Johannes Lehmann

List of Publications by Year
in descending order

330 papers	61,090 citations	2669 95 h-index	959 238 g-index
337 all docs	337 docs citations	337 times ranked	29940 citing authors

#	ARTICLE	IF	CITATIONS
1	Valorization of animal bone waste for agricultural use through biomass co-pyrolysis and bio-augmentation. Biomass Conversion and Biorefinery, 2023, 13, 12823-12832.	2.9	3
2	Probing the nature of soil organic matter. Critical Reviews in Environmental Science and Technology, 2022, 52, 4072-4093.	6.6	35
3	Biochar-based fertilizer effects on crop productivity: a meta-analysis. Plant and Soil, 2022, 472, 45-58.	1.8	35
4	Soil organic carbon accrual due to more efficient microbial utilization of plant inputs at greater long-term soil moisture. Geochimica Et Cosmochimica Acta, 2022, 327, 170-185.	1.6	12
5	Susceptibility of new soil organic carbon to mineralization during dry-wet cycling in soils from contrasting ends of a precipitation gradient. Soil Biology and Biochemistry, 2022, 169, 108681.	4.2	11
6	Undisciplining the university through shared purpose, practice, and place. Humanities and Social Sciences Communications, 2022, 9, .	1.3	3
7	Evidence confirms an anthropic origin of Amazonian Dark Earths. Nature Communications, 2022, 13, .	5.8	14
8	Machine learning in space and time for modelling soil organic carbon change. European Journal of Soil Science, 2021, 72, 1607-1623.	1.8	53
9	Soil fungal mycelia have unexpectedly flexible stoichiometric C:N and C:P ratios. Ecology Letters, 2021, 24, 208-218.	3.0	41
10	Scientific publishing for greater research impact. Nutrient Cycling in Agroecosystems, 2021, 119, 1-5.	1.1	2
11	Recommendations for stronger biochar research in soil biology and fertility. Biology and Fertility of Soils, 2021, 57, 333-336.	2.3	13
12	Ten simple rules for hosting artists in a scientific lab. PLoS Computational Biology, 2021, 17, e1008675.	1.5	16
13	Microbial Community Shifts Reflect Losses of Native Soil Carbon with Pyrogenic and Fresh Organic Matter Additions and Are Greatest in Low-Carbon Soils. Applied and Environmental Microbiology, 2021, 87, .	1.4	9
14	Microplastic effects on carbon cycling processes in soils. PLoS Biology, 2021, 19, e3001130.	2.6	220
15	Perceptions of naturalness predict US public support for Soil Carbon Storage as a climate solution. Climatic Change, 2021, 166, 1.	1.7	15
16	Plants and mycorrhizal symbionts acquire substantial soil nitrogen from gaseous ammonia transport. New Phytologist, 2021, 231, 1746-1757.	3.5	12
17	Suppressing peatland methane production by electron snorkeling through pyrogenic carbon in controlled laboratory incubations. Nature Communications, 2021, 12, 4119.	5.8	21
18	Plant uptake of nitrogen adsorbed to biochars made from dairy manure. Scientific Reports, 2021, 11, 15001.	1.6	8

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19	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.	2.5	286
20	Co-precipitation induces changes to iron and carbon chemistry and spatial distribution at the nanometer scale. Geochimica Et Cosmochimica Acta, 2021, 314, 1-15.	1.6	10
21	Greenhouse Gas Inventory Model for Biochar Additions to Soil. Environmental Science & Technology, 2021, 55, 14795-14805.	4.6	68
22	Landâ€based measures to mitigate climate change: Potential and feasibility by country. Global Change Biology, 2021, 27, 6025-6058.	4.2	114
23	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	5.2	306
24	Biochar in climate change mitigation. Nature Geoscience, 2021, 14, 883-892.	5.4	263
25	Dominant tree species and earthworms affect soil aggregation and carbon content along a soil degradation gradient in an agricultural landscape. Geoderma, 2020, 359, 113983.	2.3	16
26	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.	2.6	188
27	Subsoil organo-mineral associations under contrasting climate conditions. Geochimica Et Cosmochimica Acta, 2020, 270, 244-263.	1.6	46
28	Short-term casting activity of earthworm Pontoscolex corethrurus (Oligochaeta: Glossoscolecidae) after biochar additions. Soil Biology and Biochemistry, 2020, 143, 107736.	4.2	7
29	Persistence of soil organic carbon caused by functional complexity. Nature Geoscience, 2020, 13, 529-534.	5.4	363
30	Towards a global-scale soil climate mitigation strategy. Nature Communications, 2020, 11, 5427.	5.8	302
31	The concept and future prospects of soil health. Nature Reviews Earth & Environment, 2020, 1, 544-553.	12.2	486
32	Ammonia volatilization from composting with oxidized biochar. Journal of Environmental Quality, 2020, 49, 1690-1702.	1.0	12
33	Organoâ€"organic and organoâ€"mineral interfaces in soil at the nanometer scale. Nature Communications, 2020, 11, 6103.	5.8	95
34	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.	3.2	44
35	Organo-mineral interactions and soil carbon mineralizability with variable saturation cycle frequency. Geoderma, 2020, 375, 114483.	2.3	27
36	Techno-Economic Feasibility and Spatial Analysis of Thermochemical Conversion Pathways for Regional Poultry Waste Valorization. ACS Sustainable Chemistry and Engineering, 2020, 8, 5763-5775.	3.2	23

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37	Nitrogen speciation and transformations in fire-derived organic matter. Geochimica Et Cosmochimica Acta, 2020, 276, 170-185.	1.6	22
38	Poultry Waste Valorization via Pyrolysis Technologies: Economic and Environmental Life Cycle Optimization for Sustainable Bioenergy Systems. ACS Sustainable Chemistry and Engineering, 2020, 8, 4633-4646.	3.2	34
39	Soil organic matter attenuates the efficacy of flavonoid-based plant-microbe communication. Science Advances, 2020, 6, eaax8254.	4.7	60
40	Sequential Ammonia and Carbon Dioxide Adsorption on Pyrolyzed Biomass to Recover Waste Stream Nutrients. ACS Sustainable Chemistry and Engineering, 2020, 8, 7121-7131.	3.2	15
41	Removal of atmospheric CO2 by rock weathering holds promise for mitigating climate change. Nature, 2020, 583, 204-205.	13.7	19
42	Quantification and characterization of dissolved organic carbon from biochars. Geoderma, 2019, 335, 161-169.	2.3	130
43	Sounds of Soil: A New World of Interactions under Our Feet?. Soil Systems, 2019, 3, 45.	1.0	27
44	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.	2.3	62
45	Reply to â€œComment on â€˜Humic Substances Extracted by Alkali Are Invalid Proxies for the Dynamics and Functions of Organic Matter in Terrestrial and Aquatic Ecosystems,â€™ by Kleber and Lehmann (2019)â€• Journal of Environmental Quality, 2019, 48, 790-791.	1.0	0
46	Quantitative assessment of microbial necromass contribution to soil organic matter. Global Change Biology, 2019, 25, 3578-3590.	4.2	658
47	Carbon and nitrogen emissions rates and heat transfer of an indirect pyrolysis biomass cookstove. Biomass and Bioenergy, 2019, 127, 105279.	2.9	5
48	Synergies between mycorrhizal fungi and soil microbial communities increase plant nitrogen acquisition. Communications Biology, 2019, 2, 233.	2.0	97
49	Nodulation of beans with inoculant carriers from pyrolyzed and non-pyrolyzed sugarcane bagasse in response to different pre-planting water availability. Applied Soil Ecology, 2019, 143, 126-133.	2.1	5
50	Long-term sorption of lincomycin to biochars: The intertwined roles of pore diffusion and dissolved organic carbon. Water Research, 2019, 161, 108-118.	5.3	39
51	Agricultural Productivity and Soil Carbon Dynamics: A Bioeconomic Model. American Journal of Agricultural Economics, 2019, 101, 1021-1046.	2.4	20
52	Biological and thermochemical conversion of human solid waste to soil amendments. Waste Management, 2019, 89, 366-378.	3.7	22
53	Microbial models with minimal mineral protection can explain long-term soil organic carbon persistence. Scientific Reports, 2019, 9, 6522.	1.6	62
54	Carbonate determination in soils by mid-IR spectroscopy with regional and continental scale models. PLoS ONE, 2019, 14, e0210235.	1.1	22

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55	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.	1.0	124
56	Andosol clay re-aggregation observed at the microscale during physical organic matter fractionation. Journal of Plant Nutrition and Soil Science, 2019, 182, 145-148.	1.1	4
57	Fire-derived organic matter retains ammonia through covalent bond formation. Nature Communications, 2019, 10, 664.	5.8	38
58	Soil carbon science for policy and practice. Nature Sustainability, 2019, 2, 1070-1072.	11.5	80
59	Science-to-action through global and regional biochar networks. Biochar, 2019, 1, 337-337.	6.2	4
60	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.	4.2	60
61	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.	2.3	46
62	A global agenda for collective action on soil carbon. Nature Sustainability, 2019, 2, 2-4.	11.5	62
63	Enhanced Cu and Cd sorption after soil aging of woodchip-derived biochar: What were the driving factors?. Chemosphere, 2019, 216, 463-471.	4.2	71
64	Lower mineralizability of soil carbon with higher legacy soil moisture. Soil Biology and Biochemistry, 2019, 130, 94-104.	4.2	36
65	Learning scientific creativity from the arts. Palgrave Communications, 2019, 5, .	4.7	22
66	Soil Amendments Affect Soil Health Indicators and Crop Yield in Perennial Strawberry. HortTechnology, 2019, 29, 179-188.	0.5	9
67	Arbuscular mycorrhizal fungal and soil microbial communities in African Dark Earths. FEMS Microbiology Ecology, 2018, 94, .	1.3	7
68	Fuel sensitivity of biomass cookstove performance. Applied Energy, 2018, 215, 13-20.	5.1	27
69	Sorption and desorption of Pb(II) to biochar as affected by oxidation and pH. Science of the Total Environment, 2018, 634, 188-194.	3.9	138
70	Soil Biodiversity Effects from Field to Fork. Trends in Plant Science, 2018, 23, 17-24.	4.3	44
71	The carbon sequestration potential of terrestrial ecosystems. Journal of Soils and Water Conservation, 2018, 73, 145A-152A.	0.8	180
72	Nitrogen and Phosphorus Availability of Biologically and Thermochemically Decomposed Human Wastes and Urine in Soils With Different Texture and pH. Soil Science, 2018, 183, 51-65.	0.9	4

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73	Soil organic carbon dynamics matching ecological equilibrium theory. Ecology and Evolution, 2018, 8, 11169-11178.	0.8	18
74	Soil fungal taxonomic and functional community composition as affected by biochar properties. Soil Biology and Biochemistry, 2018, 126, 159-167.	4.2	57
75	Simultaneous Quantification of Electron Transfer by Carbon Matrices and Functional Groups in Pyrogenic Carbon. Environmental Science & Technology, 2018, 52, 8538-8547.	4.6	95
76	Priming mechanisms with additions of pyrogenic organic matter to soil. Geochimica Et Cosmochimica Acta, 2018, 238, 329-342.	1.6	42
77	â€˜4 per 1,000â€™ initiative will boost soil carbon for climate and food security. Nature, 2018, 553, 27-27.	13.7	43
78	Soils. Encyclopedia of Earth Sciences Series, 2018, , 1347-1352.	0.1	0
79	Development of a buried bag technique to study biochars incorporated in a compost or composting medium. Journal of Soils and Sediments, 2017, 17, 656-664.	1.5	7
80	Assessing soil carbon vulnerability in the Western USA by geospatial modeling of pyrogenic and particulate carbon stocks. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 354-369.	1.3	17
81	Pyrogenic carbon distribution in mineral topsoils of the northeastern United States. Geoderma, 2017, 296, 69-78.	2.3	7
82	Soil macrofauna abundance under dominant tree species increases along a soil degradation gradient. Soil Biology and Biochemistry, 2017, 112, 35-46.	4.2	55
83	Aligning agriculture and climate policy. Nature Climate Change, 2017, 7, 307-309.	8.1	213
84	Emissions intensity and carbon stocks of a tropical Ultisol after amendment with Tithonia green manure, urea and biochar. Field Crops Research, 2017, 209, 179-188.	2.3	24
85	Rapid electron transfer by the carbon matrix in natural pyrogenic carbon. Nature Communications, 2017, 8, 14873.	5.8	385
86	DNA extraction efficiency from soil as affected by pyrolysis temperature and extractable organic carbon of high-ash biochar. Soil Biology and Biochemistry, 2017, 115, 129-136.	4.2	24
87	An openâ€source biomass pyrolysis reactor. Biofuels, Bioproducts and Biorefining, 2017, 11, 945-954.	1.9	19
88	Spatial variation of soil macrofauna and nutrients in tropical agricultural systems influenced by historical charcoal production in South Nandi, Kenya. Applied Soil Ecology, 2017, 119, 286-293.	2.1	10
89	Aggregate size distribution in a biochar-amended tropical Ultisol under conventional hand-hoe tillage. Soil and Tillage Research, 2017, 165, 190-197.	2.6	78
90	Carbon and nitrogen molecular composition of soil organic matter fractions resistant to oxidation. Soil Research, 2017, 55, 809.	0.6	2

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91	Soils. Encyclopedia of Earth Sciences Series, 2017, , 1-6.	0.1	0
92	Indigenous African soil enrichment as a climateâ€smart sustainable agriculture alternative. Frontiers in Ecology and the Environment, 2016, 14, 71-76.	1.9	77
93	Climate-smart soils. Nature, 2016, 532, 49-57.	13.7	1,320
94	Ammonium retention by oxidized biochars produced at different pyrolysis temperatures and residence times. RSC Advances, 2016, 6, 41907-41913.	1.7	63
95	Phosphorus availability from bone char in a P-fixing soil influenced by root-mycorrhizae-biochar interactions. Plant and Soil, 2016, 408, 95-105.	1.8	89
96	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.	4.4	136
97	Microbial mineralization of pyrogenic organic matter in different mineral systems. Organic Geochemistry, 2016, 98, 18-26.	0.9	14
98	Optimal bioenergy power generation for climate change mitigation with or without carbon sequestration. Nature Communications, 2016, 7, 13160.	5.8	99
99	Sorption of Lincomycin by Manure-Derived Biochars from Water. Journal of Environmental Quality, 2016, 45, 519-527.	1.0	36
100	Sulfur dynamics during long-term ecosystem development. Biogeochemistry, 2016, 128, 281-305.	1.7	30
101	Maize productivity dynamics in response to mineral nutrient additions and legacy organic soil inputs of contrasting quality. Field Crops Research, 2016, 188, 113-120.	2.3	24
102	A dual-isotope approach to allow conclusive partitioning between three sources. Nature Communications, 2015, 6, 8708.	5.8	30
103	Terrestrial pyrogenic carbon export to fluvial ecosystems: Lessons learned from the White Nile watershed of East Africa. Global Biogeochemical Cycles, 2015, 29, 1911-1928.	1.9	27
104	Recent achievement of sustainable soil management in Sub-Saharan Africa. Nutrient Cycling in Agroecosystems, 2015, 102, 1-3.	1.1	10
105	Adsorption and desorption of ammonium by maple wood biochar as a function of oxidation and pH. Chemosphere, 2015, 138, 120-126.	4.2	206
106	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.	1.7	81
107	Ecotoxicological characterization of biochars: Role of feedstock and pyrolysis temperature. Science of the Total Environment, 2015, 512-513, 552-561.	3.9	82
108	Short-term mesofauna responses to soil additions of corn stover biochar and the role of microbial biomass. Applied Soil Ecology, 2015, 89, 10-17.	2.1	69

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109	Tradeâ€offs between soilâ€based functions in wetlands restored with soil amendments of differing lability. Ecological Applications, 2015, 25, 215-225.	1.8	16
110	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.	2.3	86
111	Reverse engineering of biochar. Bioresource Technology, 2015, 183, 163-174.	4.8	33
112	Organic carbon dynamics in soils with pyrogenic organic matter that received plant residue additions over seven years. Soil Biology and Biochemistry, 2015, 88, 268-274.	4.2	25
113	Biochars and the plant-soil interface. Plant and Soil, 2015, 395, 1-5.	1.8	145
114	The contentious nature of soil organic matter. Nature, 2015, 528, 60-68.	13.7	2,418
115	Trace element biogeochemistry in the soil-water-plant system of a temperate agricultural soil amended with different biochars. Environmental Science and Pollution Research, 2015, 22, 4513-4526.	2.7	24
116	Methods for Studying Soil Organic Matter. , 2015, , 383-419.		18
117	Phosphorus availability to beans via interactions between mycorrhizas and biochar. Plant and Soil, 2015, 395, 105-123.	1.8	72
118	The way forward in biochar research: targeting tradeâ€offs between the potential wins. GCB Bioenergy, 2015, 7, 1-13.	2.5	228
119	Pyrogenic carbon controls across a soil catena in the Pacific Northwest. Catena, 2015, 124, 53-59.	2.2	19
120	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
121	Filling the phosphorus fertilizer gap in developing countries. Nature Geoscience, 2014, 7, 3-3.	5.4	33
122	N₂O and CH₄ emission from soil amended with steamâ€activated biochar. Journal of Plant Nutrition and Soil Science, 2014, 177, 34-38.	1.1	38
123	Carbon Mineralizability Determines Interactive Effects on Mineralization of Pyrogenic Organic Matter and Soil Organic Carbon. Environmental Science & Technology, 2014, 48, 13727-13734.	4.6	67
124	Distinguishing variability from uncertainty. Nature Climate Change, 2014, 4, 153-153.	8.1	36
125	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.	4.2	141
126	Sorption properties for black carbon (wood char) after long term exposure in soils. Organic Geochemistry, 2014, 70, 53-61.	0.9	44

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127	Techno-economic assessment of biomass slow pyrolysis into different biochar and methanol concepts. Fuel, 2014, 117, 742-748.	3.4	137
128	The influence of feedstock and production temperature on biochar carbon chemistry: A solid-state 13C NMR study. Biomass and Bioenergy, 2014, 60, 121-129.	2.9	153
129	Can functional group composition of alkaline isolates from black carbon-rich soils be identified on a sub-100nm scale?. Geoderma, 2014, 235-236, 163-169.	2.3	13
130	Short- and long-term flammability of biochars. Biomass and Bioenergy, 2014, 69, 183-191.	2.9	38
131	Biochar by design. Nature Geoscience, 2014, 7, 326-327.	5.4	76
132	Biofuels from Pyrolysis in Perspective: Trade-offs between Energy Yields and Soil-Carbon Additions. Environmental Science & Technology, 2014, 48, 6492-6499.	4.6	58
133	Pyrogenic carbon additions to soil counteract positive priming of soil carbon mineralization by plants. Soil Biology and Biochemistry, 2014, 73, 33-41.	4.2	88
134	Atrazine leaching from biochar-amended soils. Chemosphere, 2014, 95, 346-352.	4.2	87
135	Stimulating Nitrate Removal Processes of Restored Wetlands. Environmental Science & Technology, 2014, 48, 7365-7373.	4.6	43
136	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.	1.8	97
137	Nitrogen dynamics following field application of biochar in a temperate North American maize-based production system. Plant and Soil, 2013, 365, 239-254.	1.8	207
138	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.	1.6	73
139	One size does not fit all: Conservation farming success in Africa more dependent on management than on location. Agriculture, Ecosystems and Environment, 2013, 179, 200-207.	2.5	13
140	Sulfur forms in organic substrates affecting S mineralization in soil. Geoderma, 2013, 200-201, 156-164.	2.3	95
141	Recycle waste for nourishing soils. Nature, 2013, 504, 33-33.	13.7	6
142	Stream water nutrient and organic carbon exports from tropical headwater catchments at a soil degradation gradient. Nutrient Cycling in Agroecosystems, 2013, 95, 145-158.	1.1	22
143	Predicting pyrogenic organic matter mineralization from its initial properties and implications for carbon management. Organic Geochemistry, 2013, 64, 76-83.	0.9	29
144	The knowns, known unknowns and unknowns of sequestration of soil organic carbon. Agriculture, Ecosystems and Environment, 2013, 164, 80-99.	2.5	1,143

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145	Biochar and denitrification in soils: when, how much and why does biochar reduce N2O emissions?. Scientific Reports, 2013, 3, 1732.	1.6	497
146	Soil Security: Solving the Global Soil Crisis. Global Policy, 2013, 4, 434-441.	1.0	219
147	Ammonium, Nitrate, and Phosphate Sorption to and Solute Leaching from Biochars Prepared from Corn Stover (<i>Zea mays</i> L.) and Oak Wood (<i>Quercus</i> spp.). Journal of Environmental Quality, 2013, 42, 137-144.	1.0	131
148	Soil Properties and Vegetative Development in Four Restored Freshwater Depressional Wetlands. Soil Science Society of America Journal, 2012, 76, 1482-1495.	1.2	28
149	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.	0.6	182
150	Stream Discharge in Tropical Headwater Catchments as a Result of Forest Clearing and Soil Degradation. Earth Interactions, 2012, 16, 1-18.	0.7	48
151	Keeping carbon down. Carbon Management, 2012, 3, 21-22.	1.2	2
152	The Effects of Some External Management Factors on the Nitrogen Composition of Cattle Manure on Smallholder Farms. International Journal of Agronomy, 2012, 2012, 1-11.	0.5	4
153	Nutrient Leaching in a Colombian Savanna Oxisol Amended with Biochar. Journal of Environmental Quality, 2012, 41, 1076-1086.	1.0	200
154	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
155	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.	1.4	142
156	Effective monitoring of agriculture: a response. Journal of Environmental Monitoring, 2012, 14, 738.	2.1	16
157	Influence of activated carbon and biochar on phytotoxicity of air-dried sewage sludges to Lepidium sativum. Ecotoxicology and Environmental Safety, 2012, 80, 321-326.	2.9	43
158	Quantifying the Total and Bioavailable Polycyclic Aromatic Hydrocarbons and Dioxins in Biochars. Environmental Science & Technology, 2012, 46, 2830-2838.	4.6	485
159	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.	2.4	54
160	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.	3.9	51
161	Abundant and Stable Char Residues in Soils: Implications for Soil Fertility and Carbon Sequestration. Environmental Science & Technology, 2012, 46, 9571-9576.	4.6	239
162	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.	2.3	611

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163	Analytical electron microscopy of black carbon and microaggregated mineral matter in Amazonian dark Earth. Journal of Microscopy, 2012, 245, 129-139.	0.8	18
164	Activated carbon and biochar amendments decrease pore-water concentrations of polycyclic aromatic hydrocarbons (PAHs) in sewage sludge. Bioresource Technology, 2012, 111, 84-91.	4.8	186
165	Characterization of biochars to evaluate recalcitrance and agronomic performance. Bioresource Technology, 2012, 114, 644-653.	4.8	783
166	Climate Change Impact of Biochar Cook Stoves in Western Kenyan Farm Households: System Dynamics Model Analysis. Environmental Science & Technology, 2011, 45, 3687-3694.	4.6	58
167	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.	4.6	349
168	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.	3.3	62
169	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.	0.9	96
170	Persistence of soil organic matter as an ecosystem property. Nature, 2011, 478, 49-56.	13.7	4,243
171	Speciation and Longâ€•and Shortâ€term Molecularâ€level Dynamics of Soil Organic Sulfur Studied by Xâ€ray Absorption Nearâ€Edge Structure Spectroscopy. Journal of Environmental Quality, 2011, 40, 704-718.	1.0	33
172	Wavelet analysis of soil variation at nanometre- to micrometre-scales: an example of organic carbon content in a micro-aggregate. European Journal of Soil Science, 2011, 62, 617-628.	1.8	12
173	Anthropogenic soils in the Central Amazon: from categories to a continuum. Area, 2011, 43, 264-273.	1.0	48
174	Biochar effects on soil biota â€" A review. Soil Biology and Biochemistry, 2011, 43, 1812-1836.	4.2	3,514
175	Charcoal quality does not change over a century in a tropical agro-ecosystem. Soil Biology and Biochemistry, 2011, 43, 1992-1994.	4.2	36
176	Adsorption of copper and zinc by biochars produced from pyrolysis of hardwood and corn straw in aqueous solution. Bioresource Technology, 2011, 102, 8877-8884.	4.8	781
177	Long-term soil quality degradation along a cultivation chronosequence in western Kenya. Agriculture, Ecosystems and Environment, 2011, 141, 86-99.	2.5	94
178	Fluorescence index as an indicator of dissolved organic carbon quality in hydrologic flowpaths of forested tropical watersheds. Biogeochemistry, 2011, 105, 149-157.	1.7	50
179	Runoff sources and land cover change in the Amazon: an end-member mixing analysis from small watersheds. Biogeochemistry, 2011, 105, 7-18.	1.7	33
180	Modeling black carbon degradation and movement in soil. Plant and Soil, 2011, 345, 223-236.	1.8	80

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181	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.	1.8	105
182	Biomass availability, energy consumption and biochar production in rural households of Western Kenya. Biomass and Bioenergy, 2011, 35, 3537-3546.	2.9	47
183	Biochar in Soil for Climate Change Mitigation and Adaptation. Soil Biology, 2011, , 345-368.	0.6	19
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