

Mineral protection of soil carbon counteracted by root c

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Measuring the Total and Sequestered Organic Matter Contents of Grassland and Forest Soil Profiles in the National Ecological Observatory Network Initiative. <i>Soil Horizons</i> , 2015, 56, 1-11.	0.3	4
2	Compositional differences in simulated root exudates elicit a limited functional and compositional response in soil microbial communities. <i>Frontiers in Microbiology</i> , 2015, 6, 817.	1.5	34
3	In situ visualisation and characterisation of the capacity of highly reactive minerals to preserve soil organic matter (SOM) in colloids at submicron scale. <i>Chemosphere</i> , 2015, 138, 225-232.	4.2	45
4	The lime-silicate question. <i>Soil Biology and Biochemistry</i> , 2015, 89, 172-183.	4.2	23
5	The contentious nature of soil organic matter. <i>Nature</i> , 2015, 528, 60-68.	13.7	2,418
7	Production of Biomass Crops Using Biowastes on Low-Fertility Soil: 1. Influence of Biowastes on Plant and Soil Quality. <i>Journal of Environmental Quality</i> , 2016, 45, 1960-1969.	1.0	9
8	Hydrologically transported dissolved organic carbon influences soil respiration in a tropical rainforest. <i>Biogeosciences</i> , 2016, 13, 5487-5497.	1.3	10
9	Gone or just out of sight? The apparent disappearance of aromatic litter components in soils. <i>Soil</i> , 2016, 2, 325-335.	2.2	45
10	Direct uptake of organically derived carbon by grass roots and allocation in leaves and phytoliths: ¹³ C labeling evidence. <i>Biogeosciences</i> , 2016, 13, 1693-1703.	1.3	28
11	Citrate and malonate increase microbial activity and alter microbial community composition in uncontaminated and diesel-contaminated soil microcosms. <i>Soil</i> , 2016, 2, 487-498.	2.2	23
12	Structured Heterogeneity in a Marine Terrace Chronosequence: Upland Mottling. <i>Vadose Zone Journal</i> , 2016, 15, 1-14.	1.3	25
13	Delineating the Convergence of Biogeochemical Factors Responsible for Arsenic Release to Groundwater in South and Southeast Asia. <i>Advances in Agronomy</i> , 2016, 140, 43-74.	2.4	14
14	Linking Physical and Biogeochemical Properties and Processes in the Drilosphere. <i>Soil Science</i> , 2016, 181, 126-132.	0.9	6
15	Chemical communication connects soil food webs. <i>Soil Biology and Biochemistry</i> , 2016, 102, 48-51.	4.2	19
16	Biofertilizers: A Timely Approach for Sustainable Agriculture. , 2016, , 375-395.		21
17	Differential effects of conifer and broadleaf litter inputs on soil organic carbon chemical composition through altered soil microbial community composition. <i>Scientific Reports</i> , 2016, 6, 27097.	1.6	36
18	Microbial respiration, but not biomass, responded linearly to increasing light fraction organic matter input: Consequences for carbon sequestration. <i>Scientific Reports</i> , 2016, 6, 35496.	1.6	40
19	Revisiting the "Gadgil effect": do interguild fungal interactions control carbon cycling in forest soils?. <i>New Phytologist</i> , 2016, 209, 1382-1394.	3.5	328

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20	Carbon and nutrient cycling in kettle hole sediments depending on hydrological dynamics: a review. <i>Hydrobiologia</i> , 2016, 775, 1-20.	1.0	50
21	Allocation of photosynthetically-fixed carbon in plant and soil during growth of reed (<i>Phragmites</i>) Tj ETQq1 1 0.784314 rgBT /Overlo 1.8 10	1.8	10
22	Effects of warming on uptake and translocation of cadmium (Cd) and copper (Cu) in a contaminated soil-rice system under Free Air Temperature Increase (FATI). <i>Chemosphere</i> , 2016, 155, 1-8.	4.2	35
23	Factors influencing the molecular composition of soil organic matter in New Zealand grasslands. <i>Agriculture, Ecosystems and Environment</i> , 2016, 232, 290-301.	2.5	16
24	Resource stoichiometry mediates soil C loss and nutrient transformations in forest soils. <i>Applied Soil Ecology</i> , 2016, 108, 248-257.	2.1	31
25	Estimating root: shoot ratio and soil carbon inputs in temperate grasslands with the RothC model. <i>Plant and Soil</i> , 2016, 407, 293-305.	1.8	36
26	Advances in the rhizosphere: stretching the interface of life. <i>Plant and Soil</i> , 2016, 407, 1-8.	1.8	78
27	Drought effects on <i>Helianthus annuus</i> and <i>Glycine max</i> metabolites: from phloem to root exudates. <i>Rhizosphere</i> , 2016, 2, 85-97.	1.4	70
28	Managing uncertainty in soil carbon feedbacks to climate change. <i>Nature Climate Change</i> , 2016, 6, 751-758.	8.1	491
29	A meta-analysis of the temporal dynamics of priming soil carbon decomposition by fresh carbon inputs across ecosystems. <i>Soil Biology and Biochemistry</i> , 2016, 101, 96-103.	4.2	96
30	Grassland to woodland transitions: Dynamic response of microbial community structure and carbon use patterns. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1675-1688.	1.3	21
31	Optimizing rice plant photosynthate allocation reduces N2O emissions from paddy fields. <i>Scientific Reports</i> , 2016, 6, 29333.	1.6	21
32	Are oxygen limitations under recognized regulators of organic carbon turnover in upland soils?. <i>Biogeochemistry</i> , 2016, 127, 157-171.	1.7	236
33	The role of microarthropods in emerging models of soil organic matter. <i>Soil Biology and Biochemistry</i> , 2016, 102, 37-39.	4.2	56
34	Key knowledge and data gaps in modelling the influence of CO2 concentration on the terrestrial carbon sink. <i>Journal of Plant Physiology</i> , 2016, 203, 3-15.	1.6	41
35	Opposing effects of different soil organic matter fractions on crop yields. <i>Ecological Applications</i> , 2016, 26, 2072-2085.	1.8	30
36	Comparison of isotope methods for partitioning methane production and soil C priming effects during anaerobic decomposition of rice residue in soil. <i>Soil Biology and Biochemistry</i> , 2016, 95, 51-59.	4.2	14
37	Root-Root Interactions: Towards A Rhizosphere Framework. <i>Trends in Plant Science</i> , 2016, 21, 209-217.	4.3	149

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38	pH-dependence of organic matter solubility: Base type effects on dissolved organic C, N, P, and S in soils with contrasting mineralogy. <i>Geoderma</i> , 2016, 271, 161-172.	2.3	85
39	New Methods To Unravel Rhizosphere Processes. <i>Trends in Plant Science</i> , 2016, 21, 243-255.	4.3	163
40	Ecological role of bacterial inoculants and their potential impact on soil microbial diversity. <i>Plant and Soil</i> , 2016, 400, 193-207.	1.8	124
41	The decomposition of ectomycorrhizal fungal necromass. <i>Soil Biology and Biochemistry</i> , 2016, 93, 38-49.	4.2	156
42	Root Uptake of Pharmaceuticals and Personal Care Product Ingredients. <i>Environmental Science & Technology</i> , 2016, 50, 525-541.	4.6	352
43	Land-use contrasts reveal instability of subsoil organic carbon. <i>Global Change Biology</i> , 2017, 23, 955-965.	4.2	62
44	Microbial catabolic diversity in and beyond the rhizosphere of plant species and plant genotypes. <i>Pedobiologia</i> , 2017, 61, 43-49.	0.5	16
45	The Automated Root Exudate System (<scp>ARES</scp>): a method to apply solutes at regular intervals to soils in the field. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1042-1050.	2.2	8
46	Plant Functional Traits: Soil and Ecosystem Services. <i>Trends in Plant Science</i> , 2017, 22, 385-394.	4.3	311
47	Increasing soil carbon storage: mechanisms, effects of agricultural practices and proxies. A review. <i>Agronomy for Sustainable Development</i> , 2017, 37, 1.	2.2	292
48	Root biomass and exudates link plant diversity with soil bacterial and fungal biomass. <i>Scientific Reports</i> , 2017, 7, 44641.	1.6	309
49	Multi-decadal time series of remotely sensed vegetation improves prediction of soil carbon in a subtropical grassland. <i>Ecological Applications</i> , 2017, 27, 1646-1656.	1.8	23
50	Mineral Availability as a Key Regulator of Soil Carbon Storage. <i>Environmental Science & Technology</i> , 2017, 51, 4960-4969.	4.6	167
51	Rhizosphere priming effect: A meta-analysis. <i>Soil Biology and Biochemistry</i> , 2017, 111, 78-84.	4.2	241
52	Biochar built soil carbon over a decade by stabilizing rhizodeposits. <i>Nature Climate Change</i> , 2017, 7, 371-376.	8.1	232
53	Sampling roots to capture plant and soil functions. <i>Functional Ecology</i> , 2017, 31, 1506-1518.	1.7	150
54	Causal mechanisms of soil organic matter decomposition: deconstructing salinity and flooding impacts in coastal wetlands. <i>Ecology</i> , 2017, 98, 2003-2018.	1.5	69
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56	Using stable isotopes to explore root-microbe-mineral interactions in soil. <i>Rhizosphere</i> , 2017, 3, 244-253.	1.4	93
57	Modeling soil organic carbon in corn (<i>Zea mays</i> L.)-based systems in Ohio under climate change. <i>Journal of Soils and Water Conservation</i> , 2017, 72, 191-204.	0.8	7
58	Modelling the dynamic physical protection of soil organic carbon: Insights into carbon predictions and explanation of the priming effect. <i>Global Change Biology</i> , 2017, 23, 5273-5283.	4.2	32
59	Soil organic carbon dynamics jointly controlled by climate, carbon inputs, soil properties and soil carbon fractions. <i>Global Change Biology</i> , 2017, 23, 4430-4439.	4.2	328
60	Phosphorus mobilization in low-P arable soils may involve soil organic C depletion. <i>Soil Biology and Biochemistry</i> , 2017, 113, 250-259.	4.2	51
61	Effects of nitrogen and phosphorus fertilization on the activities of four different classes of fine-root and soil phosphatases in Bornean tropical rain forests. <i>Plant and Soil</i> , 2017, 416, 463-476.	1.8	54
62	Response of low-molecular-weight organic acids in mangrove root exudates to exposure of polycyclic aromatic hydrocarbons. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12484-12493.	2.7	29
63	Changes in substrate availability drive carbon cycle response to chronic warming. <i>Soil Biology and Biochemistry</i> , 2017, 110, 68-78.	4.2	73
64	Carbon and Energy Sources of Mycorrhizal Fungi. , 2017, , 357-374.		15
65	Soil root cross-talk: The role of humic substances. <i>Journal of Plant Nutrition and Soil Science</i> , 2017, 180, 5-13.	1.1	87
66	Spatial Heterogeneity of SOM Concentrations Associated with White-rot Versus Brown-rot Wood Decay. <i>Scientific Reports</i> , 2017, 7, 13758.	1.6	16
67	Manure amendment increases the content of nanomineral allophane in an acid arable soil. <i>Scientific Reports</i> , 2017, 7, 14256.	1.6	3
68	Organic matter distribution and retention along transects from hilltop to kettle hole within an agricultural landscape. <i>Biogeochemistry</i> , 2017, 136, 47-70.	1.7	24
69	Oxidative Uranium Release from Anoxic Sediments under Diffusion-Limited Conditions. <i>Environmental Science & Technology</i> , 2017, 51, 11039-11047.	4.6	21
70	A parsimonious modular approach to building a mechanistic belowground carbon and nitrogen model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2418-2434.	1.3	36
71	Redistribution of Different Organic Carbon Fractions in the Soil Profile of a Typical Chinese Mollisol with Land-Use Change. <i>Communications in Soil Science and Plant Analysis</i> , 2017, 48, 2369-2380.	0.6	7
72	Citrus stand ages regulate the fraction alteration of soil organic carbon under a citrus/ <i>Stropharua rugodo-annulata</i> intercropping system in the Three Gorges Reservoir area, China. <i>Environmental Science and Pollution Research</i> , 2017, 24, 18363-18371.	2.7	13
73	Elevated moisture stimulates carbon loss from mineral soils by releasing protected organic matter. <i>Nature Communications</i> , 2017, 8, 1774.	5.8	168

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75	Exudate components exert different influences on microbially mediated C losses in simulated rhizosphere soils of a spruce plantation. <i>Plant and Soil</i> , 2017, 419, 127-140.	1.8	31
76	The potential implications of reclaimed wastewater reuse for irrigation on the agricultural environment: The knowns and unknowns of the fate of antibiotics and antibiotic resistant bacteria and resistance genes – A review. <i>Water Research</i> , 2017, 123, 448-467.	5.3	400
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80	Plant responses to stress impacts: the C we do not see. <i>Tree Physiology</i> , 2017, 37, 151-153.	1.4	9
81	Phenolic root exudate and tissue compounds vary widely among temperate forest tree species and have contrasting effects on soil microbial respiration. <i>New Phytologist</i> , 2018, 218, 530-541.	3.5	70
82	Structural evidence for soil organic matter turnover following glucose addition and microbial controls over soil carbon change at different horizons of a Mollisol. <i>Soil Biology and Biochemistry</i> , 2018, 119, 63-73.	4.2	19
83	Soil organic carbon stocks in topsoil and subsoil controlled by parent material, carbon input in the rhizosphere, and microbial-derived compounds. <i>Soil Biology and Biochemistry</i> , 2018, 122, 19-30.	4.2	202
84	Microbial mechanisms of carbon priming effects revealed during the interaction of crop residue and nutrient inputs in contrasting soils. <i>Global Change Biology</i> , 2018, 24, 2775-2790.	4.2	201
85	Explaining the doubling of N ₂ O emissions under elevated CO ₂ in the Giessen FACE via in-field ¹⁵ N tracing. <i>Global Change Biology</i> , 2018, 24, 3897-3910.	4.2	41
86	Biocontrolled soil nutrient distribution under the influence of an oxalogenic-oxalotrophic ecosystem. <i>Plant and Soil</i> , 2018, 425, 145-160.	1.8	7
87	Soil mineral assemblage and substrate quality effects on microbial priming. <i>Geoderma</i> , 2018, 322, 38-47.	2.3	50
88	Redox interface-associated organo-mineral interactions: A mechanism for C sequestration under a rice-wheat cropping system. <i>Soil Biology and Biochemistry</i> , 2018, 120, 12-23.	4.2	55
89	Grazing enhances belowground carbon allocation, microbial biomass, and soil carbon in a subtropical grassland. <i>Global Change Biology</i> , 2018, 24, 2997-3009.	4.2	157
90	Carbon Sink Strength of Subsurface Horizons in Brazilian Oxisols. <i>Soil Science Society of America Journal</i> , 2018, 82, 76-86.	1.2	1
91	Incorporation of shoot versus root-derived ¹³ C and ¹⁵ N into mineral-associated organic matter fractions: results of a soil slurry incubation with dual-labelled plant material. <i>Biogeochemistry</i> , 2018, 137, 379-393.	1.7	57

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93	Nutrient content affects the turnover of fungal biomass in forest topsoil and the composition of associated microbial communities. <i>Soil Biology and Biochemistry</i> , 2018, 118, 187-198.	4.2	64
94	Effects of temperature, soil substrate, and microbial community on carbon mineralization across three climatically contrasting forest sites. <i>Ecology and Evolution</i> , 2018, 8, 879-891.	0.8	37
95	Effective carbon sequestration in Italian agricultural soils by <i>in situ</i> polymerization of soil organic matter under biomimetic photocatalysis. <i>Land Degradation and Development</i> , 2018, 29, 485-494.	1.8	24
96	Phosphorus Stress-Induced Changes in Plant Root Exudation Could Potentially Facilitate Uranium Mobilization from Stable Mineral Forms. <i>Environmental Science & Technology</i> , 2018, 52, 7652-7662.	4.6	38
97	Root Exudates and Microbial Communities Drive Mineral Dissolution and the Formation of Nano-size Minerals in Soils: Implications for Soil Carbon Storage. <i>Soil Biology</i> , 2018, , 143-166.	0.6	5
98	Effect of humic and fulvic acid transformation on cadmium availability to wheat cultivars in sewage sludge amended soil. <i>Environmental Science and Pollution Research</i> , 2018, 25, 16071-16079.	2.7	31
99	Advances in Molecular Approaches for Understanding Soil Organic Matter Composition, Origin, and Turnover: A Historical Overview. <i>Advances in Agronomy</i> , 2018, , 1-48.	2.4	75
100	The root of the matter: Linking root traits and soil organic matter stabilization processes. <i>Soil Biology and Biochemistry</i> , 2018, 120, 246-259.	4.2	219
101	Impacts of oxalic acid and glucose additions on N transformation in microcosms via artificial roots. <i>Soil Biology and Biochemistry</i> , 2018, 121, 16-23.	4.2	33
102	Mineral-Associated Soil Carbon is Resistant to Drought but Sensitive to Legumes and Microbial Biomass in an Australian Grassland. <i>Ecosystems</i> , 2018, 21, 349-359.	1.6	21
103	Synthetic iron (hydr)oxide-glucose associations in subsurface soil: Effects on decomposability of mineral associated carbon. <i>Science of the Total Environment</i> , 2018, 613-614, 342-351.	3.9	39
104	NanoSIMS for biological applications: Current practices and analyses. <i>Biointerphases</i> , 2018, 13, 03B301.	0.6	147
105	Carbon and nutrient mineralisation dynamics in aggregate-size classes from different tillage systems after input of canola and wheat residues. <i>Soil Biology and Biochemistry</i> , 2018, 116, 22-38.	4.2	88
106	Networking our science to characterize the state, vulnerabilities, and management opportunities of soil organic matter. <i>Global Change Biology</i> , 2018, 24, e705-e718.	4.2	92
107	Humusica 2, article 19: Techno humus systems and global change“conservation agriculture and 4/1000 proposal. <i>Applied Soil Ecology</i> , 2018, 122, 271-296.	2.1	15
108	Relationship between microbial composition and substrate use efficiency in a tropical soil. <i>Geoderma</i> , 2018, 315, 96-103.	2.3	41
109	Biochar carbon dynamics in physically separated fractions and microbial use efficiency in contrasting soils under temperate pastures. <i>Soil Biology and Biochemistry</i> , 2018, 116, 399-409.	4.2	35

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110	Sub-micron level investigation reveals the inaccessibility of stabilized carbon in soil microaggregates. <i>Scientific Reports</i> , 2018, 8, 16810.	1.6	18
111	Redox Fluctuations Control the Coupled Cycling of Iron and Carbon in Tropical Forest Soils. <i>Environmental Science & Technology</i> , 2018, 52, 14129-14139.	4.6	96
112	Root Exudates Induce Soil Macroaggregation Facilitated by Fungi in Subsoil. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	128
113	Strategy for Microscale Characterization of Soil Mineral-Organic Associations by Synchrotron-Radiation-Based FTIR Technology. <i>Soil Science Society of America Journal</i> , 2018, 82, 1583-1591.	1.2	15
114	Coupled X-ray Fluorescence and X-ray Absorption Spectroscopy for Microscale Imaging and Identification of Sulfur Species within Tissues and Skeletons of Scleractinian Corals. <i>Analytical Chemistry</i> , 2018, 90, 12559-12566.	3.2	14
115	Nutrient supply enhanced wheat residue-carbon mineralization, microbial growth, and microbial carbon-use efficiency when residues were supplied at high rate in contrasting soils. <i>Soil Biology and Biochemistry</i> , 2018, 126, 168-178.	4.2	57
116	Soil chemistry and microbial community functional responses to invasive shrub removal in mixed hardwood forests. <i>Applied Soil Ecology</i> , 2018, 131, 75-88.	2.1	8
117	Plant roots alter microbial functional genes supporting root litter decomposition. <i>Soil Biology and Biochemistry</i> , 2018, 127, 90-99.	4.2	35
118	Mycelium- and root-derived C inputs differ in their impacts on soil organic C pools and decomposition in forests. <i>Soil Biology and Biochemistry</i> , 2018, 123, 257-265.	4.2	24
119	Balancing the Global Distribution of Phosphorus With a View Toward Sustainability and Equity. <i>Global Biogeochemical Cycles</i> , 2018, 32, 904-908.	1.9	15
120	Substrate identity and amount overwhelm temperature effects on soil carbon formation. <i>Soil Biology and Biochemistry</i> , 2018, 124, 218-226.	4.2	26
121	High organic inputs explain shallow and deep SOC storage in a "long-term agroforestry system" combining experimental and modeling approaches. <i>Biogeosciences</i> , 2018, 15, 297-317.	1.3	66
122	Silicon regulation of soil organic carbon stabilization and its potential to mitigate climate change. <i>Earth-Science Reviews</i> , 2018, 185, 463-475.	4.0	47
123	Effects of altered dry season length and plant inputs on soluble soil carbon. <i>Ecology</i> , 2018, 99, 2348-2362.	1.5	60
124	Order from disorder: do soil organic matter composition and turnover co-vary with iron phase crystallinity?. <i>Biogeochemistry</i> , 2018, 140, 93-110.	1.7	73
125	Physical Processes Dictate Early Biogeochemical Dynamics of Soil Pyrogenic Organic Matter in a Subtropical Forest Ecosystem. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	0
126	Linking 3D Soil Structure and Plant-Microbe-Soil Carbon Transfer in the Rhizosphere. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	97
127	Tree species diversity promotes soil carbon stability by depressing the temperature sensitivity of soil respiration in temperate forests. <i>Science of the Total Environment</i> , 2018, 645, 623-629.	3.9	15

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128	¹³ C isotopic signature and C concentration of soil density fractions illustrate reduced C allocation to subalpine grassland soil under high atmospheric N deposition. <i>Soil Biology and Biochemistry</i> , 2018, 125, 178-184.	4.2	15
129	Soil organic carbon stabilization changes with an altitude gradient of land cover types in central Himalaya, India. <i>Catena</i> , 2018, 170, 374-385.	2.2	21
130	Plant-Induced Changes to Rhizosphere pH Impact Leaf Accumulation of Lamotrigine but Not Carbamazepine. <i>Environmental Science and Technology Letters</i> , 2018, 5, 377-381.	3.9	12
131	Root exudate metabolomes change under drought and show limited capacity for recovery. <i>Scientific Reports</i> , 2018, 8, 12696.	1.6	231
132	Interactive effects on organic matter processing from soils to the ocean: are priming effects relevant in aquatic ecosystems?. <i>Hydrobiologia</i> , 2018, 822, 1-17.	1.0	86
133	More replenishment than priming loss of soil organic carbon with additional carbon input. <i>Nature Communications</i> , 2018, 9, 3175.	5.8	69
134	Minerals in the rhizosphere: overlooked mediators of soil nitrogen availability to plants and microbes. <i>Biogeochemistry</i> , 2018, 139, 103-122.	1.7	203
135	Microbial Modulators and Mechanisms of Soil Carbon Storage. , 2018, , 73-115.		10
136	Leveraging a New Understanding of how Belowground Food Webs Stabilize Soil Organic Matter to Promote Ecological Intensification of Agriculture. , 2018, , 117-136.		9
137	Impact of Global Changes on Soil C Storage—Possible Mechanisms and Modeling Approaches. , 2018, , 245-279.		1
138	Root penetration in deep soil layers stimulates mineralization of millennia-old organic carbon. <i>Soil Biology and Biochemistry</i> , 2018, 124, 150-160.	4.2	72
139	Evidence for the primacy of living root inputs, not root or shoot litter, in forming soil organic carbon. <i>New Phytologist</i> , 2019, 221, 233-246.	3.5	281
140	Sorption reduces the biodegradation rates of multivalent organic acids in volcanic soils rich in short-range order minerals. <i>Geoderma</i> , 2019, 333, 188-199.	2.3	16
141	Environmental Microbial Health Under Changing Climates: State, Implication and Initiatives for High-Performance Soils. <i>Sustainable Agriculture Reviews</i> , 2019, , 1-32.	0.6	1
142	Leveraging Environmental Research and Observation Networks to Advance Soil Carbon Science. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1047-1055.	1.3	24
143	Global subsoil organic carbon turnover times dominantly controlled by soil properties rather than climate. <i>Nature Communications</i> , 2019, 10, 3688.	5.8	102
144	Persistence of dissolved organic matter explained by molecular changes during its passage through soil. <i>Nature Geoscience</i> , 2019, 12, 755-761.	5.4	230
145	Rationalization and prediction of the impact of different metals and root exudates on carbon dioxide emission from soil. <i>Science of the Total Environment</i> , 2019, 691, 348-359.	3.9	3

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146	Root-driven weathering impacts on mineral-organic associations in deep soils over pedogenic time scales. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 263, 68-84.	1.6	29
147	Molecular changes of soil organic matter induced by root exudates in a rice paddy under CO ₂ enrichment and warming of canopy air. <i>Soil Biology and Biochemistry</i> , 2019, 137, 107544.	4.2	43
148	Balancing nutrient stoichiometry facilitates the fate of wheat residue's carbon in physically defined soil organic matter fractions. <i>Geoderma</i> , 2019, 354, 113883.	2.3	35
149	Differential response of soil respiration to nitrogen and phosphorus addition in a highly phosphorus-limited subtropical forest, China. <i>Forest Ecology and Management</i> , 2019, 448, 499-508.	1.4	22
150	What do we know about soil carbon destabilization?. <i>Environmental Research Letters</i> , 2019, 14, 083004.	2.2	106
151	Mycorrhizal types differ in ecophysiology and alter plant nutrition and soil processes. <i>Biological Reviews</i> , 2019, 94, 1857-1880.	4.7	178
152	Driving forces linking microbial community structure and functions to enhanced carbon stability in biochar-amended soil. <i>Environment International</i> , 2019, 133, 105211.	4.8	49
153	Regulation of priming effect by soil organic matter stability over a broad geographic scale. <i>Nature Communications</i> , 2019, 10, 5112.	5.8	187
154	Abiotic and Biotic Controls on Soil Organo's Mineral Interactions: Developing Model Structures to Analyze Why Soil Organic Matter Persists. <i>Reviews in Mineralogy and Geochemistry</i> , 2019, 85, 329-348.	2.2	42
155	Effects of Organic Amendments on the Transformation of Fe (Oxyhydr)Oxides and Soil Organic Carbon Storage. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	18
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