Bruno Glaser

List of Publications by Year
in descending order

193	17,837	20817 60	14208 128
papers	citations	h-index	g-index

196	196	196	13691
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Title is missing!. Plant and Soil, 2003, 249, 343-357.	3.7	1,453
3	The 'Terra Preta' phenomenon: a model for sustainable agriculture in the humid tropics. Die Naturwissenschaften, 2001, 88, 37-41.	1.6	818
4	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
5	Technical, Economical, and Climate-Related Aspects of Biochar Production Technologies: A Literature Review. Environmental Science & Technology, 2011, 45, 9473-9483.	10.0	483
6	Biochar stability in soil: Decomposition during eight years and transformation as assessed by compound-specific 14C analysis. Soil Biology and Biochemistry, 2014, 70, 229-236.	8.8	442
7	Black carbon in soils: the use of benzenecarboxylic acids as specific markers. Organic Geochemistry, 1998, 29, 811-819.	1.8	422
8	State of the scientific knowledge on properties and genesis of Anthropogenic Dark Earths in Central Amazonia (terra preta de Ãndio). Geochimica Et Cosmochimica Acta, 2012, 82, 39-51.	3.9	404
9	Black carbon in density fractions of anthropogenic soils of the Brazilian Amazon region. Organic Geochemistry, 2000, 31, 669-678.	1.8	402
10	One Step Forward toward Characterization: Some Important Material Properties to Distinguish Biochars. Journal of Environmental Quality, 2012, 41, 1001-1013.	2.0	398
11	Effects of biochar compared to organic and inorganic fertilizers on soil quality and plant growth in a greenhouse experiment. Journal of Plant Nutrition and Soil Science, 2012, 175, 410-422.	1.9	380
12	An evaluation of geochemical weathering indices in loessâ€“paleosol studies. Quaternary International, 2011, 240, 12-21.	1.5	362
13	Prehistorically modified soils of central Amazonia: a model for sustainable agriculture in the twenty-first century. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 187-196.	4.0	330
14	Amino sugars and muramic acidâ€”biomarkers for soil microbial community structure analysis. Soil Biology and Biochemistry, 2004, 36, 399-407.	8.8	271
15	Comparative analysis of black carbon in soils. Global Biogeochemical Cycles, 2001, 15, 163-167.	4.9	267
16	Revised black carbon assessment using benzene polycarboxylic acids. Organic Geochemistry, 2005, 36, 1299-1310.	1.8	267
17	Positive effects of composted biochar on plant growth and soil fertility. Agronomy for Sustainable Development, 2013, 33, 817-827.	5.3	252
18	Biochar effects on phosphorus availability in agricultural soils: A meta-analysis. Scientific Reports, 2019, 9, 9338.	3.3	250

#	Article	IF	Citations
19	Shortâ€term effect of biochar and compost on soil fertility and water status of a Dystric Cambisol in NE Germany under field conditions. Journal of Plant Nutrition and Soil Science, 2012, 175, 698-707.	1.9	248
20	Climate extremes initiate ecosystemâ€regulating functions while maintaining productivity. Journal of Ecology, 2011, 99, 689-702.	4.0	243
21	Uncertainty in the spatial prediction of soil texture. Geoderma, 2012, 170, 70-79.	5.1	229
22	Chemical evaluation of chars produced by thermochemical conversion (gasification, pyrolysis and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Bioenergy, 2013, 59, 264-278.	5.7	192
23	Geochemical characterization and origin of Southeastern and Eastern European loesses (Serbia,) Tj ETQq1 1 0.784314 rgBT /Overlock	3.0	174
24	Biochar organic fertilizers from natural resources as substitute for mineral fertilizers. Agronomy for Sustainable Development, 2015, 35, 667-678.	5.3	170
25	Chemical modification of biomass residues during hydrothermal carbonization â€“ What makes the difference, temperature or feedstock?. Organic Geochemistry, 2013, 54, 91-100.	1.8	160
26	Pre-Columbian agricultural landscapes, ecosystem engineers, and self-organized patchiness in Amazonia. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7823-7828.	7.1	156
27	Middle and Late Pleistocene loess sequences at Batajnica, Vojvodina, Serbia. Quaternary International, 2009, 198, 255-266.	1.5	155
28	Stratigraphy, and spatial and temporal paleoclimatic trends in Southeastern/Eastern European loessâ€“paleosol sequences. Quaternary International, 2009, 196, 86-106.	1.5	154
29	Fate of low molecular weight organic substances in an arable soil: From microbial uptake to utilisation and stabilisation. Soil Biology and Biochemistry, 2014, 77, 304-313.	8.8	140
30	Pyrogenic carbon in native grassland soils along a climosequence in North America. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	139
31	Genotoxic and phytotoxic risk assessment of fresh and treated hydrochar from hydrothermal carbonization compared to biochar from pyrolysis. Ecotoxicology and Environmental Safety, 2013, 97, 59-66.	6.0	133
32	Soils and sustainable development goals of the United Nations: An International Union of Soil Sciences perspective. Geoderma Regional, 2021, 25, e00398.	2.1	133
33	Compound-specific stable-isotope (Î´13C) analysis in soil science. Journal of Plant Nutrition and Soil Science, 2005, 168, 633-648.	1.9	129
34	Faunal community structure of a chemoautotrophic assemblage on whale bones in the deep northeast Pacific Ocean. Marine Ecology - Progress Series, 1994, 108, 205-223.	1.9	115
35	Biochar is carbon negative. Nature Geoscience, 2009, 2, 2-2.	12.9	114
36	Effect of biochar and compost on soil properties and organic matter in aggregate size fractions under field conditions. Agriculture, Ecosystems and Environment, 2020, 295, 106882.	5.3	114

#	Article	IF	Citations
37	Synergisms between Compost and Biochar for Sustainable Soil Amelioration. , 0, , .		111
38	Iron mineralogical proxies and Quaternary climate change in SE-European loessâ€“paleosol sequences. Catena, 2014, 117, 4-22.	5.0	110
39	Meta-analysis on how manure application changes soil organic carbon storage. Scientific Reports, 2021, 11, 5516.	3.3	107
40	Source Apportionment of Organic Pollutants of a Highway-Traffic-Influenced Urban Area in Bayreuth (Germany) Using Biomarker and Stable Carbon Isotope Signatures. Environmental Science & Technology, 2005, 39, 3911-3917.	10.0	101
41	Albedo Impact on the Suitability of Biochar Systems To Mitigate Global Warming. Environmental Science & Technology, 2012, 46, 12726-12734.	10.0	96
42	Late Quaternary glacial and climate history of the Pamir Mountains derived from cosmogenic 10Be exposure ages. Quaternary Research, 2005, 64, 212-220.	1.7	95
43	Nitrogen immobilization in paddy soils as affected by redox conditions and rice straw incorporation. Geoderma, 2014, 228-229, 44-53.	5.1	95
44	SYNERGISTIC USE OF PEAT AND CHARRED MATERIAL IN GROWING MEDIA â€“ AN OPTION TO REDUCE THE PRESSURE ON PEATLANDS?. Journal of Environmental Engineering and Landscape Management, 2017, 25, 160-174.	1.0	94
45	Effect of leaf litter degradation and seasonality on D/H isotope ratios of n-alkane biomarkers. Geochimica Et Cosmochimica Acta, 2011, 75, 4917-4928.	3.9	87
46	Toward the Standardization of Biochar Analysis: The COST Action TD1107 Interlaboratory Comparison. Journal of Agricultural and Food Chemistry, 2016, 64, 513-527.	5.2	86
47	Short-term effects of dairy slurry amendment on carbon sequestration and enzyme activities in a temperate grassland. Soil Biology and Biochemistry, 2003, 35, 1411-1421.	8.8	83
48	Effect of sulfonamide antibiotics on microbial diversity and activity in a Californian Mollic Haploxeralf. Journal of Soils and Sediments, 2010, 10, 537-544.	3.0	83
49	Black carbon in grassland ecosystems of the world. Global Biogeochemical Cycles, 2010, 24, .	4.9	81
50	Middle Stone Age foragers resided in high elevations of the glaciated Bale Mountains, Ethiopia. Science, 2019, 365, 583-587.	12.6	79
51	Effect of Biochar Particle Size on Physical, Hydrological and Chemical Properties of Loamy and Sandy Tropical Soils. Agronomy, 2019, 9, 165.	3.0	79
52	Turnover of microbial groups and cell components in soil: ¹³C analysis of cellular biomarkers. Biogeosciences, 2017, 14, 271-283.	3.3	76
53	Acceleration of Biochar Surface Oxidation during Composting?. Journal of Agricultural and Food Chemistry, 2015, 63, 3830-3837.	5.2	75
54	Amount-dependent isotopic fractionation during compound-specific isotope analysis. Rapid Communications in Mass Spectrometry, 2003, 17, 970-977.	1.5	73

#	Article	IF	Citations
55	Is there a possibility to correct fossil n-alkane data for postsedimentary alteration effects?. Applied Geochemistry, 2010, 25, 947-957.	3.0	73
56	Biochemical pathways of amino acids in soil: Assessment by position-specific labeling and 13C-PLFA analysis. Soil Biology and Biochemistry, 2013, 67, 31-40.	8.8	72
57	Sequestration and turnover of bacterial- and fungal-derived carbon in a temperate grassland soil under long-term elevated atmospheric p CO2. Global Change Biology, 2006, 12, 1521-1531.	9.5	71
58	Isotopic evidence for condensed aromatics from nonâ€pyrogenic sources in soils â€“ implications for current methods for quantifying soil black carbon. Rapid Communications in Mass Spectrometry, 2008, 22, 935-942.	1.5	71
59	Soil organic matter quantity and quality in mountain soils of the Alay Range, Kyrgyzia, affected by land use change. Biology and Fertility of Soils, 2000, 31, 407-413.	4.3	69
60	Determination of13C natural abundance of amino acid enantiomers in soil: methodological considerations and first results. Rapid Communications in Mass Spectrometry, 2002, 16, 891-898.	1.5	65
61	Faeces deposition on Amazonian Anthrosols as assessed from 5Î²-stanols. Journal of Archaeological Science, 2011, 38, 1209-1220.	2.4	65
62	Compound-specificÎ´13C analysis of individual amino sugars - a tool to quantify timing and amount of soil microbial residue stabilization. Rapid Communications in Mass Spectrometry, 2005, 19, 1409-1416.	1.5	63
63	Evidence for long-lasting landform surface instability on hummocky moraines in the Pamir Mountains (Tajikistan) from 10Be surface exposure dating. Earth and Planetary Science Letters, 2005, 237, 453-461.	4.4	63
64	Combined quantification of faecal sterols, stanols, stanones and bile acids in soils and terrestrial sediments by gas chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2012, 1242, 1-10.	3.7	61
65	Improving the Spatial Prediction of Soil Organic Carbon Stocks in a Complex Tropical Mountain Landscape by Methodological Specifications in Machine Learning Approaches. PLoS ONE, 2016, 11, e0153673.	2.5	60
66	No Effect Level of Co-Composted Biochar on Plant Growth and Soil Properties in a Greenhouse Experiment. Agronomy, 2014, 4, 34-51.	3.0	59
67	Repeated freezeâ€“thaw cycles changed organic matter quality in a temperate forest soil. Journal of Plant Nutrition and Soil Science, 2008, 171, 707-718.	1.9	58
68	Late Holocene Neotropical agricultural landscapes: phytolith and stable carbon isotope analysis of raised fields from French Guianan coastal savannahs. Journal of Archaeological Science, 2010, 37, 2984-2994.	2.4	58
69	Methanotrophic Communities in Brazilian Ferralsols from Naturally Forested, Afforested, and Agricultural Sites. Applied and Environmental Microbiology, 2010, 76, 1307-1310.	3.1	55
70	Soil Organic Carbon Sequestration after Biochar Application: A Global Meta-Analysis. Agronomy, 2021, 11, 2474.	3.0	53
71	Characterisation and palaeoclimate of a loess-like permafrost palaeosol sequence in NE Siberia. Geoderma, 2008, 143, 281-295.	5.1	52
72	Organic nitrogen uptake by plants: reevaluation by position-specific labeling of amino acids. Biogeochemistry, 2015, 125, 359-374.	3.5	52

#	Article	IF	Citations
73	Storage of organic carbon and Black carbon in density fractions of calcareous soils under different land uses. Geoderma, 2010, 159, 31-38.	5.1	51
74	Managing Soils for Recovering from the COVID-19 Pandemic. Soil Systems, 2020, 4, 46.	2.6	51
75	Reconstruction of the Late Quaternary Glaciation of the Macha Khola valley (Gorkha Himal, Nepal) using relative and absolute (14C, 10Be, dendrochronology) dating techniques. Quaternary Science Reviews, 2003, 22, 2253-2265.	3.0	49
76	A 240,000-year stable carbon and nitrogen isotope record from a loess-like palaeosol sequence in the Tumara Valley, Northeast Siberia. Chemical Geology, 2007, 242, 307-318.	3.3	49
77	Improved compoundâ€specific Î´¹³C analysis of nâ€alkanes for application in palaeoenvironmental studies. Rapid Communications in Mass Spectrometry, 2008, 22, 135-142.	1.5	49
78	Minimization of carbon addition during derivatization of monosaccharides for compound-specific?13C analysis in environmental research. Rapid Communications in Mass Spectrometry, 2004, 18, 2753-2764.	1.5	48
79	Anthropogenic Dark Earth in Northern Germany â€" The Nordic Analogue to terra preta de Ãndio in Amazonia. Catena, 2015, 132, 114-125.	5.0	48
80	BIOCHARS IN SOILS: TOWARDS THE REQUIRED LEVEL OF SCIENTIFIC UNDERSTANDING. Journal of Environmental Engineering and Landscape Management, 2016, 25, 192-207.	1.0	48
81	BIOCHAR STANDARDIZATION AND LEGISLATION HARMONIZATION. Journal of Environmental Engineering and Landscape Management, 2017, 25, 175-191.	1.0	48
82	Compoundâ€specific Î´¹⁸O analyses of neutral sugars in soils using gas chromatographyâ€"pyrolysisâ€"isotope ratio mass spectrometry: problems, possible solutions and a first application. Rapid Communications in Mass Spectrometry, 2009, 23, 3522-3532.	1.5	47
83	Late Quaternary environmental changes in Misiones, subtropical NE Argentina, deduced from multi-proxy geochemical analyses in a palaeosol-sediment sequence. Quaternary International, 2009, 196, 121-136.	1.5	47
84	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
85	Substitution of mineral fertilizers with biogas digestate plus biochar increases physically stabilized soil carbon but not crop biomass in a field trial. Science of the Total Environment, 2019, 680, 181-189.	8.0	46
86	Mechanisms of Water Interaction with Pore Systems of Hydrochar and Pyrochar from Poplar Forestry Waste. Journal of Agricultural and Food Chemistry, 2014, 62, 4917-4923.	5.2	44
87	Oxygen isotope ratios (18O/16O) of hemicellulose-derived sugar biomarkers in plants, soils and sediments as paleoclimate proxy I: Insight from a climate chamber experiment. Geochimica Et Cosmochimica Acta, 2014, 126, 614-623.	3.9	43
88	PREHISTORIC ALTERATION OF SOIL PROPERTIES IN A CENTRAL GERMAN CHERNOZEMIC SOIL. Soil Science, 2003, 168, 292-306.	0.9	42
89	Effect of four multipurpose tree species on soil amelioration during tree fallow in Central Togo. Agroforestry Systems, 1991, 16, 193-202.	2.0	41
90	Detection of charred organic matter in soils from a Neolithic settlement in Southern Bavaria, Germany. Geoderma, 2002, 107, 71-91.	5.1	41

#	Article	IF	Citations
91	A 220ka terrestrial Î´18O and deuterium excess biomarker record from an eolian permafrost paleosol sequence, NE-Siberia. Chemical Geology, 2013, 360-361, 220-230.	3.3	41
92	Effects of deforestation on phosphorus pools in mountain soils of the Alay Range, Khyrgyzia. Biology and Fertility of Soils, 2000, 31, 134-142.	4.3	40
93	Short-term sequestration of slurry-derived carbon and nitrogen in temperate grassland soil as assessed by 13C and 15N natural abundance measurements. Journal of Plant Nutrition and Soil Science, 2001, 164, 467.	1.9	39
94	Nitrogen dynamics in alpine ecosystems of the northern Caucasus. Plant and Soil, 2003, 256, 389-402.	3.7	38
95	Organic matter dynamics in a temperate forest soil following enhanced drying. Soil Biology and Biochemistry, 2011, 43, 478-489.	8.8	38
96	Effects of deforestation on contents and distribution of amino sugars within particle-size fractions of mountain soils. Biology and Fertility of Soils, 2002, 35, 49-53.	4.3	37
97	Amazonian Dark Earths as Carbon Stores and Sinks. , 2003, , 125-139.		37
98	Absence of oxygen isotope fractionation/exchange of (hemi-) cellulose derived sugars during litter decomposition. Organic Geochemistry, 2012, 42, 1470-1475.	1.8	36
99	Can biochar and hydrochar stability be assessed with chemical methods?. Organic Geochemistry, 2013, 60, 40-44.	1.8	36
100	Reconstruction of climate and landscape changes in a high mountain lake catchment in the Gorkha Himal, Nepal during the Late Glacial and Holocene as deduced from radiocarbon and compound-specific stable isotope analysis of terrestrial, aquatic and microbial biomarkers. Organic Geochemistry, 2005, 36, 1086-1098.	1.8	34
101	Oxygen isotope ratios (18O/16O) of hemicellulose-derived sugar biomarkers in plants, soils and sediments as paleoclimate proxy II: Insight from a climate transect study. Geochimica Et Cosmochimica Acta, 2014, 126, 624-634.	3.9	33
102	The influence of Saharan dust deposits on La Palma soil properties (Canary Islands, Spain). Catena, 2013, 103, 44-52.	5.0	32
103	Short-term dynamics of slurry-derived plant and microbial sugars in a temperate grassland soil as assessed by compound-specificÎ´13C analyses. Rapid Communications in Mass Spectrometry, 2005, 19, 1437-1446.	1.5	31
104	Advantages of compoundâ€specific stable isotope measurements over bulk measurements in studies on plant uptake of intact amino acids. Rapid Communications in Mass Spectrometry, 2009, 23, 3333-3342.	1.5	31
105	Mathematical modeling of soil carbon turnover in natural Podocarpus forest and Eucalyptus plantation in Ethiopia using compound specific Î´¹³C analysis. Global Change Biology, 2010, 16, 1487-1502.	9.5	31
106	Sequestration and turnover of plant- and microbially derived sugars in a temperate grassland soil during 7 years exposed to elevated atmospheric pCO2. Global Change Biology, 2007, 13, 478-490.	9.5	28
107	Allocation of freshly assimilated carbon into primary and secondary metabolites after in situ13C pulse labelling of Norway spruce (Picea abies). Tree Physiology, 2015, 35, tpv083.	3.1	26
108	What can we learn from ancient fertile anthropic soil (Amazonian Dark Earths, shell mounds, Plaggen) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.0	26

#	Article	IF	Citations
109	Long-term fire resilience of the Ericaceous Belt, Bale Mountains, Ethiopia. Biology Letters, 2019, 15, 20190357.	2.3	26
110	Soils as indicators of the Pleistocene and Holocene landscape evolution in the Alay Range (Kyrgystan). Quaternary International, 2000, 65-66, 161-169.	1.5	25
111	Stable isotope (Î´13C, Î´15N, Î´18O) record of soils in Buryatia, southern Siberia: Implications for biogeochemical and paleoclimatic interpretations. Quaternary International, 2013, 290-291, 82-94.	1.5	25
112	How dry was the Younger Dryas? Evidence from a coupled <i>Î´</i>²Hâ€“<i>Î´</i><s biomarker paleohygrometer applied to the GemÃ¼ndener Maar sediments, Western Eifel, Germany. Climate of the Past, 2019, 15, 713-733.	3.4	24
113	A 16-ka Î´18O record of lacustrine sugar biomarkers from the High Himalaya reflects Indian Summer Monsoon variability. Journal of Paleolimnology, 2014, 51, 241-251.	1.6	23
114	Amino acid fingerprint of a grassland soil reflects changes in plant species richness. Plant and Soil, 2010, 334, 353-363.	3.7	22
115	Late Quaternary relative humidity changes from Mt. Kilimanjaro, based on a coupled 2H-18O biomarker paleohygrometer approach. Quaternary International, 2017, 438, 116-130.	1.5	21
116	Analysis of microbial populations in plasticâ€“soil systems after exposure to high poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 Europe, 2021, 33, .	5.5	21
117	Digital soil mapping in southern Ecuador. Erdkunde, 2009, 63, 309-319.	0.8	21
118	REPRESENTATIVENESS OF EUROPEAN BIOCHAR RESEARCH: PART I â€“ FIELD EXPERIMENTS. Journal of Environmental Engineering and Landscape Management, 2017, 25, 140-151.	1.0	20
119	Anthropogenic disturbance of natural forest vegetation on calcareous soils alters soil organic matter composition and natural abundance of 13C and 15N in density fractions. European Journal of Forest Research, 2010, 129, 1143-1153.	2.5	19
120	Origin of mound-field landscapes: a multi-proxy approach combining contemporary vegetation, carbon stable isotopes and phytoliths. Plant and Soil, 2012, 351, 337-353.	3.7	19
121	Increased <scp>CO</scp>₂ fluxes from a sandy Cambisol under agricultural use in the Wendland region, Northern Germany, three years after biochar substrates application. GCB Bioenergy, 2018, 10, 432-443.	5.6	19
122	Antibiotics residues in pig slurry and manure and its environmental contamination potential. A meta-analysis. Agronomy for Sustainable Development, 2022, 42, 1.	5.3	19
123	Ancient human agricultural practices can promote activities of contemporary non-human soil ecosystem engineers: A case study in coastal savannas of French Guiana. Soil Biology and Biochemistry, 2013, 62, 46-56.	8.8	18
124	Soilâ€moisture change caused by experimental extreme summer drought is similar to natural interâ€annual variation in a loamy sand in Central Europe. Journal of Plant Nutrition and Soil Science, 2013, 176, 27-34.	1.9	18
125	The effect of biochar with biogas digestate or mineral fertilizer on fertility, aggregation and organic carbon content of a sandy soil: Results of a temperate field experiment. Journal of Plant Nutrition and Soil Science, 2019, 182, 824-835.	1.9	18
126	Evaluation of bacterial glycerol dialkyl glycerol tetraether and ²Hâ€“¹⁸O biomarker proxies along a central European topsoil transect. Biogeosciences, 2020, 17, 741-756.	3.3	18

#	Article	IF	Citations
127	Improved Î´¹³ C analysis of amino sugars in soil by ion chromatography-oxidation-isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 569-576.	1.5	17
128	Distribution of Chernozems and Phaeozems in Central Germany during the Neolithic period. Quaternary International, 2019, 511, 166-184.	1.5	17
129	Spatial and temporal ²H and ¹⁸O isotope variation of contemporary precipitation in the Bale Mountains, Ethiopia. Isotopes in Environmental and Health Studies, 2020, 56, 122-135.	1.0	17
130	Functional soil-landscape modelling to estimate slope stability in a steep Andean mountain forest region. Geomorphology, 2011, 132, 287-299.	2.6	16
131	A sugar biomarker proxy for assessing terrestrial versus aquatic sedimentary input. Organic Geochemistry, 2016, 98, 98-104.	1.8	16
132	Organic matter dynamics in a temperate forest as influenced by soil frost. Journal of Plant Nutrition and Soil Science, 2011, 174, 754-764.	1.9	15
133	Release of nitrous oxide and dinitrogen from a transition bog under drained and rewetted conditions due to denitrification: results from a [¹⁵N]nitrateâ€“bromide double-tracer study. Isotopes in Environmental and Health Studies, 2015, 51, 300-321.	1.0	15
134	Performance of Mapping Approaches for Whole-Genome Bisulfite Sequencing Data in Crop Plants. Frontiers in Plant Science, 2020, 11, 176.	3.6	15
135	In situ 15N and 13C labelling of indigenous and plantation tree species in a tropical mountain forest (Munessa, Ethiopia) for subsequent litter and soil organic matter turnover studies. Organic Geochemistry, 2012, 42, 1461-1469.	1.8	14
136	Organic Chemistry Studies on Amazonian Dark Earths. , 2003, , 227-241.		14
137	Evidence confirms an anthropic origin of Amazonian Dark Earths. Nature Communications, 2022, 13, .	12.8	14
138	In-Situ recovery of ethanol from fermentation broth by hydrophobic adsorbents. Acta Biotechnologica, 1991, 11, 353-358.	0.9	13
139	Black Carbon in Fly-Ash Influenced Soils of the DÃ¼bener Heide Region, Central Germany. Water, Air, and Soil Pollution, 2011, 214, 119-132.	2.4	13
140	Making use of the World Reference Base diagnostic horizons for the systematic description of the soil continuum â€" Application to the tropical mountain soil-landscape of southern Ecuador. Catena, 2012, 97, 20-30.	5.0	13
141	Soil microbial C and N turnover under Cupressus lusitanica and natural forests in southern Ethiopia assessed by decomposition of 13C- and 15â€‰N-labelled litter under field conditions. Plant and Soil, 2015, 388, 133-146.	3.7	13
142	Chemical, Physical, and Hydraulic Properties as Affected by One Year of Miscanthus Biochar Interaction with Sandy and Loamy Tropical Soils. Soil Systems, 2019, 3, 24.	2.6	13
143	Soil Organic Matter Stability in Amazonian Dark Earths. , 2003, , 141-158.		12
144	A novel methodological approach for Î´¹⁸O analysis of sugars using gas chromatography-pyrolysis-isotope ratio mass spectrometry. Isotopes in Environmental and Health Studies, 2013, 49, 492-502.	1.0	12

#	Article	IF	Citations
145	Rapid and economical quantification of black carbon in soils using a modified benzene polycarboxylic acids (BPCA) method. Organic Geochemistry, 2018, 115, 197-204.	1.8	12
146	FÃ¶hn, fire and grazing in Southern Tibet? A 20,000-year multi-proxy record in an alpine ecotonal ecosystem. Quaternary Science Reviews, 2021, 256, 106817.	3.0	12
147	Identifying the Pre-Columbian Anthropogenic Input on Present Soil Properties of Amazonian Dark Earths (Terra Preta). , 2004, , 145-158.		12
148	Nitrogen fixing bacteria facilitate microbial biodegradation of a bio-based and biodegradable plastic in soils under ambient and future climatic conditions. Environmental Sciences: Processes and Impacts, 2022, 24, 233-241.	3.5	12
149	Short-term sequestration of slurry-derived carbon into particle size fractions of a temperate grassland soil. Isotopes in Environmental and Health Studies, 2004, 40, 81-87.	1.0	11
150	How to Design a Whole-Genome Bisulfite Sequencing Experiment. Epigenomes, 2018, 2, 21.	1.8	11
151	Degradation products of polycondensed aromatic moieties (black carbon or pyrogenic carbon) in soil: Methodological improvements and comparison to contemporary black carbon concentrations. Journal of Plant Nutrition and Soil Science, 2018, 181, 714-720.	1.9	11
152	Leaf Waxes and Hemicelluloses in Topsoils Reflect the Î´2H and Î´18O Isotopic Composition of Precipitation in Mongolia. Frontiers in Earth Science, 2020, 8, .	1.8	11
153	Dynamics of Fungal and Bacterial Biomass Carbon in Natural Ecosystems: Siteâ€Level Applications of the CLMâ€Microbe Model. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002283.	3.8	11
154	Chemotaxonomic patterns of vegetation and soils along altitudinal transects of the Bale Mountains, Ethiopia, and implications for paleovegetation reconstructions â€“ Part II: lignin-derived phenols and leaf-wax-derived <i>n</i>-alkanes. E&G Quaternary Science Journal, 2019, 68, 189-200.	0.7	11
155	Effect of land use change on contents and distribution of monosacharides within density fractions of calcareous soil. Soil Biology and Biochemistry, 2017, 107, 260-268.	8.8	10
156	Comparison of different methods for determining lignin concentration and quality in herbaceous and woody plant residues. Plant and Soil, 2018, 433, 7-18.	3.7	9
157	Dynamics of labile and stable carbon and priming effects during composting of sludge and lop mixtures amended with low and high amounts of biochar. Waste Management, 2018, 78, 880-893.	7.4	9
158	History, Current Knowledge and Future Perspectives of Geoecological Research Concerning the Origin of Amazonian Anthropogenic Dark Earths (Terra Preta). , 2004, , 9-17.		9
159	Natural abundance of ¹⁸O of sugar biomarkers in topsoils along a climate transect over the Central Scandinavian Mountains, Norway. Journal of Plant Nutrition and Soil Science, 2013, 176, 12-15.	1.9	8
160	Reply to the comment of Sternberg on â€œZech et al. (2014) Oxygen isotope ratios (18O/16O) of hemicellulose-derived sugar biomarkers in plants, soils and sediments as paleoclimate proxy I: Insight from a climate chamber experiment. GCA 126, 614â€“623.â€• Geochimica Et Cosmochimica Acta, 2014, 141, 680-682.	3.9	8
161	Soil microbial biomass and community composition as affected by cover crop diversity in a shortâ€term field experiment on a podzolized Stagnosolâ€Cambisol. Journal of Plant Nutrition and Soil Science, 2020, 183, 539-549.	1.9	8
162	Î´2Hn-alkane and Î´18Osugar biomarker proxies from leaves and topsoils of the Bale Mountains, Ethiopia, and implications for paleoclimate reconstructions. Biogeochemistry, 2021, 153, 135-153.	3.5	8

#	Article	IF	Citations
163	Chemotaxonomic patterns of vegetation and soils along altitudinal transects of the Bale Mountains, Ethiopia, and implications for paleovegetation reconstructions â€“ Part 1: stable isotopes and sugar biomarkers. E&G Quaternary Science Journal, 2019, 68, 177-188.	0.7	8
164	Microwave-assisted combustion to produce benzene polycarboxylic acids as molecular markers for biochar identification and quantification. Biochar, 2021, 3, 407-418.	12.6	8
165	Short-term carbon dynamics in a temperate grassland and heathland ecosystem exposed to 104 days of drought followed by irrigation. Isotopes in Environmental and Health Studies, 2018, 54, 41-62.	1.0	7
166	Goethite-Bound Phosphorus in an Acidic Subsoil Is Not Available to Beech (Fagus sylvatica L.). Frontiers in Forests and Global Change, 2020, 3, .	2.3	7
167	Biochar and sugar cane filter cake interaction on physical and hydrological soil properties under tropical field conditions. Biochar, 2020, 2, 195-210.	12.6	7
168	Soil redistribution in abandoned raised fields in French Guiana assessed by radionuclides. Journal of Plant Nutrition and Soil Science, 2015, 178, 468-476.	1.9	6
169	REPRESENTATIVENESS OF EUROPEAN BIOCHAR RESEARCH: PART II â€“ POT AND LABORATORY STUDIES. Journal of Environmental Engineering and Landscape Management, 2017, 25, 152-159.	1.0	6
170	Phenolic Compounds as Unambiguous Chemical Markers for the Identification of Keystone Plant Species in the Bale Mountains, Ethiopia. Plants, 2019, 8, 228.	3.5	6
171	Carbon Capture and Use as an Alternative to Carbon Capture and Storage. Advances in Agroecology, 2014, , 57-80.	0.3	6
172	Validation of a coupled <i>Î´</i>²Hn paleohygrometer approach based on a climate chamber experiment. Biogeosciences, 2021, 18, 5363-5380.		
173	Plant Growth and Chemical Properties of Commercial Biochar- versus Peat-Based Growing Media. Horticulturae, 2022, 8, 339.	2.8	6
174	Impact of forest organic farming change on soil microbial C turnover using 13C of phospholipid fatty acids. Agronomy for Sustainable Development, 2011, 31, 719-731.	5.3	5
175	Sauna, sweat and science â€“ quantifying the proportion of condensation water versus sweat using a stable water isotope (2H/1H and 18O/16O) tracer experiment. Isotopes in Environmental and Health Studies, 2015, 51, 439-447.	1.0	5
176	Variation in diet across an elevational gradient in the larvae of two Hydropsyche species (Trichoptera). Limnologica, 2015, 52, 83-88.	1.5	5
177	The Holocene lake-evaporation history of the afro-alpine Lake Garba Guracha in the Bale Mountains, Ethiopia, based on Î´¹⁸O records of sugar biomarker and diatoms. Quaternary Research, 2022, 105, 23-36.	1.7	5
178	Title is missing!. Soil Science, 2003, 168, 292-306.	0.9	4
179	Repeated annual drought has minor longâ€term influence on Î´¹³C and alkane composition of plant and soil in model grassland and heathland ecosystems. Journal of Plant Nutrition and Soil Science, 2017, 180, 516-527.	1.9	4
180	EDITORIAL: SPECIAL ISSUE ON BIOCHAR AS AN OPTION FOR SUSTAINABLE RESOURCE MANAGEMENT (EU) Tj ETQq0 0 0 rgBT /Overlock Management, 2017, 25, 83-85.	1.0	4

#	Article	IF	Citations
181	Revisiting the subalpine Mesolithic site Ullafelsen in the Fotsch Valley, Stubai Alps, Austria â€“ new insights into pedogenesis and landscape evolution from leaf-wax-derived <i>n</i>-alkanes, black carbon and radiocarbon dating. E&G Quaternary Science Journal, 2021, 70, 171-186.	0.7	4
182	Soil Biogeochemistry: From Molecular to Ecosystem Level Using Terra Preta and Biochar as Examples. Advances in Agroecology, 2014, , 1-40.	0.3	4
183	Climate, vegetation and fire history during the past 18,000Âyears, recorded in high altitude lacustrine sediments on the Sanetti Plateau, Bale Mountains (Ethiopia). Progress in Earth and Planetary Science, 2022, 9, .	3.0	4
184	Stability of Woodchips Biochar and Impact on Soil Carbon Stocks: Results from a Two-Year Field Experiment. Forests, 2021, 12, 1350.	2.1	3
185	Human and livestock faecal biomarkers at the prehistorical encampment site of Ullafelsen in the Fotsch Valley, Stubai Alps, Austria â€“ potential and limitations. Biogeosciences, 2022, 19, 1135-1150.	3.3	3
186	Thermal Removal of Polycyclic Aromatic Hydrocarbons from Gasification Biochars. , 0, , .		2
187	Effect of biochar fertilizers on amino acid variability of Secale cereale and Lupinus angustifolius. Biochar, 2019, 1, 187-201.	12.6	2
188	Ameliorating physical and chemical properties of highly weathered soils in the tropics with charcoal â€“ a review. , 2002, 35, 219.		2
189	Nutrient availability and leaching in an archaeological Anthrosol and a Ferralsol of the Central Amazon basin: fertilizer, manure and charcoal amendments. , 2003, 249, 343.		2
190	Influence of Modelling Options in RELAP5/SCDAPSIM and MAAP4 Computer Codes on Core Melt Progression and Reactor Pressure Vessel Integrity. Science and Technology of Nuclear Installations, 2010, 2010, 1-11.	0.8	1
191	Sauna, sweat and science II â€“ do we sweat what we drink?. Isotopes in Environmental and Health Studies, 2019, 55, 394-403.	1.0	1
192	Interactive Effects of Biochar and Sewage Sludge on Bioavailability and Plant Uptake of Cu, Fe, and Zn, and Spinach (Spinacia oleracea L.) Yields under Wastewater Irrigation. Agronomy, 2020, 10, 1901.	3.0	1
193	¹⁸O analyses of bulk lipids as novel paleoclimate tool in loess research â€“ a pilot study. E&G Quaternary Science Journal, 2022, 71, 83-90.	0.7	1