Biogeochemistry, 2014, 119, 67-84.	1.7	89
153	Influence of gap size on carbon and nitrogen biogeochemical cycling in Northern hardwood forests of the Upper Peninsula, Michigan. Plant and Soil, 2014, 377, 323-335.	1.8	29
154	Soil microbial activity in relation to dissolved organic matter properties under different tree species. Plant and Soil, 2014, 377, 169-177.	1.8	34
155	Contrasting effects of increased carbon input on boreal SOM decomposition with and without presence of living root system of Pinus sylvestris L. Plant and Soil, 2014, 377, 145-158.	1.8	23
156	Changes in N and C concentrations, soil acidity and P availability in tropical mixed acacia and eucalypt plantations on a nutrient-poor sandy soil. Plant and Soil, 2014, 379, 205-216.	1.8	84
157	Changes of labile and recalcitrant carbon pools under nitrogen addition in a city lawn soil. Journal of Soils and Sediments, 2014, 14, 515-524.	1.5	31
158	Plant rhizosphere influence on microbial C metabolism: the role of elevated CO2, N availability and root stoichiometry. Biogeochemistry, 2014, 117, 229-240.	1.7	52
159	Spatial distribution of rhizodeposit carbon of maize (Zea mays L.) in soil aggregates assessed by multiple pulse 13C labeling in the field. Plant and Soil, 2014, 375, 317-329.	1.8	14
160	Microbial interactions affect sources of priming induced by cellulose. Soil Biology and Biochemistry, 2014, 74, 39-49.	4.2	147
161	Fresh carbon and nitrogen inputs alter organic carbon mineralization and microbial community in forest deep soil layers. Soil Biology and Biochemistry, 2014, 72, 145-151.	4.2	107
162	Effects of rhizospheres on the community composition of Collembola in a temperate forest. Applied Soil Ecology, 2014, 83, 109-115.	2.1	15
163	Fate of biochar in chemically- and physically-defined soil organic carbon pools. Organic Geochemistry, 2014, 73, 35-46.	0.9	25
164	Controls on wood and leaf litter incorporation into soil fractions in forests at different successional stages. Soil Biology and Biochemistry, 2014, 69, 212-222.	4.2	42
165	Extending the ROMUL model to simulate the dynamics of dissolved and sorbed C and N compounds in decomposing boreal mor. Ecological Modelling, 2014, 272, 277-292.	1.2	6
166	Response of organic carbon mineralization and microbial community to leaf litter and nutrient additions in subtropical forest soils. Soil Biology and Biochemistry, 2014, 71, 13-20.	4.2	169

		CITATION R	REPORT	
#	Article		IF	CITATIONS
167	Synthesis and modeling perspectives of rhizosphere priming. New Phytologist, 2014, 2	01, 31-44.	3.5	436
168	Mobilisation of recalcitrant soil nutrient fractions supports foliar nitrogen to phosphore homeostasis in a seabird soil. Plant and Soil, 2014, 385, 77-86.	us	1.8	8
169	C-N Isotope Coupling along the Vertical Profiles under Different Land Use in a Typical K Guizhou, Southwest China. Procedia Earth and Planetary Science, 2014, 10, 194-199.	arst Area,	0.6	0
170	Processes and Drivers of Nitrogen Removal in Stormwater Biofiltration. Critical Reviews Environmental Science and Technology, 2014, 44, 796-846.	s in	6.6	84
171	Contribution of above- and below-ground plant traits to the structure and function of § soil microbial communities. Annals of Botany, 2014, 114, 1011-1021.	grassland	1.4	136
172	Priming of soil organic carbon by malic acid addition is differentially affected by nutrier Soil Biology and Biochemistry, 2014, 77, 158-169.	ıt availability.	4.2	72
173	Root exudates mediated interactions belowground. Soil Biology and Biochemistry, 201	4, 77, 69-80.	4.2	671
174	Effects of earthworms on physicochemical properties and microbial profiles during verr of fresh fruit and vegetable wastes. Bioresource Technology, 2014, 170, 45-52.	nicomposting	4.8	79
175	Warming-related increases in soil CO2 efflux are explained by increased below-ground Nature Climate Change, 2014, 4, 822-827.	carbon flux.	8.1	166
176	Disentangling root responses to climate change in a semiarid grassland. Oecologia, 20	14, 175, 699-711.	0.9	52
177	Spatial distribution and turnover of root-derived carbon in alfalfa rhizosphere dependin subsoil properties and mycorrhization. Plant and Soil, 2014, 380, 101-115.	g on top- and	1.8	31
178	Temperature sensitivity of soil and root respiration in contrasting soils. Plant and Soil, 2 253-267.	2014, 382,	1.8	23
179	Possible effect of soil organic carbon on its own turnover: A negative feedback. Soil Bic Biochemistry, 2014, 69, 313-319.	ology and	4.2	19
180	Introducing an improved multi-proxy approach for paleoenvironmental reconstruction loess–paleosol archives applied on the Late Pleistocene Nussloch sequence (SW Ger Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 410, 300-315.	of many).	1.0	53
181	Pulse-dynamic and monotonic decline patterns of soil respiration inÂlong term laborato microcosms. Soil Biology and Biochemistry, 2014, 68, 329-336.	ory	4.2	26
182	Alterations in forest detritus inputs influence soil carbon concentration and soil respira Central-European deciduous forest. Soil Biology and Biochemistry, 2014, 74, 106-114.	tion in a	4.2	79
183	Effect of biochar on soil respiration in the maize growing season after 5 years of conse application. Soil Research, 2014, 52, 505.	cutive	0.6	29
184	Crop rotation complexity regulates the decomposition of high and low quality residues and Biochemistry, 2014, 78, 243-254.	. Soil Biology	4.2	133

#	Article	IF	CITATIONS
185	Fate of Chinese-fir litter during decomposition as a result of inorganic N additions. Applied Soil Ecology, 2014, 74, 30-36.	2.1	5
186	Effects of biodegradable mulch on soil quality. Applied Soil Ecology, 2014, 79, 59-69.	2.1	104
187	Lignin biogeochemistry: from modern processes to Quaternary archives. Quaternary Science Reviews, 2014, 87, 46-59.	1.4	110
188	Ryegrass-derived pyrogenic organic matter changes organic carbon and nitrogen mineralization in a temperate forest soil. Soil Biology and Biochemistry, 2014, 69, 291-301.	4.2	100
189	Temporal changes in SOM, N, P, K, and their stoichiometric ratios during reforestation in China and interactions with soil depths: Importance of deep-layer soil and management implications. Forest Ecology and Management, 2014, 325, 8-17.	1.4	42
190	Labile carbon retention compensates for CO <sub>2</sub> released by priming in forest soils. Global Change Biology, 2014, 20, 1943-1954.	4.2	171
191	Rhizosphere priming effects on soil carbon and nitrogen mineralization. Soil Biology and Biochemistry, 2014, 76, 183-192.	4.2	304
192	Increased belowground carbon inputs and warming promote loss ofÂsoil organic carbon through complementary microbial responses. Soil Biology and Biochemistry, 2014, 76, 57-69.	4.2	115
193	Soil respiration and microbial biomass after residue addition are influenced by the extent by which water-extractable organic C was removed from the residues. European Journal of Soil Biology, 2014, 63, 28-32.	1.4	8
194	Does the addition of labile substrate destabilise old soil organic matter?. Soil Biology and Biochemistry, 2014, 76, 149-160.	4.2	86
195	Priming of soil organic carbon decomposition induced by corn compared to soybean crops. Soil Biology and Biochemistry, 2014, 75, 273-281.	4.2	72
196	Fate of 14C-labeled dissolved organic matter in paddy and upland soils in responding to moisture. Science of the Total Environment, 2014, 488-489, 268-274.	3.9	23
197	Hot spots, hot moments, and spatio-temporal controls on soil CO2 efflux in a water-limited ecosystem. Soil Biology and Biochemistry, 2014, 77, 12-21.	4.2	97
198	Interactions between leaf litter quality, particle size, and microbial community during the earliest stage of decay. Biogeochemistry, 2014, 117, 153-168.	1.7	59
199	Root traits and microbial community interactions in relation to phosphorus availability and acquisition, with particular reference to Brassica. Frontiers in Plant Science, 2014, 5, 27.	1.7	111
200	Sequestration of Organic Carbon Influenced by the Application of Straw Residue and Farmyard Manure in Two Different Soils. International Agrophysics, 2014, 28, 169-176.	0.7	46
201	Modeling priming effects on microbial consumption of dissolved organic carbon in rivers. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 982-995.	1.3	67
202	Interactions among roots, mycorrhizas and freeâ€living microbial communities differentially impact soil carbon processes. Journal of Ecology, 2015, 103, 1442-1453.	1.9	64

	CHANOR	LFORT	
#	ARTICLE A metaâ€analysis on pyrogenic organic matter induced priming effect. GCB Bioenergy, 2015, 7, 577-590	IF 2.5	Citations
204	Relative contribution of maize and external manure amendment to soil carbon sequestration in a	1.6	51
205	Phosphate addition enhanced soil inorganic nutrients to a large extent in three tropical forests. Scientific Reports, 2015, 5, 7923.	1.6	17
207	Understanding drivers of peatland extracellular enzyme activity in the PEATcosm experiment: mixed evidence for enzymic latch hypothesis. Plant and Soil, 2015, 397, 371-386.	1.8	29
208	Soil organic carbon across scales. Global Change Biology, 2015, 21, 3561-3574.	4.2	114
209	Toward improved model structures for analyzing priming: potential pitfalls of using bulk turnover time. Global Change Biology, 2015, 21, 4298-4302.	4.2	23
210	Application of a twoâ€pool model to soil carbon dynamics under elevated <scp>CO</scp> <sub>2</sub> . Global Change Biology, 2015, 21, 4293-4297.	4.2	18
211	Representing life in the Earth system with soil microbial functional traits in the MIMICS model. Geoscientific Model Development, 2015, 8, 1789-1808.	1.3	154
212	A call for international soil experiment networks for studying, predicting, and managing global change impacts. Soil, 2015, 1, 575-582.	2.2	12
213	After-effect of long-term soil management on soil respiration and otherqualitative parameters under prolonged dry soil conditions. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2015, 39, 633-651.	0.8	3
214	A Brief History of Soil Enzymology Research. Soil Science Society of America Book Series, 2015, , 1-34.	0.3	10
215	Depth-Dependent Mineral Soil CO2 Production Processes: Sensitivity to Harvesting-Induced Changes in Soil Climate. PLoS ONE, 2015, 10, e0134171.	1.1	9
216	Effects of Nitrogen Addition on Litter Decomposition and CO2 Release: Considering Changes in Litter Quantity. PLoS ONE, 2015, 10, e0144665.	1.1	11
217	How tree roots respond to drought. Frontiers in Plant Science, 2015, 6, 547.	1.7	520
218	Disponibilidade e mineralização do nitrogênio apÃ3s aplicações sucessivas de lodo de esgoto no solo, estimadas por meio de incubação anaerÃ3bica. Pesquisa Agropecuaria Brasileira, 2015, 50, 333-342.	0.9	8
219	Absence of a priming effect on dissolved organic carbon degradation in lake water. Limnology and Oceanography, 2015, 60, 159-168.	1.6	91
220	Loss of labile organic carbon from subsoil due to land-use changes inÂsubtropical China. Soil Biology and Biochemistry, 2015, 88, 148-157.	4.2	114
221	Grass invasion effects on forest soil carbon depend on landscape-level land use patterns. Ecology, 2015, 96, 2265-2279.	1.5	32

#	Article	IF	CITATIONS
222	How do biodegradable organic residues affect soil CO2 emissions? Case study of a Mediterranean agro-ecosystem. Soil and Tillage Research, 2015, 153, 48-58.	2.6	5
223	Investigating microbial transformations of soil organic matter: synthesizing knowledge from disparate fields to guide new experimentation. Soil, 2015, 1, 313-330.	2.2	21
224	Responses of biotic and abiotic effects on conservation and supply of fertilizer N to inhibitors and glucose inputs. Soil Biology and Biochemistry, 2015, 89, 72-81.	4.2	22
225	Effects of two root-secreted phenolic compounds from a subalpine coniferous species on soil enzyme activity and microbial biomass. Chemistry and Ecology, 2015, 31, 636-649.	0.6	15
226	Influence of exogenous organic matter on prokaryotic and eukaryotic microbiota in an agricultural soil. A multidisciplinary approach. Soil Biology and Biochemistry, 2015, 82, 9-20.	4.2	60
227	Carbon sequestration potential of hydrothermal carbonization char (hydrochar) in two contrasting soils; results of a 1-year field study. Biology and Fertility of Soils, 2015, 51, 123-134.	2.3	57
228	Priming of the decomposition of ageing soil organic matter: concentration dependence and microbial control. Functional Ecology, 2015, 29, 285-296.	1.7	57
229	Microbial hotspots and hot moments in soil: Concept & review. Soil Biology and Biochemistry, 2015, 83, 184-199.	4.2	1,141
230	Use of the nitrification inhibitor dicyandiamide (DCD) does not mitigate N2O emission from bovine urine patches under Oxisol in Northwest Brazil. Nutrient Cycling in Agroecosystems, 2015, 101, 83-92.	1.1	26
231	Changes in microbial properties and community composition in acid soils receiving wastewater from concentrated animal farming operations. Applied Soil Ecology, 2015, 90, 11-17.	2.1	15
232	Aggregate size and their disruption affect 14C-labeled glucose mineralization and priming effect. Applied Soil Ecology, 2015, 90, 1-10.	2.1	77
233	No evidence of aquatic priming effects in hyporheic zone microcosms. Scientific Reports, 2014, 4, 5187.	1.6	66
234	The rhizosphere and hyphosphere differ in their impacts on carbon and nitrogen cycling in forests exposed to elevated <scp>CO</scp> <sub>2</sub> . New Phytologist, 2015, 205, 1164-1174.	3.5	84
235	Primary effects of extracellular enzyme activity and microbial community on carbon and nitrogen mineralization in estuarine and tidal wetlands. Applied Microbiology and Biotechnology, 2015, 99, 2895-2909.	1.7	45
236	ls priming effect a significant process for long-term SOC dynamics? Analysis of a 52-years old experiment. Biogeochemistry, 2015, 123, 203-219.	1.7	33
237	Elevated atmospheric carbon dioxide concentration stimulates soil microbial activity and impacts water-extractable organic carbon in an agricultural soil. Biogeochemistry, 2015, 122, 253-267.	1.7	10
238	Ectomycorrhizal fungi – potential organic matter decomposers, yet not saprotrophs. New Phytologist, 2015, 205, 1443-1447.	3.5	589
239	Effects of plant-derived dissolved organic matter (DOM) on soil CO2 and N2O emissions and soil carbon and nitrogen sequestrations. Applied Soil Ecology, 2015, 96, 122-130.	2.1	63

#	Article	IF	CITATIONS
240	Preceding crop and weed management history affect denitrification and denitrifier community structure throughout the development of durum wheat. Agriculture, Ecosystems and Environment, 2015, 212, 49-63.	2.5	6
241	Sugars in soil and sweets for microorganisms: Review of origin, content, composition and fate. Soil Biology and Biochemistry, 2015, 90, 87-100.	4.2	351
242	Cover crops mitigate nitrate leaching in cropping systems including grain legumes: Field evidence and model simulations. Agriculture, Ecosystems and Environment, 2015, 212, 1-12.	2.5	84
243	Effects of forest management on productivity and carbon sequestration: A review and hypothesis. Forest Ecology and Management, 2015, 355, 124-140.	1.4	145
244	Tracking litter-derived dissolved organic matter along a soil chronosequence using 14C imaging: Biodegradation, physico-chemical retention or preferential flow?. Soil Biology and Biochemistry, 2015, 88, 333-343.	4.2	43
245	Foliar nutrient resorption constrains soil nutrient transformations under two native oak species in a temperate deciduous forest in Mexico. European Journal of Forest Research, 2015, 134, 803-817.	1.1	15
246	Long-term influence of biochar on native organic carbon mineralisation in a low-carbon clayey soil. Scientific Reports, 2014, 4, 3687.	1.6	244
247	The effects of temporal variation in soil carbon inputs on resource allocation in an annual plant. Journal of Plant Ecology, 2015, , rtv033.	1.2	2
248	From humic substances to soil organic matter–microbial contributions. In honour of Konrad Haider and James P. Martin for their outstanding research contribution to soil science. Journal of Soils and Sediments, 2015, 15, 1865-1881.	1.5	41
249	Forest conversion stimulated deep soil C losses and decreased C recalcitrance through priming effect in subtropical China. Biology and Fertility of Soils, 2015, 51, 857-867.	2.3	25
250	A general mathematical framework for representing soil organic matter dynamics. Ecological Monographs, 2015, 85, 505-524.	2.4	78
251	Plant nitrogen uptake drives rhizosphere bacterial community assembly during plant growth. Soil Biology and Biochemistry, 2015, 85, 170-182.	4.2	137
252	Lignin biochemistry and soil N determine crop residue decomposition and soil priming. Biogeochemistry, 2015, 124, 335-351.	1.7	71
253	CO2 emissions from a forest soil as influenced by amendments of different crop straws: Implications for priming effects. Catena, 2015, 131, 56-63.	2.2	27
254	Microbial carbon concentration in samples of seabird and non-seabird forest soil: Implications for leaf litter cycling. Pedobiologia, 2015, 58, 33-39.	0.5	12
255	Impacts of organic residue management on the soil C dynamics in a tropical eucalypt plantation on a nutrient-poor sandy soil after three rotations. Soil Biology and Biochemistry, 2015, 85, 183-189.	4.2	44
256	Fresh carbon input differentially impacts soil carbon decomposition across natural and managed systems. Ecology, 2015, 96, 2806-2813.	1.5	43
257	Functional Role of the Herbaceous Layer in Eastern Deciduous Forest Ecosystems. Ecosystems, 2015, 18, 221-236.	1.6	43

#	Article	IF	CITATIONS
258	Changes in the chemical composition of soil organic matter over time in the presence and absence of living roots: a pyrolysis GC/MS study. Plant and Soil, 2015, 391, 161-177.	1.8	13
259	Effect of vegetation type, wetting intensity, and nitrogen supply on external carbon stimulated heterotrophic respiration and microbial biomass carbon in forest soils. Science China Earth Sciences, 2015, 58, 1446-1456.	2.3	11
261	Does day and night sampling reduce spurious correlation between canopy photosynthesis and ecosystem respiration?. Agricultural and Forest Meteorology, 2015, 207, 117-126.	1.9	63
262	Chemical composition of organic matter in a deep soil changed with a positive priming effect due to glucose addition as investigated by 13C NMR spectroscopy. Soil Biology and Biochemistry, 2015, 85, 137-144.	4.2	62
263	The priming effect of soluble carbon inputs in organic and mineral soils from a temperate forest. Oecologia, 2015, 178, 1239-1250.	0.9	45
264	Labile substrate availability controls temperature sensitivity of organic carbon decomposition at different soil depths. Biogeochemistry, 2015, 126, 85-98.	1.7	45
265	Plants increase laccase activity in soil with long-term elevated CO2 legacy. European Journal of Soil Biology, 2015, 70, 97-103.	1.4	4
266	Sheep excreta cause no positive priming of peat-derived CO2 and N2O emissions. Soil Biology and Biochemistry, 2015, 88, 282-293.	4.2	13
267	Synergistic and antagonistic interactions among organic amendments of contrasted stability, nutrient availability and soil organic matter in the regulation of C mineralisation. European Journal of Soil Biology, 2015, 70, 118-125.	1.4	31
268	Priming effects of Aporrectodea caliginosa on young rhizodeposits and old soil organic matter following wheat straw addition. European Journal of Soil Biology, 2015, 70, 38-45.	1.4	13
269	Living roots magnify the response of soil organic carbon decomposition to temperature in temperate grassland. Global Change Biology, 2015, 21, 1368-1375.	4.2	26
270	Studying the impact of living roots on the decomposition of soil organic matter in two different forestry-drained peatlands. Plant and Soil, 2015, 396, 59-72.	1.8	17
271	Improvement of the value of green manure via mixed hairy vetch and barley cultivation in temperate paddy soil. Field Crops Research, 2015, 183, 138-146.	2.3	39
272	Rhizosphere processes are quantitatively important components of terrestrial carbon and nutrient cycles. Global Change Biology, 2015, 21, 2082-2094.	4.2	424
273	Effect of low temperature and soil type on the decomposition rate of soil organic carbon and clover leaves, and related priming effect. Soil Biology and Biochemistry, 2015, 80, 156-166.	4.2	63
274	Soil respiration is not limited by reductions in microbial biomass during long-term soil incubations. Soil Biology and Biochemistry, 2015, 81, 304-310.	4.2	53
275	Experimental evidence for sequestering C with biochar by avoidance of <scp>CO</scp> <sub>2</sub> emissions from original feedstock and protection of native soil organic matter. GCB Bioenergy, 2015, 7, 512-526.	2.5	71
276	Rhizosphere priming can promote mobilisation of N-rich compounds from soil organic matter. Soil Biology and Biochemistry, 2015, 81, 236-243.	4.2	125

#	Article	IF	CITATIONS
277	The effect of rice straw on the priming of soil organic matter and methane production in peat soils. Soil Biology and Biochemistry, 2015, 81, 98-107.	4.2	93
278	Optimization of method to quantify soil organic matter dynamics and carbon sequestration potential in volcanic ash soils. Biogeochemistry, 2015, 123, 27-47.	1.7	18
279	Exploring the transfer of recent plant photosynthates to soil microbes: mycorrhizal pathway vs direct root exudation. New Phytologist, 2015, 205, 1537-1551.	3.5	370
280	The effect of earthworm activity on soil bioporosity – Investigated with X-ray computed tomography and endoscopy. Soil and Tillage Research, 2015, 146, 79-88.	2.6	69
281	Linking soil bacterial biodiversity and soil carbon stability. ISME Journal, 2015, 9, 1477-1480.	4.4	147
282	Beyond carbon sequestration: soil as conduit of solar energy. European Journal of Soil Science, 2015, 66, 19-32.	1.8	69
283	Biochemistry of hexose and pentose transformations in soil analyzed by position-specific labeling and 13C-PLFA. Soil Biology and Biochemistry, 2015, 80, 199-208.	4.2	50
284	Compostable properties of antimicrobial bioplastics based on cinnamaldehyde cross-linked gliadins. Chemical Engineering Journal, 2015, 262, 447-455.	6.6	36
285	Bacterial community structure in maize stubble-amended soils with different moisture levels estimated by bar-coded pyrosequencing. Applied Soil Ecology, 2015, 86, 62-70.	2.1	28
286	Nitrogen and phosphorus constrain labile and stable carbon turnover in lowland tropical forest soils. Soil Biology and Biochemistry, 2015, 80, 26-33.	4.2	113
287	Sensitivity analysis of six soil organic matter models applied to the decomposition of animal manures and crop residues. Italian Journal of Agronomy, 0, 11, .	0.4	1
288	Hydrologically transported dissolved organic carbon influences soil respiration in a tropical rainforest. Biogeosciences, 2016, 13, 5487-5497.	1.3	10
290	Fate of rice shoot and root residues, rhizodeposits, and microbe-assimilated carbon in paddy soil – Part 1: Decomposition and priming effect. Biogeosciences, 2016, 13, 4481-4489.	1.3	57
291	Soil microorganisms and enzyme activity at different levels of organic matter stability. Journal of Soil Science and Plant Nutrition, 2016, , 0-0.	1.7	13
292	Amazon Forest Ecosystem Responses to Elevated Atmospheric CO2 and Alterations in Nutrient Availability: Filling the Gaps with Model-Experiment Integration. Frontiers in Earth Science, 2016, 4, .	0.8	20
293	Evidence for the Priming Effect in a Planktonic Estuarine Microbial Community. Frontiers in Marine Science, 2016, 3, .	1.2	31
294	Dissolved Organic and Inorganic Carbon Flow Paths in an Amazonian Transitional Forest. Frontiers in Marine Science, 2016, 3, .	1.2	17
295	Carbon Availability Modifies Temperature Responses of Heterotrophic Microbial Respiration, Carbon Uptake Affinity, and Stable Carbon Isotope Discrimination. Frontiers in Microbiology, 2016, 7, 2083.	1.5	20

ARTICLE IF CITATIONS How Time since Forest Fire Affects Stand Structure, Soil Physical-Chemical Properties and Soil CO2 296 0.9 17 Efflux in Hemiboreal Scots Pine Forest Fire Chronosequence?. Forests, 2016, 7, 201. The Effect of Harvest on Forest Soil Carbon: A Meta-Analysis. Forests, 2016, 7, 308. 118 Cover crops prevent the deleterious effect of nitrogen fertilisation on bacterial diversity by 299 2.3 75 maintaining the carbon content of ploughed soil. Geoderma, 2016, 281, 49-57. Plant species control and soil faunal involvement in the processes of above―and belowâ€ground litter 300 1.2 decomposition. Oikos, 2016, 125, 883-892. Biochar amendment altered the molecular-level composition of native soil organic matter in a 301 0.7 12 temperate forest soil. Environmental Chemistry, 2016, 13, 854. Identification of Metabolically Active Rhizosphere Microorganisms by Stable Isotopic Probing of PLFA in Switchgrass. Communications in Soil Science and Plant Analysis, 2016, 47, 2433-2444. Temporal responses of microorganisms and native organic carbon mineralization to 13C-glucose 304 addition in a sandy loam soil with long-term fertilization. European Journal of Soil Biology, 2016, 74, 1.4 13 16-22. Climate-smart soils. Nature, 2016, 532, 49-57. 305 13.7 1,320 Effect of climate change, CO<sub>2</sub> trends, nitrogen addition, and landâ€cover and management 306 intensity changes on the carbon balance of European grasslands. Global Change Biology, 2016, 22, 4.2 60 338-35Ó. Ecological stoichiometry controls the transformation and retention of plant-derived organic matter 4.2 to humus in response to nitrogen fertilisation. Soil Biology and Biochemistry, 2016, 99, 117-127. Effect of beech (Fagus sylvatica L.) rhizosphere on phosphorous availability in soils at different 308 2.342 altitudes (Central Italy). Geoderma, 2016, 276, 53-63. Do warming-induced changes in quantity and stoichiometry of root exudation promote soil N transformations via stimulation of soil nitrifiers, denitrifiers and ammonifiers?. European Journal of 1.4 Soil Biology, 2016, 74, 60-68. Bridging empirical and carbon-balance based forest site productivity – Significance of below-ground 311 1.4 22 allocation. Forest Ecology and Management, 2016, 372, 64-77. The nature and dynamics of soil organic matter: Plant inputs, microbial transformations, and organic 4.2 matter stabilization. Soil Biology and Biochemistry, 2016, 98, 109-126. Comment on "Synergistic co-digestion of solid-organic-waste and municipal-sewage-sludge: 1 plus 1 equals more than 2 in terms of biogas production and solids reductionaۥ[Water Research 87, 416a€"423]. 313 5.3 15 Water Research, 2016, 95, 392-393. Gross Nitrogen Dynamics in the Mycorrhizosphere of an Organic Forest Soil. Ecosystems, 2016, 19, 314 284-295. Redistribution of soil organic matter by permafrost disturbance in the Canadian High Arctic. 315 1.7 16 Biogeochemistry, 2016, 128, 397-415. Microbial community mediated response of organic carbon mineralization to labile carbon and 94 nitrogen addition in topsoil and subsoil. Biogeochemistry, 2016, 128, 125-139.

#	Article	IF	CITATIONS
317	Rapid fine root C and N mineralization in a northern temperate forest soil. Biogeochemistry, 2016, 128, 187-200.	1.7	17
318	Elevated CO2 induced rhizosphere effects on the decomposition and N recovery from crop residues. Plant and Soil, 2016, 408, 55-71.	1.8	7
319	Limits to soil carbon stability; Deep, ancient soil carbon decomposition stimulated by new labile organic inputs. Soil Biology and Biochemistry, 2016, 98, 85-94.	4.2	113
320	Maize root decomposition in subsoil horizons of two silt loams differing in soil organic C accumulation due to colluvial processes. Geoderma, 2016, 283, 101-109.	2.3	5
321	Short-term contributions of cover crop surface residue return to soil carbon and nitrogen contents in temperate Australia. Environmental Science and Pollution Research, 2016, 23, 23175-23183.	2.7	15
322	Stability of pyrochar and hydrochar in agricultural soil - a new field incubation method. Geoderma, 2016, 284, 85-92.	2.3	39
323	Plant–Microbiota Interactions as a Driver of the Mineral Turnover in the Rhizosphere. Advances in Applied Microbiology, 2016, 95, 1-67.	1.3	105
324	Designing advanced biochar products for maximizing greenhouse gas mitigation potential. Critical Reviews in Environmental Science and Technology, 2016, 46, 1367-1401.	6.6	86
325	Hotspots of microbial activity induced by earthworm burrows, old root channels, and their combination in subsoil. Biology and Fertility of Soils, 2016, 52, 1105-1119.	2.3	73
326	Modeling coupled pesticide degradation and organic matter turnover: From gene abundance to process rates. Soil Biology and Biochemistry, 2016, 103, 349-364.	4.2	22
327	Carbon budget by priming in a biochar-amended soil. European Journal of Soil Biology, 2016, 76, 26-34.	1.4	10
328	Dominance of either physicochemical or biological phosphorus cycling processes in temperate forest soils of contrasting phosphate availability. Soil Biology and Biochemistry, 2016, 101, 85-95.	4.2	62
329	Effect of organic and mineral N fertilizers on N2O emissions from an intensive vegetable rotation. Biology and Fertility of Soils, 2016, 52, 895-908.	2.3	40
330	Molecular fate of root and shoot litter on incorporation and decomposition in earthworm casts. Organic Geochemistry, 2016, 101, 1-10.	0.9	27
331	Aggregate size and glucose level affect priming sources: A three-source-partitioning study. Soil Biology and Biochemistry, 2016, 97, 199-210.	4.2	42
332	A new emphasis on root traits for perennial grass and legume varieties with environmental and ecological benefits. Food and Energy Security, 2016, 5, 26-39.	2.0	45
333	Functional response of soil microbial communities to tillage, cover crops and nitrogen fertilization. Applied Soil Ecology, 2016, 108, 147-155.	2.1	114
334	Partitioning soil respiration in two typical forests in semi-arid regions, North China. Catena, 2016, 147, 536-544.	2.2	17

		CITATION REPORT		
#	Article	I	F	CITATIONS
335	Carbon sequestration dynamic, trend and efficiency as affected by 22â€year fertilization und rice–wheat cropping system. Journal of Plant Nutrition and Soil Science, 2016, 179, 652-66	er a 1 50. 1	.1	19
336	Impact of biochar amendment on soil water soluble carbon in the context of extreme hydrolc events. Chemosphere, 2016, 160, 287-292.	gical 4	.2	20
337	Plant diversity and root traits benefit physical properties key to soil function in grasslands. Ec Letters, 2016, 19, 1140-1149.	ology 3	8.0	211
338	The Effect of P Enrichment on Exudate Quantity and Bioavailability - a Comparison of Two Ma Species. Wetlands, 2016, 36, 789-798.	crophyte c	).7	2
339	Variations in the patterns of soil organic carbon mineralization and microbial communities in response to exogenous application of rice straw and calcium carbonate. Science of the Total Environment, 2016, 571, 615-623.	3	8.9	32
340	A meta-analysis of the temporal dynamics of priming soil carbon decomposition by fresh carb across ecosystems. Soil Biology and Biochemistry, 2016, 101, 96-103.	on inputs 4	.2	96
341	Litter input decreased the response of soil organic matter decomposition to warming in two subtropical forest soils. Scientific Reports, 2016, 6, 33814.	1	6	21
342	Effects of soil type and composition of rhizodeposits on rhizosphere priming phenomena. So and Biochemistry, 2016, 103, 512-521.	il Biology 4	.2	35
344	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and inter in the land–atmosphere–ocean–society continuum in the northern Eurasian region. At Chemistry and Physics, 2016, 16, 14421-14461.	actions mospheric 1	.9	57
345	Dryland, calcareous soils store (and lose) significant quantities of nearâ€surface organic carb Journal of Geophysical Research F: Earth Surface, 2016, 121, 684-702.	on. 1	.0	15
346	Seasonality and partitioning of root allocation to rhizosphere soils in a midlatitude forest. Ecosphere, 2016, 7, e01547.	1	.0	33
347	Effects of compost, biochar and manure on carbon mineralization of biogas residues applied European Journal of Soil Science, 2016, 67, 217-225.	to soil. 1	8	9
348	Stabilization of new carbon inputs rather than old carbon decomposition determines soil org carbon shifts following woody or herbaceous vegetation transitions. Plant and Soil, 2016, 40	anic 9, 99-116. 1	.8	27
349	Maize rhizosphere priming: field estimates using 13C natural abundance. Plant and Soil, 2010	5, 409, 87-97. 1	8	78
350	Three-source partitioning of soil respiration by 13C natural abundance and its variation with s depth in a plantation. Journal of Forestry Research, 2016, 27, 533-540.	soil 1	.7	14
351	Rhizosphere priming effect on soil organic carbon decomposition under plant species differin acidification and root exudation. New Phytologist, 2016, 211, 864-873.	g in soil 3	.5	114
352	Arbuscular mycorrhizal hyphae promote priming of native soil organic matter mineralisation. and Soil, 2016, 408, 243-254.	Plant 1	.8	96
353	Toward more realistic projections of soil carbon dynamics by Earth system models. Global Biogeochemical Cycles, 2016, 30, 40-56.	1	.9	343

	Сітат	ION REPORT	
# 354	ARTICLE Microbial control of soil organic matter mineralization responses to labile carbon in subarctic climate change treatments. Global Change Biology, 2016, 22, 4150-4161.	IF 4.2	CITATIONS
355	Different effects of plant-derived dissolved organic matter (DOM) and urea on the priming of soil organic carbon. Environmental Sciences: Processes and Impacts, 2016, 18, 330-341.	1.7	17
356	Partitioning of carbon sources among functional pools to investigate short-term priming effects of biochar in soil: A 13C study. Science of the Total Environment, 2016, 547, 30-38.	3.9	28
357	Experimental assessment of a possible microbial priming effect in a humic boreal lake. Aquatic Sciences, 2016, 78, 191-202.	0.6	19
358	Carbon input and partitioning in subsoil by chicory and alfalfa. Plant and Soil, 2016, 406, 29-42.	1.8	23
359	Biocontrol of melon wilt caused by Fusarium oxysporum Schlect f. sp. melonis using seed treatment with Trichoderma spp. and liquid compost. Biological Control, 2016, 97, 13-20.	1.4	40
360	Barley genotype influences stabilization of rhizodeposition-derived CÂand soil organic matter mineralization. Soil Biology and Biochemistry, 2016, 95, 60-69.	4.2	63
361	Species-specific effects of temperate trees on greenhouse gas exchange of forest soil are diminished by drought. Soil Biology and Biochemistry, 2016, 95, 122-134.	4.2	13
362	Comparison of isotope methods for partitioning methane production and soil C priming effects during anaerobic decomposition of rice residue in soil. Soil Biology and Biochemistry, 2016, 95, 51-59.	4.2	14
363	Impact of chars and readily available carbon on soil microbial respiration and microbial community composition in a dynamic incubation experiment. Soil and Tillage Research, 2016, 164, 18-24.	2.6	35
364	Phospholipid 13 C stable isotopic probing during decomposition of wheat residues. Applied Soil Ecology, 2016, 98, 65-74.	2.1	34
365	Legume presence reduces the decomposition rate of non-legume roots. Soil Biology and Biochemistry, 2016, 94, 88-93.	4.2	22
366	Water for Carbon, Carbon for Water. Vadose Zone Journal, 2016, 15, 1-10.	1.3	33
367	Soil Moisture Alters the Response of Soil Organic Carbon Mineralization to Litter Addition. Ecosystems, 2016, 19, 450-460.	1.6	42
368	The relationship between soil bacteria substrate utilisation patterns and the vegetation structure in temperate forests. European Journal of Forest Research, 2016, 135, 179-189.	1.1	23
369	Comparison of soil carbon and nitrogen stocks at grazing-excluded and yak grazed alpine meadow sites in Qinghai–Tibetan Plateau, China. Ecological Engineering, 2016, 87, 203-211.	1.6	59
370	The effect of temporal variation in soil carbon inputs on interspecific plant competition. Journal of Plant Ecology, 2016, 9, 564-575.	1.2	3
371	Mediation of soil C decomposition by arbuscular mycorrizhal fungi in grass rhizospheres under elevated CO2. Biogeochemistry, 2016, 127, 45-55.	1.7	24

#	Article	IF	CITATIONS
372	Grain legume-based rotations managed under conventional tillage need cover crops to mitigate soil organic matter losses. Soil and Tillage Research, 2016, 156, 33-43.	2.6	61
373	Soil sustainability changes in organic crop rotations with diverse crop species and the share of legumes. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2016, 66, 36-51.	0.3	7
374	Soil CO2 efflux and net ecosystem exchange following biomass harvesting: Impacts of harvest intensity, residue retention and vegetation control. Forest Ecology and Management, 2016, 360, 181-194.	1.4	14
375	Lentic and lotic habitats as templets for fungal communities: traits, adaptations, and their significance to litter decomposition within freshwater ecosystems. Fungal Ecology, 2016, 19, 135-154.	0.7	57
376	Effect of pyrolysis temperatures on stability and priming effects of C3 and C4 biochars applied to two different soils. Soil and Tillage Research, 2016, 155, 107-115.	2.6	56
377	Contrasting temperature responses of dissolved organic carbon and phenols leached from soils. Plant and Soil, 2016, 399, 13-27.	1.8	16
378	Contrasting effects of aged and fresh biochars on glucose-induced priming and microbial activities in paddy soil. Journal of Soils and Sediments, 2016, 16, 191-203.	1.5	35
379	The Functioning of Rhizosphere Biota in Wetlands – a Review. Wetlands, 2017, 37, 615-633.	0.7	34
380	Dynamics of leaf litter and soil respiration in a complex multistrata agroforestry system, Pernambuco, Brazil. Environment, Development and Sustainability, 2017, 19, 1189-1203.	2.7	10
381	Temporal responses of soil biological characteristics to organic inputs and mineral fertilizers under wheat cultivation in inceptisol. Archives of Agronomy and Soil Science, 2017, 63, 35-47.	1.3	11
382	Nitrogen Dynamics in Two Created Riparian Wetlands over Space and Time. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	0.8	5
383	Environmental costs and benefits of growing <i>Miscanthus</i> for bioenergy in the <scp>UK</scp> . GCB Bioenergy, 2017, 9, 489-507.	2.5	183
384	An interyear comparison of <scp>CO</scp> <sub>2</sub> flux and carbon budget at a commercialâ€scale landâ€use transition from semiâ€improved grassland to <i>Miscanthus x giganteus</i> . GCB Bioenergy, 2017, 9, 229-245.	2.5	21
385	Partitioning of ecosystem respiration of <scp>CO</scp> <sub>2</sub> released during landâ€use transition from temperate agricultural grassland to <i>Miscanthus</i> × <i>giganteus</i> . GCB Bioenergy, 2017, 9, 710-724.	2.5	4
386	Innovative cropping systems to reduce N inputs and maintain wheat yields by inserting grain legumes and cover crops in southwestern France. European Journal of Agronomy, 2017, 82, 331-341.	1.9	98
387	"Non-metabolizable―glucose analogue shines new light on priming mechanisms: Triggering of microbial metabolism. Soil Biology and Biochemistry, 2017, 107, 68-76.	4.2	35
388	Namib Desert edaphic bacterial, fungal and archaeal communities assemble through deterministic processes but are influenced by different abiotic parameters. Extremophiles, 2017, 21, 381-392.	0.9	30
389	Soil aggregation regulates distributions of carbon, microbial community and enzyme activities after 23-year manure amendment. Applied Soil Ecology, 2017, 111, 65-72.	2.1	116

#	Article	IF	CITATIONS
390	Greenhouse gas emissions from intensively managed peat soils in an arable production system. Agriculture, Ecosystems and Environment, 2017, 237, 162-172.	2.5	30
391	Influence of 15N-labeled ammonium sulfate and straw on nitrogen retention and supply in different fertility soils. Biology and Fertility of Soils, 2017, 53, 303-313.	2.3	45
392	Fallow associated with autumn-plough favors structure stability and storage of soil organic carbon compared to continuous maize cropping in Mollisols. Plant and Soil, 2017, 416, 27-38.	1.8	16
393	Soil microorganisms can overcome respiration inhibition by coupling intra- and extracellular metabolism: 13C metabolic tracing reveals the mechanisms. ISME Journal, 2017, 11, 1423-1433.	4.4	43
394	Priming of soil organic matter: Chemical structure of added compounds is more important than the energy content. Soil Biology and Biochemistry, 2017, 108, 41-54.	4.2	88
395	Microbial decomposition of soil organic matter is mediated by quality and quantity of crop residues: mechanisms and thresholds. Biology and Fertility of Soils, 2017, 53, 287-301.	2.3	182
396	Short organic carbon turnover time and narrow <sup>14</sup> C age spectra in early Holocene wetland paleosols. Geochemistry, Geophysics, Geosystems, 2017, 18, 142-155.	1.0	9
397	Patterns of nitrogen and citric acid induced changes in C-turnover and enzyme activities are different in topsoil and subsoils of a sandy Cambisol. Geoderma, 2017, 292, 111-117.	2.3	27
398	Winter ecology of a subalpine grassland: Effects of snow removal on soil respiration, microbial structure and function. Science of the Total Environment, 2017, 590-591, 316-324.	3.9	54
399	Labile carbon and nitrogen additions affect soil organic matter decomposition more strongly than temperature. Applied Soil Ecology, 2017, 114, 152-160.	2.1	50
400	Does short-term litter input manipulation affect soil respiration and its carbon-isotopic signature in a coniferous forest ecosystem of central China?. Applied Soil Ecology, 2017, 113, 45-53.	2.1	33
401	Rhizosphere priming effect: A meta-analysis. Soil Biology and Biochemistry, 2017, 111, 78-84.	4.2	241
402	Tracing Aquatic Priming Effect During Microbial Decomposition of Terrestrial Dissolved Organic Carbon in Chemostat Experiments. Microbial Ecology, 2017, 74, 534-549.	1.4	18
403	The unseen rhizosphere root–soil–microbe interactions for crop production. Current Opinion in Microbiology, 2017, 37, 8-14.	2.3	250
404	Microbial energy and matter transformation in agricultural soils. Soil Biology and Biochemistry, 2017, 111, 176-192.	4.2	61
405	Effects of in-situ straw decomposition on composition of humus and structure of humic acid at different soil depths. Journal of Soils and Sediments, 2017, 17, 2391-2399.	1.5	48
406	Biopore history determines the microbial community composition in subsoil hotspots. Biology and Fertility of Soils, 2017, 53, 573-588.	2.3	46
407	Nitrogen availability alters rhizosphere processes mediating soil organic matter mineralisation. Plant and Soil, 2017, 417, 499-510.	1.8	41

#	Article	IF	CITATIONS
408	Plant litter chemistry alters the content and composition of organic carbon associated with soil mineral and aggregate fractions in invaded ecosystems. Global Change Biology, 2017, 23, 4002-4018.	4.2	77
409	Evaluation of soil health in organic <i>vs</i> . conventional farming of basmati rice in North India. Journal of Plant Nutrition and Soil Science, 2017, 180, 389-406.	1.1	67
410	Decoupling of soil carbon and nitrogen turnover partly explains increased net ecosystem production in response to nitrogen fertilization. Scientific Reports, 2017, 7, 46286.	1.6	23
411	Review and analysis of strengths and weaknesses of agro-ecosystem models for simulating C and N fluxes. Science of the Total Environment, 2017, 598, 445-470.	3.9	157
412	Influence of rice straw on priming of soil C for dissolved organic C and CH4 production. Plant and Soil, 2017, 417, 231-241.	1.8	36
413	Crop residue quality and soil type influence the priming effect but not the fate of crop residue C. Plant and Soil, 2017, 414, 229-245.	1.8	50
414	Modelling the dynamic physical protection of soil organic carbon: Insights into carbon predictions and explanation of the priming effect. Global Change Biology, 2017, 23, 5273-5283.	4.2	32
415	Green manure and long-term fertilization effects on soil zinc and cadmium availability and uptake by wheat (Triticum aestivum L.) at different growth stages. Science of the Total Environment, 2017, 599-600, 1330-1343.	3.9	40
416	Increased litter in subtropical forests boosts soil respiration in natural forests but not plantations of Castanopsis carlesii. Plant and Soil, 2017, 418, 141-151.	1.8	39
417	Relevance of substrate quality and nutrients for microbial C-turnover in top- and subsoil of a Dystric Cambisol. Geoderma, 2017, 302, 89-99.	2.3	55
418	Invasion effects of <i>Chromolaena odorata</i> on soil carbon and nitrogen fractions in a tropical savanna. Ecosphere, 2017, 8, e01831.	1.0	10
419	Critical comparison of the impact of biochar and wood ash on soil organic matter cycling and grassland productivity. Soil Biology and Biochemistry, 2017, 110, 134-142.	4.2	42
420	Greenhouse Gas Mitigation under Agriculture and Livestock Landuse. , 2017, , 343-394.		3
421	The Role of the Soil Microbial Biomass in Cycling Nutrients. , 2017, , 41-66.		27
422	Bacterial carbon use plasticity, phylogenetic diversity and the priming of soil organic matter. ISME Journal, 2017, 11, 1890-1899.	4.4	110
423	Bioaugmentaton in Technosols created in abandoned pyritic tailings can contribute to enhance soil C sequestration and plant colonization. Science of the Total Environment, 2017, 593-594, 357-367.	3.9	13
424	Effect of soil phosphorus availability and residue quality on phosphorus transfer from crop residues to the following wheat. Plant and Soil, 2017, 416, 361-375.	1.8	19
425	Root exudates increase N availability by stimulating microbial turnover of fast-cycling N pools. Soil Biology and Biochemistry, 2017, 106, 119-128.	4.2	222

#	ARTICLE	IF	CITATIONS
426	Northern peatland carbon dynamics driven by plant growth form — the role of graminoids. Plant and Soil, 2017, 415, 25-35.	1.8	22
427	Soil–root crossâ€ŧalking: The role of humic substances. Journal of Plant Nutrition and Soil Science, 2017, 180, 5-13.	1.1	87
428	Yeasts in Natural Ecosystems: Ecology. , 2017, , .		12
429	Spatial Heterogeneity of SOM Concentrations Associated with White-rot Versus Brown-rot Wood Decay. Scientific Reports, 2017, 7, 13758.	1.6	16
430	Differences in root-associated bacterial communities among fine root branching orders of poplar (Populus × euramericana (Dode) Guinier.). Plant and Soil, 2017, 421, 123-135.	1.8	17
431	Shrub-encroachment induced alterations in input chemistry and soil microbial community affect topsoil organic carbon in an Inner Mongolian grassland. Biogeochemistry, 2017, 136, 311-324.	1.7	23
432	Microbial community-level regulation explains soil carbon responses to long-term litter manipulations. Nature Communications, 2017, 8, 1223.	5.8	99
433	Temporal and Geographic Patterns in Yeast Distribution. , 2017, , 101-130.		14
434	Increasing Rates of Biochar Application to Soil Induce Stronger Negative Priming Effect on Soil Organic Carbon Decomposition. Agricultural Research, 2017, 6, 389-398.	0.9	21
435	Wheat and white lupin differ in rhizosphere priming of soil organic carbon under elevated CO2. Plant and Soil, 2017, 421, 43-55.	1.8	17
436	Labile carbon â€~primes' fungal use of nitrogen from submerged leaf litter. FEMS Microbiology Ecology, 2017, 93, .	1.3	27
437	Arthropods in the subsoil: Abundance and vertical distribution as related to soil organic matter, microbial biomass and plant roots. European Journal of Soil Biology, 2017, 82, 88-97.	1.4	49
438	The Ecology of Soil Carbon: Pools, Vulnerabilities, and Biotic and Abiotic Controls. Annual Review of Ecology, Evolution, and Systematics, 2017, 48, 419-445.	3.8	584
439	Rhizosphere priming effects of soybean and cottonwood: do they vary with latitude?. Plant and Soil, 2017, 420, 349-360.	1.8	5
440	A parsimonious modular approach to building a mechanistic belowground carbon and nitrogen model. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2418-2434.	1.3	36
441	Investigating the uptake and acquisition of potentially toxic elements in plants and health risks associated with the addition of fresh biowaste amendments to industrially contaminated soil. Land Degradation and Development, 2017, 28, 2596-2607.	1.8	30
442	Biochar improves phosphorus use efficiency of organic-inorganic fertilizers, maize-wheat productivity and soil quality in a low fertility alkaline soil. Field Crops Research, 2017, 214, 25-37.	2.3	153
443	Feedbacks between plant N demand and rhizosphere priming depend on type of mycorrhizal association. Ecology Letters, 2017, 20, 1043-1053.	3.0	114

#	ARTICLE High light intensity mediates a shift from allochthonous to autochthonous carbon use in	IF 1.3	Citations
445	Relative role of transport and source-limited controls for estrogen, TDP, and DOC export for two manure application methods. Agriculture, Ecosystems and Environment, 2017, 247, 308-318.	2.5	11
446	Rolling in the deep: Priming effects in earthworm biopores in topsoil and subsoil. Soil Biology and Biochemistry, 2017, 114, 59-71.	4.2	48
447	Long-term litter manipulation alters soil organic matter turnover in a temperate deciduous forest. Science of the Total Environment, 2017, 607-608, 865-875.	3.9	42
448	Redistribution of Different Organic Carbon Fractions in the Soil Profile of a Typical Chinese Mollisol with Land-Use Change. Communications in Soil Science and Plant Analysis, 2017, 48, 2369-2380.	0.6	7
449	Carbon Fluxes in Mycorrhizal Plants. , 2017, , 1-21.		8
450	Impact of woody debris of different tree species on the microbial activity and community of an underlying organic horizon. Soil Biology and Biochemistry, 2017, 115, 516-525.	4.2	25
451	Short-term modifications of soil microbial community structure and soluble organic matter chemical composition following amendment with different solid olive mill waste and their derived composts. Applied Soil Ecology, 2017, 119, 234-241.	2.1	27
452	Nitrous oxide emission after the addition of organic residues on soil surface. Agriculture, Ecosystems and Environment, 2017, 246, 234-242.	2.5	25
453	Effects of grazing regime on vegetation structure, productivity, soil quality, carbon and nitrogen storage of alpine meadow on the Qinghai-Tibetan Plateau. Ecological Engineering, 2017, 98, 123-133.	1.6	103
454	Comparing microbial carbon sequestration and priming in the subsoil versus topsoil of a Qinghai-Tibetan alpine grassland. Soil Biology and Biochemistry, 2017, 104, 141-151.	4.2	72
455	An invasive wetland grass primes deep soil carbon pools. Global Change Biology, 2017, 23, 2104-2116.	4.2	66
456	Dinner in the dark: Illuminating drivers of soil organic matter decomposition. Soil Biology and Biochemistry, 2017, 105, 45-48.	4.2	76
457	Reforestation makes a minor contribution to soil carbon accumulation in the short term: Evidence from four subtropical plantations. Forest Ecology and Management, 2017, 384, 400-405.	1.4	36
458	Microbial nitrogen mining affects spatio-temporal patterns of substrate-induced respiration during seven years of bare fallow. Soil Biology and Biochemistry, 2017, 104, 175-184.	4.2	34
459	Interactions between biochar and litter priming: A three-source 14C and δ13C partitioning study. Soil Biology and Biochemistry, 2017, 104, 49-58.	4.2	38
460	Modelling the influence of ectomycorrhizal decomposition on plant nutrition and soil carbon sequestration in boreal forest ecosystems. New Phytologist, 2017, 213, 1452-1465.	3.5	71
461	Xeropreservation of functionalized lipid biomarkers in hyperarid soils in the Atacama Desert. Organic Geochemistry, 2017, 103, 97-104.	0.9	44

#	Article	IF	CITATIONS
462	Carbon Inputs from Miscanthus Displace Older Soil Organic Carbon Without Inducing Priming. Bioenergy Research, 2017, 10, 86-101.	2.2	10
463	The macromolecular organic composition of plant and microbial residues as inputs to soil organic matter: Fourteen years on. Soil Biology and Biochemistry, 2017, 105, A3-A8.	4.2	175
464	Enhanced decomposition and nitrogen mineralization sustain rapid growth of Eucalyptus regnans after wildfire. Journal of Ecology, 2017, 105, 229-236.	1.9	16
465	Linking Above- and Belowground Responses to 16 Years of Fertilization, Mowing, and Removal of the Dominant Species in a Temperate Grassland. Ecosystems, 2017, 20, 354-367.	1.6	42
466	Fate of 13 C labelled root and shoot residues in soil and anecic earthworm casts: A mesocosm experiment. Geoderma, 2017, 285, 9-18.	2.3	19
467	Wetting-drying cycles do not increase organic carbon and nitrogen mineralization in soils with straw amendment. Geoderma, 2017, 304, 68-75.	2.3	40
468	Rhizodeposition flux of competitive versus conservative graminoid: contribution of exudates and root lysates as affected by N loading. Plant and Soil, 2017, 412, 331-344.	1.8	17
469	Soil pores and their contributions to soil carbon processes. Geoderma, 2017, 287, 31-39.	2.3	119
470	The solubility of carbon inputs affects the priming of soil organic matter. Plant and Soil, 2017, 410, 129-138.	1.8	27
471	Warming of subarctic tundra increases emissions of all three important greenhouse gases – carbon dioxide, methane, and nitrous oxide. Global Change Biology, 2017, 23, 3121-3138.	4.2	187
472	Enhanced Plant Rooting and Crop System Management for Improved N Use Efficiency. Advances in Agronomy, 2017, , 205-239.	2.4	56
473	Autotrophic and heterotrophic components of soil respiration caused by rhizosphere priming effects in a plantation. Plant, Soil and Environment, 2017, 63, 295-299.	1.0	7
474	The Role of Respiration in Estimation of Net Carbon Cycle: Coupling Soil Carbon Dynamics and Canopy Turnover in a Novel Version of 3D-CMCC Forest Ecosystem Model. Forests, 2017, 8, 220.	0.9	18
475	Pyrogenic Carbon Lacks Long-Term Persistence in Temperate Arable Soils. Frontiers in Earth Science, 2017, 5, .	0.8	27
476	Molecular Determinants of Dissolved Organic Matter Reactivity in Lake Water. Frontiers in Earth Science, 2017, 5, .	0.8	58
477	Microbial Metabolism in Soil at Subzero Temperatures: Adaptation Mechanisms Revealed by Position-Specific 13C Labeling. Frontiers in Microbiology, 2017, 8, 946.	1.5	29
478	Soil CO <sub>2</sub> efflux from two mountain forests in the eastern Himalayas, Bhutan: components and controls. Biogeosciences, 2017, 14, 99-110.	1.3	14
479	Rhizosphere hydrophobicity: A positive trait in the competition for water. PLoS ONE, 2017, 12, e0182188.	1.1	19

#	Article	IF	CITATIONS
480	Feed in summer, rest in winter: microbial carbon utilization in forest topsoil. Microbiome, 2017, 5, 122.	4.9	121
481	Comparison of litter-bag and chamber methods for measuring CO <sub>2</sub> emissions from leaf litter decomposition in a temperate forest. J Agricultural Meteorology, 2017, 73, 59-67.	0.8	15
482	CHEMICAL AND MICROBIOLOGICAL ATTRIBUTES UNDER DIFFERENT SOIL COVER. Cerne, 2017, 23, 19-30.	0.9	16
483	Soil Organic Matter Priming. , 2017, , .		0
484	Tracking the fate of fresh carbon in the Arctic tundra: Will shrub expansion alter responses of soil organic matter to warming?. Soil Biology and Biochemistry, 2018, 120, 134-144.	4.2	40
485	Rhizosphere priming effects on soil carbon and nitrogen dynamics among tree species with and without intraspecific competition. New Phytologist, 2018, 218, 1036-1048.	3.5	81
486	Phenolic root exudate and tissue compounds vary widely among temperate forest tree species and have contrasting effects on soil microbial respiration. New Phytologist, 2018, 218, 530-541.	3.5	70
487	Increasing N deposition impacts neither diversity nor functions of deadwoodâ€inhabiting fungal communities, but adaptation and functional redundancy ensure ecosystem function. Environmental Microbiology, 2018, 20, 1693-1710.	1.8	26
488	Carbon and nutrient dynamics under long-term nutrient management in tropical rice-wheat-jute system. Archives of Agronomy and Soil Science, 2018, 64, 1595-1607.	1.3	8
489	Nitrogen management in crop rotations after the break-up of grassland: Insights from modelling. Agriculture, Ecosystems and Environment, 2018, 259, 28-44.	2.5	15
490	Structural evidence for soil organic matter turnover following glucose addition and microbial controls over soil carbon change at different horizons of a Mollisol. Soil Biology and Biochemistry, 2018, 119, 63-73.	4.2	19
491	Dry-wet cycles of kettle hole sediments leave a microbial and biogeochemical legacy. Science of the Total Environment, 2018, 627, 985-996.	3.9	20
492	Degradability of raw and post-processed chars in a two-year field experiment. Science of the Total Environment, 2018, 628-629, 1600-1608.	3.9	8
493	The impacts of four potential bioenergy crops on soil carbon dynamics as shown by biomarker analyses and <scp>DRIFT</scp> spectroscopy. GCB Bioenergy, 2018, 10, 489-500.	2.5	26
494	Species effects and seasonal trends on plant efflux quantity and quality in a spruce swamp forest. Plant and Soil, 2018, 426, 179-196.	1.8	21
495	Vascular plantâ€mediated controls on atmospheric carbon assimilation and peat carbon decomposition under climate change. Global Change Biology, 2018, 24, 3911-3921.	4.2	48
496	Distinct responses of soil respiration to experimental litter manipulation in temperate woodland and tropical forest. Ecology and Evolution, 2018, 8, 3787-3796.	0.8	23
497	Soil microbial biomass size and soil carbon influence the priming effect from carbon inputs depending on nitrogen availability. Soil Biology and Biochemistry, 2018, 119, 41-49.	4.2	124

CITATION REPORT ARTICLE IF CITATIONS Nitrogen and phosphorus supply controls soil organic carbon mineralization in tropical topsoil and 4.2 98 subsoil. Soil Biology and Biochemistry, 2018, 119, 152-161. Temporal Dynamism of Resource Capture: A Missing Factor in Ecology?. Trends in Ecology and 4.2 Evolution, 2018, 33, 277-286. Changes in physicochemical characteristics of a serpentine soil and in root architecture of a 1.5 16 hyperaccumulating plant cropped with a legume. Journal of Soils and Sediments, 2018, 18, 1994-2007. Digging deeper: A holistic perspective of factors affecting soil organic carbon sequestration in agroecosystems. Global Change Biology, 2018, 24, 3285-3301. Diversity, Functions, and Stress Responses of Soil Microorganisms. Microorganisms for 0.4 4 Sustainability, 2018, , 1-19. Influences of organic carbon speciation on hyporheic corridor biogeochemistry and microbial ecology. Nature Communications, 2018, 9, 585. 5.8 Estimation of Throughfall and Stemflow Bacterial Flux in a Subtropical Oakâ€Cedar Forest. Geophysical 1.5 38 Research Letters, 2018, 45, 1410-1418. Effects of Carbon Inputs on Chemical and Microbial Properties of Soil in Irrigated and Rainfed Olive Bacterial rather than fungal community composition is associated with microbial activities and nutrient-use efficiencies in a paddy soil with short-term organic amendments. Plant and Soil, 2018, 424, 1.8 88 335-349. Exudation ratesÂand Î'13C signatures of tree root soluble organic carbon in a riparian forest. 1.7 14 Biogeochemistry, 2018, 137, 235-252. Characterization of dissolved organic nitrogen in leachate from a newly established and fertilized 5.327 turfgrass. Water Research, 2018, 131, 52-61. Clearcutting alters decomposition processes and initiates complex restructuring of fungal 4.4 100 communities in soil and tree roots. ISME Journal, 2018, 12, 692-703. Soil Processes and Wheat Cropping Under Emerging Climate Change Scenarios in South Asia. Advances 2.4 33 in Agronomy, 2018, 148, 111-171. Temperature response of plant residue and soil organic matter decomposition in soil from different 1.8 depths. European Journal of Soil Science, 2018, 69, 325-335. Plant and soil responses to hydrothermally converted sewage sludge (sewchar). Chemosphere, 2018, 4.2 55 206, 338-348. Co-application of biochar and cattle manure counteract positive priming of carbon mineralization in a 28 sandy soil. Environmental Systems Research, 2018, 7, . The efficiency of long-term straw return to sequester organic carbon in Northeast China's cropland. 1.7 51 Journal of Integrative Agriculture, 2018, 17, 436-448.

515Priming effects induced by glucose and decaying plant residues on SOM decomposition: A three-source<br/>13C/14C partitioning study. Soil Biology and Biochemistry, 2018, 121, 138-146.4.255

#

498

500

501

502

504

506

508

509

510

512

#	Article	IF	CITATIONS
516	Easily degradable carbon – an indicator of microbial hotspots and soil degradation. International Agrophysics, 2018, 32, 123-131.	0.7	11
517	The root of the matter: Linking root traits and soil organic matter stabilization processes. Soil Biology and Biochemistry, 2018, 120, 246-259.	4.2	219
518	Impacts of oxalic acid and glucose additions on N transformation in microcosms via artificial roots. Soil Biology and Biochemistry, 2018, 121, 16-23.	4.2	33
519	Are the microbial communities involved in glucose assimilation in paddy soils treated with different fertilization regimes for three years similar?. Journal of Soils and Sediments, 2018, 18, 2476-2490.	1.5	15
520	Does repeated biochar incorporation induce further soil priming effect?. Journal of Soils and Sediments, 2018, 18, 128-135.	1.5	16
521	A comparison study of the potential risks induced in arable land and forest soils by carcass-derived pollutants. Environmental Geochemistry and Health, 2018, 40, 451-460.	1.8	2
522	Draining the Pool? Carbon Storage and Fluxes in Three Alpine Plant Communities. Ecosystems, 2018, 21, 316-330.	1.6	43
523	Legacy effects of diversity in space and time driven by winter cover crop biomass and nitrogen concentration. Journal of Applied Ecology, 2018, 55, 299-310.	1.9	40
524	Carbon sequestration in wetlands, from science to practice: An overview of the biogeochemical process, measurement methods, and policy framework. Ecological Engineering, 2018, 114, 115-128.	1.6	111
525	Soil bacterial community mediates the effect of plant material on methanogenic decomposition of soil organic matter. Soil Biology and Biochemistry, 2018, 116, 99-109.	4.2	37
526	Root-soil physical and biotic interactions with a focus on tree root systems: A review. Applied Soil Ecology, 2018, 123, 318-327.	2.1	29
527	Synergistic effects of anaerobic co-digestion of whey, manure and fish ensilage. Bioresource Technology, 2018, 249, 35-41.	4.8	86
528	Impact of agricultural management practices on the nutrient supply potential of soil organic matter under long-term farming systems. Soil and Tillage Research, 2018, 175, 71-81.	2.6	80
529	Effects of soil macro- and mesofauna on litter decomposition and soil organic matter stabilization. Geoderma, 2018, 332, 161-172.	2.3	243
530	Response of peat decomposition to corn straw addition in managed organic soils. Geoderma, 2018, 309, 75-83.	2.3	15
531	Warming induced changes in soil carbon and nitrogen influence priming responses in four ecosystems. Applied Soil Ecology, 2018, 124, 110-116.	2.1	24
532	Effects of biotic and abiotic factors on soil organic matter mineralization: Experiments and structural modeling analysis. European Journal of Soil Biology, 2018, 84, 27-34.	1.4	72
533	Screen for sustainable cropping systems in the rain-fed area on the Loess Plateau of China. Soil and Tillage Research, 2018, 176, 26-35.	2.6	11

#	Article	IF	CITATIONS
534	Juncus effusus mono-stands in restored cutover peat bogs – Analysis of litter quality, controls of anaerobic decomposition, and the risk of secondary carbon loss. Soil Biology and Biochemistry, 2018, 117, 139-152.	4.2	20
535	Tree leaf and root traits mediate soil faunal contribution to litter decomposition across an elevational gradient. Functional Ecology, 2018, 32, 840-852.	1.7	47
536	Estimates of rhizosphere priming effects are affected by soil disturbance. Geoderma, 2018, 313, 1-6.	2.3	10
537	Rice rhizodeposits affect organic matter priming in paddy soil: The role of N fertilization and plant growth for enzyme activities, CO 2 and CH 4 emissions. Soil Biology and Biochemistry, 2018, 116, 369-377.	4.2	121
538	Soil microorganisms exhibit enzymatic and priming response to root mucilage under drought. Soil Biology and Biochemistry, 2018, 116, 410-418.	4.2	35
539	Effects of soil nitrogen availability on rhizodeposition in plants: a review. Plant and Soil, 2018, 423, 59-85.	1.8	45
540	Biotic and abiotic modifications of leaf litter during dry periods affect litter mass loss and nitrogen loss during wet periods. Functional Ecology, 2018, 32, 831-839.	1.7	15
541	The added value of including key microbial traits to determine nitrogenâ€related ecosystem services in managed grasslands. Journal of Applied Ecology, 2018, 55, 49-58.	1.9	47
542	Land use in mountain grasslands alters drought response and recovery of carbon allocation and plantâ€microbial interactions. Journal of Ecology, 2018, 106, 1230-1243.	1.9	90
543	Changes in the stocks of C and N in organic matter fractions in soil cropped with coffee and fertilized with sunn hemp and ammonium sulfate. Semina:Ciencias Agrarias, 2018, 39, 999.	0.1	1
544	Changes in chemical properties of soil in an organic agriculture system. IOP Conference Series: Earth and Environmental Science, 2018, 215, 012016.	0.2	1
545	Site conditions are more important than abundance for explaining plant invasion impacts on soil nitrogen cycling. Ecosphere, 2018, 9, e02454.	1.0	5
546	Microbiota: The Living Foundation. , 2018, , 43-61.		4
547	Litter Inhibitory Effects on Soil Microbial Biomass, Activity, and Catabolic Diversity in Two Paired Stands of Robinia pseudoacacia L. and Pinus nigra Arn Forests, 2018, 9, 766.	0.9	11
548	Effect of long-term continuous cropping of strawberry on soil bacterial community structure and diversity. Journal of Integrative Agriculture, 2018, 17, 2570-2582.	1.7	70
549	Effects of long-term green manure application on the content and structure of dissolved organic matter in red paddy soil. Journal of Integrative Agriculture, 2018, 17, 1852-1860.	1.7	42
550	Plant Carbon Components Derived From Maize Straw Influence Priming Processes in Two Mollisols. Soil Science, 2018, 183, 66-73.	0.9	3
551	Root Exudates Induce Soil Macroaggregation Facilitated by Fungi in Subsoil. Frontiers in Environmental Science, 2018, 6, .	1.5	128

#	Article	IF	CITATIONS
552	Specific recruitment of soil bacteria and fungi decomposers following a biostimulant application increased crop residues mineralization. PLoS ONE, 2018, 13, e0209089.	1.1	33
553	Impacts of Early―and Lateâ€Terminated Cover Crops on Gas Fluxes. Journal of Environmental Quality, 2018, 47, 1426-1435.	1.0	9
554	Temporal dynamics and compartment specific rice straw degradation in bulk soil and the rhizosphere of maize. Soil Biology and Biochemistry, 2018, 127, 200-212.	4.2	34
555	Simulated leaf litter addition causes opposite priming effects on natural forest and plantation soils. Biology and Fertility of Soils, 2018, 54, 925-934.	2.3	36
556	Organic amendment effectively recovers soil functionality in degraded vineyards. European Journal of Agronomy, 2018, 101, 210-221.	1.9	20
557	Suitability of Different Agricultural and Urban Organic Wastes as Feedstocks for the Production of Biochar—Part 1: Physicochemical Characterisation. Sustainability, 2018, 10, 2265.	1.6	17
558	Priming of leaf litter decomposition by algae seems of minor importance in natural streams during autumn. PLoS ONE, 2018, 13, e0200180.	1.1	21
559	Distinct effects of N and P addition on soil enzyme activities and C distribution in aggregates in a subalpine spruce plantation. Biogeochemistry, 2018, 141, 199-212.	1.7	8
560	Soil Microbial Community Structure and Diversity in Cut Flower Cultures Under Conventional and Ecological Management. Revista Brasileira De Ciencia Do Solo, 2018, 42, .	0.5	5
561	Increased soil respiration in response to experimentally reduced snow cover and increased soil freezing in a temperate deciduous forest. Biogeochemistry, 2018, 140, 359-371.	1.7	17
562	Deep Unsaturated Zone Contributions to Carbon Cycling in Semiarid Environments. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 3045-3054.	1.3	15
563	Efficacy of mitigation measures for reducing greenhouse gas emissions from intensively cultivated peatlands. Soil Biology and Biochemistry, 2018, 127, 10-21.	4.2	25
564	Plant roots alter microbial functional genes supporting root litter decomposition. Soil Biology and Biochemistry, 2018, 127, 90-99.	4.2	35
565	Interactive priming effect of labile carbon and crop residues on SOM depends on residue decomposition stage: Three-source partitioning to evaluate mechanisms. Soil Biology and Biochemistry, 2018, 126, 179-190.	4.2	38
566	An Assessment of Dissolved Organic Carbon Biodegradability and Priming in Blackwater Systems. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2998-3015.	1.3	31
567	High N fertilizer application to irrigated wheat in Northern Mexico for conventionally tilled and permanent raised beds: Effects on N balance and short term N dynamics. Journal of Plant Nutrition and Soil Science, 2018, 181, 606-620.	1.1	7
568	Deforested and drained tropical peatland sites show poorer peat substrate quality and lower microbial biomass and activity than unmanaged swamp forest. Soil Biology and Biochemistry, 2018, 123, 229-241.	4.2	43
569	Coupled UV-exposure and microbial decomposition improves measures of organic matter degradation and light models in humic lake. Ecological Engineering, 2018, 118, 191-200.	1.6	19

#	Article	IF	CITATIONS
570	Autotrophic and heterotrophic soil respiration responds asymmetrically to drought in a subtropical forest in the Southeast China. Soil Biology and Biochemistry, 2018, 123, 242-249.	4.2	51
571	Biochar influences growth performance and heavy metal accumulation in spinach under wastewater irrigation. Cogent Food and Agriculture, 2018, 4, 1467253.	0.6	16
572	Soil Carbon Stock. , 2018, , 39-136.		7
573	N2O and CO2 emissions following repeated application of organic and mineral N fertiliser from a vegetable crop rotation. Science of the Total Environment, 2018, 637-638, 813-824.	3.9	44
574	The detrital input and removal treatment (DIRT) network: Insights into soil carbon stabilization. Science of the Total Environment, 2018, 640-641, 1112-1120.	3.9	97
575	Plant Communities as Modulators of Soil Carbon Storage. , 2018, , 29-71.		1
576	Soil zymography as a powerful tool for exploring hotspots and substrate limitation in undisturbed subsoil. Soil Biology and Biochemistry, 2018, 124, 210-217.	4.2	37
577	Microbial responses to inorganic nutrient amendment overridden by warming: Consequences on soil carbon stability. Environmental Microbiology, 2018, 20, 2509-2522.	1.8	12
578	Characterizing blue carbon stocks in <i>Thalassia testudinum</i> meadows subjected to different phosphorus supplies: A lignin biomarker approach. Limnology and Oceanography, 2018, 63, 2630-2646.	1.6	19
579	Nitrogen Additions Promote Decomposition of Soil Organic Carbon in a Tibetan Alpine Meadow. Soil Science Society of America Journal, 2018, 82, 614-621.	1.2	12
580	Microbial Taxa and Soil Organic Carbon Accumulation Driven by Tree Roots. Forests, 2018, 9, 333.	0.9	10
581	Microbial carbon use efficiency and priming effect regulate soil carbon storage under nitrogen deposition by slowing soil organic matter decomposition. Geoderma, 2018, 332, 37-44.	2.3	99
582	Formation of the Azodication (ABTS2+) from ABTS [2,2′-Azinobis-(3-ethylbenzothiazoline-6-sulphonate)] in Sterile Plant Cultures: Root–Exuded Oxidoreductases Contribute to Rhizosphere Priming. Soil Systems, 2018, 2, 26.	1.0	5
583	Root litter decomposition slows with soil depth. Soil Biology and Biochemistry, 2018, 125, 103-114.	4.2	110
584	The Effect of Biofertilizer Combined with Organic or Inorganic Fertilizer on Growth of <i>Caesalpinia pulcherrima</i> and Bacterial Population in Soil. IOP Conference Series: Earth and Environmental Science, 2018, 166, 012024.	0.2	6
585	Dynamics of labile and stable carbon and priming effects during composting of sludge and lop mixtures amended with low and high amounts of biochar. Waste Management, 2018, 78, 880-893.	3.7	9
586	Priming mechanisms with additions of pyrogenic organic matter to soil. Geochimica Et Cosmochimica Acta, 2018, 238, 329-342.	1.6	42
587	Local root status: a neglected bio-factor that regulates the home-field advantage of leaf litter decomposition. Plant and Soil, 2018, 431, 175-189.	1.8	14

#	Article	IF	CITATIONS
588	Crop rotation associating a legume and the nickel hyperaccumulator <i>Alyssum murale</i> improves the structure and biofunctioning of an ultramafic soil. Ecological Research, 2018, 33, 799-810.	0.7	17
589	Shifts in priming partly explain impacts of longâ€term nitrogen input in different chemical forms on soil organic carbon storage. Global Change Biology, 2018, 24, 4160-4172.	4.2	24
590	Paddy soil drainage influences residue carbon contribution to methane emissions. Journal of Environmental Management, 2018, 225, 168-176.	3.8	9
591	Fertilizer regime changes the competitive uptake of organic nitrogen by wheat and soil microorganisms: An in-situ uptake test using 13C, 15N labelling, and 13C-PLFA analysis. Soil Biology and Biochemistry, 2018, 125, 319-327.	4.2	56
592	Shifts in soil organic carbon dynamics under detritus input manipulations in a coniferous forest ecosystem in subtropical China. Soil Biology and Biochemistry, 2018, 126, 1-10.	4.2	27
593	Soil micro-food web interactions and rhizosphere priming effect. Plant and Soil, 2018, 432, 129-142.	1.8	16
594	Interactive effects on organic matter processing from soils to the ocean: are priming effects relevant in aquatic ecosystems?. Hydrobiologia, 2018, 822, 1-17.	1.0	86
595	Emergent Properties of Microbial Activity in Heterogeneous Soil Microenvironments: Different Research Approaches Are Slowly Converging, Yet Major Challenges Remain. Frontiers in Microbiology, 2018, 9, 1929.	1.5	168
596	Effects of litter manipulation on soil respiration under short-term nitrogen addition in a subtropical evergreen forest. Forest Ecology and Management, 2018, 429, 77-83.	1.4	16
597	The effects of forest restoration on ecosystem carbon in western North America: A systematic review. Forest Ecology and Management, 2018, 429, 625-641.	1.4	23
598	Microbial processing of plant residues in the subsoil – The role of biopores. Soil Biology and Biochemistry, 2018, 125, 309-318.	4.2	29
599	More replenishment than priming loss of soil organic carbon with additional carbon input. Nature Communications, 2018, 9, 3175.	5.8	69
600	Biological processes dominate phosphorus dynamics under low phosphorus availability in organic horizons of temperate forest soils. Soil Biology and Biochemistry, 2018, 126, 64-75.	4.2	52
601	Contrasting effects of organic and mineral nitrogen challenge the N-Mining Hypothesis for soil organic matter priming. Soil Biology and Biochemistry, 2018, 124, 38-46.	4.2	68
602	Minerals in the rhizosphere: overlooked mediators of soil nitrogen availability to plants and microbes. Biogeochemistry, 2018, 139, 103-122.	1.7	203
603	Microbial Modulators and Mechanisms of Soil Carbon Storage. , 2018, , 73-115.		10
604	Impact of Global Changes on Soil C Storage—Possible Mechanisms and Modeling Approaches. , 2018, , 245-279.		1
605	SOM and Microbes—What Is Left From Microbial Life. , 2018, , 125-163.		18

	CITATION REP	ORT	
Article		IF	CITATIONS
Microbial Control of Soil Carbon Turnover. , 2018, , 165-194.			7
Soil Erosion and C Losses: Strategies for Building Soil Carbon. , 2018, , 215-238.			8
Root penetration in deep soil layers stimulates mineralization of millennia-old organic o Biology and Biochemistry, 2018, 124, 150-160.	carbon. Soil	4.2	72
Crop residue-derived dissolved organic matter accelerates the decomposition of native carbon in a temperate agricultural ecosystem. Acta Ecologica Sinica, 2019, 39, 69-76.	e soil organic	0.9	6
Carbon dynamics in surface and deep soil in response to increasing litter addition rates agro-ecosystem. Geoderma, 2019, 333, 1-9.	s in an	2.3	42
Priming of soil organic carbon decomposition induced by exogenous organic carbon in meta-analysis. Plant and Soil, 2019, 443, 463-471.	iput: a	1.8	54
Impacts of thinning on soil carbon and nutrients and related extracellular enzymes in a plantation. Forest Ecology and Management, 2019, 450, 117523.	ı larch	1.4	34
Biochar application on paddy and purple soils in southern China: soil carbon and biotic Society Open Science, 2019, 6, 181499.	activity. Royal	1.1	21
Effects of yak and Tibetan sheep trampling on soil properties in the northeastern Qing Plateau. Applied Soil Ecology, 2019, 144, 147-154.	hai-Tibetan	2.1	37
Litter quality and site characteristics interact to affect the response of priming effect t in subtropical forests. Functional Ecology, 2019, 33, 2226-2238.	o temperature	1.7	40
Soil respiration and organic matter decomposition dynamics respond to legacy fertilize control treatments in loblolly pine stands. Soil Biology and Biochemistry, 2019, 137, 1	er and weed 07548.	4.2	6
Global ecological predictors of the soil priming effect. Nature Communications, 2019,	10, 3481.	5.8	148
Soil Microbial Biomass Size and Nitrogen Availability Regulate the Incorporation of Res into Dissolved Organic Pool and Microbial Biomass. Soil Science Society of America Jou 1083-1092.	idue Carbon urnal, 2019, 83,	1.2	9
Role of Microorganisms in Soil Genesis and Functions. , 2019, , 25-52.			11
Enhanced activity of soil nutrientâ€releasing enzymes after plant invasion: a metaâ€ar 100, e02830.	1alysis. Ecology, 2019,	1.5	89
Newly depolymerized large organic N contributes directly to amino acid uptake in your New Phytologist, 2019, 224, 689-699.	ng maize plants.	3.5	22
Composition of soil organic matter drives total loss of dieldrin and dichlorodiphenyltrichloroethane in high-value pastures over thirty years. Science of the Environment, 2019, 691, 135-145.	2 Total	3.9	11

624	Soil organic matter characteristics in drained and rewetted peatlands of northern Germany: Chemical and spectroscopic analyses. Geoderma, 2019, 353, 468-481.	2.3	19
-----	---	-----	----

#

#	Article	IF	CITATIONS
625	Evaluation of carbon content and humification index of soils under the application of by-products from sugarcane processing. Microchemical Journal, 2019, 149, 104041.	2.3	6
626	Fungal Decomposers in Freshwater Environments. Advances in Environmental Microbiology, 2019, , 121-155.	0.1	28
627	Fungal diversity and its functions in tropical peatlands as plant growth promoting microorganism or associated with green house emission. IOP Conference Series: Earth and Environmental Science, 2019, 308, 012073.	0.2	0
628	Driving forces linking microbial community structure and functions to enhanced carbon stability in biochar-amended soil. Environment International, 2019, 133, 105211.	4.8	49
629	Regulation of priming effect by soil organic matter stability over a broad geographic scale. Nature Communications, 2019, 10, 5112.	5.8	187
630	Modeling Organic Carbon Accumulation Rates and Residence Times in Coastal Vegetated Ecosystems. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3652-3671.	1.3	13
631	Mycorrhizal Fungi as Mediators of Soil Organic Matter Dynamics. Annual Review of Ecology, Evolution, and Systematics, 2019, 50, 237-259.	3.8	233
632	Dissolved Organic Carbon Turnover in Permafrost-Influenced Watersheds of Interior Alaska: Molecular Insights and the Priming Effect. Frontiers in Earth Science, 2019, 7, .	0.8	46
633	Decomposition of beech leaves and roots in the topsoil and subsoil of a sandy Cambisol: Results of a one-year incubation. European Journal of Soil Biology, 2019, 95, 103136.	1.4	2
634	15N Tracing of Microbial Assimilation, Partitioning and Transport of Fertilisers in Grassland Soils. Springer Theses, 2019, , .	0.0	1
635	Carbon and nutrient fluxes from seagrass and mangrove wrack are mediated by soil interactions. Estuarine, Coastal and Shelf Science, 2019, 229, 106409.	0.9	4
636	Increased Nitrogen Availability in the Soil Under Mature Picea abies Trees Exposed to Elevated CO2 Concentrations. Frontiers in Forests and Global Change, 2019, 2, .	1.0	14
637	Priming effect of Miscanthus sinensis derived biochar on brown forest soil. Soil Science and Plant Nutrition, 2019, 65, 550-556.	0.8	3
638	Preferential Alternatives to Returning All Crop Residues as Biochar to the Crop Field? A Three-Source <sup>13</sup> C and <sup>14</sup> C Partitioning Study. Journal of Agricultural and Food Chemistry, 2019, 67, 11322-11330.	2.4	7
639	Substrate characteristic bacterial fatty acid production based on amino acid assimilation and transformation in marine sediments. FEMS Microbiology Ecology, 2019, 95, .	1.3	11
640	An Efficient FPGA Parallel Implementation for 2-D MUSIC Algorithm. IOP Conference Series: Earth and Environmental Science, 2019, 252, 032168.	0.2	0
641	Building houses and managing lawns could limit yard soil carbon for centuries. Carbon Balance and Management, 2019, 14, 9.	1.4	11
642	Contrasting policy shifts influence the pattern of vegetation production and C sequestration over pasture systems: A regional-scale comparison in Temperate Eurasian Steppe. Agricultural Systems, 2019, 176, 102679.	3.2	6
#	Article	IF	CITATIONS
-----	--	-----	-----------
643	Soil organic matter decomposition and carbon sequestration in temperate coniferous forest soils affected by soluble and insoluble spruce needle fractions. Soil Biology and Biochemistry, 2019, 138, 107595.	4.2	16
644	Plant root exudates increase methane emissions through direct and indirect pathways. Biogeochemistry, 2019, 145, 213-234.	1.7	48
645	Do corn-soybean rotations enhance decomposition of soil organic matter?. Plant and Soil, 2019, 444, 427-442.	1.8	31
646	Constraining Carbon and Nutrient Flows in Soil With Ecological Stoichiometry. Frontiers in Ecology and Evolution, 2019, 7, .	1.1	33
647	Effects of inorganic nitrogen and litters of Masson Pine on soil organic carbon decomposition. PLoS ONE, 2019, 14, e0222973.	1.1	0
648	Rice Yield and Greenhouse Gas Emissions Affected by Chinese Milk Vetch and Rice Straw Retention with Reduced Nitrogen Fertilization. Agronomy Journal, 2019, 111, 3028-3038.	0.9	19
649	Priming effect of the addition of maize to a Japanese volcanic ash soil and its temperature sensitivity: a short-term incubation study. Soil Science and Plant Nutrition, 2019, 65, 444-450.	0.8	4
650	Data challenges in optimizing biochar-based carbon sequestration. Renewable and Sustainable Energy Reviews, 2019, 104, 174-177.	8.2	33
651	Effect of biochar origin and soil type on the greenhouse gas emission and the bacterial community structure in N fertilised acidic sandy and alkaline clay soil. Science of the Total Environment, 2019, 660, 69-79.	3.9	54
652	Susceptibility of soil organic carbon to priming after long-term CO2 fumigation is mediated by soil texture. Science of the Total Environment, 2019, 657, 1112-1120.	3.9	14
653	Different effects of single versus repeated additions of glucose on the soil organic carbon turnover in a temperate forest receiving long-term N addition. Geoderma, 2019, 341, 59-67.	2.3	32
654	Ecosystem carbon response of an Arctic peatland to simulated permafrost thaw. Global Change Biology, 2019, 25, 1746-1764.	4.2	52
655	Enhanced mineralization of sedimentary organic carbon induced by excess carbon from phytoplankton in a eutrophic plateau lake. Journal of Soils and Sediments, 2019, 19, 2613-2623.	1.5	17
656	Legume residue and N management for improving productivity and N economy and soil fertility in wheat (Triticum aestivum)-based cropping systems. The National Academy of Sciences, India, 2019, 42, 297-307.	0.8	6
657	Algal-Mediated Priming Effects on the Ecological Stoichiometry of Leaf Litter Decomposition: A Meta-Analysis. Frontiers in Earth Science, 2019, 7, .	0.8	27
658	Trade-offs and synergies between seed yield, forage yield, and N-related disservices for a semi-arid perennial grassland under different nitrogen fertilization strategies. Biology and Fertility of Soils, 2019, 55, 497-509.	2.3	11
659	Impacts of an invasive grass on soil organic matter pools vary across a tree-mycorrhizal gradient. Biogeochemistry, 2019, 144, 149-164.	1.7	16
660	Emergent properties of organic matter decomposition by soil enzymes. Soil Biology and Biochemistry, 2019, 136, 107522.	4.2	33

#	Article	IF	CITATIONS
661	The Ecological Importance of Winter in Temperate, Boreal, and Arctic Ecosystems in Times of Climate Change. Progress in Botany Fortschritte Der Botanik, 2019, , 377-399.	0.1	10
662	Rye cover crop incorporation and high watertable mitigate greenhouse gas emissions in cultivated peatland. Land Degradation and Development, 2019, 30, 1928-1938.	1.8	10
663	Small altitudinal change and rhizosphere affect the SOM light fractions but not the heavy fraction in European beech forest soil. Catena, 2019, 181, 104091.	2.2	25
664	Anise, parsley and rocket as nematicidal soil amendments and their impact on non-target soil organisms. Applied Soil Ecology, 2019, 143, 17-25.	2.1	19
665	Soil organic matter priming and carbon balance after straw addition is regulated by long-term fertilization. Soil Biology and Biochemistry, 2019, 135, 383-391.	4.2	81
666	Soil Organic Matter Fractions Under Eucalypt Plantation in Reform Management. Floresta E Ambiente, 2019, 26, .	0.1	2
667	Meta-analysis of the effects of organic matter on polychaetes of the east coast of South America. Marine Environmental Research, 2019, 149, 148-156.	1.1	6
668	Recent advances in constructed wetlandâ€microbial fuel cells for simultaneous bioelectricity production and wastewater treatment: A review. International Journal of Energy Research, 2019, 43, 5106-5127.	2.2	80
669	Rhizosphere carbon supply accelerates soil organic matter decomposition in the presence of fresh organic substrates. Plant and Soil, 2019, 440, 473-490.	1.8	38
670	Agronomic Evaluation of Biochar, Compost and Biochar-Blended Compost across Different Cropping Systems: Perspective from the European Project FERTIPLUS. Agronomy, 2019, 9, 225.	1.3	72
671	CO <sub>2</sub> emissions from an undrained tropical peatland: Interacting influences of temperature, shading and water table depth. Global Change Biology, 2019, 25, 2885-2899.	4.2	28
672	The Structure and Function of Aquatic Microbial Communities. Advances in Environmental Microbiology, 2019, , .	0.1	2
673	Priming effect of litter mineralization: the role of root exudate depends on its interactions with litter quality and soil condition. Plant and Soil, 2019, 440, 457-471.	1.8	42
674	Rice straw serves as additional carbon source for rhizosphere microorganisms and reduces root exudate consumption. Soil Biology and Biochemistry, 2019, 135, 235-238.	4.2	44
675	Effects of aridity on soil microbial communities and functions across soil depths on the Mongolian Plateau. Functional Ecology, 2019, 33, 1561-1571.	1.7	49
676	Carbon sequestration in soil amended with anaerobic digested matter. Soil and Tillage Research, 2019, 192, 87-94.	2.6	28
677	Competitive Capacity and Rhizosphere Mineralization of Organic Matter During Weed-Soil Microbiota Interactions. Planta Daninha, 2019, 37, .	0.5	8
678	The Case for Digging Deeper: Soil Organic Carbon Storage, Dynamics, and Controls in Our Changing World. Soil Systems, 2019, 3, 28.	1.0	86

#	Article	IF	CITATIONS
679	The role of the physical properties of soil in determining biogeochemical responses to soil warming. , 2019, , 209-244.		7
680	Measured and modelled effect of landâ€use change from temperate grassland to Miscanthus on soil carbon stocks after 12 years. GCB Bioenergy, 2019, 11, 1173-1186.	2.5	13
681	Subsoil Arbuscular Mycorrhizal Fungi for Sustainability and Climate-Smart Agriculture: A Solution Right Under Our Feet?. Frontiers in Microbiology, 2019, 10, 744.	1.5	63
682	Linking plant community composition with the soil C pool, N availability and enzyme activity in boreal peatlands of Northeast China. Applied Soil Ecology, 2019, 140, 144-154.	2.1	34
683	Microbial models with minimal mineral protection can explain long-term soil organic carbon persistence. Scientific Reports, 2019, 9, 6522.	1.6	62
684	Plant presence reduces root and shoot litter decomposition rates of crops and wild relatives. Plant and Soil, 2019, 438, 313-327.	1.8	14
685	Dominant extracellular enzymes in priming of SOM decomposition depend on temperature. Geoderma, 2019, 343, 187-195.	2.3	34
686	Temperature sensitivity of biomassâ€specific microbial exoâ€enzyme activities and CO <sub>2</sub> efflux is resistant to change across short―and longâ€term timescales. Global Change Biology, 2019, 25, 1793-1807.	4.2	27
687	Nitrogen Fertilizer Suppresses Mineralization of Soil Organic Matter in Maize Agroecosystems. Frontiers in Ecology and Evolution, 2019, 7, .	1.1	87
688	Nitrogen fertilization alters the distribution and fates of photosynthesized carbon in rice–soil systems: a 13C-CO2 pulse labeling study. Plant and Soil, 2019, 445, 101-112.	1.8	30
689	Biodegradation of humic substances by microscopic filamentous fungi: chromatographic and spectroscopic proxies. Journal of Soils and Sediments, 2019, 19, 2676-2687.	1.5	15
690	Comparing soil respiration and carbon pools of a maize-wheat rotation and switchgrass for predicting land-use change-driven SOC variations. Agricultural Systems, 2019, 173, 209-217.	3.2	7
691	Revisiting the â€~direct mineral cycling' hypothesis: arbuscular mycorrhizal fungi colonize leaf litter, but why?. ISME Journal, 2019, 13, 1891-1898.	4.4	79
692	Form of nitrogen deposition affects soil organic matter priming by glucose and cellulose. Biology and Fertility of Soils, 2019, 55, 383-391.	2.3	19
693	Nitrogen release and synchrony in organic and conventional farming systems of the Central Highlands of Kenya. Nutrient Cycling in Agroecosystems, 2019, 113, 283-305.	1.1	14
694	Linking rhizosphere respiration rate of three grassland species with root nitrogen concentration. Geoderma, 2019, 346, 84-90.	2.3	5
695	Long-term mesocosm experiments to investigate degradation of fluorescent tracers. Journal of Hydrology X, 2019, 2, 100014.	0.8	5
696	Plant functional types and temperature control carbon input via roots in peatland soils. Plant and Soil, 2019, 438, 19-38.	1.8	20

#	Article	IF	CITATIONS
697	Disentangling carbon flow across microbial kingdoms in the rhizosphere of maize. Soil Biology and Biochemistry, 2019, 134, 122-130.	4.2	38
698	Alfalfa monocultures promote soil organic carbon accumulation to a greater extent than perennial grass monocultures or grass-alfalfa mixtures. Ecological Engineering, 2019, 131, 53-62.	1.6	20
699	Fiddler crab bioturbation determines consistent changes in bacterial communities across contrasting environmental conditions. Scientific Reports, 2019, 9, 3749.	1.6	51
700	Contrasting Rhizospheric and Heterotrophic Components of Soil Respiration during Growing and Non-Growing Seasons in a Temperate Deciduous Forest. Forests, 2019, 10, 8.	0.9	13
701	Priming alters soil carbon dynamics during forest succession. Biology and Fertility of Soils, 2019, 55, 339-350.	2.3	21
702	Effect of reduction of aggregate size on the priming effect in a Mollisol under different soil managements. European Journal of Soil Science, 2019, 70, 765-775.	1.8	11
703	Interaction of fertilization and soil water status determine C partitioning in a sedge wetland. Soil Biology and Biochemistry, 2019, 135, 85-94.	4.2	3
704	Unifying soil organic matter formation and persistence frameworks: the MEMS model. Biogeosciences, 2019, 16, 1225-1248.	1.3	81
705	What happens toin situnet soil nitrogen mineralization when nitrogen fertility changes?. Journal of Plant Nutrition and Soil Science, 2019, 182, 296-306.	1.1	4
706	The role of dissolved organic matter in soil organic carbon stability under water erosion. Ecological Indicators, 2019, 102, 724-733.	2.6	41
707	Rhizosphere effects on soil microbial community structure and enzyme activity in a successional subtropical forest. FEMS Microbiology Ecology, 2019, 95, .	1.3	34
708	Effect of nitrogen fertilizer on rice photosynthate allocation and carbon input in paddy soil. European Journal of Soil Science, 2019, 70, 786-795.	1.8	22
709	Universality of priming effect: An analysis using thirty five soils with contrasted properties sampled from five continents. Soil Biology and Biochemistry, 2019, 134, 162-171.	4.2	86
710	Effect of crop residue addition on soil organic carbon priming as influenced by temperature and soil properties. Geoderma, 2019, 347, 70-79.	2.3	39
711	Toward a mechanistic understanding of "peat collapse―and its potential contribution to coastal wetland loss. Ecology, 2019, 100, e02720.	1.5	75
712	Soil microbial functions are affected by organic matter removal in temperate deciduous forest. Soil Biology and Biochemistry, 2019, 133, 28-36.	4.2	35
713	Root Exudation of Primary Metabolites: Mechanisms and Their Roles in Plant Responses to Environmental Stimuli. Frontiers in Plant Science, 2019, 10, 157.	1.7	540
714	A plant perspective on nitrogen cycling in the rhizosphere. Functional Ecology, 2019, 33, 540-552.	1.7	292

#	Article	IF	CITATIONS
715	Biogeochemical cycles of key elements in the paddy-rice rhizosphere: Microbial mechanisms and coupling processes. Rhizosphere, 2019, 10, 100145.	1.4	85
716	Nitrate N loss by leaching and surface runoff in agricultural land: A global issue (a review). Advances in Agronomy, 2019, , 159-217.	2.4	88
717	Different microbial responses in top―and subâ€soils to elevated temperature and substrate addition in a semiarid grassland on the Loess Plateau. European Journal of Soil Science, 2019, 70, 1025-1036.	1.8	12
718	More than Meets the Dye: Evaluating Preferential Flow Paths as Microbial Hotspots. Vadose Zone Journal, 2019, 18, 1-8.	1.3	15
719	No Strong Evidence of Priming Effects on the Degradation of Terrestrial Plant Detritus in Estuarine Sediments. Frontiers in Marine Science, 2019, 6, .	1.2	6
720	Lime and Nutrient Addition Affects the Dynamics and Fractions of Soil Carbon in a Short-term Incubation Study With 13C-Labeled Wheat Straw. Soil Science, 2019, 184, 43-51.	0.9	2
721	Nutrient availability affects carbon turnover and microbial physiology differently in topsoil and subsoil under a temperate grassland. Geoderma, 2019, 336, 22-30.	2.3	18
722	Glucose and ribose stabilization in soil: Convergence and divergence of carbon pathways assessed by position-specific labeling. Soil Biology and Biochemistry, 2019, 131, 54-61.	4.2	18
723	The physics and ecology of mining carbon dioxide from the atmosphere by ecosystems. Global Change Biology, 2019, 25, 1191-1197.	4.2	127
724	High-resolution elemental mapping of the root-rhizosphere-soil continuum using laser-induced breakdown spectroscopy (LIBS). Soil Biology and Biochemistry, 2019, 131, 119-132.	4.2	39
725	Changes in soil organic carbon and microbial carbon storage projected during the 21st century using TRIPLEX-MICROBE. Ecological Indicators, 2019, 98, 80-87.	2.6	5
726	Carbon and nitrogen availability in paddy soil affects rice photosynthate allocation, microbial community composition, and priming: combining continuous 13C labeling with PLFA analysis. Plant and Soil, 2019, 445, 137-152.	1.8	47
727	Decoupling of priming and microbial N mining during a short-term soil incubation. Soil Biology and Biochemistry, 2019, 129, 71-79.	4.2	52
728	Periphytic algae decouple fungal activity from leaf litter decomposition via negative priming. Functional Ecology, 2019, 33, 188-201.	1.7	50
729	Organic amendment additions to rangelands: A metaâ€analysis of multiple ecosystem outcomes. Clobal Change Biology, 2019, 25, 1152-1170.	4.2	55
730	Litter carbon and nutrient chemistry control the magnitude of soil priming effect. Functional Ecology, 2019, 33, 876-888.	1.7	44
731	Light intensity controls rhizosphere respiration rate and rhizosphere priming effect of soybean and sunflower. Rhizosphere, 2019, 9, 97-105.	1.4	12
732	Plant–Soil Interactions Control CNP Coupling and Decoupling Processes in Agroecosystems With Perennial Vegetation. , 2019, , 3-13.		7

#	ARTICLE	IF	CITATIONS
733	A conceptual framework for understanding the biogeochemistry of dry riverbeds through the lens of soil science. Earth-Science Reviews, 2019, 188, 441-453.	4.0	54
734	Comparing legumes for use in multiple cropping to enhance soil organic carbon, soil fertility, aggregates stability and vegetables yields under semi-arid conditions. Scientia Horticulturae, 2019, 246, 835-841.	1.7	36
735	Mineralization of plant residues and native soil carbon as affected by soil fertility and residue type. Journal of Soils and Sediments, 2019, 19, 1407-1415.	1.5	37
736	A soil texture manipulation doubled the priming effect following crop straw addition as estimated by two models. Soil and Tillage Research, 2019, 186, 11-22.	2.6	8
737	Cover Crop Effects on Net Ecosystem Carbon Balance in Grain and Silage Maize. Agronomy Journal, 2019, 111, 30-38.	0.9	15
738	Long-term effects of pig slurry application on selected soil quality parameters and tissue composition of maize in a subhumid subtropical environment. South African Journal of Plant and Soil, 2019, 36, 143-148.	0.4	4
739	Soil microbiomes and climate change. Nature Reviews Microbiology, 2020, 18, 35-46.	13.6	725
740	Volatileâ€mediated antagonism of soil bacterial communities against fungi. Environmental Microbiology, 2020, 22, 1025-1035.	1.8	49
741	Phosphorus rather than nitrogen enhances CO <sub>2</sub> emissions in tropical forest soils: Evidence from a laboratory incubation study. European Journal of Soil Science, 2020, 71, 495-510.	1.8	21
742	How eddy covariance flux measurements have contributed to our understanding of <i>Global Change Biology</i> . Global Change Biology, 2020, 26, 242-260.	4.2	216
743	Characterising the biophysical, economic and social impacts of soil carbon sequestration as a greenhouse gas removal technology. Global Change Biology, 2020, 26, 1085-1108.	4.2	65
744	Effect of long-term fertilization on decomposition of crop residues and their incorporation into microbial communities of 6-year stored soils. Biology and Fertility of Soils, 2020, 56, 25-37.	2.3	22
745	Carbon Sequestration and Storage by Wetlands: Implications in the Climate Change Scenario. , 2020, , 45-58.		5
746	Restoration of Wetland Ecosystem: A Trajectory Towards a Sustainable Environment. , 2020, , .		6
747	Sustaining crop production in China's cropland by crop residue retention: A metaâ€analysis. Land Degradation and Development, 2020, 31, 694-709.	1.8	89
748	Landâ€use change with pasture and short rotation eucalypts impacts the soil C emissions and organic C stocks in the Cerrado biome. Land Degradation and Development, 2020, 31, 909-923.	1.8	6
749	Plantâ€mediated effects of elevated CO <sub>2</sub> and rice cultivars on soil carbon dynamics in a paddy soil. New Phytologist, 2020, 225, 2368-2379.	3.5	16
750	Carbon limits non-linear response of nitrous oxide (N2O) to increasing N inputs in a highly-weathered tropical soil in Sri Lanka. Agriculture, Ecosystems and Environment, 2020, 292, 106808.	2.5	17

#	Article	IF	CITATIONS
751	Impacts of livestock grazing on vegetation characteristics and soil chemical properties of alpine meadows in the eastern Qinghai-Tibetan Plateau. Ecoscience, 2020, 27, 107-118.	0.6	15
752	C:N stoichiometry of stable and labile organic compounds determine priming patterns. Geoderma, 2020, 362, 114122.	2.3	19
753	Light and temperature mediate algal stimulation of heterotrophic activity on decomposing leaf litter. Freshwater Biology, 2020, 65, 1210-1222.	1.2	15
754	Herbivory modulates soil CO2 fluxes after windthrow: a case study in temperate mountain forests. European Journal of Forest Research, 2020, 139, 383-391.	1.1	3
755	Effect of woody plant expansion on decomposition of fine root mixtures in a grass-dominated temperate wetland. Wetlands Ecology and Management, 2020, 28, 191-197.	0.7	0
756	An agricultural practise with climate and food security benefits: "Claying―with kaolinitic clay subsoil decreased soil carbon priming and mineralisation in sandy cropping soils. Science of the Total Environment, 2020, 709, 134488.	3.9	9
757	A highly productive grass improves chemical and biological properties but does not aggregate stability in saline-sodic lowlands in Argentina. Archives of Agronomy and Soil Science, 2020, 66, 1532-1545.	1.3	5
758	Effects of seasonal precipitation change on soil respiration processes in a seasonally dry tropical forest. Ecology and Evolution, 2020, 10, 467-479.	0.8	26
759	Plant roots stimulate the decomposition of complex, but not simple, soil carbon. Functional Ecology, 2020, 34, 899-910.	1.7	28
760	Temperature sensitivity of decomposition decreases with increasing soil organic matter stability. Science of the Total Environment, 2020, 704, 135460.	3.9	47
762	Impact of water table levels and winter cover crops on greenhouse gas emissions from cultivated peat soils. Science of the Total Environment, 2020, 719, 135130.	3.9	13
763	Comparison of soil organic carbon pools, microbial activity and crop yield and quality in two vegetable multiple cropping systems under mediterranean conditions. Scientia Horticulturae, 2020, 261, 109025.	1.7	9
764	Effects of nitrogen addition on DOM-induced soil priming effects in a subtropical plantation forest and a natural forest. Biology and Fertility of Soils, 2020, 56, 205-216.	2.3	14
765	A conceptual model of carbon stabilisation based on patterns observed in different soils. Soil Biology and Biochemistry, 2020, 141, 107683.	4.2	14
766	Soil fertility and nutrients mediate soil carbon dynamics following residue incorporation. Nutrient Cycling in Agroecosystems, 2020, 116, 205-221.	1.1	7
767	Leaf litter contributes more to soil organic carbon than fine roots in two 10-year-old subtropical plantations. Science of the Total Environment, 2020, 704, 135341.	3.9	41
768	Root exudation of mature beech forests across a nutrient availability gradient: the role of root morphology and fungal activity. New Phytologist, 2020, 226, 583-594.	3.5	84
769	Warmingâ€induced global soil carbon loss attenuated by downward carbon movement. Global Change Biology, 2020, 26, 7242-7254	4.2	28

#	Article	IF	CITATIONS
770	Differences in the rhizosphere effects among trees, shrubs and herbs in three subtropical plantations and their seasonal variations. European Journal of Soil Biology, 2020, 100, 103218.	1.4	15
771	Short-term temperature history affects mineralization of fresh litter and extant soil organic matter, irrespective of agricultural management. Soil Biology and Biochemistry, 2020, 150, 107985.	4.2	7
772	Modeling the dynamics of protected and primed organic carbon in soil and aggregates under constant soil moisture following litter incorporation. Soil Biology and Biochemistry, 2020, 151, 108039.	4.2	14
773	Phospholipid biomarkers in Mars-analogous soils of the Atacama Desert. International Journal of Astrobiology, 2020, 19, 505-514.	0.9	5
774	Effects of long-term phosphorus fertilizer applications on soil carbon and CO <sub>2</sub> flux. Communications in Soil Science and Plant Analysis, 2020, 51, 2270-2279.	0.6	8
775	Carbon loss from northern circumpolar permafrost soils amplified by rhizosphere priming. Nature Geoscience, 2020, 13, 560-565.	5.4	72
776	The response of soil respiration to precipitation change is asymmetric and differs between grasslands and forests. Global Change Biology, 2020, 26, 6015-6024.	4.2	45
777	Temporal dynamics of litter quality, soil properties and microbial strategies as main drivers of the priming effect. Geoderma, 2020, 377, 114576.	2.3	51
778	Fuzzy optimization of carbon management networks based on direct and indirect biomass co-firing. Renewable and Sustainable Energy Reviews, 2020, 132, 110035.	8.2	30
779	Organic amendments exacerbate the effects of silver nanoparticles on microbial biomass and community composition of a semiarid soil. Science of the Total Environment, 2020, 744, 140919.	3.9	12
780	Influence of Two Important Leguminous Trees on Their Soil Microbiomes and Nitrogen Cycle Activities in a Primary and Recovering Secondary Forest in the Northern Zone of Costa Rica. Soil Systems, 2020, 4, 65.	1.0	3
781	Deciphering Linkages Between Microbial Communities and Priming Effects in Lake Sediments With Different Salinity. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005611.	1.3	6
782	Vegetation richness, species identity and soil nutrients drive the shifts in soil bacterial communities during restoration process. Environmental Microbiology Reports, 2021, 13, 411-424.	1.0	21
783	<i>Bacillus subtilis</i> CP4, isolated from native soil in combination with arbuscular mycorrhizal fungi promotes biofortification, yield and metabolite production in wheat under field conditions. Journal of Applied Microbiology, 2021, 131, 339-359.	1.4	28
785	How Do Soil Bacterial Diversity and Community Composition Respond under Recommended and Conventional Nitrogen Fertilization Regimes?. Microorganisms, 2020, 8, 1193.	1.6	7
786	Spatial heterogeneous granulation enhance soil nitrogen supply potential via regulating dissolved organic nitrogen. Science of the Total Environment, 2020, 746, 141235.	3.9	0
787	Direct and indirect influences of long-term fertilization on microbial carbon and nitrogen cycles in an alpine grassland. Soil Biology and Biochemistry, 2020, 149, 107922.	4.2	51
788	Quantifying microbial metabolism in soils using calorespirometry — A bioenergetics perspective. Soil Biology and Biochemistry, 2020, 148, 107945.	4.2	15

#	Article	IF	CITATIONS
789	Alkaline habitat for vegetated roofs? Ecosystem dynamics in a vegetated roof with crushed concrete-based substrate. Ecological Engineering, 2020, 157, 105970.	1.6	17
790	Systematic relationship between soil properties and organic carbon mineralization based on structural equation modeling analysis. Journal of Cleaner Production, 2020, 277, 123338.	4.6	12
791	Gain in carbon: Deciphering the abiotic and biotic mechanisms of biochar-induced negative priming effects in contrasting soils. Science of the Total Environment, 2020, 746, 141057.	3.9	29
792	Soil organic matter, nitrogen and pH driven change in bacterial community following forest conversion. Forest Ecology and Management, 2020, 477, 118473.	1.4	58
793	Shining Light on Priming in Euphotic Sediments: Nutrient Enrichment Stimulates Export of Stored Organic Matter. Environmental Science & Technology, 2020, 54, 11165-11172.	4.6	9
794	Evaluating C sources and microbial biomass dynamics involved in the triggering response with soil depth. Soil Biology and Biochemistry, 2020, 149, 107958.	4.2	1
795	Impact of natural zeolite on chemical and biochemical properties of vineyard soils. Soil Use and Management, 2021, 37, 832-842.	2.6	17
796	Humic substances and distribution in Mollisols affected by sixâ€year organic amendments. Agronomy Journal, 2020, 112, 4723-4740.	0.9	10
797	Who gives a flux? Synchronous flowering of <i>Coffea arabica</i> accelerates leaf litter decomposition. Ecosphere, 2020, 11, e03186.	1.0	4
798	Effects of tropospheric ozone and elevated nitrogen input on the temperate grassland forbs Leontodon hispidus and Succisa pratensis. Global Ecology and Conservation, 2020, 24, e01345.	1.0	2
799	Legacy effect of elevated CO2 and N fertilization on mineralization and retention of rice (Oryza sativa) Tj ETQq0	0 0 rgBT /0 2.4	Dverlock 10 1
800	Iron-mediated organic matter decomposition in humid soils can counteract protection. Nature Communications, 2020, 11, 2255.	5.8	181
801	Secondary soil salinization in urban lawns: Microbial functioning, vegetation state, and implications for carbon balance. Land Degradation and Development, 2020, 31, 2591-2604.	1.8	19
802	Effects of drying/rewetting on soil aggregate dynamics and implications for organic matter turnover. Biology and Fertility of Soils, 2020, 56, 893-905.	2.3	30
803	Rhizosphere hotspots: Root hairs and warming control microbial efficiency, carbon utilization and energy production. Soil Biology and Biochemistry, 2020, 148, 107872.	4.2	48
804	Evaluating the â€ <sup>-</sup> triggering response' in soils, using 13C-glucose, and effects on dynamics of microbial biomass. Soil Biology and Biochemistry, 2020, 147, 107843.	4.2	7
805	Soil respiration in temperate forests is increased by a shift from coniferous to deciduous trees but not by an increase in temperature. Applied Soil Ecology, 2020, 154, 103635.	2.1	8
806	Effects of nitrogen deposition and plant litter alteration on soil respiration in a semiarid grassland. Science of the Total Environment, 2020, 740, 139634.	3.9	20

#	Article	IF	CITATIONS
807	Biochar alters nitrogen and phosphorus dynamics in a western rangeland ecosystem. Soil Biology and Biochemistry, 2020, 148, 107868.	4.2	34
808	Light availability controls rhizosphere priming effect of temperate forest trees. Soil Biology and Biochemistry, 2020, 148, 107895.	4.2	6
809	Temperature induces soil organic carbon mineralization in urban park green spaces, Chengdu, southwestern China: Effects of planting years and vegetation types. Urban Forestry and Urban Greening, 2020, 54, 126761.	2.3	14
810	Divergent responses of soil organic carbon to afforestation. Nature Sustainability, 2020, 3, 694-700.	11.5	118
811	Ecological significance of autotroph–heterotroph microbial interactions in freshwaters. Freshwater Biology, 2020, 65, 1183-1188.	1.2	12
812	Pasture degradation impact on soil carbon and nitrogen fractions of alpine meadow in a Tibetan permafrost region. Journal of Soils and Sediments, 2020, 20, 2330-2342.	1.5	9
813	Low and High Nitrogen Deposition Rates in Northern Coniferous Forests Have Different Impacts on Aboveground Litter Production, Soil Respiration, and Soil Carbon Stocks. Ecosystems, 2020, 23, 1423-1436.	1.6	33
814	The partitioning of litter carbon fates during decomposition under different rainfall patterns: a laboratory study. Biogeochemistry, 2020, 148, 153-168.	1.7	11
815	Microbial Community, Newly Sequestered Soil Organic Carbon, and δ15N Variations Driven by Tree Roots. Frontiers in Microbiology, 2020, 11, 314.	1.5	22
816	Herbaceous layer determines the relationship between soil respiration and photosynthesis in a shrub-dominated desert plant community. Plant and Soil, 2020, 449, 193-207.	1.8	9
817	Litter Management as a Key Factor Relieves Soil Respiration Decay in an Urban-Adjacent Camphor Forest under a Short-Term Nitrogen Increment. Forests, 2020, 11, 216.	0.9	6
818	Carbon Sequestration in Irrigated and Rain-Fed Cropping Systems Under Long-Term Fertilization Regimes. Journal of Soil Science and Plant Nutrition, 2020, 20, 941-952.	1.7	12
819	Soil DOC release and aggregate disruption mediate rhizosphere priming effect on soil C decomposition. Soil Biology and Biochemistry, 2020, 144, 107787.	4.2	31
820	Soil fauna reduce soil respiration by supporting N leaching from litter. Applied Soil Ecology, 2020, 153, 103585.	2.1	11
821	Frequency of stover mulching but not amount regulates the decomposition pathways of soil micro-foodwebs in a no-tillage system. Soil Biology and Biochemistry, 2020, 144, 107789.	4.2	31
822	Effects of Litterfall on the Accumulation of Extracted Soil Humic Substances in Subalpine Forests. Frontiers in Plant Science, 2020, 11, 254.	1.7	12
823	Light and dissolved nutrients mediate recalcitrant organic matter decomposition via microbial priming in experimental streams. Freshwater Biology, 2020, 65, 1189-1199.	1.2	15
824	Soil carbon balance by priming differs with single versus repeated addition of glucose and soil fertility level. Soil Biology and Biochemistry, 2020, 148, 107913.	4.2	33

#	Article	IF	CITATIONS
825	Agronomic assessment of cover cropping and tillage practices across environments. Agronomy Journal, 2020, 112, 3913-3928.	0.9	13
826	Response of Vegetation and Soil Characteristics to Grazing Disturbance in Mountain Meadows and Temperate Typical Steppe in the Arid Regions of Central Asian, Xinjiang. International Journal of Environmental Research and Public Health, 2020, 17, 4572.	1.2	11
827	Effect of Chinese Milk Vetch (Astragalus sinicus L.) and Rice Straw Incorporated in Paddy Soil on Greenhouse Gas Emission and Soil Properties. Agronomy, 2020, 10, 717.	1.3	11
828	Contrasting temperature responses of soil respiration derived from soil organic matter and added plant litter. Biogeochemistry, 2020, 150, 45-59.	1.7	17
829	Effect of canopy gap size on soil respiration in a mixed broadleaved-Korean pine forest: Evidence from biotic and abiotic factors. European Journal of Soil Biology, 2020, 99, 103194.	1.4	9
830	Increasing Rates of Carbon Burial in Southwest Florida Coastal Wetlands. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005349.	1.3	32
831	Effect of conservation farming and biochar addition on soil organic carbonÂquality, nitrogenÂmineralization, and crop productivity in a light textured Acrisol in the sub-humid tropics. PLoS ONE, 2020, 15, e0228717.	1.1	32
832	The fate of organic carbon in marine sediments - New insights from recent data and analysis. Earth-Science Reviews, 2020, 204, 103146.	4.0	118
833	Foliage C:N ratio, stage of organic matter decomposition and interaction with soil affect microbial respiration and its response to C and N addition more than C:N changes during decomposition. Applied Soil Ecology, 2020, 152, 103568.	2.1	23
834	Effects of thinning on soil saprotrophic and ectomycorrhizal fungi in a Korean larch plantation. Forest Ecology and Management, 2020, 461, 117920.	1.4	26
835	Soil nematode community composition and stability under different nitrogen additions in a semiarid grassland. Global Ecology and Conservation, 2020, 22, e00965.	1.0	7
836	Carbon and nitrogen recycling from microbial necromass to cope with C:N stoichiometric imbalance by priming. Soil Biology and Biochemistry, 2020, 142, 107720.	4.2	206
838	Effect of excess activated sludge on vermicomposting of fruit and vegetable waste by using novel vermireactor. Bioresource Technology, 2020, 302, 122816.	4.8	37
839	Organic matter decomposition and carbon content in soil fractions as affected by a gradient of labile carbon input to a temperate forest soil. Biology and Fertility of Soils, 2020, 56, 411-421.	2.3	14
840	Microbial dynamics and soil physicochemical properties explain largeâ€scale variations in soil organic carbon. Global Change Biology, 2020, 26, 2668-2685.	4.2	56
841	Resource availability alters fitness tradeâ€offs: implications for evolution in stressful environments. American Journal of Botany, 2020, 107, 308-318.	0.8	9
842	Assessing the sustainability of land use management of northern Ethiopian drylands by various indicators for soil health. Ecological Indicators, 2020, 112, 106092.	2.6	15
843	Influence of earthworms on apolar lipid features in soils after 1Âyear of incubation. Biogeochemistry, 2020, 147, 243-258.	1.7	7

# 844	ARTICLE Soil moisture mediates microbial carbon and phosphorus metabolism during vegetation succession in a semiarid region. Soil Biology and Biochemistry, 2020, 147, 107814.	IF 4.2	Citations
845	Depth patterns and connections between gross nitrogen cycling and soil exoenzyme activities in three northern hardwood forests. Soil Biology and Biochemistry, 2020, 147, 107836.	4.2	28
846	Biochar Applications in Agriculture and Environment Management. , 2020, , .		9
847	Response of methane emissions to litter input manipulation in a temperate freshwater marsh, Northeast China. Ecological Indicators, 2020, 115, 106377.	2.6	5
848	Balanced nutrient stoichiometry of organic amendments enhances carbon priming in a poorly structured sodic subsoil. Soil Biology and Biochemistry, 2020, 145, 107800.	4.2	26
849	DNA Stable-Isotope Probing Delineates Carbon Flows from Rice Residues into Soil Microbial Communities Depending on Fertilization. Applied and Environmental Microbiology, 2020, 86, .	1.4	34
850	Microbes changed their carbon use strategy to regulate the priming effect in an 11-year nitrogen addition experiment in grassland. Science of the Total Environment, 2020, 727, 138645.	3.9	29
851	Chemical Characterisation of Construction and Demolition Waste in Skopje City and Its Surroundings (Republic of Macedonia). Sustainability, 2020, 12, 2055.	1.6	14
852	Soil-Root Dynamics in Maize-Beans-Eggplant Intercropping System under Organic Management in a Subtropical Region. Journal of Soil Science and Plant Nutrition, 2020, 20, 1480-1490.	1.7	14
853	Prevalent root-derived phenolics drive shifts in microbial community composition and prime decomposition in forest soil. Soil Biology and Biochemistry, 2020, 145, 107797.	4.2	69
854	Cover loss in a seagrass Posidonia oceanica meadow accelerates soil organic matter turnover and alters soil prokaryotic communities. Organic Geochemistry, 2021, 151, 104140.	0.9	17
855	Effects of nitrogen and phosphorus additions on decomposition and accumulation of soil organic carbon in alpine meadows on the Tibetan Plateau. Land Degradation and Development, 2021, 32, 1467-1477.	1.8	20
856	Interactive effects of crop residue quality and nitrogen fertilization on soil organic carbon priming in agricultural soils. Journal of Soils and Sediments, 2021, 21, 83-95.	1.5	7
857	Enhancing phosphorus availability, soil organic carbon, maize productivity and farm profitability through biochar and organic–inorganic fertilizers in an irrigated maize agroecosystem under semiâ€arid climate. Soil Use and Management, 2021, 37, 104-119.	2.6	39
858	Longâ€ŧerm nitrogen enrichment does not increase microbial phosphorus mobilization in a northern coniferous forest. Functional Ecology, 2021, 35, 277-287.	1.7	9
859	Long-term soil organic carbon dynamics in temperate cropland-grassland systems. Agriculture, Ecosystems and Environment, 2021, 305, 107184.	2.5	45
860	Soil carbon release enhanced by increased litter input in a degraded semi-arid forest soil. Journal of Arid Environments, 2021, 186, 104400.	1.2	8
861	Transformation of litter carbon to stable soil organic matter is facilitated by ungulate trampling. Geoderma, 2021, 385, 114828.	2.3	27

#	Article	IF	CITATIONS
862	Microbial metabolic efficiency functions as a mediator to regulate rhizosphere priming effects. Science of the Total Environment, 2021, 759, 143488.	3.9	12
863	Active phoD-harboring bacteria are enriched by long-term organic fertilization. Soil Biology and Biochemistry, 2021, 152, 108071.	4.2	27
864	The effects of warming on root exudation and associated soil N transformation depend on soil nutrient availability. Rhizosphere, 2021, 17, 100263.	1.4	32
865	Turnover of gram-negative bacterial biomass-derived carbon through the microbial food web of an agricultural soil. Soil Biology and Biochemistry, 2021, 152, 108070.	4.2	32
866	Role of cultural and nutrient management practices in carbon sequestration in agricultural soil. Advances in Agronomy, 2021, 166, 131-196.	2.4	32
867	Nitrogen and phosphorus additions accelerate decomposition of slow carbon pool and lower total soil organic carbon pool in alpine meadows. Land Degradation and Development, 2021, 32, 1761-1772.	1.8	25
868	Strong priming of soil organic matter induced by frequent input of labile carbon. Soil Biology and Biochemistry, 2021, 152, 108069.	4.2	70
869	Diminished rhizosphere and bulk soil microbial abundance and diversity across succession stages in Karst area, southwest China. Applied Soil Ecology, 2021, 158, 103799.	2.1	20
870	Litter quality drives nitrogen release, and agricultural management (organic vs. conventional) drives carbon loss during litter decomposition in agro-ecosystems. Soil Biology and Biochemistry, 2021, 153, 108115.	4.2	25
871	Clobal patterns and associated drivers of priming effect in response to nutrient addition. Soil Biology and Biochemistry, 2021, 153, 108118.	4.2	93
872	Redox-Related Metabolic Dynamics Imprinted on Short-Chain Carboxylic Acids in Soil Water Extracts: A <sup>13</sup> C-Exometabolomics Analysis. Environmental Science and Technology Letters, 2021, 8, 183-191.	3.9	6
873	Rhizosphere priming regulates soil organic carbon and nitrogen mineralization: The significance of abiotic mechanisms. Geoderma, 2021, 385, 114877.	2.3	43
874	How will a drier climate change carbon sequestration in soils of the deciduous forests of Central Europe?. Biogeochemistry, 2021, 152, 13-32.	1.7	21
875	Labile carbon addition alters soil organic carbon mineralization but not its temperature sensitivity in a freshwater marsh of Northeast China. Applied Soil Ecology, 2021, 160, 103844.	2.1	12
876	Nitrogen cycling microbiomes are structured by plant mycorrhizal associations with consequences for nitrogen oxide fluxes in forests. Global Change Biology, 2021, 27, 1068-1082.	4.2	41
877	Effects of biochar amendment on greenhouse gas emission in two paddy soils with different textures. Paddy and Water Environment, 2021, 19, 87-98.	1.0	12
878	Mitigation of CO2, CH4 and N2O from Acidic Clayey Soil Amended with Fertilizer Pellets Based on Alkaline Organic Residues. Waste and Biomass Valorization, 2021, 12, 3813-3827.	1.8	5
879	Divergent mineralization of hydrophilic and hydrophobic organic substrates and their priming effect in soils depending on their preferential utilization by bacteria and fungi. Biology and Fertility of Soils, 2021, 57, 65-76.	2.3	40

#	Article	IF	CITATIONS
880	Higher biochar rate strongly reduced decomposition of soil organic matter to enhance C and N sequestration in nutrient-poor alkaline calcareous soil. Journal of Soils and Sediments, 2021, 21, 148-162.	1.5	35
881	Differences in root exudate inputs and rhizosphere effects on soil N transformation between deciduous and evergreen trees. Plant and Soil, 2021, 458, 277-289.	1.8	40
882	Pineapple Residue Ash Reduces Carbon Dioxide and Nitrous Oxide Emissions in Pineapple Cultivation on Tropical Peat Soils at Saratok, Malaysia. Sustainability, 2021, 13, 1014.	1.6	2
883	Early growing season immobilisation affects post-tillering wheat nitrogen uptake from crop stubble and 15N fertiliser in a sandy soil. Soil Research, 2021, 59, 239.	0.6	1
884	Potential carbon loss in sediment through methane production during early development stage of mangrove regeneration in restored mangroves. , 2021, , 415-445.		1
885	Effect of N addition on root exudation and associated microbial N transformation under Sibiraea angustata in an alpine shrubland. Plant and Soil, 2021, 460, 469-481.	1.8	10
886	Litter addition and understory removal influenced soil organic carbon quality and mineral nitrogen supply in a subtropical plantation forest. Plant and Soil, 2021, 460, 527-540.	1.8	23
887	Nitrogen and phosphorus coâ€limit mineralization of labile carbon in deep subsoil. European Journal of Soil Science, 2021, 72, 1879-1884.	1.8	6
890	The Atacama Desert: a window into late Mars surface habitability?. , 2021, , 333-355.		2
891	Importance of sugarcane straw maintenance to prevent soil organic matter depletion in a Nitisol in the central-southern region of Brazil. Soil Research, 2021, 59, 119.	0.6	2
892	Soil carbon dynamics and aquatic metabolism of a wet–dry tropics wetland system. Wetlands Ecology and Management, 2021, 29, 1-25.	0.7	2
893	Aggregation and dynamics of soil organic matter under different management systems in the Brazilian Cerrado. Soil Research, 2021, 59, 715-726.	0.6	7
894	Organic mulching promotes soil organic carbon accumulation to deep soil layer in an urban plantation forest. Forest Ecosystems, 2021, 8, .	1.3	18
895	Soil management legacy alters weed-crop competition through biotic and abiotic pathways. Plant and Soil, 2021, 462, 543-560.	1.8	1
896	Influence of leaf miners and environmental quality on litter breakdown in tropical headwater streams. Hydrobiologia, 2021, 848, 1311-1331.	1.0	6
897	No evidence for increased loss of old carbon in a temperate organic soil after 13Âyears of simulated climatic warming despite increased CO <sub>2</sub> emissions. Global Change Biology, 2021, 27, 1836-1847.	4.2	6
898	Dynamics of soil organic carbon mineralization and enzyme activities after twoÂmonths and sixÂyears of biochar addition. Biomass Conversion and Biorefinery, 2023, 13, 1153-1162.	2.9	4
899	Short―and longâ€ŧerm carbon emissions from oil palm plantations converted from logged tropical peat swamp forest. Global Change Biology, 2021, 27, 2361-2376.	4.2	19

		CITATION REPORT		
#	Article		IF	Citations
901	Effects of nitrogen fertilization on the rhizosphere priming. Plant and Soil, 2021, 462,	489-503.	1.8	11
903	Sources and biodegradability of dissolved organic matter in two headwater peatland c the Marcell Experimental Forest, northern Minnesota, <scp>USA</scp> . Hydrological F 35, e14049.	atchments at Processes, 2021,	1.1	9
904	Altered plant carbon partitioning enhanced forest ecosystem carbon storage after 25 nitrogen additions. New Phytologist, 2021, 230, 1435-1448.	years of	3.5	51
905	Grasshopper herbivory immediately affects element cycling but not export rates in an grassland system. Ecosphere, 2021, 12, e03449.	Nâ€limited	1.0	6
906	Longâ€ŧerm effects of straw mulching coupled with N application on soil organic carb sequestration and soil aggregation in a winter wheat monoculture system. Agronomy 113, 2118-2131.	on Journal, 2021,	0.9	10
908	Potential role of priming effect in the open ocean oxygen minimum zones: an outlook. 2021, 848, 2437-2448.	. Hydrobiologia,	1.0	5
909	Temperature sensitivity of soil microbial respiration in soils with lower substrate availa enhanced more by labile carbon input. Soil Biology and Biochemistry, 2021, 154, 1081	bility is 148.	4.2	24
910	Root presence modifies the longâ€ŧerm decomposition dynamics of fungal necromass microbial communities in a boreal forest. Molecular Ecology, 2021, 30, 1921-1935.	and the associated	2.0	23
911	A trade-off between plant and soil carbon storage under elevated CO2. Nature, 2021,	591, 599-603.	13.7	268
912	Shortâ€term effects of combined organic amendments on soil organic carbon sequest rainâ€fed winter wheat system. Agronomy Journal, 2021, 113, 2150-2164.	tration in a	0.9	9
913	Effects of Biochar on the Soil Carbon Cycle in Agroecosystems: An Promising Way to I Carbon Pool in Dryland. IOP Conference Series: Earth and Environmental Science, 202	ncrease the 1, 693, 012082.	0.2	6
914	Mid-term (30Âyears) changes of soil properties under chestnut stands due to organic management: An integrated study. Catena, 2021, 198, 105021.	residues	2.2	7
915	Landâ€use change alters the stocks of carbon, nitrogen, and phosphorus in a Haplic C Brazilian semiâ€arid region. Soil Use and Management, 2022, 38, 953-963.	ambisol in the	2.6	11
916	Comparison of carbon footprint and net ecosystem carbon budget under organic mat combined with reduced mineral fertilizer. Carbon Balance and Management, 2021, 16	erial retention , 7.	1.4	8
917	Relationships between soil respiration and hyperspectral vegetation indexes and crop under different warming and straw application modes. Environmental Science and Pol Research, 2021, 28, 40756-40770.	characteristics lution	2.7	3
918	Rhizosphere response to predicted vegetation shifts in boreal forest floors. Soil Biolog Biochemistry, 2021, 154, 108141.	y and	4.2	10
919	Long-Term Growth of Alfalfa Increased Soil Organic Matter Accumulation and Nutrient Mineralization in a Semi-Arid Environment. Frontiers in Environmental Science, 2021, 9	; ; ),.	1.5	24
920	Competing Processes Drive the Resistance of Soil Carbon to Alterations in Organic Inp in Environmental Science, 2021, 9, .	outs. Frontiers	1.5	11

#	Article	IF	CITATIONS
921	Mechanisms Underlying Nutrient Interaction of Compost and Mineral Fertilizer Application in Maize (Zea mays L.) Cropping System in Ghana. Frontiers in Soil Science, 2021, 1, .	0.8	3
922	Changes in Soil Microbial Activity, Bacterial Community Composition and Function in a Long-Term Continuous Soybean Cropping System After Corn Insertion and Fertilization. Frontiers in Microbiology, 2021, 12, 638326.	1.5	21
923	Heterotrophic Respiration and the Divergence of Productivity and Carbon Sequestration. Geophysical Research Letters, 2021, 48, e2020GL092366.	1.5	4
924	Optimizing Carbon Sequestration in Croplands: A Synthesis. Agronomy, 2021, 11, 882.	1.3	61
925	Mechanical fragmentation of leaf litter by fine root growth contributes greatly to the early decomposition of leaf litter. Global Ecology and Conservation, 2021, 26, e01456.	1.0	6
926	Anthropogenic nitrogen enrichment increased the efficiency of belowground biomass production in a boreal forest. Soil Biology and Biochemistry, 2021, 155, 108154.	4.2	19
927	Effects of soil amendments on soil fertility and fruit yield through alterations in soil carbon fractions. Journal of Soils and Sediments, 2021, 21, 2628-2638.	1.5	9
928	Effects of substrate quality on carbon partitioning and microbial community composition in soil from an agricultural grassland. Applied Soil Ecology, 2021, 161, 103881.	2.1	7
929	Changes in soil bacterial communities, and carbon and nitrogen metrics as potential indicators of land use effects in a humid tropical forest. Pedobiologia, 2021, 85-86, 150730.	0.5	3
930	Simulating measurable ecosystem carbon and nitrogen dynamics with the mechanistically defined MEMS 2.0 model. Biogeosciences, 2021, 18, 3147-3171.	1.3	32
931	Tree Species of Wet Tropical Forests Differ in Their Tissue Biochemistry and Effects on Soil Carbon Dynamics. Frontiers in Forests and Global Change, 2021, 4, .	1.0	2
932	The microplastisphere: Biodegradable microplastics addition alters soil microbial community structure and function. Soil Biology and Biochemistry, 2021, 156, 108211.	4.2	249
933	Can N Fertilizer Addition Affect N2O Isotopocule Signatures for Soil N2O Source Partitioning?. International Journal of Environmental Research and Public Health, 2021, 18, 5024.	1.2	1
934	Changes in Archaeal Community and Activity by the Invasion of Spartina anglica Along Soil Depth Profiles of a Coastal Wetland. Microbial Ecology, 2022, 83, 436-446.	1.4	4
935	Rapid Response of Nitrogen Cycling Gene Transcription to Labile Carbon Amendments in a Soil Microbial Community. MSystems, 2021, 6, .	1.7	20
936	Post-agricultural restoration of soil organic carbon pools across a climate gradient. Catena, 2021, 200, 105138.	2.2	8
938	Rhizosphere Effects of Maize and Wheat Increase Soil Organic and Inorganic Carbon Release in Carbonate-Rich Soils: A Three-Source 13C Partitioning Study. Frontiers in Environmental Science, 2021, 9, .	1.5	6
939	Plant community composition alters moisture and temperature sensitivity of soil respiration in semi-arid shrubland. Oecologia, 2021, 197, 1003-1015.	0.9	7

#	Article	IF	CITATIONS
940	Distinct microbial communities alter litter decomposition rates in a fertilized coastal plain wetland. Ecosphere, 2021, 12, e03619.	1.0	6
941	Investigating Thaw and Plant Productivity Constraints on Old Soil Carbon Respiration From Permafrost. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006000.	1.3	3
942	The enduring effects of sowing legume-rich mixtures on the soil microbial community and soil carbon in semi-arid wood pastures. Plant and Soil, 2021, 465, 563-582.	1.8	21
943	Come Rain, Come Shine: Peatland Carbon Dynamics Shift Under Extreme Precipitation. Frontiers in Environmental Science, 2021, 9, .	1.5	7
944	The rhizosphere effect on soil gross nitrogen mineralization: A meta-analysis. Soil Ecology Letters, 2022, 4, 144-154.	2.4	12
945	Root, not aboveground litter, controls soil carbon storage under grazing exclusion across grasslands worldwide. Land Degradation and Development, 2021, 32, 3326-3337.	1.8	15
946	Aboveground and Belowground Plant Traits Explain Latitudinal Patterns in Topsoil Fungal Communities From Tropical to Cold Temperate Forests. Frontiers in Microbiology, 2021, 12, 633751.	1.5	5
948	Source identification of particulate organic carbon using stable isotopes and n-alkanes: modeling and application. Water Research, 2021, 197, 117083.	5.3	33
949	Tree species composition and nutrient availability affect soil microbial diversity and composition across forest types in subtropical China. Catena, 2021, 201, 105224.	2.2	14
950	Medium-term effect of fertilizer, compost, and dolomite on cocoa soil and productivity in Sulawesi, Indonesia. Experimental Agriculture, 2021, 57, 185-202.	0.4	2
951	Quarry restoration treatments from recycled waste modify the physicochemical soil properties, composition and activity of bacterial communities and priming effect in semi-arid areas. Science of the Total Environment, 2021, 774, 145693.	3.9	14
952	Responses of greenhouse gas emissions to residue returning in China's croplands and influential factors: A meta-analysis. Journal of Environmental Management, 2021, 289, 112486.	3.8	35
953	Climate change drivers alter root controls over litter decomposition in a semi-arid grassland. Soil Biology and Biochemistry, 2021, 158, 108278.	4.2	22
954	Soil Microbe-Mediated N:P Stoichiometric Effects on Solidago canadensis Performance Depend on Nutrient Levels. Microbial Ecology, 2022, 83, 960-970.	1.4	7
955	Nitrogen cycling in tropical grass-legume pastures managed under canopy light interception. Nutrient Cycling in Agroecosystems, 2021, 121, 51-67.	1.1	6
956	Microbial Substrate Utilization and Vegetation Shifts in Boreal Forest Floors of Western Canada. Frontiers in Forests and Global Change, 2021, 4, .	1.0	2
957	Role of organic amendment application on soil quality, functionality and greenhouse emission in a limestone quarry from semiarid ecosystems. Applied Soil Ecology, 2021, 164, 103925.	2.1	18
958	Amount and reactivity of dissolved organic matter export are affected by land cover change from oldâ€growth to secondâ€growth forests in headwater ecosystems. Hydrological Processes, 2021, 35, e14343.	1.1	3

#	Article	IF	CITATIONS
959	Effect of microplastics on organic matter decomposition in paddy soil amended with crop residues and labile C: A three-source-partitioning study. Journal of Hazardous Materials, 2021, 416, 126221.	6.5	60
960	Improving soil respiration while maintaining soil C stocks in sunken plastic greenhouse vegetable production systems – Advantages of straw application and drip fertigation. Agriculture, Ecosystems and Environment, 2021, 316, 107464.	2.5	8
961	Chemical composition of cover crops and soil organic matter pools in noâ€ŧillage systems in the Cerrado. Soil Use and Management, 0, , .	2.6	6
962	An improved microelectrode method reveals significant emission of nitrous oxide from the rhizosphere of a long-term fertilized soil in the North China Plain. Science of the Total Environment, 2021, 783, 147011.	3.9	6
963	Exploring the Drivers Controlling the Priming Effect and Its Magnitude in Aquatic Systems. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006201.	1.3	8
964	Elevated atmospheric CO2 generally improved soluble sugars content in the rhizosphere soil of black locust seedlings under cadmium exposure. Plant and Soil, 2021, 468, 197-209.	1.8	6
965	Algal-driven priming of cellulose decomposition along a phosphorus gradient in stream mesocosms. Freshwater Science, 2021, 40, 580-592.	0.9	1
966	How Can Litter Modify the Fluxes of CO2 and CH4 from Forest Soils? A Mini-Review. Forests, 2021, 12, 1276.	0.9	8
967	Integrating forest residue and mineral fertilization: effects on nutrient acquisition, nutrient use efficiency and growth of eucalypt plants. Forest Ecology and Management, 2021, 496, 119461.	1.4	6
968	Warming reshaped the microbial hierarchical interactions. Global Change Biology, 2021, 27, 6331-6347.	4.2	81
969	Effect of Root and Mycelia on Fine Root Decomposition and Release of Carbon and Nitrogen Under Artemisia halodendron in a Semi-arid Sandy Grassland in China. Frontiers in Plant Science, 2021, 12, 698054.	1.7	2
970	Introducing Grasslands into Crop Rotations, a Way to Restore Microbiodiversity and Soil Functions. Agriculture (Switzerland), 2021, 11, 909.	1.4	3
971	Effects of Long-Term Enclosing on Vertical Distributions of Soil Physical Properties and Nutrient Stocks in Grassland of Inner Mongolia. Agronomy, 2021, 11, 1832.	1.3	3
972	Combined effects of land-use type and climate change on soil microbial activity and invertebrate decomposer activity. Agriculture, Ecosystems and Environment, 2021, 318, 107490.	2.5	13
973	Transport and transformation of water and nitrogen under different irrigation modes and urea application regimes in paddy fields. Agricultural Water Management, 2021, 255, 107024.	2.4	25
974	Fertilizing with composted cattle manure to meet agro-environmental targets in continuous corn and corn–soybean agroecosystems in southern Quebec. Canadian Journal of Soil Science, 2021, 101, 480-493.	0.5	0
975	Decomposition of peatland DOC affected by root exudates is driven by specific r and K strategic bacterial taxa. Scientific Reports, 2021, 11, 18677.	1.6	10
976	Soil amendments from recycled waste differently affect COâ,, soil emissions in restored mining soils under semiarid conditions. Journal of Environmental Management, 2021, 294, 112894.	3.8	13

#		IF	CITATIONS
π 	Plant carbon inputs through shoot, root, and mycorrhizal pathways affect soil organic carbon		CHAHONS
977	turnover differently. Soil Biology and Biochemistry, 2021, 160, 108322.	4.2	51
978	Dynamics of labile soil organic carbon during the development of mangrove and salt marsh ecosystems. Ecological Indicators, 2021, 129, 107875.	2.6	16
979	Changes in soil microbial communities and priming effects induced by rice straw pyrogenic organic matter produced at two temperatures. Geoderma, 2021, 400, 115217.	2.3	14
980	Potential hazards of biochar: The negative environmental impacts of biochar applications. Journal of Hazardous Materials, 2021, 420, 126611.	6.5	118
981	Response of subsurface C and N stocks dominates the whole-soil profile response to agricultural management practices in a cool, humid climate. Agriculture, Ecosystems and Environment, 2021, 320, 107590.	2.5	6
982	Optimizing stand density for climate-smart forestry: A way forward towards resilient forests with enhanced carbon storage under extreme climate events. Soil Biology and Biochemistry, 2021, 162, 108396.	4.2	11
983	The magnitude and direction of priming were driven by soil moisture and temperature in a temperate forest soil of China. Pedobiologia, 2021, 89, 150769.	0.5	13
984	Acclimation of coastal wetland vegetation to salinization results in the asymmetric response of soil respiration along an experimental precipitation gradient. Agricultural and Forest Meteorology, 2021, 310, 108626.	1.9	10
985	Sequestration of soil carbon by burying it deeper within the profile: A theoretical exploration of three possible mechanisms. Soil Biology and Biochemistry, 2021, 163, 108432.	4.2	19
986	Shift of microbial turnover time and metabolic efficiency strongly regulates rhizosphere priming effect under nitrogen fertilization in paddy soil. Science of the Total Environment, 2021, 800, 149590.	3.9	10
987	Organic amendments affect soil organic carbon sequestration and fractions in fields with long-term contrasting nitrogen applications. Agriculture, Ecosystems and Environment, 2021, 322, 107643.	2.5	20
988	Rhizosphere soil properties, microbial community, and enzyme activities: Short-term responses to partial substitution of chemical fertilizer with organic manure. Journal of Environmental Management, 2021, 299, 113650.	3.8	62
989	Crop yield-soil quality balance in double cropping in China's upland by organic amendments: A meta-analysis. Geoderma, 2021, 403, 115197.	2.3	34
990	Biochar-induced priming effects in soil via modifying the status of soil organic matter and microflora: A review. Science of the Total Environment, 2022, 805, 150304.	3.9	42
991	Spatial variation of particulate black carbon, and its sources in a large eutrophic urban lake in China. Science of the Total Environment, 2022, 803, 150057.	3.9	7
992	A deeper look at crop residue and soil warming impact on the soil C pools. Soil and Tillage Research, 2022, 215, 105192.	2.6	7
993	Forage Grasses Steer Soil Nitrogen Processes, Microbial Populations, and Microbiome Composition in A Long-term Tropical Agriculture System. Agriculture, Ecosystems and Environment, 2022, 323, 107688.	2.5	14
994	High N relative to C mineralization of clover leaves at low temperatures in two contrasting soils. Geoderma, 2022, 406, 115483.	2.3	4

#	Article	IF	CITATIONS
995	Drought legacies on soil respiration and microbial community in a Mediterranean forest soil under different soil moisture and carbon inputs. Geoderma, 2022, 405, 115425.	2.3	18
996	Enzymic moderations of bacterial and fungal communities on short- and long-term warming impacts on soil organic carbon. Science of the Total Environment, 2022, 804, 150197.	3.9	14
997	The importance of nutrients for microbial priming in a bog rhizosphere. Biogeochemistry, 2021, 152, 271-290.	1.7	4
998	Mycorrhizal type governs foliar and root multi-elemental stoichiometries of trees mainly via root traits. Plant and Soil, 2021, 460, 229-246.	1.8	10
999	Carbon Inputs From Riparian Vegetation Limit Oxidation of Physically Bound Organic Carbon Via Biochemical and Thermodynamic Processes. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 3188-3205.	1.3	58
1000	Soil fertility status controls the decomposition of litter mixture residues. Ecosphere, 2020, 11, e03237.	1.0	10
1001	Carbon Sequestration for Sustainable Agriculture. , 2019, , 469-500.		2
1002	Permafrost Carbon Quantities and Fluxes. , 2020, , 179-274.		2
1003	Microbial Extracellular Enzymes and the Degradation of Natural and Synthetic Polymers in Soil. , 2013, , 27-47.		3
1004	Soil Organic Matter Dynamics and Structure. Sustainable Agriculture Reviews, 2013, , 175-199.	0.6	11
1005	Ecosystem Carbon Sequestration. , 2013, , 39-62.		4
1006	Role of Microorganisms in Regulating Carbon Cycle in Tropical and Subtropical Soils. , 2020, , 249-263.		5
1007	Mechanisms of Plant Growth Promotion and Functional Annotation in Mitigation of Abiotic Stress. Microorganisms for Sustainability, 2020, , 105-150.	0.4	1
1008	Catch crop diversity increases rhizosphere carbon input and soil microbial biomass. Biology and Fertility of Soils, 2020, 56, 943-957.	2.3	31
1009	Grassland-cropland rotation cycles in crop-livestock farming systems regulate priming effect potential in soils through modulation of microbial communities, composition of soil organic matter and abiotic soil properties. Agriculture, Ecosystems and Environment, 2020, 299, 106973.	2.5	25
1010	Responses of soil organic carbon decomposition and microbial community to the addition of plant residues with different C:N ratio. European Journal of Soil Biology, 2017, 82, 50-55.	1.4	52
1011	Root herbivory and soil carbon cycling: Shedding "green―light onto a "brown―world. Soil Biology and Biochemistry, 2020, 150, 107972.	4.2	23
1012	Multiple elements of soil biodiversity drive ecosystem functions across biomes. Nature Ecology and Evolution, 2020, 4, 210-220.	3.4	543

#	Article	IF	CITATIONS
1015	The potential of ryegrass as cover crop to reduce soil <scp>N<sub>2</sub>O</scp> emissions and increase the population size of denitrifying bacteria. European Journal of Soil Science, 2021, 72, 1447-1461.	1.8	12
1016	Soil Properties and Development of Humus Forms in Pine and Oak Stands of Reclaimed Post-mining Sites in Lusatia: Infl uence of Lignite from Overburden Sediments and Dust Immissions. , 2013, , 77-98.		2
1017	Addition of External Organic Carbon and Native Soil Organic Carbon Decomposition: A Meta-Analysis. PLoS ONE, 2013, 8, e54779.	1.1	71
1018	Fungi Benefit from Two Decades of Increased Nutrient Availability in Tundra Heath Soil. PLoS ONE, 2013, 8, e56532.	1.1	21
1019	Negative Priming Effect on Organic Matter Mineralisation in NE Atlantic Slope Sediments. PLoS ONE, 2013, 8, e67722.	1.1	52
1020	Warming Reduces Carbon Losses from Grassland Exposed to Elevated Atmospheric Carbon Dioxide. PLoS ONE, 2013, 8, e71921.	1.1	53
1021	Priming Effects in Boreal Black Spruce Forest Soils: Quantitative Evaluation and Sensitivity Analysis. PLoS ONE, 2013, 8, e77880.	1.1	11
1022	Biochar from Sugarcane Filtercake Reduces Soil CO2 Emissions Relative to Raw Residue and Improves Water Retention and Nutrient Availability in a Highly-Weathered Tropical Soil. PLoS ONE, 2014, 9, e98523.	1.1	29
1023	Influence of Soil Moisture on Litter Respiration in the Semiarid Loess Plateau. PLoS ONE, 2014, 9, e114558.	1.1	6
1024	Pathways of Leymus chinensis Individual Aboveground Biomass Decline in Natural Semiarid Grassland Induced by Overgrazing: A Study at the Plant Functional Trait Scale. PLoS ONE, 2015, 10, e0124443.	1.1	24
1025	Effects of Short Term Bioturbation by Common Voles on Biogeochemical Soil Variables. PLoS ONE, 2015, 10, e0126011.	1.1	16
1026	In Situ Persistence and Migration of Biochar Carbon and Its Impact on Native Carbon Emission in Contrasting Soils under Managed Temperate Pastures. PLoS ONE, 2015, 10, e0141560.	1.1	45
1027	Coarse Woody Debris Increases Microbial Community Functional Diversity but not Enzyme Activities in Reclaimed Oil Sands Soils. PLoS ONE, 2015, 10, e0143857.	1.1	24
1028	Seasonality, Rather than Nutrient Addition or Vegetation Types, Influenced Short-Term Temperature Sensitivity of Soil Organic Carbon Decomposition. PLoS ONE, 2016, 11, e0153415.	1.1	11
1029	How a Root-Microbial System Regulates the Response of Soil Respiration to Temperature and Moisture in a Plantation. Polish Journal of Environmental Studies, 2018, 27, 2749-2756.	0.6	13
1030	Deposition and decomposition of litter in periods of grazing and rest of a tropical pasture under rotational grazing. Ciencia Rural, 2019, 49, .	0.3	4
1031	Compartimentos de carbono orgânico em Latossolo cultivado com hortaliças sob diferentes manejos. Pesquisa Agropecuaria Brasileira, 2016, 51, 378-387.	0.9	8
1032	Mucilage Facilitates Nutrient Diffusion in the Drying Rhizosphere. Vadose Zone Journal, 2019, 18, 1-13.	1.3	26

#	Article	IF	CITATIONS
1034	Microbial C-availability and organic matter decomposition in urban soils of megapolis depend on functional zoning. Soil and Environment, 2019, 38, 31-41.	1.1	25
1035	DOM and bacterial growth efficiency in oligotrophic groundwater: absence of priming and co-limitation by organic carbon and phosphorus. Aquatic Microbial Ecology, 2018, 81, 55-71.	0.9	41
1036	Root growth into litter layer and its impact on litter decomposition: a review. Chinese Journal of Plant Ecology, 2013, 36, 1197-1204.	0.3	3
1037	Effect of grazing enclosure on the priming effect and temperature sensitivity of soil C miner-alization in <i>Leymus chinensis</i> grasslands, Inner Mongolia, China. Chinese Journal of Plant Ecology, 2013, 36, 1226-1236.	0.3	1
1038	The manipulation of aboveground litter input affects soil CO2 efflux in a subtropical liquidambar forest in China. IForest, 2019, 12, 181-186.	0.5	8
1039	Insights into Ecological Effects of Invasive Plants on Soil Nitrogen Cycles. American Journal of Plant Sciences, 2015, 06, 34-46.	0.3	25
1048	The Effects of Climate Changes on The Distribution and Spread of Malaria in Sudan. American Journal of Environmental Engineering, 2012, 1, 15-20.	0.5	6
1049	Habitat fragmentation is linked to cascading effects on soil functioning and CO <sub>2</sub> emissions in Mediterranean holm-oak-forests. PeerJ, 2018, 6, e5857.	0.9	5
1050	Higher carbon sequestration potential and stability for deep soil compared to surface soil regardless of nitrogen addition in a subtropical forest. PeerJ, 2020, 8, e9128.	0.9	11
1051	Can the impact of canopy trees on soil and understory be altered using litter additions?. Ecological Applications, 2021, , e02477.	1.8	4
1052	Organic Amendments Alter Long-Term Turnover and Stability of Soil Carbon: Perspectives from a Data-Model Integration. Agronomy, 2021, 11, 2134.	1.3	0
1053	Antifungal Activity of Earthworm Coelomic Fluid Obtained from Eisenia andrei, Dendrobaena veneta and Allolobophora chlorotica on Six Species of Phytopathogenic Fungi. Environments - MDPI, 2021, 8, 102.	1.5	7
1054	In-situ 13CO2 labeling to trace carbon fluxes in plant-soil-microorganism systems: Review and methodological guideline. Rhizosphere, 2021, 20, 100441.	1.4	8
1055	Meta-analysis of the priming effect on native soil organic carbon in response to glucose amendment across soil depths. Plant and Soil, 2022, 479, 107-124.	1.8	11
1056	A starting guide to root ecology: strengthening ecological concepts and standardising root classification, sampling, processing and trait measurements. New Phytologist, 2021, 232, 973-1122.	3.5	216
1057	Carbon stocks in umbric ferralsols driven by plant productivity and geomorphic processes, not by mineral protection. Earth Surface Processes and Landforms, 2022, 47, 491-508.	1.2	5
1058	Nitrous Oxide Emission and Crop Yield in Arable Soil Amended with Bottom Ash. Agriculture (Switzerland), 2021, 11, 1012.	1.4	3
1059	Evaluation of denitrification and decomposition from three biogeochemical models using laboratory measurements of N <sub>2</sub> , N <sub>2</sub> O and CO <sub>2</sub> . Biogeosciences, 2021, 18, 5681-5697.	1.3	5

		CITATION RE	PORT	
#	Article		IF	Citations
1060	Effects of Serendipita indica inoculation of four wheat cultivars on hydraulic properties aggregate stability of a calcareous soil. Plant and Soil, 2021, 469, 347-367.	and	1.8	5
1061	Microbial community structure in rhizosphere soil rather than that in bulk soil character aggregate-associated organic carbon under long-term forest conversion in subtropical r Rhizosphere, 2021, 20, 100438.	izes egion.	1.4	10
1063	Soil as a support of biodiversity and functions , 2015, , 141-153.			0
1067	Experimental test of temperature and moisture controls on the rate of microbial decom soil organic matter: preliminary results. AIMS Geosciences, 2019, 5, 886-898.	position of	0.4	0
1068	Methane emission induced by short-chain organic acids in lowland soil. Revista Brasileir. Do Solo, 0, 43, .	a De Ciencia	0.5	2
1069	Biosynthetic Routing, Rates and Extents of Microbial Fertiliser Nitrogen Assimilation in Grassland Soils. Springer Theses, 2019, , 79-151.	Two Grazed	0.0	0
1070	A Case Study on the Dairy Project "Full Bucket―in Brazil: Socioeconomic and Envir Characteristics in Areas Under Its Guidelines. Journal of Agricultural Science, 2019, 11, 5	onmental 515.	0.1	0
1071	Biochar Application for Greenhouse Gases Mitigation. Green Energy and Technology, 20	20, , 39-68.	0.4	2
1072	Biochar: A New Environmental Paradigm in Management of Agricultural Soils and Mitiga Emission. , 2020, , 223-258.	ition of GHG		1
1073	Vegetation Change. , 2020, , 367-432.			0
1074	Hemicellulolytic bacteria in the anterior intestine of the earthworm Eisenia fetida (Sav.). the Total Environment, 2022, 806, 151221.	. Science of	3.9	2
1075	Water level regulates the rhizosphere priming effect on SOM decomposition of peatlan Rhizosphere, 2022, 21, 100455.	d soil.	1.4	9
1076	Decreased Soil Organic Carbon under Litter Input in Three Subalpine Forests. Forests, 2	021, 12, 1479.	0.9	13
1077	Effect of common bean (Phaseolus vulgaris) on apatite weathering under elevated CO2 Geology, 2020, 558, 119887.	. Chemical	1.4	1
1078	Labile carbon feedstocks trigger a priming effect in anaerobic digestion: An insight into mechanisms. Bioresource Technology, 2022, 344, 126243.	microbial	4.8	5
1079	Soil organic carbon content and mineralization controlled by the composition, origin an diversity of organic matter: A study in tropical alpine grasslands. Soil and Tillage Researd 105203.	d molecular th, 2022, 215,	2.6	22
1080	Efficiency of additional organic inputs for carbon sequestration in agricultural soils mod the priming effect and physical accessibility. Geoderma, 2022, 406, 115498.	ulated by	2.3	9
1081	Trade-off between microbial carbon use efficiency and microbial phosphorus limitation salinization in a tidal wetland. Catena, 2022, 209, 105809.	under	2.2	34

#	Article	IF	CITATIONS
1082	Biochar-Induced Priming Effects in Young and Old Poplar Plantation Soils. Phyton, 2020, 89, 13-26.	0.4	4
1083	No-Till Farming Systems for Sustaining Soil Health. , 2020, , 619-631.		0
1087	Short-Term Decomposition and Nutrient-Supplying Ability of Sewage Sludge Digestate, Digestate Compost, and Vermicompost on Acidic Sandy and Calcareous Loamy Soils. Agronomy, 2021, 11, 2249.	1.3	2
1088	Different N-fertilization sources affecting the native soil organic matter mineralization on Technosols under iron ore tailing. Revista Brasileira De Ciencia Do Solo, 2020, 45, .	0.5	1
1089	Distribution of soil organic matter fractions are altered with soil priming. Soil Biology and Biochemistry, 2022, 164, 108494.	4.2	16
1090	Measurements of fine root decomposition rate: Method matters. Soil Biology and Biochemistry, 2022, 164, 108482.	4.2	10
1091	Effects of vegetation presence on soil net N mineralization are independent of landscape position and vegetation type in an eroding watershed. Agriculture, Ecosystems and Environment, 2022, 325, 107743.	2.5	9
1092	Evolution CO2-C induced by plant-derived carbon soil input: Evaluation of the priming effect promoted by Meliaceae by-products. Applied Soil Ecology, 2022, 171, 104340.	2.1	0
1093	Temperature sensitivity of organic matter mineralization as affected by soil edaphic properties and substrate quality. Catena, 2022, 210, 105901.	2.2	3
1094	Effect of the combined addition of mineral nitrogen and crop residue on soil respiration, organic carbon sequestration, and exogenous nitrogen in stable organic matter. Applied Soil Ecology, 2022, 171, 104324.	2.1	19
1095	Effect of P availability on straw-induced priming effect was mainly regulated by fungi in croplands. Applied Microbiology and Biotechnology, 2021, 105, 9403-9418.	1.7	8
1096	Effects of technosols based on organic amendments addition for the recovery of the functionality of degraded quarry soils under semiarid Mediterranean climate: A field study. Science of the Total Environment, 2022, 816, 151572.	3.9	14
1097	Shelterbelt farmland-afforestation induced SOC accrual with higher temperature stability: Cross-sites 1Âm soil profiles analysis in NE China. Science of the Total Environment, 2022, 814, 151942.	3.9	10
1098	Microbial traits determine soil C emission in response to fresh carbon inputs in forests across biomes. Global Change Biology, 2022, 28, 1516-1528.	4.2	37
1099	Ectomycorrhizal Stands Accelerate Decomposition to a Greater Extent than Arbuscular Mycorrhizal Stands in a Northern Deciduous Forest. Ecosystems, 2022, 25, 1234-1248.	1.6	7
1100	Atividade microbiana no solo em sistema de produção consorciado. Research, Society and Development, 2021, 10, e534101422366.	0.0	0
1101	No CO2 fertilization effect on plant growth despite enhanced rhizosphere enzyme activity in a low phosphorus soil. Plant and Soil, 2022, 471, 359-374.	1.8	3
1102	Anaerobic primed CO2 and CH4 in paddy soil are driven by Fe reduction and stimulated by biochar. Science of the Total Environment, 2022, 808, 151911.	3.9	15

#	Article	IF	CITATIONS
1103	On the Below- and Aboveground Phenology in Deciduous Trees: Observing the Fine-Root Lifespan, Turnover Rate, and Phenology of Fagus sylvatica L., Quercus robur L., and Betula pendula Roth for Two Growing Seasons. Forests, 2021, 12, 1680.	0.9	5
1104	Impacts of The Wetland Sedge Carex aquatilis on Microbial Community and Methane Metabolisms. Plant and Soil, 2022, 471, 491.	1.8	2
1105	Soil properties and substrate quality determine the priming of soil organic carbon during vegetation succession. Plant and Soil, 2022, 471, 559-575.	1.8	12
1106	Long-term bare fallow soil reveals the temperature sensitivity of priming effect of the relatively stabilized soil organic matter. Plant and Soil, 2023, 488, 57-70.	1.8	1
1107	The fate of carbon in check dam sediments. Earth-Science Reviews, 2022, 224, 103889.	4.0	15
1108	Biocrust as a nature-based strategy (NbS) to restore the functionality of degraded soils in semiarid rainfed alfalfa (Medicago sativa L.) field. Journal of Cleaner Production, 2022, 336, 130378.	4.6	6
1109	Priming effect and its regulating factors for fast and slow soil organic carbon pools: A meta-analysis. Pedosphere, 2022, 32, 140-148.	2.1	16
1110	The influence of sucrose on soil nitrogen availability – A root exudate simulation using microdialysis. Geoderma, 2022, 409, 115645.	2.3	7
1111	Negative priming of soil organic matter following long-term in situ warming of sub-arctic soils. Geoderma, 2022, 410, 115652.	2.3	10
1112	Sheep grazing as a strategy to manage cover crops in Mediterranean vineyards: Short-term effects on soil C, N and greenhouse gas (N2O, CH4, CO2) emissions. Agriculture, Ecosystems and Environment, 2022, 327, 107825.	2.5	15
1113	Carbon mineralization in subtropical alluvial arable soils amended with sugarcane bagasse and rice husk biochars. Pedosphere, 2022, 32, 475-486.	2.1	6
1114	Removal of chromophoric dissolved organic matter under combined photochemical and microbial degradation as a response to different irradiation intensities. Journal of Environmental Sciences, 2022, 118, 76-86.	3.2	5
1116	Adding intercropped maize and faba bean root residues increases phosphorus bioavailability in a calcareous soil due to organic phosphorus mineralization. Plant and Soil, 2022, 476, 201-218.	1.8	6
1117	Synergy between compost and cover crops in a Mediterranean row crop system leads to increased subsoil carbon storage. Soil, 2022, 8, 59-83.	2.2	4
1118	Response of Crop Types and Farming Practices on Soil Microbial Biomass and Community Structure in Tropical Agroecosystem by Lipid Biomarkers. Journal of Soil Science and Plant Nutrition, 0, , 1.	1.7	3
1119	Response of Winter Wheat (Triticum aestivum L.) to Fertilizers with Nitrogen-Transformation Inhibitors and Timing of Their Application under Field Conditions. Agronomy, 2022, 12, 223.	1.3	7
1120	Contrasting Impacts of Photochemical and Microbial Processing on the Photoreactivity of Dissolved Organic Matter in an Adirondack Lake Watershed. Environmental Science & amp; Technology, 2022, 56, 1688-1701.	4.6	14
1121	Exchangeable Ca2+ content and soil aggregate stability control the soil organic carbon content in degraded Horqin grassland. Ecological Indicators, 2022, 134, 108507.	2.6	12

#	Article	IF	CITATIONS
1122	Soil organic matter formation, persistence, and functioning: A synthesis of current understanding to inform its conservation and regeneration. Advances in Agronomy, 2022, , 1-66.	2.4	99
1123	13C Labelling of Litter Added to Tea (Camellia sinensis L.) Plantation Soil Reveals a Significant Positive Priming Effect That Leads to Less Soil Organic Carbon Accumulation. Agronomy, 2022, 12, 293.	1.3	4
1124	The role of terrestrial productivity and hydrology in regulating aquatic dissolved organic carbon concentrations in boreal catchments. Global Change Biology, 2022, 28, 2764-2778.	4.2	8
1125	Testing the environmental controls of microbial nitrogen-mining induced by semi-continuous labile carbon additions in the subarctic. Soil Biology and Biochemistry, 2022, 166, 108562.	4.2	12
1126	Soil pore architecture and rhizosphere legacy define N2O production in root detritusphere. Soil Biology and Biochemistry, 2022, 166, 108565.	4.2	16
1127	Rhizosphere effects on soil organic carbon processes in terrestrial ecosystems: A meta-analysis. Geoderma, 2022, 412, 115739.	2.3	24
1128	Co-application of biochar and organic fertilizer promotes the yield and quality of red pitaya (Hylocereus polyrhizus) by improving soil properties. Chemosphere, 2022, 294, 133619.	4.2	26
1129	Network analysis reveals bacterial and fungal keystone taxa involved in straw and soil organic matter mineralization. Applied Soil Ecology, 2022, 173, 104395.	2.1	26
1131	Sugarcane residue and N-fertilization effects on soil GHG emissions in south-central, Brazil. Biomass and Bioenergy, 2022, 158, 106342.	2.9	7
1132	Microbial Necromass in Soils—Linking Microbes to Soil Processes and Carbon Turnover. Frontiers in Environmental Science, 2021, 9, .	1.5	53
1133	Substrate diversity affects carbon utilization rate and threshold concentration for uptake by natural bacterioplankton communities. Aquatic Microbial Ecology, 2022, 88, 95-108.	0.9	1
1134	Trends in Microbial Community Composition and Function by Soil Depth. Microorganisms, 2022, 10, 540.	1.6	62
1135	Effects of 7 Years of Warming and Straw Application on Soil Bacterial, Fungal, and Archaeal Community Compositions and Diversities in a Crop Field. Journal of Soil Science and Plant Nutrition, 2022, 22, 2266-2281.	1.7	5
1136	Positive Priming Effects Induced by Allochthonous and Autochthonous Organic Matter Input in the Lake Sediments With Different Salinity. Geophysical Research Letters, 2022, 49, .	1.5	6
1137	Priming effect in semi-arid soils of northern Ethiopia under different land use types. Biogeochemistry, 2022, 158, 383-403.	1.7	4
1138	Root exudate chemistry affects soil carbon mobilization via microbial community reassembly. Fundamental Research, 2022, 2, 697-707.	1.6	41
1139	Advancing the mechanistic understanding of the priming effect on soil organic matter mineralisation. Functional Ecology, 2022, 36, 1355-1377.	1.7	69
1140	Low N apparent surplus with higher rice yield under long-term fertilizer postponing in the rice–wheat cropping system. Crop Journal, 2022, 10, 1178-1186.	2.3	13

#	Article	IF	CITATIONS
1141	Three-Year Experience of Kidney Transplantation at a Single Center in Uzbekistan. Experimental and Clinical Transplantation, 2022, 20, 24-30.	0.2	2
1142	Increases in temperature response to CO2 emissions in biochar-amended vegetable field soil. Environmental Science and Pollution Research, 2022, 29, 50895-50905.	2.7	2
1143	Nutrient Release from Vermicompost under Anaerobic Conditions in Two Contrasting Soils of Bangladesh and Its Effect on Wetland Rice Crop. Agriculture (Switzerland), 2022, 12, 376.	1.4	9
1144	A Longitudinal Study of the Microbial Basis of Nitrous Oxide Emissions Within a Long-Term Agricultural Experiment. Frontiers in Agronomy, 2022, 4, .	1.5	3
1145	Multiple resource limitation of dryland soil microbial carbon cycling on the Colorado Plateau. Ecology, 2022, 103, e3671.	1.5	10
1146	Soil Organic Carbon and Nutrients Affected by Tree Species and Poultry Litter in a 17-Year Agroforestry Site. Agronomy, 2022, 12, 641.	1.3	8
1147	Applying cover crop residues as diverse mixtures increases initial microbial assimilation of crop residueâ€derived carbon. European Journal of Soil Science, 2022, 73, .	1.8	6
1148	The Impacts of Black Soldier Fly Frass on Nitrogen Availability, Microbial Activities, C Sequestration, and Plant Growth. Frontiers in Sustainable Food Systems, 2022, 6, .	1.8	12
1149	Short-term effects of labile organic C addition on soil microbial response to temperature in a temperate steppe. Soil Biology and Biochemistry, 2022, 167, 108589.	4.2	11
1150	Soil metabolomics and bacterial functional traits revealed the responses of rhizosphere soil bacterial community to long-term continuous cropping of Tibetan barley. PeerJ, 2022, 10, e13254.	0.9	11
1151	Plant–microbial competition for amino acids depends on soil acidity and the microbial community. Plant and Soil, 2022, 475, 457-471.	1.8	7
1152	Effect of bacterial cell addition on Fe(III) reduction and soil organic matter transformation in a farmland soil. Geochimica Et Cosmochimica Acta, 2022, 325, 25-38.	1.6	11
1153	Changes in soil organic carbon stocks from reducing irrigation can be offset by applying organic fertilizer in the North China Plain. Agricultural Water Management, 2022, 266, 107539.	2.4	10
1154	Antibacterial and compostable polymers derived from biobased itaconic acid as environmentally friendly additives for biopolymers. Polymer Testing, 2022, 109, 107541.	2.3	13
1155	Warming offsets the beneficial effect of elevated CO2 on maize plant-carbon accumulation in particulate organic carbon pools in a Mollisol. Catena, 2022, 213, 106219.	2.2	6
1156	Microbial community structure and functional genes drive soil priming effect following afforestation. Science of the Total Environment, 2022, 825, 153925.	3.9	15
1157	Aging behavior of microplastics affected DOM in riparian sediments: From the characteristics to bioavailability. Journal of Hazardous Materials, 2022, 431, 128522.	6.5	42
1158	Regional-scale evidence that determinants of soil microbial biomass and N mineralization depend on sampling depth and layer on the Mongolian Plateau. Catena, 2022, 213, 106180.	2.2	4

#	Article	IF	CITATIONS
1159	lsotopic assessment of soil N2O emission from a sub-tropical agricultural soil under varying N-inputs. Science of the Total Environment, 2022, 827, 154311.	3.9	3
1160	Patterns and drivers of the degradability of dissolved organic matter in dryland soils on the Tibetan Plateau. Journal of Applied Ecology, 2022, 59, 884-894.	1.9	5
1162	Variation of Soil Organic Carbon Density with Plantation Age and Initial Vegetation Types in the Liupan Mountains Areas of Northwest China. Forests, 2021, 12, 1811.	0.9	2
1163	Effect of Climate Change on CO2 Flux in Temperate Grassland, Subtropical Artificial Coniferous Forest and Tropical Rain Forest Ecosystems. International Journal of Environmental Research and Public Health, 2021, 18, 13056.	1.2	1
1164	Substitution of Chemical Fertilizer with Organic Fertilizer Affects Soil Total Nitrogen and Its Fractions in Northern China. International Journal of Environmental Research and Public Health, 2021, 18, 12848.	1.2	12
1165	Flux of Root-Derived Carbon into the Nematode Micro-Food Web: A Comparison of Grassland and Agroforest. Agronomy, 2022, 12, 976.	1.3	0
1166	Faster carbon turnover in topsoil with straw addition is less beneficial to carbon sequestration than subsoil and mixed soil. Soil Science Society of America Journal, 2022, 86, 1431-1443.	1.2	9
1167	Stoichiometric regulation of priming effects and soil carbon balance by microbial life strategies. Soil Biology and Biochemistry, 2022, 169, 108669.	4.2	45
1168	Dynamic changes in bacterial community structure are associated with distinct priming effect patterns. Soil Biology and Biochemistry, 2022, 169, 108671.	4.2	37
1169	Crop residues differ in their decomposition dynamics: Review of available data from world literature. Geoderma, 2022, 419, 115855.	2.3	11
1184	Differences in the Contribution of Soil Microbial Necromass to Mineral-Associated Organic Carbon (Maoc) Formation During the Transformation Process of Plant Residues to Soil Organic Matter. SSRN Electronic Journal, 0, , .	0.4	0
1185	Priming of rhizobial nodulation signaling in the mycosphere accelerates nodulation of legume hosts. New Phytologist, 2022, 235, 1212-1230.	3.5	6
1186	Drivers of Soil Respiration and Nitrogen Mineralization Change after Litter Management at a Subtropical Chinese Sweetgum Tree Plantation. Soil Use and Management, 0, , .	2.6	2
1187	New methods for new questions about rhizosphere/plant root interactions. Plant and Soil, 2022, 476, 699-712.	1.8	9
1188	The global biogeography of soil priming effect intensity. Global Ecology and Biogeography, 2022, 31, 1679-1687.	2.7	15
1189	Winter cover crops increased nitrogen availability and efficient use during eight years of intensive organic vegetable production. PLoS ONE, 2022, 17, e0267757.	1.1	4
1190	Microbial necromass carbon and nitrogen persistence are decoupled in agricultural grassland soils. Communications Earth & Environment, 2022, 3, .	2.6	11
1191	Soil Carbon Sequestration Potential of Terrestrial Ecosystems: Trends And Soil Priming Effects. Current World Environment Journal, 2022, 17, 161-170.	0.2	2

#	Article	IF	CITATIONS
1192	The response of soil-atmosphere greenhouse gas exchange to changing plant litter inputs in terrestrial forest ecosystems. Science of the Total Environment, 2022, 838, 155995.	3.9	6
1193	Soil P availability and mycorrhizal type determine root exudation in sub-tropical forests. Soil Biology and Biochemistry, 2022, 171, 108722.	4.2	9
1194	Differences in the Contribution of Soil Microbial Necromass to Mineral-Associated Organic Carbon (Maoc) Formation During the Transformation Process of Plant Residues to Soil Organic Matter. SSRN Electronic Journal, 0, , .	0.4	0
1195	Translocating Subsoil to the Surface Suggests Independent Effects of Physical Conditions and Plant Growth on Microbial Access to Soil Carbon. SSRN Electronic Journal, 0, , .	0.4	0
1196	Determinants of Carbon and Nitrogen Sequestration in Multistrata Agroforestry. SSRN Electronic Journal, 0, , .	0.4	0
1197	Dynamics of soil N cycling and its response to vegetation presence in an eroding watershed of the Chinese Loess Plateau. Agriculture, Ecosystems and Environment, 2022, 336, 108020.	2.5	6
1198	Estimating the Temperature Optima of Soil Priming. SSRN Electronic Journal, 0, , .	0.4	0
1199	Differential Responses of Soil Extracellular Enzyme Activities to Salinization: Implications for Soil Carbon Cycling in Tidal Wetlands. Global Biogeochemical Cycles, 2022, 36, .	1.9	11
1200	Soil Moisture Affects the Rapid Response of Microbes to Labile Organic C Addition. Frontiers in Ecology and Evolution, 0, 10, .	1.1	8
1201	Global pattern of soil priming effect intensity and its environmental drivers. Ecology, 2022, 103, .	1.5	14
1202	High initial soil organic matter level combined with aboveground plant residues increased microbial carbon use efficiency but accelerated soil priming effect. Biogeochemistry, 2022, 160, 1-15.	1.7	7
1203	Impacts of graphitic nanofertilizers on nitrogen cycling in a sandy, agricultural soil. Journal of Nanoparticle Research, 2022, 24, .	0.8	4
1204	A Model of the Spatiotemporal Dynamics of Soil Carbon Following Coastal Wetland Loss Applied to a Louisiana Salt Marsh in the Mississippi River Deltaic Plain. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	2
1205	Quantifying the fate of nitrogen from cereal rye root and shoot biomass using 15N. Nutrient Cycling in Agroecosystems, 2023, 125, 219-234.	1.1	6
1206	Effect of Shrub Encroachment on Alpine Grass Soil Microbial Community Assembly. Frontiers in Soil Science, 0, 2, .	0.8	1
1207	Millimetre scale aeration of the rhizosphere and drilosphere. European Journal of Soil Science, 2022, 73, .	1.8	3
1208	Ecoenzymatic stoichiometry reveals stronger microbial carbon and nitrogen limitation in biochar amendment soils: A meta-analysis. Science of the Total Environment, 2022, 838, 156532.	3.9	16
1209	Linkages between the temperature sensitivity of soil respiration and microbial life strategy are dependent on sampling season. Soil Biology and Biochemistry, 2022, 172, 108758.	4.2	30

#	Article	IF	CITATIONS
1210	Diversity patterns and drivers of soil bacterial and fungal communities along elevational gradients in the Southern Himalayas, China. Applied Soil Ecology, 2022, 178, 104563.	2.1	16
1211	Perspectives and strategies to increase the microbial-derived soil organic matter that persists in agroecosystems. Advances in Agronomy, 2022, , 347-401.	2.4	8
1212	Long-Term Nitrogen and Straw Application Improves Wheat Production and Soil Organic Carbon Sequestration. Journal of Soil Science and Plant Nutrition, 2022, 22, 3364-3376.	1.7	2
1213	Cover Crop Effects on Soil N Retention and Supply in Fertilizer-Intensive Cropping Systems (A Review). Eurasian Soil Science, 2022, 55, 1278-1294.	0.5	3
1214	Body size determines multitrophic soil microbiota community assembly associated with soil and plant attributes in a tropical seasonal rainforest. Molecular Ecology, 2023, 32, 6294-6303.	2.0	6
1215	Soil Microbial and Organic Carbon Legacies of Pre-Existing Plants Drive Pioneer Tree Growth during Subalpine Forest Succession. Forests, 2022, 13, 1110.	0.9	4
1216	Rhizosphere Effects along an Altitudinal Gradient of the Changbai Mountain, China. Forests, 2022, 13, 1104.	0.9	1
1217	Effects of Slow Pyrolysis Biochar on CO2 Emissions from Two Soils under Anaerobic Conditions. Agriculture (Switzerland), 2022, 12, 1028.	1.4	1
1218	Different factors control organic matter degradation in bulk and rhizosphere soil from the top- and subsoils of three forest stands. Soil Biology and Biochemistry, 2022, 172, 108775.	4.2	6
1219	Biochar induces mineralization of soil recalcitrant components by activation of biochar responsive bacteria groups. Soil Biology and Biochemistry, 2022, 172, 108778.	4.2	34
1220	Nitrogen addition and defoliation alter belowground carbon allocation with consequences for plant nitrogen uptake and soil organic carbon decomposition. Science of the Total Environment, 2022, 846, 157430.	3.9	5
1221	Parâmetros microbiológicos do solo em sistema de produção consorciado sob manejo orgânico. Research, Society and Development, 2022, 11, e237111032643.	0.0	0
1222	Are soil carbon and nitrogen stocks at steady state despite introducing grass and legumes to soybean and maize production system?. Nutrient Cycling in Agroecosystems, 2022, 124, 35-57.	1.1	1
1223	Carbon fluxes within tree-crop-grass agroforestry system: 13C field labeling and tracing. Biology and Fertility of Soils, 2022, 58, 733-743.	2.3	10
1224	Determinants of carbon and nitrogen sequestration in multistrata agroforestry. Science of the Total Environment, 2022, 851, 158185.	3.9	1
1225	Semi-continuous C supply reveals that priming due to N-mining is driven by microbial growth demands in temperate forest plantations. Soil Biology and Biochemistry, 2022, 173, 108802.	4.2	8
1226	Humification evaluation and carbon recalcitrance of a rapid thermochemical digestate fertiliser from degradable solid waste for climate change mitigation in the tropics. Science of the Total Environment, 2022, 849, 157752.	3.9	1
1227	Effects of long-term enclosing on distributions of carbon and nitrogen in semia-arid grassland of Inner Mongolia. Ecological Informatics, 2022, 71, 101762.	2.3	3

#	Article	IF	CITATIONS
1228	Exploring the control of earthworm cast macro- and micro-scale features on soil organic carbon mineralization across species and ecological categories. Geoderma, 2022, 427, 116151.	2.3	11
1229	Organic carbon and nitrogen accumulation in orchard soil with organic fertilization and cover crop management: A global meta-analysis. Science of the Total Environment, 2022, 852, 158402.	3.9	12
1230	Abiotic Interactions of Biochar and Compost During Their Blending May Reduce Biochar Thermal Stability. SSRN Electronic Journal, 0, , .	0.4	1
1231	Global patterns of rhizosphere effects on soil carbon and nitrogen biogeochemical processes. Catena, 2023, 220, 106661.	2.2	6
1232	Legumes can increase the yield of subsequent wheat with or without grain harvesting compared to Gramineae crops: A meta-analysis. European Journal of Agronomy, 2023, 142, 126643.	1.9	6
1233	Partitioning of root respiration into growth, maintenance, and ion uptake components in a young larch-dominated forest. Plant and Soil, 0, , .	1.8	1
1234	The use of stable carbon isotopes to decipher global change effects on soil organic carbon: present status, limitations, and future prospects. Biogeochemistry, 2022, 160, 315-354.	1.7	3
1235	Advancing the science and practice of ecological nutrient management for smallholder farmers. Frontiers in Sustainable Food Systems, 0, 6, .	1.8	12
1236	The role of cover crops in improving soil fertility and plant nutritional status in temperate climates. A review. Agronomy for Sustainable Development, 2022, 42, .	2.2	53
1237	13C-Labeled Artificial Root Exudates Are Immediately Respired in a Peat Mesocosm Study. Diversity, 2022, 14, 735.	0.7	2
1238	Mineral N suppressed priming effect while increasing microbial C use efficiency and N2O production in sandy soils under long-term conservation management. Biology and Fertility of Soils, 2022, 58, 903-915.	2.3	11
1239	The effects of glucose addition and water table manipulation on peat quality of drained peatland forests with different management practices. Soil Science Society of America Journal, 2022, 86, 1625-1638.	1.2	3
1240	Plant litter chemistry controls coarseâ€ŧextured soil carbon dynamics. Journal of Ecology, 2022, 110, 2911-2928.	1.9	12
1241	Soil Respiration Is Influenced by Seasonality, Forest Succession and Contrasting Biophysical Controls in a Tropical Dry Forest in Northwestern Mexico. Soil Systems, 2022, 6, 75.	1.0	5
1242	Contrasting effects of maize litter and litter-derived biochar on the temperature sensitivity of paddy soil organic matter decomposition. Frontiers in Microbiology, 0, 13, .	1.5	0
1243	A synthesis of soil organic carbon mineralization in response to biochar amendment. Soil Biology and Biochemistry, 2022, 175, 108851.	4.2	7
1244	Bacterial community in soil and tree roots of <i>Picea abies</i> shows little response to clearcutting. FEMS Microbiology Ecology, 2022, 98, .	1.3	0
1245	Can microplastics mediate soil properties, plant growth and carbon/nitrogen turnover in the terrestrial ecosystem?. Ecosystem Health and Sustainability, 2022, 8, .	1.5	14

#	Article	IF	CITATIONS
1246	Microbial nutrient limitation in rhizosphere soils of different food crop families: Evidence from ecoenzymatic stoichiometry. Land Degradation and Development, 2023, 34, 1019-1034.	1.8	7
1247	Modeling nitrous oxide emissions from agricultural soil incubation experiments using CoupModel. Biogeosciences, 2022, 19, 4811-4832.	1.3	3
1248	Tea-Soybean Intercropping Improves Tea Quality and Nutrition Uptake by Inducing Changes of Rhizosphere Bacterial Communities. Microorganisms, 2022, 10, 2149.	1.6	10
1249	Rapid improvement in soil health following the conversion of abandoned farm fields to annual or perennial agroecosystems. Frontiers in Sustainable Food Systems, 0, 6, .	1.8	5
1250	Evaluation of the Effects of Returning Apple Shoots In Situ on Soil Quality in an Apple Orchard. Agronomy, 2022, 12, 2645.	1.3	0
1251	Optimized Fertilization Practices Improved Rhizosphere Soil Chemical and Bacterial Properties and Fresh Waxy Maize Yield. Metabolites, 2022, 12, 935.	1.3	1
1252	Long-term continuous farmyard manure application increases soil carbon when combined with mineral fertilizers due to lower priming effects. Geoderma, 2022, 428, 116216.	2.3	17
1253	Comparing Vertical Change in Riverine, Bayside, and Barrier Island Wetland Soils in Response to Acute and Chronic Disturbance in Apalachicola Bay, FL. Estuaries and Coasts, 0, , .	1.0	2
1254	Absolute microbiome profiling highlights the links among microbial stability, soil health, and crop productivity under long-term sod-based rotation. Biology and Fertility of Soils, 2022, 58, 883-901.	2.3	7
1255	Tapping into Plant–Microbiome Interactions through the Lens of Multi-Omics Techniques. Cells, 2022, 11, 3254.	1.8	11
1256	Steering restoration of coal mining degraded ecosystem to achieve sustainable development goal-13 (climate action): United Nations decade of ecosystem restoration (2021–2030). Environmental Science and Pollution Research, 2022, 29, 88383-88409.	2.7	9
1257	Frequent carbon input primes decomposition of decadal soil organic matter. Soil Biology and Biochemistry, 2022, 175, 108850.	4.2	16
1258	Self-sustainable nutrient recovery associated to power generation from livestock's urine using plant-based bio-batteries. Fuel, 2023, 332, 126252.	3.4	10
1259	Soil microbial community structure dynamics shape the rhizosphere priming effect patterns in the paddy soil. Science of the Total Environment, 2023, 857, 159459.	3.9	12
1260	Estimating the temperature optima of soil priming. Soil Biology and Biochemistry, 2023, 176, 108879.	4.2	3
1261	Native soil labile organic matter influences soil priming effects. Applied Soil Ecology, 2023, 182, 104732.	2.1	4
1262	Bedrock outcrops weakly promote rather than inhibit soil carbon sequestration after vegetation restoration. Science of the Total Environment, 2023, 858, 159470.	3.9	4
1263	Phosphorus and water supply independently control productivity and soil enzyme activity responses to elevated CO2 in an understorey community from a Eucalyptus woodland. Plant and Soil, 0, , .	1.8	0

ARTICLE IF CITATIONS Moderating carbon dynamics in black soil by combined application of biochar and an artificial humic 1264 1.8 6 substance. Land Degradation and Development, 2023, 34, 1352-1362. Warming causes variability in SOM decomposition in N―and Pâ€fertilizerâ€treated topsoil in a subtropical 1.8 coniferous plantation. European Journal of Soil Science, 0, , . Heavy thinning temporally reduced soil carbon storage by intensifying soil microbial phosphorus 1266 1.8 6 limitation. Plant and Soil, 2023, 484, 33-48. Simulating long-term responses of soil organic matter turnover to substrate stoichiometry by abstracting fast and small-scale microbial processes: the Soil Enzyme Steady Allocation Model (SESAM; v3.0). Geoscientific Model Development, 2022, 15, 8377-8393. 1267 1.3 Response of bacterial communities to shrub encroachment and forage planting in alpine grassland of 1268 1.6 1 the Qinghai-Tibetan Plateau. Ecological Engineering, 2023, 186, 106837. Species shifts induce soil organic matter priming and changes in microbial communities. Science of the Total Environment, 2023, 859, 159956. Subsurface Soil Carbon and Nitrogen Losses Offset Surface Carbon Accumulation in Abandoned 1270 1.6 1 Agricultural Fields. Ecosystems, 2023, 26, 924-935. Effects of fertilization and dry-season irrigation on the timber production and carbon storage in 1271 2.5 subtropical Eucalyptus plantations. Industrial Crops and Products, 2023, 192, 116143. 1272 Grasslands. Landscape Series, 2022, , 349-374. 0.1 0 Combined legume and non-legume residues management improve soil organic matter on an Oxisol in Brazil. Revista Brasileira De Ciencia Do Solo, 2022, 46, . Preferential substrate use decreases priming effects in contrasting treeline soils. Biogeochemistry, 1274 3 1.7 2023, 162, 141-161. Short-term responses of root traits and carbon exudation to drought in a Larix gmelinii plantation. 1.8 Plant and Soil, 2023, 484, 393-405. Strong Responses of Soil Greenhouse Gas Fluxes to Litter Manipulation in a Boreal Larch Forest, 1277 0.9 1 Northeastern China. Forests, 2022, 13, 1985. Nitrogen and Carbon Mineralization from Green and Senesced Leaf Litter Differ between Cycad and 1278 1.3 Angiosperm Trees. Biology, 2022, 11, 1758. Root exudation of carbon and nitrogen compounds varies over the day–night cycle in pea: The role of 1279 2.8 1 diurnal changes in internal pools. Plant, Cell and Environment, 2023, 46, 962-974. Enhanced carbon, nitrogen and associated bacterial community compositional complexity, stability, evenness, and differences within the tree-soils of Inga punctata along an age gradient of planted trees 1.8 in reforestation plots. Plant and Soil, 2023, 484, 327-346. An exotic plant successfully invaded as a passenger driven by light availability. Frontiers in Plant 1281 1.7 0 Science, 0, 13, . Labile carbon input and temperature effects on soil organic matter turnover in subtropical forests. Ecological Indicators, 2022, 145, 109726.

#	Article	IF	Citations
1283	Homeâ€field advantage meets priming effect in root decomposition: Implications for belowground carbon dynamics. Functional Ecology, 2023, 37, 676-689.	1.7	7
1284	CO2 Emissions in Layered Cranberry Soils under Simulated Warming. Soil Systems, 2023, 7, 3.	1.0	0
1285	Study of the Interaction of Dissolved Organic Carbon, Available Nutrients, and Clay Content Driving Soil Carbon Storage in the Rice Rotation Cropping System in Northern Thailand. Agronomy, 2023, 13, 142.	1.3	1
1287	CO2 concentration and water availability alter the organic acid composition of root exudates in native Australian species. Plant and Soil, 2023, 485, 507-524.	1.8	0
1288	Soil Microbial Community and Climate Change Drivers. Climate Change Management, 2023, , 111-120.	0.6	1
1289	Continuous-cropping-tolerant soybean cultivars alleviate continuous cropping obstacles by improving structure and function of rhizosphere microorganisms. Frontiers in Microbiology, 0, 13, .	1.5	3
1290	Burning questions: How do soil microbes shape ecosystem biogeochemistry in the context of global change?. Environmental Microbiology, 0, , .	1.8	4
1291	Soil depth as a driver of microbial and carbon dynamics in a planted forest ( <i>Pinus radiata</i> ) pumice soil. Soil, 2023, 9, 55-70.	2.2	2
1292	Plant Traits and Phylogeny Predict Soil Carbon and Nutrient Cycling in Mediterranean Mixed Forests. Ecosystems, 2023, 26, 1047-1060.	1.6	1
1293	Grass rather than legume species decreases soil organic matter decomposition with nutrient addition. Soil Biology and Biochemistry, 2023, 177, 108936.	4.2	1
1294	Biochar application can mitigate NH3 volatilization in acidic forest and upland soils but stimulates gaseous N losses in flooded acidic paddy soil. Science of the Total Environment, 2023, 864, 161099.	3.9	7
1295	Strong rhizosphere priming effects on N dynamics in soils with higher soil N supply capacity: The â€~Matthew effect' in plant-soil systems. Soil Biology and Biochemistry, 2023, 178, 108949.	4.2	9
1296	Responses of soil carbon dynamics to precipitation and land use in an Inner Mongolian grassland. Plant and Soil, 2023, 491, 85-100.	1.8	4
1297	Microplastics affect activity and spatial distribution of C, N, and P hydrolases in rice rhizosphere. Soil Ecology Letters, 2023, 5, .	2.4	13
1298	Mineral weathering isÂlinked to microbial priming in the critical zone. Nature Communications, 2023, 14, .	5.8	16
1299	Root Exudates Mediate the Processes of Soil Organic Carbon Input and Efflux. Plants, 2023, 12, 630.	1.6	12
1300	Root exclusion methods for partitioning of soil respiration: Review and methodological considerations. Pedosphere, 2023, 33, 683-699.	2.1	6
1301	Contributions of plant breeding to soil carbon storage: Retrospect and prospects. Crop Science, 2023, 63, 990-1018.	0.8	4

ARTICLE IF CITATIONS Exogenous Organic C Inputs Profit Soil C Sequestration Under Different Long-Term N Addition Levels 1302 1.7 1 in a Boreal Forest. Journal of Soil Science and Plant Nutrition, 0, , . Modeling strategies and data needs for representing coastal wetland vegetation in land surface 1304 3.5 models. New Phytologist, 2023, 238, 938-951. Transition of spatio-temporal distribution of soil enzyme activity after straw incorporation: From 1305 2.1 11 rhizosphere to detritusphere. Applied Soil Ecology, 2023, 186, 104814. Effects of nitrogen and phosphorus fertilization on soil organic matter priming and net carbon 1306 1.8 balance in alpine meadows. Land Degradation and Development, 2023, 34, 2681-2692. Influences of plant traits on the retention and redistribution of bioavailable nitrogen within the 1307 2.3 3 plant-soil system. Geoderma, 2023, 432, 116380. Iron–organic carbon associations stimulate carbon accumulation in paddy soils by decreasing soil 1308 4.2 organic carbon priming. Soil Biology and Biochemistry, 2023, 179, 108972. Positive priming effects through microbial P-mining in tropical forest soils under 1309 0.8 0 N<sub>2</sub>-fixing trees. Soil Science and Plant Nutrition, 0, , 1-6. Nitrogen addition decreases the soil cumulative priming effect and favours soil net carbon gains in 1310 2.3 Robinia pseudoacacia plantation soil. Geoderma, 2023, 433, 116444. Predominance of positive priming effects induced by algal and terrestrial organic matter input in 1311 1.6 1 saline lake sediments. Geochimica Et Cosmochimica Acta, 2023, 349, 126-134. The role of hydroponic microbial fuel cell in the reduction of methane emission from rice plants. 2.6 Electrochimica Acta, 2023, 450, 142229. Long-term fertilizer postponing increases soil carbon sequestration by changing microbial composition in paddy soils: A I3CO2 labelling and PLFA study. Soil Biology and Biochemistry, 2023, 180, 1313 4.2 0 108996. Enzyme activities and organic matter mineralization in response to application of gypsum, manure and 3.7 rice straw in saline and sodic soils. Environmental Research, 2023, 224, 115393. Biochar soil amendment as carbon farming practice in a Mediterranean environment. Geoderma 1315 0.9 1 Regional, 2023, 33, e00634. An overlooked soil carbon pool in vegetated coastal ecosystems: National-scale assessment of soil organic carbon stocks in coastal shelter forests of China. Science of the Total Environment, 2023, 876, 162823. Variations in the soil micro-food web structure and its relationship with soil C and N mineralization 1317 3.9 4 during secondary succession of subalpine forests. Science of the Total Environment, 2023, 879, 163257. Necromass-derived soil organic carbon and its drivers at the global scale. Soil Biology and Biochemistry, 2023, 181, 109025. Ammoniated straw incorporation increases maize grain yield while decreasing net greenhouse gas 1319 2.52 budget on the Loess Plateau, China. Agriculture, Ecosystems and Environment, 2023, 352, 108503. Intercropping systems between broccoli and fava bean can enhance overall crop production and improve soil fertility. Scientia Horticulturae, 2023, 312, 111834.

#	Article	IF	CITATIONS
1321	Data evaluation strategy for identification of key molecular formulas in dissolved organic matter as proxies for biogeochemical reactivity based on abundance differences from ultrahigh resolution mass spectrometry. Water Research, 2023, 232, 119672.	5.3	8
1322	The influence of elevated CO <sub>2</sub> and soil depth on rhizosphere activity and nutrient availability in a mature <i>Eucalyptus</i> woodland. Biogeosciences, 2023, 20, 505-521.	1.3	2
1323	Functional substitutability of native herbivores by livestock for soil carbon stock is mediated by microbial decomposers. Global Change Biology, 2023, 29, 2141-2155.	4.2	5
1324	Increased soil carbon storage through plant diversity strengthens with time and extends into the subsoil. Global Change Biology, 2023, 29, 2627-2639.	4.2	17
1325	The quality and quantity of SOM determines the mineralization of recently added labile C and priming of native SOM in grazed grasslands. Geoderma, 2023, 432, 116385.	2.3	3
1326	Disentangling the mixed effects of soil management on microbial diversity and soil functions: A case study in vineyards. Scientific Reports, 2023, 13, .	1.6	2
1327	Loss of soil carbon and nitrogen indicates climate change-induced alterations in a temperate forest ecosystem. Ecological Indicators, 2023, 148, 110055.	2.6	0
1328	Evolution of Maize Compost in a Mediterranean Agricultural Soil: Implications for Carbon Sequestration. Agronomy, 2023, 13, 769.	1.3	1
1330	Effects of Main Land-Use Types on Plant and Microbial Diversity and Ecosystem Multifunctionality in Degraded Alpine Grasslands. Land, 2023, 12, 638.	1.2	0
1331	Five-years of warming did not change the soil organic carbon stock but altered its chemical composition in an alpine peatland. Pedosphere, 2023, , .	2.1	0
1332	Substantial uncertainties in global soil organic carbon simulated by multiple terrestrial carbon cycle models. Land Degradation and Development, 2023, 34, 3225-3249.	1.8	2
1333	Mineralization and Fixed Stable Carbon Isotopic Characteristics of Organic Carbon in Cotton Fields with Different Continuous Cropping Years. Agronomy, 2023, 13, 804.	1.3	1
1334	Influence of Organic Amendments Based on Garden Waste for Microbial Community Growth in Coastal Saline Soil. Sustainability, 2023, 15, 5038.	1.6	2
1335	Organic vegetable crop residue decomposition in soils. Heliyon, 2023, 9, e14529.	1.4	0
1337	Elevational gradient regulates the effects of short-term nutrient deposition on soil microorganisms and SOM decomposition in subtropical forests. Plant and Soil, 0, , .	1.8	0
1338	Mechanisms for nutrient interactions from organic amendments and mineral fertilizer inputs under cropping systems: a review. PeerJ, 0, 11, e15135.	0.9	5
1341	Carbon-containing additives changes the phosphorus flow by affecting humification and bacterial community during composting. Bioresource Technology, 2023, 379, 129066.	4.8	1
1342	The impact of nitrogen treatment and short-term weather forecast data in irrigation scheduling of corn and cotton on water and nutrient use efficiency in humid climates. Agricultural Water Management, 2023, 283, 108314.	2.4	2
#	Article	IF	CITATIONS
------	---	-----	-----------
1369	Phototrophic microbial fuel cells: a greener approach to sustainable power generation and wastewater treatment. Sustainable Energy and Fuels, 2023, 7, 3482-3504.	2.5	2
1373	Soil functions to support natural plant communities and crops: Soil multifunctionality. , 2023, , 146-152.		0
1400	Organic Carbon Cycling and Transformation. , 2023, , .		1
1426	Mitigation potential of forests: challenges to carbon accrual in the ecosystem. , 2024, , 75-94.		0
1432	Plant Invasion and Soil Processes: A Mechanistic Understanding. , 2023, , 227-246.		0

CITATION REPORT