# 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 | The Holocene lake-evaporation history of the afro-alpine Lake Garba Guracha in the Bale Mountains, Ethiopia, based on Î´<sup>18</sup>O records of sugar biomarker and diatoms. Quaternary Research, 2022, 105, 23-36. | 1.7 | 5 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Plant Growth and Chemical Properties of Commercial Biochar- versus Peat-Based Growing Media. Horticulturae, 2022, 8, 339. | 2.8 | 6 |
| 6 | <sup>18</sup>O 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 |
| 7 | 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 |
| 8 | Evidence confirms an anthropic origin of Amazonian Dark Earths. Nature Communications, 2022, 13, . | 12.8 | 14 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Meta-analysis on how manure application changes soil organic carbon storage. Scientific Reports, 2021, 11, 5516. | 3.3 | 107 |
| 13 | Soils and sustainable development goals of the United Nations: An International Union of Soil Sciences perspective. Geoderma Regional, 2021, 25, e00398. | 2.1 | 133 |
| 14 | 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 |
| 15 | Analysis of microbial populations in plasticâ€“soil systems after exposure to high poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10<br>Europe, 2021, 33, . | 5.5 | 21 |
| 16 | Validation of a coupled <i>Î´</i><sup>2</sup>H<sub></sub>n</i paleohygrometer approach based on a climate chamber experiment. Biogeosciences, 2021, 18, 5363-5380. | | |
| 17 | Stability of Woodchips Biochar and Impact on Soil Carbon Stocks: Results from a Two-Year Field Experiment. Forests, 2021, 12, 1350. | 2.1 | 3 |
| 18 | Microwave-assisted combustion to produce benzene polycarboxylic acids as molecular markers for biochar identification and quantification. Biochar, 2021, 3, 407-418. | 12.6 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Soil Organic Carbon Sequestration after Biochar Application: A Global Meta-Analysis. Agronomy, 2021, 11, 2474. | 3.0 | 53 |
| 20 | Managing Soils for Recovering from the COVID-19 Pandemic. Soil Systems, 2020, 4, 46. | 2.6 | 51 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | Evaluation of bacterial glycerol dialkyl glycerol tetraether and <sup>2</sup>Hâ€“<sup>18</sup>O biomarker proxies along a central European topsoil transect. Biogeosciences, 2020, 17, 741-756. | 3.3 | 18 |
| 27 | Performance of Mapping Approaches for Whole-Genome Bisulfite Sequencing Data in Crop Plants. Frontiers in Plant Science, 2020, 11, 176. | 3.6 | 15 |
| 28 | 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 |
| 29 | Spatial and temporal <sup>2</sup>H and <sup>18</sup>O isotope variation of contemporary precipitation in the Bale Mountains, Ethiopia. Isotopes in Environmental and Health Studies, 2020, 56, 122-135. | 1.0 | 17 |
| 30 | 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 |
| 31 | Middle Stone Age foragers resided in high elevations of the glaciated Bale Mountains, Ethiopia. Science, 2019, 365, 583-587. | 12.6 | 79 |
| 32 | Effect of biochar fertilizers on amino acid variability of Secale cereale and Lupinus angustifolius. Biochar, 2019, 1, 187-201. | 12.6 | 2 |
| 33 | Long-term fire resilience of the Ericaceous Belt, Bale Mountains, Ethiopia. Biology Letters, 2019, 15, 20190357. | 2.3 | 26 |
| 34 | 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 |
| 35 | Biochar effects on phosphorus availability in agricultural soils: A meta-analysis. Scientific Reports, 2019, 9, 9338. | 3.3 | 250 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | Effect of Biochar Particle Size on Physical, Hydrological and Chemical Properties of Loamy and Sandy Tropical Soils. Agronomy, 2019, 9, 165. | 3.0 | 79 |
| 40 | 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 |
| 41 | How dry was the Younger Dryas? Evidence from a coupled <i>Î´</i><sup>2</sup>Hâ€“<i>Î´</i><sup>18</sup>O biomarker paleohygrometer applied to the GemÃ¼ndener Maar sediments, Western Eifel, Germany. Climate of the Past, 2019, 15, 713-733. | 3.4 | 24 |
| 42 | Distribution of Chernozems and Phaeozems in Central Germany during the Neolithic period. Quaternary International, 2019, 511, 166-184. | 1.5 | 17 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | How to Design a Whole-Genome Bisulfite Sequencing Experiment. Epigenomes, 2018, 2, 21. | 1.8 | 11 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | Increased <scp>CO</scp><sub>2</sub> 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 |
| 52 | BIOCHAR STANDARDIZATION AND LEGISLATION HARMONIZATION. Journal of Environmental Engineering and Landscape Management, 2017, 25, 175-191. | 1.0 | 48 |
| 53 | Effect of land use change on contents and distribution of monosaccharides within density fractions of calcareous soil. Soil Biology and Biochemistry, 2017, 107, 260-268. | 8.8 | 10 |
| 54 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | REPRESENTATIVENESS OF EUROPEAN BIOCHAR RESEARCH: PART I â€“ FIELD EXPERIMENTS. Journal of Environmental Engineering and Landscape Management, 2017, 25, 140-151. | 1.0 | 20 |
| 56 | 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 |
| 57 | 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 |
| 58 | Repeated annual drought has minor longâ€term influence on Î´<sup>13</sup>C 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 |
| 59 | EDITORIAL: SPECIAL ISSUE ON BIOCHAR AS AN OPTION FOR SUSTAINABLE RESOURCE MANAGEMENT (EU) Tj ETQq1 1 0.784314 rgBT / Management, 2017, 25, 83-85. | 1.0 | 4 |
| 60 | Turnover of microbial groups and cell components in soil: <sup>13</sup>C analysis of cellular biomarkers. Biogeosciences, 2017, 14, 271-283. | 3.3 | 76 |
| 61 | BIOCHARS IN SOILS: TOWARDS THE REQUIRED LEVEL OF SCIENTIFIC UNDERSTANDING. Journal of Environmental Engineering and Landscape Management, 2016, 25, 192-207. | 1.0 | 48 |
| 62 | A sugar biomarker proxy for assessing terrestrial versus aquatic sedimentary input. Organic Geochemistry, 2016, 98, 98-104. | 1.8 | 16 |
| 63 | 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 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | 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 |
| 68 | Release of nitrous oxide and dinitrogen from a transition bog under drained and rewetted conditions due to denitrification: results from a [<sup>15</sup>N]nitrateâ€“bromide double-tracer study. Isotopes in Environmental and Health Studies, 2015, 51, 300-321. | 1.0 | 15 |
| 69 | Acceleration of Biochar Surface Oxidation during Composting?. Journal of Agricultural and Food Chemistry, 2015, 63, 3830-3837. | 5.2 | 75 |
| 70 | 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 |
| 71 | 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 |
| 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 | Variation in diet across an elevational gradient in the larvae of two Hydropsyche species (Trichoptera). Limnologica, 2015, 52, 83-88. | 1.5 | 5 |
| 74 | Biochar organic fertilizers from natural resources as substitute for mineral fertilizers. Agronomy for Sustainable Development, 2015, 35, 667-678. | 5.3 | 170 |
| 75 | 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 |
| 76 | Improved Î´<sup>13</sup> 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 |
| 77 | 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 |
| 78 | Iron mineralogical proxies and Quaternary climate change in SE-European loessâ€“paleosol sequences. Catena, 2014, 117, 4-22. | 5.0 | 110 |
| 79 | 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 |
| 80 | 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 |
| 81 | 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 |
| 82 | 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 |
| 83 | 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 |
| 84 | 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 |
| 85 | Nitrogen immobilization in paddy soils as affected by redox conditions and rice straw incorporation. Geoderma, 2014, 228-229, 44-53. | 5.1 | 95 |
| 86 | Soil Biogeochemistry: From Molecular to Ecosystem Level Using Terra Preta and Biochar as Examples. Advances in Agroecology, 2014, , 1-40. | 0.3 | 4 |
| 87 | Carbon Capture and Use as an Alternative to Carbon Capture and Storage. Advances in Agroecology, 2014, , 57-80. | 0.3 | 6 |
| 88 | Positive effects of composted biochar on plant growth and soil fertility. Agronomy for Sustainable Development, 2013, 33, 817-827. | 5.3 | 252 |
| 89 | 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 |
| 90 | Can biochar and hydrochar stability be assessed with chemical methods?. Organic Geochemistry, 2013, 60, 40-44. | 1.8 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Chemical evaluation of chars produced by thermochemical conversion (gasification, pyrolysis and) Tj ETQq1 1 0.784314 rgBT /Overlock Bioenergy, 2013, 59, 264-278. | 5.7 | 192 |
| 92 | 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 |
| 93 | The influence of Saharan dust deposits on La Palma soil properties (Canary Islands, Spain). Catena, 2013, 103, 44-52. | 5.0 | 32 |
| 94 | A novel methodological approach for Î´<sup>18</sup>O analysis of sugars using gas chromatography-pyrolysis-isotope ratio mass spectrometry. Isotopes in Environmental and Health Studies, 2013, 49, 492-502. | 1.0 | 12 |
| 95 | 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 |
| 96 | 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 |
| 97 | 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 |
| 98 | 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 |
| 99 | 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 |
| 100 | Natural abundance of <sup>18</sup>O 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 |
| 101 | One Step Forward toward Characterization: Some Important Material Properties to Distinguish Biochars. Journal of Environmental Quality, 2012, 41, 1001-1013. | 2.0 | 398 |
| 102 | Albedo Impact on the Suitability of Biochar Systems To Mitigate Global Warming. Environmental Science & Technology, 2012, 46, 12726-12734. | 10.0 | 96 |
| 103 | Absence of oxygen isotope fractionation/exchange of (hemi-) cellulose derived sugars during litter decomposition. Organic Geochemistry, 2012, 42, 1470-1475. | 1.8 | 36 |
| 104 | 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 |
| 105 | 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 |
| 106 | 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 |
| 107 | Uncertainty in the spatial prediction of soil texture. Geoderma, 2012, 170, 70-79. | 5.1 | 229 |
| 108 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | 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 |
| 110 | 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 |
| 111 | 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 |
| 112 | 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 |
| 113 | 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 |
| 114 | Functional soil-landscape modelling to estimate slope stability in a steep Andean mountain forest region. Geomorphology, 2011, 132, 287-299. | 2.6 | 16 |
| 115 | Faeces deposition on Amazonian Anthrosols as assessed from 5Î²-stanols. Journal of Archaeological Science, 2011, 38, 1209-1220. | 2.4 | 65 |
| 116 | An evaluation of geochemical weathering indices in loessâ€“paleosol studies. Quaternary International, 2011, 240, 12-21. | 1.5 | 362 |
| 117 | Technical, Economical, and Climate-Related Aspects of Biochar Production Technologies: A Literature Review. Environmental Science & Technology, 2011, 45, 9473-9483. | 10.0 | 483 |
| 118 | Climate extremes initiate ecosystemâ€regulating functions while maintaining productivity. Journal of Ecology, 2011, 99, 689-702. | 4.0 | 243 |
| 119 | Organic matter dynamics in a temperate forest soil following enhanced drying. Soil Biology and Biochemistry, 2011, 43, 478-489. | 8.8 | 38 |
| 120 | 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 |
| 121 | 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 |
| 122 | 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 |
| 123 | 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 |
| 124 | Amino acid fingerprint of a grassland soil reflects changes in plant species richness. Plant and Soil, 2010, 334, 353-363. | 3.7 | 22 |
| 125 | Mathematical modeling of soil carbon turnover in natural Podocarpus forest and Eucalyptus plantation in Ethiopia using compound specific Î´<sup>13</sup>C analysis. Global Change Biology, 2010, 16, 1487-1502. | 9.5 | 31 |
| 126 | Methanotrophic Communities in Brazilian Ferralsols from Naturally Forested, Afforested, and Agricultural Sites. Applied and Environmental Microbiology, 2010, 76, 1307-1310. | 3.1 | 55 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | 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 |
| 128 | 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 |
| 129 | Black carbon in grassland ecosystems of the world. Global Biogeochemical Cycles, 2010, 24, . | 4.9 | 81 |
| 130 | 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 |
| 131 | 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 |
| 132 | Is there a possibility to correct fossil n-alkane data for postsedimentary alteration effects?. Applied Geochemistry, 2010, 25, 947-957. | 3.0 | 73 |
| 133 | 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 |
| 134 | Compoundâ€specific Î´<sup>18</sup>O 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 |
| 135 | Biochar is carbon negative. Nature Geoscience, 2009, 2, 2-2. | 12.9 | 114 |
| 136 | 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 |
| 137 | Stratigraphy, and spatial and temporal paleoclimatic trends in Southeastern/Eastern European loessâ€“paleosol sequences. Quaternary International, 2009, 196, 86-106. | 1.5 | 154 |
| 138 | Middle and Late Pleistocene loess sequences at Batajnica, Vojvodina, Serbia. Quaternary International, 2009, 198, 255-266. | 1.5 | 155 |
| 139 | Digital soil mapping in southern Ecuador. Erdkunde, 2009, 63, 309-319. | 0.8 | 21 |
| 140 | Improved compoundâ€specific Î´<sup>13</sup>C analysis of nâ€alkanes for application in palaeoenvironmental studies. Rapid Communications in Mass Spectrometry, 2008, 22, 135-142. | 1.5 | 49 |
| 141 | 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 |
| 142 | Geochemical characterization and origin of Southeastern and Eastern European loesses (Serbia,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 | 3.0 | 174 |
| 143 | Characterisation and palaeoclimate of a loess-like permafrost palaeosol sequence in NE Siberia. Geoderma, 2008, 143, 281-295. | 5.1 | 52 |
| 144 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | 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 |
| 146 | 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 |
| 147 | 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 |
| 148 | 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 |
| 149 | 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 |
| 150 | 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 |
| 151 | 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 |
| 152 | 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 |
| 153 | Compound-specific stable-isotope (Î´13C) analysis in soil science. Journal of Plant Nutrition and Soil Science, 2005, 168, 633-648. | 1.9 | 129 |
| 154 | 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 |
| 155 | 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 |
| 156 | Revised black carbon assessment using benzene polycarboxylic acids. Organic Geochemistry, 2005, 36, 1299-1310. | 1.8 | 267 |
| 157 | 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 |
| 158 | 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 |
| 159 | Amino sugars and muramic acidâ€”biomarkers for soil microbial community structure analysis. Soil Biology and Biochemistry, 2004, 36, 399-407. | 8.8 | 271 |
| 160 | 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 |
| 161 | Identifying the Pre-Columbian Anthropogenic Input on Present Soil Properties of Amazonian Dark Earths (Terra Preta). , 2004, , 145-158. | | 12 |
| 162 | History, Current Knowledge and Future Perspectives of Geoecological Research Concerning the Origin of Amazonian Anthropogenic Dark Earths (Terra Preta). , 2004, , 9-17. | | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Nitrogen dynamics in alpine ecosystems of the northern Caucasus. Plant and Soil, 2003, 256, 389-402. | 3.7 | 38 |
| 164 | Title is missing!. Plant and Soil, 2003, 249, 343-357. | 3.7 | 1,453 |
| 165 | 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 |
| 166 | Amount-dependent isotopic fractionation during compound-specific isotope analysis. Rapid Communications in Mass Spectrometry, 2003, 17, 970-977. | 1.5 | 73 |
| 167 | Pyrogenic carbon in native grassland soils along a climosequence in North America. Global Biogeochemical Cycles, 2003, 17, n/a-n/a. | 4.9 | 139 |
| 168 | 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 |
| 169 | Title is missing!. Soil Science, 2003, 168, 292-306. | 0.9 | 4 |
| 170 | PREHISTORIC ALTERATION OF SOIL PROPERTIES IN A CENTRAL GERMAN CHERNOZEMIC SOIL. Soil Science, 2003, 168, 292-306. | 0.9 | 42 |
| 171 | Soil Organic Matter Stability in Amazonian Dark Earths. , 2003, , 141-158. | | 12 |
| 172 | Amazonian Dark Earths as Carbon Stores and Sinks. , 2003, , 125-139. | | 37 |
| 173 | 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 |
| 174 | Organic Chemistry Studies on Amazonian Dark Earths. , 2003, , 227-241. | | 14 |
| 175 | Detection of charred organic matter in soils from a Neolithic settlement in Southern Bavaria, Germany. Geoderma, 2002, 107, 71-91. | 5.1 | 41 |
| 176 | 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 |
| 177 | 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 |
| 178 | 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 |
| 179 | Ameliorating physical and chemical properties of highly weathered soils in the tropics with charcoal â€“ a review. , 2002, 35, 219. | | 2 |
| 180 | Comparative analysis of black carbon in soils. Global Biogeochemical Cycles, 2001, 15, 163-167. | 4.9 | 267 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | 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 |
| 182 | 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 |
| 183 | The 'Terra Preta' phenomenon: a model for sustainable agriculture in the humid tropics. Die Naturwissenschaften, 2001, 88, 37-41. | 1.6 | 818 |
| 184 | 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 |
| 185 | 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 |
| 186 | Black carbon in density fractions of anthropogenic soils of the Brazilian Amazon region. Organic Geochemistry, 2000, 31, 669-678. | 1.8 | 402 |
| 187 | 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 |
| 188 | Black carbon in soils: the use of benzenecarboxylic acids as specific markers. Organic Geochemistry, 1998, 29, 811-819. | 1.8 | 422 |
| 189 | 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 |
| 190 | In-Situ recovery of ethanol from fermentation broth by hydrophobic adsorbents. Acta Biotechnologica, 1991, 11, 353-358. | 0.9 | 13 |
| 191 | Effect of four multipurpose tree species on soil amelioration during tree fallow in Central Togo. Agroforestry Systems, 1991, 16, 193-202. | 2.0 | 41 |
| 192 | Synergisms between Compost and Biochar for Sustainable Soil Amelioration. , 0, , . | | 111 |
| 193 | Thermal Removal of Polycyclic Aromatic Hydrocarbons from Gasification Biochars. , 0, , . | | 2 |