Cornelia Rumpel

List of Publications by Year
in descending order

224 papers	17,784 citations	17405 63 h-index	15683 125 g-index
234 all docs	234 docs citations	234 times ranked	15184 citing authors

#	Article	IF	Citations
1	Stability of organic carbon in deep soil layers controlled by fresh carbon supply. Nature, 2007, 450, 277-280.	13.7	1,695
2	Is soil carbon mostly root carbon? Mechanisms for a specific stabilisation. Plant and Soil, 2005, 269, 341-356.	1.8	1,385
3	Deep soil organic matterâ€"a key but poorly understood component of terrestrial C cycle. Plant and Soil, 2011, 338, 143-158.	1.8	1,239
4	Global change pressures on soils from land use and management. Global Change Biology, 2016, 22, 1008-1028.	4.2	605
5	Fate of lignins in soils: A review. Soil Biology and Biochemistry, 2010, 42, 1200-1211.	4.2	495
6	Comparison of quantification methods to measure fireâ€derived (black/elemental) carbon in soils and sediments using reference materials from soil, water, sediment and the atmosphere. Global Biogeochemical Cycles, 2007, 21, .	1.9	483
7	Stabilisation of soil organic matter by interactions with minerals as revealed by mineral dissolution and oxidative degradation. Organic Geochemistry, 2003, 34, 1591-1600.	0.9	362
8	Vertical distribution, age, and chemical composition of organic carbon in two forest soils of different pedogenesis. Organic Geochemistry, 2002, 33, 1131-1142.	0.9	316
9	Towards a global-scale soil climate mitigation strategy. Nature Communications, 2020, 11, 5427.	5.8	302
10	Impact of compost, vermicompost and biochar on soil fertility, maize yield and soil erosion in Northern Vietnam: A three year mesocosm experiment. Science of the Total Environment, 2015, 514, 147-154.	3.9	252
11	Biogeochemical cycles and biodiversity as key drivers of ecosystem services provided by soils. Soil, 2015, 1, 665-685.	2.2	249
12	Stabilization of organic matter by soil minerals â€" investigations of density and particle-size fractions from two acid forest soils. Journal of Plant Nutrition and Soil Science, 2002, 165, 451.	1.1	220
13	Stabilised carbon in subsoil horizons is located in spatially distinct parts of the soil profile. Soil Biology and Biochemistry, 2009, 41, 256-261.	4.2	215
14	Aligning agriculture and climate policy. Nature Climate Change, 2017, 7, 307-309.	8.1	213
15	The 4p1000 initiative: Opportunities, limitations and challenges for implementing soil organic carbon sequestration as a sustainable development strategy. Ambio, 2020, 49, 350-360.	2.8	208
16	Evaluation of an ultrasonic dispersion procedure to isolate primary organomineral complexes from soils. European Journal of Soil Science, 1999, 50, 87-94.	1.8	199
17	Chemical evaluation of chars produced by thermochemical conversion (gasification, pyrolysis and) Tj ETQq1 1 0.784314 rgBT /Overlock Bioenergy, 2013, 59, 264-278.	2.9	192
18	Carbon-13 natural abundance as a tool to study the dynamics of lignin monomers in soil: an appraisal at the Closeaux experimental field (France). Geoderma, 2005, 128, 3-17.	2.3	189

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19	Drought effects on microbial biomass and enzyme activities in the rhizosphere of grasses depend on plant community composition. Applied Soil Ecology, 2011, 48, 38-44.	2.1	186
20	Biochar modulates heavy metal toxicity and improves microbial carbon use efficiency in soil. Science of the Total Environment, 2018, 621, 148-159.	3.9	181
21	Location and chemical composition of stabilized organic carbon in topsoil and subsoil horizons of two acid forest soils. Soil Biology and Biochemistry, 2004, 36, 177-190.	4.2	171
22	Preferential erosion of black carbon on steep slopes with slash and burn agriculture. Catena, 2006, 65, 30-40.	2.2	170
23	Black carbon contribution to soil organic matter composition in tropical sloping land under slash and burn agriculture. Geoderma, 2006, 130, 35-46.	2.3	165
24	Stabilization of soil organic matter isolated via oxidative degradation. Organic Geochemistry, 2005, 36, 1567-1575.	0.9	162
25	Chemical modification of biomass residues during hydrothermal carbonization â€“ What makes the difference, temperature or feedstock?. Organic Geochemistry, 2013, 54, 91-100.	0.9	160
26	Composting with additives to improve organic amendments. A review. Agronomy for Sustainable Development, 2018, 38, 1.	2.2	159
27	Smart Fertilizers as a Strategy for Sustainable Agriculture. Advances in Agronomy, 2018, 147, 119-157.	2.4	158
28	Alteration of soil organic matter following treatment with hydrofluoric acid (HF). Organic Geochemistry, 2006, 37, 1437-1451.	0.9	139
29	Lignin turnover kinetics in an agricultural soil is monomer specific. Soil Biology and Biochemistry, 2006, 38, 1977-1988.	4.2	136
30	Microbial functional diversity and carbon use feedback in soils as affected by heavy metals. Environment International, 2019, 125, 478-488.	4.8	135
31	How does drought stress influence the decomposition of plant litter with contrasting quality in a grassland ecosystem?. Plant and Soil, 2012, 352, 277-288.	1.8	134
32	Biochar alters the soil microbiome and soil function: results of nextâ€generation amplicon sequencing across Europe. GCB Bioenergy, 2017, 9, 591-612.	2.5	126
33	Organo-mineral associations in sandy acid forest soils: importance of specific surface area, iron oxides and micropores. European Journal of Soil Science, 2005, 56, 050912034650049.	1.8	125
34	Soil carbon storage and stabilisation in andic soils: A review. Catena, 2014, 120, 102-110.	2.2	125
35	Put more carbon in soils to meet Paris climate pledges. Nature, 2018, 564, 32-34.	13.7	119
36	Carbon allocation in grassland communities under drought stress followed by 14CÂpulse labeling. Soil Biology and Biochemistry, 2012, 55, 132-139.	4.2	116

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37	Wildfire effects on soil organic matter quantity and quality in two fire-prone Mediterranean pine forests. Geoderma, 2011, 167-168, 148-155.	2.3	115
38	Decomposition and stabilization of root litter in top- and subsoil horizons: what is the difference?. Plant and Soil, 2011, 338, 127-141.	1.8	114
39	Fire impact on C and N losses and charcoal production in a scrub oak ecosystem. Biogeochemistry, 2007, 82, 201-216.	1.7	112
40	Lignin turnover in an agricultural field: from plant residues to soil-protected fractions. European Journal of Soil Science, 2006, 57, 530-538.	1.8	108
41	Nature and reactivity of charcoal produced and added to soil during wildfire are particle-size dependent. Organic Geochemistry, 2010, 41, 682-689.	0.9	108
42	Effect of physical weathering on the carbon sequestration potential of biochars and hydrochars in soil. GCB Bioenergy, 2015, 7, 488-496.	2.5	107
43	Nanoclays from an Andisol: Extraction, properties and carbon stabilization. Geoderma, 2011, 161, 159-167.	2.3	105
44	Molecular dynamics of shoot vs. root biomarkers in an agricultural soil estimated by natural abundance 13C labelling. Soil Biology and Biochemistry, 2010, 42, 169-177.	4.2	96
45	Types and chemical composition of organic matter in reforested lignite-rich mine soils. Geoderma, 1998, 86, 123-142.	2.3	95
46	Biological and chemical reactivity and phosphorus forms of buffalo manure compost, vermicompost and their mixture with biochar. Bioresource Technology, 2013, 148, 401-407.	4.8	93
47	Gas chromatographic analysis of monosaccharides in a forest soil profile: Analysis by gas chromatography after trifluoroacetic acid hydrolysis and reductionâ€“acetylation. Soil Biology and Biochemistry, 2006, 38, 1478-1481.	4.2	92
48	Lignin degradation during a laboratory incubation followed by 13C isotope analysis. Soil Biology and Biochemistry, 2008, 40, 1916-1922.	4.2	91
49	Non-cellulosic neutral sugar contribution to mineral associated organic matter in top- and subsoil horizons of two acid forest soils. Soil Biology and Biochemistry, 2010, 42, 379-382.	4.2	89
50	Effect of in-situ aged and fresh biochar on soil hydraulic conditions and microbial C use under drought conditions. Scientific Reports, 2018, 8, 6852.	1.6	84
51	Microbial succession on decomposing root litter in a drought-prone Scots pine forest. ISME Journal, 2019, 13, 2346-2362.	4.4	84
52	Soil microbial diversity affects soil organic matter decomposition in a silty grassland soil. Biogeochemistry, 2013, 114, 201-212.	1.7	83
53	Water erosion impact on soil and carbon redistributions within uplands of Mekong River. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	1.9	81
54	Relative importance of sorption versus aggregation for organic matter storage in subsoil horizons of two contrasting soils. European Journal of Soil Science, 2010, 61, 958-969.	1.8	80

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55	Variation in lipid relative abundance and composition among different particle size fractions of a forest soil. Organic Geochemistry, 2004, 35, 1355-1370.	0.9	78
56	Erosion budget and process selectivity of black carbon at meter scale. Geoderma, 2009, 154, 131-137.	2.3	77
57	Advances in Molecular Approaches for Understanding Soil Organic Matter Composition, Origin, and Turnover: A Historical Overview. Advances in Agronomy, 2018, , 1-48.	2.4	75
58	Nanoscale evidence of contrasted processes for root-derived organic matter stabilization by mineral interactions depending on soil depth. Soil Biology and Biochemistry, 2015, 85, 82-88.	4.2	73
59	Release of dissolved phosphorus from riparian wetlands: Evidence for complex interactions among hydroclimate variability, topography and soil properties. Science of the Total Environment, 2017, 598, 421-431.	3.9	73
60	Thermal alteration of organic matter during a shrubland fire: A field study. Organic Geochemistry, 2010, 41, 690-697.	0.9	69
61	Composition and reactivity of morphologically distinct charred materials left after slash-and-burn practices in agricultural tropical soils. Organic Geochemistry, 2007, 38, 911-920.	0.9	68
62	Composition and radiocarbon age of HF-resistant soil organic matter in a Podzol and a Cambisol. Organic Geochemistry, 2007, 38, 1356-1372.	0.9	68
63	Biochar mineralization and priming effect on <scp>SOM</scp> decomposition in two European short rotation coppices. GCB Bioenergy, 2015, 7, 1150-1160.	2.5	66
64	Interactions between compost, vermicompost and earthworms influence plant growth and yield: A one-year greenhouse experiment. Scientia Horticulturae, 2013, 160, 148-154.	1.7	65
65	Microplastics from lagooning sludge to composts as revealed by fluorescent staining- image analysis, Raman spectroscopy and pyrolysis-GC/MS. Journal of Environmental Management, 2020, 275, 111249.	3.8	65
66	Can pyrolysis-GC/MS be used to estimate the degree of thermal alteration of black carbon?. Organic Geochemistry, 2009, 40, 1179-1187.	0.9	62
67	Sorption of hydrophobic organic compounds to a diverse suite of carbonaceous materials with emphasis on biochar. Chemosphere, 2016, 144, 879-887.	4.2	62
68	Quantification of carbon derived from lignite in soils using mid-infrared spectroscopy and partial least squares. Organic Geochemistry, 2001, 32, 831-839.	0.9	59
69	Title is missing!. Plant and Soil, 1999, 213, 161-168.	1.8	58
70	Transformation of buffalo manure by composting or vermicomposting to rehabilitate degraded tropical soils. Ecological Engineering, 2011, 37, 269-276.	1.6	55
71	Carbon Sequestration and Fertility after Centennial Time Scale Incorporation of Charcoal into Soil. PLoS ONE, 2014, 9, e91114.	1.1	55
72	The rehabilitation of tropical soils using compost and vermicompost is affected by the presence of endogeic earthworms. Applied Soil Ecology, 2010, 46, 125-133.	2.1	54

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73	Araucaria forest expansion on grassland in the southern Brazilian highlands as revealed by 14C and Î´13C studies. Geoderma, 2008, 145, 143-157.	2.3	53
74	Current Wildland Fire Patterns and Challenges in Europe: A Synthesis of National Perspectives. Air, Soil and Water Research, 2021, 14, 117862212110281.	1.2	53
75	Relevance and limitations of biogenic and physicogenic classification: a comparison of approaches for differentiating the origin of soil aggregates. European Journal of Soil Science, 2009, 60, 1117-1125.	1.8	52
76	How does plant leaf senescence of grassland species influence decomposition kinetics and litter compounds dynamics?. Nutrient Cycling in Agroecosystems, 2010, 88, 159-171.	1.1	52
77	Do Compost and Vermicompost Improve Macronutrient Retention and Plant Growth in Degraded Tropical Soils?. Compost Science and Utilization, 2011, 19, 15-24.	1.2	52
78	Ensuring planetary survival: the centrality of organic carbon in balancing the multifunctional nature of soils. Critical Reviews in Environmental Science and Technology, 2022, 52, 4308-4324.	6.6	52
79	The effect of earthworms on carbon storage and soil organic matter composition in tropical soil amended with compost and vermicompost. Soil Biology and Biochemistry, 2012, 50, 214-220.	4.2	51
80	Fingerprinting sediment sources in the outlet reservoir of a hilly cultivated catchment in Tunisia. Journal of Soils and Sediments, 2013, 13, 801-815.	1.5	49
81	Quantification of lignite- and vegetation-derived soil carbon using 14C activity measurements in a forested chronosequence. Geoderma, 2003, 112, 155-166.	2.3	48
82	Elemental and Molecular Evidence of Soot- and Char-Derived Black Carbon Inputs to New York City's Atmosphere during the 20th Century. Environmental Science & Technology, 2007, 41, 82-87.	4.6	48
83	Contrasting composition of free and mineral-bound organic matter in top- and subsoil horizons of Andosols. Biology and Fertility of Soils, 2012, 48, 401-411.	2.3	48
84	Temperature sensitivity of decomposition decreases with increasing soil organic matter stability. Science of the Total Environment, 2020, 704, 135460.	3.9	47
85	Particle size fractionation of soil containing coal and combusted particles. European Journal of Soil Science, 1999, 50, 515-522.	1.8	43
86	Evolution of soil organic matter after prescribed fire: A 20-year chronosequence. Geoderma, 2012, 189-190, 98-107.	2.3	43
87	How do microbial communities in top- and subsoil respond to root litter addition under field conditions?. Soil Biology and Biochemistry, 2016, 103, 28-38.	4.2	43
88	â€˜4 per 1,000â€™ initiative will boost soil carbon for climate and food security. Nature, 2018, 553, 27-27.	13.7	43
89	Effects of grasses and a legume grown in monoculture or mixture on soil organic matter and phosphorus forms. Plant and Soil, 2016, 402, 117-128.	1.8	42
90	The role of lignite in the carbon cycle of lignite-containing mine soils: evidence from carbon mineralisation and humic acid extractions. Organic Geochemistry, 2002, 33, 393-399.	0.9	41

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91	Depletion of soil organic carbon and nitrogen under Pinus taeda plantations in Southern Brazilian grasslands (Campos). European Journal of Soil Science, 2009, 60, 347-359.	1.8	41
92	Carbon Storage and Sequestration in Subsoil Horizons: Knowledge, Gaps and Potentials. , 2012, , 445-464.		41
93	Abundance and composition of free and aggregate-occluded carbohydrates and lignin in two forest soils as affected by wildfires of different severity. Geoderma, 2015, 245-246, 40-51.	2.3	41
94	Impact of landuse change on the molecular composition of soil organic matter. Journal of Analytical and Applied Pyrolysis, 2009, 85, 431-434.	2.6	40
95	Can cutin and suberin biomarkers be used to trace shoot and root-derived organic matter? A molecular and isotopic approach. Biogeochemistry, 2011, 106, 23-38.	1.7	40
96	Does grassland introduction into cropping cycles affect carbon dynamics through changes of allocation of soil organic matter within aggregate fractions?. Science of the Total Environment, 2017, 576, 251-263.	3.9	40
97	Management of grasslands by mowing versus grazing â€“ impacts on soil organic matter quality and microbial functioning. Applied Soil Ecology, 2020, 156, 103701.	2.1	40
98	Chemical nature of residual phosphorus in Andisols. Geoderma, 2016, 271, 27-31.	2.3	39
99	Rainfall simulation to identify the storm-scale mechanisms of gully bank retreat. Agricultural Water Management, 2011, 98, 1704-1710.	2.4	38
100	How do earthworms influence organic matter quantity and quality in tropical soils?. Soil Biology and Biochemistry, 2011, 43, 223-230.	4.2	38
101	Spectroscopic and pyrolytic features and abundance of the macromolecular refractory fraction in a sandy acid forest soil (Landes de Gascogne, France). Organic Geochemistry, 2005, 36, 349-362.	0.9	37
102	Stabilisation of HF soluble and HCl resistant organic matter in sloping tropical soils under slash and burn agriculture. Geoderma, 2008, 145, 347-354.	2.3	37
103	Effects of drought and elevated temperature on biochemical composition of forage plants and their impact on carbon storage in grassland soil. Plant and Soil, 2014, 374, 767-778.	1.8	37
104	Charcoal mineralisation potential of microbial inocula from burned and unburned forest soil with and without substrate addition. Soil Biology and Biochemistry, 2010, 42, 1472-1478.	4.2	36
105	Can biochar and hydrochar stability be assessed with chemical methods?. Organic Geochemistry, 2013, 60, 40-44.	0.9	36
106	Microbial use of lignite compared to recent plant litter as substrates in reclaimed coal mine soils. Soil Biology and Biochemistry, 2004, 36, 67-75.	4.2	35
107	Adsorption and desorption behavior of selected pesticides as influenced by decomposition of maize mulch. Chemosphere, 2013, 91, 1447-1455.	4.2	35
108	Effect of biochar addition on C mineralisation and soil organic matter priming in two subsoil horizons. Journal of Soils and Sediments, 2015, 15, 825-832.	1.5	35

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109	Organic matter composition and the protist and nematode communities around anecic earthworm burrows. Biology and Fertility of Soils, 2016, 52, 91-100.	2.3	35
110	Techniques for the differentiation of carbon types present in lignite-rich mine soils. Organic Geochemistry, 2000, 31, 543-551.	0.9	34
111	Adding worms during composting of organic waste with red mud and fly ash reduces CO2 emissions and increases plant available nutrient contents. Journal of Environmental Management, 2018, 222, 207-215.	3.8	34
112	Application of thermal and spectroscopic techniques to assess fire-induced changes to soil organic matter in a Mediterranean forest. Journal of Geochemical Exploration, 2014, 143, 174-182.	1.5	33
113	Urban waste composts enhance OC and N stocks after long-term amendment but do not alter organic matter composition. Agriculture, Ecosystems and Environment, 2016, 223, 211-222.	2.5	33
114	Organic matter dynamics in agroâ€ecosystems â€“ the knowledge gaps. European Journal of Soil Science, 2009, 60, 153-157.	1.8	31
115	The impact of grassland management on biogeochemical cycles involving carbon, nitrogen and phosphorus. Journal of Soil Science and Plant Nutrition, 2015, , 0-0.	1.7	31
116	How do earthworms affect organic matter decomposition in the presence of clay-sized minerals?. Soil Biology and Biochemistry, 2020, 143, 107730.	4.2	31
117	Improving bioavailability of phosphorous from cattle dung by using phosphatase immobilized on natural clay and nanoclay. Chemosphere, 2012, 89, 648-655.	4.2	30
118	Ley grassland under temperate climate had a legacy effect on soil organic matter quantity, biogeochemical signature and microbial activities. Soil Biology and Biochemistry, 2018, 122, 203-210.	4.2	30
119	A multi-technique approach to assess the fate of biochar in soil and to quantify its effect on soil organic matter composition. Organic Geochemistry, 2017, 112, 177-186.	0.9	29
120	Title is missing!. Water, Air, and Soil Pollution, 1998, 105, 481-492.	1.1	28
121	Spatial dependance of organic carbonâ€“metal relationships. Geoderma, 2010, 158, 120-127.	2.3	28
122	Fertilizer P Uptake Determined by Soil P Fractionation and Phosphatase Activity. Journal of Soil Science and Plant Nutrition, 2019, 19, 166-174.	1.7	28
123	Cutin and suberin biomarkers as tracers for the turnover of shoot and root derived organic matter along a chronosequence of Ecuadorian pasture soils. European Journal of Soil Science, 2012, 63, 808-819.	1.8	27
124	Decomposition of plant tissue submerged in an extremely acidic mining lake sediment: phenolic CuO-oxidation products and solid-state 13C NMR spectroscopy. Soil Biology and Biochemistry, 2004, 36, 1161-1169.	4.2	26
125	The role of lignin for the Î´13C signature in C4 grassland and C3 forest soils. Soil Biology and Biochemistry, 2013, 57, 1-13.	4.2	26
126	Lignin decomposition along an Alpine elevation gradient in relation to physicochemical and soil microbial parameters. Global Change Biology, 2014, 20, 2272-2285.	4.2	26

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127	Retention Mechanisms of Citric Acid in Ternary Kaolinite-Fe(III)-Citrate Acid Systems Using Fe K-edge EXAFS and L3,2-edge XANES Spectroscopy. Scientific Reports, 2016, 6, 26127.	1.6	26
128	Optimization of wheat straw co-composting for carrier material development. Waste Management, 2019, 98, 37-49.	3.7	26
129	The role of organic carbon excretion by bulbous rush roots and its turnover and utilization by bacteria under iron plaques in extremely acid sediments. Environmental and Experimental Botany, 2001, 46, 237-245.	2.0	25
130	Alkyl C and hydrophobicity in B and C horizons of an acid forest soil. Journal of Plant Nutrition and Soil Science, 2004, 167, 685-692.	1.1	25
131	Relative distributions of phenol dimers and hydroxy acids in a cultivated soil and above ground maize tissue. Organic Geochemistry, 2006, 37, 1634-1638.	0.9	25
132	Changes in soil organic matter composition are associated with forest encroachment into grassland with longâ€term fire history. European Journal of Soil Science, 2009, 60, 578-589.	1.8	24
133	Sodium silicate and calcium silicate differentially affect silicon and aluminium uptake, antioxidant performance and phenolics metabolism of ryegrass in an acid Andisol. Crop and Pasture Science, 2018, 69, 205.	0.7	24
134	Black carbon yields and types in forest and cultivated sandy soils (Landes de Gascogne, France) as determined with different methods: Influence of change in land use. Organic Geochemistry, 2006, 37, 1185-1189.	0.9	23
135	Composition and distribution of organic matter in physical fractions of a rehabilitated mine soil rich in lignite-derived carbon. Geoderma, 2000, 98, 177-192.	2.3	22
136	Altered soil carbon dynamics under different land-use regimes in subtropical seasonally-dry forests of central Argentina. Plant and Soil, 2016, 403, 375-387.	1.8	22
137	Spatial heterogeneity of soil quality within a Mediterranean alley cropping agroforestry system: Comparison with a monocropping system. European Journal of Soil Biology, 2021, 105, 103330.	1.4	22
138	Effect of base hydrolysis on the chemical composition of organic matter of an acid forest soil. Organic Geochemistry, 2005, 36, 239-249.	0.9	21
139	Contribution of maize root derived C to soil organic carbon throughout an agricultural soil profile assessed by compound specific 13C analysis. Organic Geochemistry, 2012, 42, 1502-1511.	0.9	21
140	Use of organic substrates for increasing soil organic matter quality and carbon sequestration of tropical degraded soil: a 3-year mesocosms experiment. Carbon Management, 2014, 5, 155-168.	1.2	21
141	Co-composting solid biowastes with alkaline materials to enhance carbon stabilization and revegetation potential. Environmental Science and Pollution Research, 2016, 23, 7099-7110.	2.7	21
142	Silicon Modulates the Production and Composition of Phenols in Barley under Aluminum Stress. Agronomy, 2020, 10, 1138.	1.3	21
143	Persistence in soil of Miscanthus biochar in laboratory and field conditions. PLoS ONE, 2017, 12, e0184383.	1.1	21
144	Origin of Nitrogen in Reforested Lignite-Rich Mine Soils Revealed by Stable Isotope Analysis. Environmental Science & Technology, 2008, 42, 2787-2792.	4.6	20

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145	Quantitative and qualitative analysis of cutin in maize and a maize-cropped soil: Comparison of CuO oxidation, transmethylation and saponification methods. Organic Geochemistry, 2010, 41, 187-191.	0.9	20
146	Changes in litter chemistry and soil lignin signature during decomposition and stabilisation of 13C labelled wheat roots in three subsoil horizons. Soil Biology and Biochemistry, 2013, 67, 55-61.	4.2	20
147	The effects of worms, clay and biochar on CO₂ emissions during production and soil application of co-composts. Soil, 2016, 2, 673-683.	2.2	20
148	Management effects on composition and dynamics of cutin and suberin in topsoil under agricultural use. European Journal of Soil Science, 2016, 67, 360-373.	1.8	20
149	Size fractionation as a tool for separating charcoal of different fuel source and recalcitrance in the wildfire ash layer. Science of the Total Environment, 2017, 595, 461-471.	3.9	20
150	Lignite degradation and mineralization in lignite-containing mine sediment as revealed by 14C activity measurements and molecular analysis. Organic Geochemistry, 2006, 37, 957-976.	0.9	19
151	Stable carbon isotope signature and chemical composition of organic matter in lignite-containing mine soils and sediments are closely linked. Organic Geochemistry, 2007, 38, 835-844.	0.9	19
152	Evolution of organic matter in lignite-containing sediments revealed by analytical pyrolysis (Pyâ€“GCâ€“MS). Organic Geochemistry, 2012, 53, 119-130.	0.9	19
153	Grassland Management Influences the Response of Soil Respiration to Drought. Agronomy, 2019, 9, 124.	1.3	19
154	Influence of change in land use on the refractory organic macromolecular fraction of a sandy spodosol (Landes de Gascogne, France). Geoderma, 2006, 136, 136-151.	2.3	18
155	Nature and decomposition degree of cover crops influence pesticide sorption: Quantification and modelling. Chemosphere, 2015, 119, 1007-1014.	4.2	18
156	Methods for Studying Soil Organic Matter. , 2015, , 383-419.		18
157	Mixing of biochar with organic amendments reduces carbon removal after field exposure under tropical conditions. Ecological Engineering, 2016, 91, 378-380.	1.6	18
158	Carbon mineralization and lignin content of eroded sediments from a grazed watershed of South-Africa. Geoderma, 2011, 167-168, 247-253.	2.3	17
159	Molecular-level understanding of malic acid retention mechanisms in ternary kaolinite-Fe(III)-malic acid systems: The importance of Fe speciation. Chemical Geology, 2017, 464, 69-75.	1.4	17
160	Age matters: Fate of soil organic matter during ageing of earthworm casts produced by the anecic earthworm Amynthas khami. Soil Biology and Biochemistry, 2020, 148, 107906.	4.2	17
161	Isolation of soil lignins by combination of ball-milling and cellulolysis: Evaluation of purity and isolation efficiency with pyrolysis/GC/MS. Journal of Analytical and Applied Pyrolysis, 2009, 85, 426-430.	2.6	16
162	Black carbon contribution in volcanic soils affected by wildfire or stubble burning. Organic Geochemistry, 2012, 47, 41-50.	0.9	16

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163	Soils linked to climate change. Nature, 2019, 572, 442-443.	13.7	16
164	Synergistic and Antagonistic Effects of Poultry Manure and Phosphate Rock on Soil P Availability, Ryegrass Production, and P Uptake. Agronomy, 2019, 9, 191.	1.3	16
165	Dynamics of13C-labeled mustard litter (Sinapis alba) in particle-size and aggregate fractions in an agricultural cropland with high- and low-yield areas. Journal of Plant Nutrition and Soil Science, 2007, 170, 123-133.	1.1	15
166	Organic matter stabilization in two Andisols of contrasting age under temperate rain forest. Biology and Fertility of Soils, 2013, 49, 681-689.	2.3	15
167	Soil available P, soil organic carbon and aggregation as affected by long-term poultry manure application to Andisols under pastures in Southern Chile. Geoderma Regional, 2020, 21, e00271.	0.9	15
168	Isotopic tracers for the analysis of vegetation-derived organic matter in lignite-containing soils and sediments along a transect ranging from a forest soil to submerged lake sediment. Organic Geochemistry, 2006, 37, 740-753.	0.9	14
169	Carbon distribution in topâ€•and subsoil horizons of two contrasting Andisols under pasture or forest. European Journal of Soil Science, 2012, 63, 616-624.	1.8	14
170	Opportunities and threats of deep soil organic matter storage. Carbon Management, 2014, 5, 115-117.	1.2	14
171	Characterisation of the microbial biomass in lignite-containing mine soils by radiocarbon measurements. Soil Biology and Biochemistry, 2001, 33, 2019-2021.	4.2	13
172	Biogeochemical nature of grassland soil organic matter under plant communities with two nitrogen sources. Plant and Soil, 2017, 415, 189-201.	1.8	13
173	Promoting plant growth and carbon transfer to soil with organic amendments produced with mineral additives. Geoderma, 2020, 374, 114454.	2.3	13
174	Anecic earthworms generate more topsoil than they contribute to erosion â€“ Evidence at catchment scale in northern Vietnam. Catena, 2021, 201, 105186.	2.2	13
175	A call for international soil experiment networks for studying, predicting, and managing global change impacts. Soil, 2015, 1, 575-582.	2.2	12
176	Managing Soil Organic Carbon for Mitigating Climate Change and Increasing Food Security. Agronomy, 2021, 11, 1553.	1.3	12
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