Johannes Lehmann

List of Publications by Year
in descending order

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330 papers	61,090 citations	2675 95 h-index	962 238 g-index
337 all docs	337 docs citations	337 times ranked	29940 citing authors

#	Article	IF	Citations
1	Persistence of soil organic matter as an ecosystem property. Nature, 2011, 478, 49-56.	27.8	4,243
2	Biochar effects on soil biota â€“ A review. Soil Biology and Biochemistry, 2011, 43, 1812-1836.	8.8	3,514
3	The contentious nature of soil organic matter. Nature, 2015, 528, 60-68.	27.8	2,418
4	Bio-char Sequestration in Terrestrial Ecosystems â€“ A Review. Mitigation and Adaptation Strategies for Global Change, 2006, 11, 403-427.	2.1	2,198
5	Ameliorating physical and chemical properties of highly weathered soils in the tropics with charcoal - a review. Biology and Fertility of Soils, 2002, 35, 219-230.	4.3	2,090
6	A handful of carbon. Nature, 2007, 447, 143-144.	27.8	2,015
7	Sustainable biochar to mitigate global climate change. Nature Communications, 2010, 1, 56.	12.8	1,700
8	Black Carbon Increases Cation Exchange Capacity in Soils. Soil Science Society of America Journal, 2006, 70, 1719-1730.	2.2	1,614
9	Title is missing!. Plant and Soil, 2003, 249, 343-357.	3.7	1,453
10	Bio-energy in the black. Frontiers in Ecology and the Environment, 2007, 5, 381-387.	4.0	1,333
11	Climate-smart soils. Nature, 2016, 532, 49-57.	27.8	1,320
12	The knowns, known unknowns and unknowns of sequestration of soil organic carbon. Agriculture, Ecosystems and Environment, 2013, 164, 80-99.	5.3	1,143
13	Maize yield and nutrition during 4Âyears after biochar application to a Colombian savanna oxisol. Plant and Soil, 2010, 333, 117-128.	3.7	1,003
14	Long term effects of manure, charcoal and mineral fertilization on crop production and fertility on a highly weathered Central Amazonian upland soil. Plant and Soil, 2007, 291, 275-290.	3.7	998
15	Oxidation of black carbon by biotic and abiotic processes. Organic Geochemistry, 2006, 37, 1477-1488.	1.8	942
16	Mycorrhizal responses to biochar in soil â€“ concepts and mechanisms. Plant and Soil, 2007, 300, 9-20.	3.7	940
17	An investigation into the reactions of biochar in soil. Soil Research, 2010, 48, 501.	1.1	840
18	Biological nitrogen fixation by common beans (Phaseolus vulgaris L.) increases with bio-char additions. Biology and Fertility of Soils, 2007, 43, 699-708.	4.3	832

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19	Life Cycle Assessment of Biochar Systems: Estimating the Energetic, Economic, and Climate Change Potential. Environmental Science & Technology, 2010, 44, 827-833.	10.0	813
20	Characterization of biochars to evaluate recalcitrance and agronomic performance. Bioresource Technology, 2012, 114, 644-653.	9.6	783
21	Adsorption of copper and zinc by biochars produced from pyrolysis of hardwood and corn straw in aqueous solution. Bioresource Technology, 2011, 102, 8877-8884.	9.6	781
22	Natural oxidation of black carbon in soils: Changes in molecular form and surface charge along a climosequence. Geochimica Et Cosmochimica Acta, 2008, 72, 1598-1610.	3.9	733
23	Quantitative assessment of microbial necromass contribution to soil organic matter. Global Change Biology, 2019, 25, 3578-3590.	9.5	658
24	Corn growth and nitrogen nutrition after additions of biochars with varying properties to a temperate soil. Biology and Fertility of Soils, 2012, 48, 271-284.	4.3	611
25	Fate of soilâ€applied black carbon: downward migration, leaching and soil respiration. Global Change Biology, 2010, 16, 1366-1379.	9.5	610
26	Factors controlling humification and mineralization of soil organic matter in the tropics. Geoderma, 1997, 79, 117-161.	5.1	559
27	Review of the pyrolysis platform for coproducing bioâ€oil and biochar. Biofuels, Bioproducts and Biorefining, 2009, 3, 547-562.	3.7	554
28	Black carbon affects the cycling of non-black carbon in soil. Organic Geochemistry, 2010, 41, 206-213.	1.8	530
29	Nitrogen retention and plant uptake on a highly weathered central Amazonian Ferralsol amended with compost and charcoal. Journal of Plant Nutrition and Soil Science, 2008, 171, 893-899.	1.9	512
30	Biochar and denitrification in soils: when, how much and why does biochar reduce N2O emissions?. Scientific Reports, 2013, 3, 1732.	3.3	497
31	The concept and future prospects of soil health. Nature Reviews Earth & Environment, 2020, 1, 544-553.	29.7	486
32	Quantifying the Total and Bioavailable Polycyclic Aromatic Hydrocarbons and Dioxins in Biochars. Environmental Science & Technology, 2012, 46, 2830-2838.	10.0	485
33	Energy Balance and Emissions Associated with Biochar Sequestration and Pyrolysis Bioenergy Production. Environmental Science & Technology, 2008, 42, 4152-4158.	10.0	458
34	Rapid electron transfer by the carbon matrix in natural pyrogenic carbon. Nature Communications, 2017, 8, 14873.	12.8	385
35	Spatial complexity of soil organic matter forms at nanometre scales. Nature Geoscience, 2008, 1, 238-242.	12.9	374
36	Persistence of soil organic carbon caused by functional complexity. Nature Geoscience, 2020, 13, 529-534.	12.9	363

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37	Effects of Chemical, Biological, and Physical Aging As Well As Soil Addition on the Sorption of Pyrene to Activated Carbon and Biochar. Environmental Science & Technology, 2011, 45, 10445-10453.	10.0	349
38	Organic matter stabilization in soil microaggregates: implications from spatial heterogeneity of organic carbon contents and carbon forms. Biogeochemistry, 2007, 85, 45-57.	3.5	339
39	Australian climateâ€“carbon cycle feedback reduced by soil black carbon. Nature Geoscience, 2008, 1, 832-835.	12.9	326
40	Black carbon decomposition under varying water regimes. Organic Geochemistry, 2009, 40, 846-853.	1.8	318
41	Temperature Sensitivity of Black Carbon Decomposition and Oxidation. Environmental Science & Technology, 2010, 44, 3324-3331.	10.0	314
42	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	9.1	306
43	Reversibility of Soil Productivity Decline with Organic Matter of Differing Quality Along a Degradation Gradient. Ecosystems, 2008, 11, 726-739.	3.4	305
44	Towards a global-scale soil climate mitigation strategy. Nature Communications, 2020, 11, 5427.	12.8	302
45	Stability of biomass-derived black carbon in soils. Geochimica Et Cosmochimica Acta, 2008, 72, 6069-6078.	3.9	287
46	How biochar works, and when it doesn't: A review of mechanisms controlling soil and plant responses to biochar. GCB Bioenergy, 2021, 13, 1731-1764.	5.6	286
47	Biochar in climate change mitigation. Nature Geoscience, 2021, 14, 883-892.	12.9	263
48	Bacterial Community Composition in Brazilian Anthrosols and Adjacent Soils Characterized Using Culturing and Molecular Identification. Microbial Ecology, 2009, 58, 23-35.	2.8	256
49	Ageing of black carbon along a temperature gradient. Chemosphere, 2009, 75, 1021-1027.	8.2	245
50	Abundant and Stable Char Residues in Soils: Implications for Soil Fertility and Carbon Sequestration. Environmental Science & Technology, 2012, 46, 9571-9576.	10.0	239
51	Stability and stabilisation of biochar and green manure in soil with different organic carbon contents. Soil Research, 2010, 48, 577.	1.1	230
52	The way forward in biochar research: targeting tradeâ€offs between the potential wins. GCB Bioenergy, 2015, 7, 1-13.	5.6	228
53	Microplastic effects on carbon cycling processes in soils. PLoS Biology, 2021, 19, e3001130.	5.6	220
54	Soil Security: Solving the Global Soil Crisis. Global Policy, 2013, 4, 434-441.	1.7	219

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55	Near-edge X-ray absorption fine structure (NEXAFS) spectroscopy for mapping nano-scale distribution of organic carbon forms in soil: Application to black carbon particles. Global Biogeochemical Cycles, 2005, 19, .	4.9	215
56	Double-funneling of trees: Stemflow and root-induced preferential flow. Ecoscience, 2006, 13, 324-333.	1.4	215
57	Aligning agriculture and climate policy. Nature Climate Change, 2017, 7, 307-309.	18.8	213
58	Influences of non-herbaceous biochar on arbuscular mycorrhizal fungal abundances in roots and soils: Results from growth-chamber and field experiments. Applied Soil Ecology, 2010, 46, 450-456.	4.3	207
59	Nitrogen dynamics following field application of biochar in a temperate North American maize-based production system. Plant and Soil, 2013, 365, 239-254.	3.7	207
60	Adsorption and desorption of ammonium by maple wood biochar as a function of oxidation and pH. Chemosphere, 2015, 138, 120-126.	8.2	206
61	Stability of black carbon in soils across a climatic gradient. Journal of Geophysical Research, 2008, 113, .	3.3	203
62	Nutrient Leaching in a Colombian Savanna Oxisol Amended with Biochar. Journal of Environmental Quality, 2012, 41, 1076-1086.	2.0	200
63	CO₂ efflux from Amazonian headwater streams represents a significant fate for deep soil respiration. Geophysical Research Letters, 2008, 35, .	4.0	198
64	Phosphorus Speciation in Manure and Manure-Amended Soils Using XANES Spectroscopy. Environmental Science & Technology, 2005, 39, 7485-7491.	10.0	195
65	Long-term impacts of anthropogenic perturbations on dynamics and speciation of organic carbon in tropical forest and subtropical grassland ecosystems. Global Change Biology, 2007, 13, 511-530.	9.5	191
66	Biochar effects on crop yields with and without fertilizer: A metaâ€analysis of field studies using separate controls. Soil Use and Management, 2020, 36, 2-18.	4.9	188
67	Land use effects on soil organic matter properties of chromic luvisols in semi-arid northern Tanzania: carbon, nitrogen, lignin and carbohydrates. Agriculture, Ecosystems and Environment, 2000, 78, 203-213.	5.3	186
68	Carbon Kâ€Edge NEXAFS and FTIRâ€ATR Spectroscopic Investigation of Organic Carbon Speciation in Soils. Soil Science Society of America Journal, 2005, 69, 107-119.	2.2	186
69	Long-term black carbon dynamics in cultivated soil. Biogeochemistry, 2008, 89, 295-308.	3.5	186
70	Amazonian Anthrosols Support Similar Microbial Communities that Differ Distinctly from Those Extant in Adjacent, Unmodified Soils of the Same Mineralogy. Microbial Ecology, 2010, 60, 192-205.	2.8	186
71	Activated carbon and biochar amendments decrease pore-water concentrations of polycyclic aromatic hydrocarbons (PAHs) in sewage sludge. Bioresource Technology, 2012, 111, 84-91.	9.6	186
72	Comparison of Wet-Digestion and Dry-Ashing Methods for Total Elemental Analysis of Biochar. Communications in Soil Science and Plant Analysis, 2012, 43, 1042-1052.	1.4	182

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73	Bio-Char Soil Management on Highly Weathered Soils in the Humid Tropics. Books in Soils, Plants, and the Environment, 2006, , 517-529.	0.1	180
74	The carbon sequestration potential of terrestrial ecosystems. Journal of Soils and Water Conservation, 2018, 73, 145A-152A.	1.6	180
75	Carbon (1s) NEXAFS Spectroscopy of Biogeochemically Relevant Reference Organic Compounds. Soil Science Society of America Journal, 2009, 73, 1817-1830.	2.2	153
76	The influence of feedstock and production temperature on biochar carbon chemistry: A solid-state 13C NMR study. Biomass and Bioenergy, 2014, 60, 121-129.	5.7	153
77	Biochars and the plant-soil interface. Plant and Soil, 2015, 395, 1-5.	3.7	145
78	Micro- and nano-environments of carbon sequestration: Multi-element STXMâ€“NEXAFS spectromicroscopy assessment of microbial carbon and mineral associations. Chemical Geology, 2012, 329, 53-73.	3.3	142
79	Medium-term effects of corn biochar addition on soil biota activities and functions in a temperate soil cropped to corn. Soil Biology and Biochemistry, 2014, 72, 152-162.	8.8	141
80	Sorption and desorption of Pb(II) to biochar as affected by oxidation and pH. Science of the Total Environment, 2018, 634, 188-194.	8.0	138
81	Techno-economic assessment of biomass slow pyrolysis into different biochar and methanol concepts. Fuel, 2014, 117, 742-748.	6.4	137
82	Dynamics of microbial community composition and soil organic carbon mineralization in soil following addition of pyrogenic and fresh organic matter. ISME Journal, 2016, 10, 2918-2930.	9.8	136
83	Long-term black carbon dynamics in cultivated soil. Biogeochemistry, 2009, 92, 163-176.	3.5	133
84	Ammonium, Nitrate, and Phosphate Sorption to and Solute Leaching from Biochars Prepared from Corn Stover (Zea mays L.) and Oak Wood (Quercus spp.). Journal of Environmental Quality, 2013, 42, 137-144.	2.0	131
85	Quantification and characterization of dissolved organic carbon from biochars. Geoderma, 2019, 335, 161-169.	5.1	130
86	Phosphorus forms and dynamics as influenced by land use changes in the sub-humid Ethiopian highlands. Geoderma, 2002, 105, 21-48.	5.1	127
87	Monitoring the world's agriculture. Nature, 2010, 466, 558-560.	27.8	127
88	Humic Substances Extracted by Alkali Are Invalid Proxies for the Dynamics and Functions of Organic Matter in Terrestrial and Aquatic Ecosystems. Journal of Environmental Quality, 2019, 48, 207-216.	2.0	124
89	Long-Term Dynamics of Phosphorus Forms and Retention in Manure-Amended Soils. Environmental Science & Technology, 2005, 39, 6672-6680.	10.0	123
90	Molecular signature and sources of biochemical recalcitrance of organic C in Amazonian Dark Earths. Geochimica Et Cosmochimica Acta, 2007, 71, 2285-2298.	3.9	118

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91	Landâ€based measures to mitigate climate change: Potential and feasibility by country. Global Change Biology, 2021, 27, 6025-6058.	9.5	114
92	Nanoscale Biogeocomplexity of the Organomineral Assemblage in Soil. Soil Science Society of America Journal, 2006, 70, 1708-1718.	2.2	111
93	Transport and retention of biochar particles in porous media: effect of pH, ionic strength, and particle size. Ecohydrology, 2010, 3, 497-508.	2.4	109
94	Plant-soil interactions in multistrata agroforestry in the humid tropicsa. Agroforestry Systems, 2001, 53, 85-102.	2.0	107
95	Below-ground interactions in dryland agroforestry. Forest Ecology and Management, 1998, 111, 157-169.	3.2	106
96	Towards sustainable land management in the drylands: Scientific connections in monitoring and assessing dryland degradation, climate change and biodiversity. Land Degradation and Development, 2011, 22, 248-260.	3.9	105
97	DOC and DIC in Flowpaths of Amazonian Headwater Catchments with Hydrologically Contrasting Soils. Biogeochemistry, 2006, 81, 45-57.	3.5	99
98	Modelling the long-term response to positive and negative priming of soil organic carbon by black carbon. Biogeochemistry, 2012, 111, 83-95.	3.5	99
99	Optimal bioenergy power generation for climate change mitigation with or without carbon sequestration. Nature Communications, 2016, 7, 13160.	12.8	99
100	Soil erosion, runoff and nutrient losses in an avocado (Persea americana Mill) hillside orchard under different groundcover management systems. Plant and Soil, 2013, 368, 393-406.	3.7	97
101	Synergies between mycorrhizal fungi and soil microbial communities increase plant nitrogen acquisition. Communications Biology, 2019, 2, 233.	4.4	97
102	C 1s K-edge near edge X-ray absorption fine structure (NEXAFS) spectroscopy for characterizing functional group chemistry of black carbon. Organic Geochemistry, 2011, 42, 1055-1064.	1.8	96
103	Sulfur forms in organic substrates affecting S mineralization in soil. Geoderma, 2013, 200-201, 156-164.	5.1	95
104	Simultaneous Quantification of Electron Transfer by Carbon Matrices and Functional Groups in Pyrogenic Carbon. Environmental Science & Technology, 2018, 52, 8538-8547.	10.0	95
105	Organoâ€“organic and organoâ€“mineral interfaces in soil at the nanometer scale. Nature Communications, 2020, 11, 6103.	12.8	95
106	Long-term soil quality degradation along a cultivation chronosequence in western Kenya. Agriculture, Ecosystems and Environment, 2011, 141, 86-99.	5.3	94
107	The impact of mound-building termites on surface soil properties in a secondary forest of Central Amazonia. Applied Soil Ecology, 2007, 37, 267-276.	4.3	93
108	Subsoil root activity in tree-based cropping systems. Plant and Soil, 2003, 255, 319-331.	3.7	91

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109	Organic carbon fluxes within and streamwater exports from headwater catchments in the southern Amazon. Hydrological Processes, 2006, 20, 2599-2614.	2.6	89
110	Phosphorus availability from bone char in a P-fixing soil influenced by root-mycorrhizae-biochar interactions. Plant and Soil, 2016, 408, 95-105.	3.7	89
111	Nutrient availability at different altitudes in a tropical montane forest in Ecuador. Journal of Tropical Ecology, 2008, 24, 397-406.	1.1	88
112	Pyrogenic carbon additions to soil counteract positive priming of soil carbon mineralization by plants. Soil Biology and Biochemistry, 2014, 73, 33-41.	8.8	88
113	Sulfur Kâ€edge XANES Spectroscopy as a Tool for Understanding Sulfur Dynamics in Soil Organic Matter. Soil Science Society of America Journal, 2003, 67, 1721-1731.	2.2	87
114	Atrazine leaching from biochar-amended soils. Chemosphere, 2014, 95, 346-352.	8.2	87
115	Partitioning the contributions of biochar properties to enhanced biological nitrogen fixation in common bean (Phaseolus vulgaris). Biology and Fertility of Soils, 2015, 51, 479-491.	4.3	86
116	Ecotoxicological characterization of biochars: Role of feedstock and pyrolysis temperature. Science of the Total Environment, 2015, 512-513, 552-561.	8.0	82
117	Recycling slaughterhouse waste into fertilizer: how do pyrolysis temperature and biomass additions affect phosphorus availability and chemistry?. Journal of the Science of Food and Agriculture, 2015, 95, 281-288.	3.5	81
118	Modeling black carbon degradation and movement in soil. Plant and Soil, 2011, 345, 223-236.	3.7	80
119	Soil carbon science for policy and practice. Nature Sustainability, 2019, 2, 1070-1072.	23.7	80
120	Aggregate size distribution in a biochar-amended tropical Ultisol under conventional hand-hoe tillage. Soil and Tillage Research, 2017, 165, 190-197.	5.6	78
121	Soil Organic Matter Dynamics in the Subhumid Agroecosystems of the Ethiopian Highlands. Soil Science Society of America Journal, 2002, 66, 969-978.	2.2	77
122	Indigenous African soil enrichment as a climateâ€smart sustainable agriculture alternative. Frontiers in Ecology and the Environment, 2016, 14, 71-76.	4.0	77
123	Biochar by design. Nature Geoscience, 2014, 7, 326-327.	12.9	76
124	Sulphur speciation and turnover in soils: evidence from sulphur K-edge XANES spectroscopy and isotope dilution studies. Soil Biology and Biochemistry, 2006, 38, 1000-1007.	8.8	75
125	Effect of biochars, activated carbon and multiwalled carbon nanotubes on phytotoxicity of sediment contaminated by inorganic and organic pollutants. Ecological Engineering, 2013, 60, 50-59.	3.6	73
126	Soil Organic Matter Composition in the Subhumid Ethiopian Highlands as Influenced by Deforestation and Agricultural Management. Soil Science Society of America Journal, 2002, 66, 68-82.	2.2	72

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127	Phosphorus availability to beans via interactions between mycorrhizas and biochar. Plant and Soil, 2015, 395, 105-123.	3.7	72
128	Soil Organic Matter Dynamics in the Subhumid Agroecosystems of the Ethiopian Highlands. Soil Science Society of America Journal, 2002, 66, 969.	2.2	72
129	Enhanced Cu and Cd sorption after soil aging of woodchip-derived biochar: What were the driving factors?. Chemosphere, 2019, 216, 463-471.	8.2	71
130	Short-term mesofauna responses to soil additions of corn stover biochar and the role of microbial biomass. Applied Soil Ecology, 2015, 89, 10-17.	4.3	69
131	Greenhouse Gas Inventory Model for Biochar Additions to Soil. Environmental Science & Technology, 2021, 55, 14795-14805.	10.0	68
132	The Vertical Pattern of Rooting and Nutrient Uptake at Different Altitudes of a South Ecuadorian Montane Forest. Plant and Soil, 2006, 286, 287-299.	3.7	67
133	Carbon Mineralizability Determines Interactive Effects on Mineralization of Pyrogenic Organic Matter and Soil Organic Carbon. Environmental Science & Technology, 2014, 48, 13727-13734.	10.0	67
134	Decomposition and nutrient release from leaves, twigs and roots of three alley-cropped tree legumes in central Togo. Agroforestry Systems, 1995, 29, 21-36.	2.0	64
135	Ammonium retention by oxidized biochars produced at different pyrolysis temperatures and residence times. RSC Advances, 2016, 6, 41907-41913.	3.6	63
136	Sulfur fractions in particle-size separates of the sub-humid Ethiopian highlands as influenced by land use changes. Geoderma, 2001, 102, 41-59.	5.1	62
137	Community Markets for Conservation (COMACO) links biodiversity conservation with sustainable improvements in livelihoods and food production. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13957-13962.	7.1	62
138	Short-term influence of biochar and fertilizer-biochar blends on soil nutrients, fauna and maize growth. Biology and Fertility of Soils, 2019, 55, 661-673.	4.3	62
139	Microbial models with minimal mineral protection can explain long-term soil organic carbon persistence. Scientific Reports, 2019, 9, 6522.	3.3	62
140	A global agenda for collective action on soil carbon. Nature Sustainability, 2019, 2, 2-4.	23.7	62
141	Comment on "Fire-Derived Charcoal Causes Loss of Forest Humus". Science, 2008, 321, 1295-1295.	12.6	60
142	Interactive priming of soil N transformations from combining biochar and urea inputs: A 15N isotope tracer study. Soil Biology and Biochemistry, 2019, 131, 166-175.	8.8	60
143	Soil organic matter attenuates the efficacy of flavonoid-based plant-microbe communication. Science Advances, 2020, 6, eaax8254.	10.3	60
144	Climate Change Impact of Biochar Cook Stoves in Western Kenyan Farm Households: System Dynamics Model Analysis. Environmental Science & Technology, 2011, 45, 3687-3694.	10.0	58

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145	Biofuels from Pyrolysis in Perspective: Trade-offs between Energy Yields and Soil-Carbon Additions. Environmental Science & Technology, 2014, 48, 6492-6499.	10.0	58
146	Organic matter stabilization in a Xanthic Ferralsol of the central Amazon as affected by single trees: chemical characterization of density, aggregate, and particle size fractions. Geoderma, 2001, 99, 147-168.	5.1	57
147	Termite (Insecta: Isoptera) Species Composition in a Primary Rain Forest and Agroforests in Central Amazonia. Biotropica, 2009, 41, 226-233.	1.6	57
148	Soil fungal taxonomic and functional community composition as affected by biochar properties. Soil Biology and Biochemistry, 2018, 126, 159-167.	8.8	57
149	Weed composition and cover after three years of soil fertility management in the central Brazilian Amazon: Compost, fertilizer, manure and charcoal applications. Weed Biology and Management, 2005, 5, 69-76.	1.4	55
150	Biocharâ€"One way forward for soil carbon in offset mechanisms in Africa?. Environmental Science and Policy, 2009, 12, 1024-1027.	4.9	55
151	Soil macrofauna abundance under dominant tree species increases along a soil degradation gradient. Soil Biology and Biochemistry, 2017, 112, 35-46.	8.8	55
152	Biological carbon sequestration must and can be a win-win approach. Climatic Change, 2009, 97, 459-463.	3.6	54
153	â€œModeling the impact of natural resource-based poverty traps on food security in Kenya: The Crops, Livestock and Soils in Smallholder Economic Systems (CLASSES) modelâ€• Food Security, 2012, 4, 423-439.	5.3	54
154	Machine learning in space and time for modelling soil organic carbon change. European Journal of Soil Science, 2021, 72, 1607-1623.	3.9	53
155	Micro- and nano-environments of C sequestration in soil: A multi-elemental STXMâ€“NEXAFS assessment of black C and organomineral associations. Science of the Total Environment, 2012, 438, 372-388.	8.0	51
156	Soil organic sulfur forms and dynamics in the Great Plains of North America as influenced by long-term cultivation and climate. Geoderma, 2006, 133, 160-172.	5.1	50
157	Soil organic C stabilization and thresholds in C saturation. Soil Biology and Biochemistry, 2009, 41, 2100-2104.	8.8	50
158	Fluorescence index as an indicator of dissolved organic carbon quality in hydrologic flowpaths of forested tropical watersheds. Biogeochemistry, 2011, 105, 149-157.	3.5	50
159	Fine root turnover of irrigated hedgerow intercropping in Northern Kenya. Plant and Soil, 1998, 198, 19-31.	3.7	48
160	Land use effects on amino sugar signature of chromic Luvisol in the semi-arid part of northern Tanzania. Biology and Fertility of Soils, 2001, 33, 33-40.	4.3	48
161	Nitrogen transfer between high- and low-quality leaves on a nutrient-poor Oxisol determined by N enrichment. Soil Biology and Biochemistry, 2005, 37, 787-794.	8.8	48
162	Anthropogenic soils in the Central Amazon: from categories to a continuum. Area, 2011, 43, 264-273.	1.6	48

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163	Stream Discharge in Tropical Headwater Catchments as a Result of Forest Clearing and Soil Degradation. Earth Interactions, 2012, 16, 1-18.	1.5	48
164	Microbial Response to Charcoal Amendments of Highly Weathered Soils and Amazonian Dark Earths in Central Amazonia â€" Preliminary Results. , 2004, , 195-212.		48
165	Root Morphology and Anchorage of Six Native Tree Species from a Tropical Montane Forest and an Elfin Forest in Ecuador. Plant and Soil, 2006, 279, 173-185.	3.7	47
166	Biomass availability, energy consumption and biochar production in rural households of Western Kenya. Biomass and Bioenergy, 2011, 35, 3537-3546.	5.7	47
167	Carbon and nitrogen mineralization in cultivated and natural savanna soils of Northern Tanzania. Biology and Fertility of Soils, 2001, 33, 301-309.	4.3	46
168	Ammonia and nitrous oxide emissions from a field Ultisol amended with tithonia green manure, urea, and biochar. Biology and Fertility of Soils, 2019, 55, 135-148.	4.3	46
169	Subsoil organo-mineral associations under contrasting climate conditions. Geochimica Et Cosmochimica Acta, 2020, 270, 244-263.	3.9	46
170	Water use efficiency and uptake patterns in a runoff agroforestry system in an arid environment. Agroforestry Systems, 2000, 49, 223-243.	2.0	45
171	Soil Organic Matter Composition in the Subhumid Ethiopian Highlands as Influenced by Deforestation and Agricultural Management. Soil Science Society of America Journal, 2002, 66, 68.	2.2	45
172	Atmospheric SO₂Emissions Since the Late 1800s Change Organic Sulfur Forms in Humic Substance Extracts of Soils. Environmental Science & Technology, 2008, 42, 3550-3555.	10.0	44
173	Sorption properties for black carbon (wood char) after long term exposure in soils. Organic Geochemistry, 2014, 70, 53-61.	1.8	44
174	Soil Biodiversity Effects from Field to Fork. Trends in Plant Science, 2018, 23, 17-24.	8.8	44
175	Life Cycle Assessment and Technoeconomic Analysis of Thermochemical Conversion Technologies Applied to Poultry Litter with Energy and Nutrient Recovery. ACS Sustainable Chemistry and Engineering, 2020, 8, 8436-8447.	6.7	44
176	Title is missing!. Agroforestry Systems, 2000, 50, 59-75.	2.0	43
177	Influence of activated carbon and biochar on phytotoxicity of air-dried sewage sludges to Lepidium sativum. Ecotoxicology and Environmental Safety, 2012, 80, 321-326.	6.0	43
178	Stimulating Nitrate Removal Processes of Restored Wetlands. Environmental Science & Technology, 2014, 48, 7365-7373.	10.0	43
179	â€˜4 per 1,000â€™ initiative will boost soil carbon for climate and food security. Nature, 2018, 553, 27-27.	27.8	43
180	Priming mechanisms with additions of pyrogenic organic matter to soil. Geochimica Et Cosmochimica Acta, 2018, 238, 329-342.	3.9	42

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181	Soil fungal mycelia have unexpectedly flexible stoichiometric C:N and C:P ratios. Ecology Letters, 2021, 24, 208-218.	6.4	41
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