

Samuel Bode

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,715
citations

279798

23
h-index

302126

39
g-index

79
all docs

79
docs citations

79
times ranked

2679
citing authors

#	ARTICLE	IF	CITATIONS
1	Abundance, production and stabilization of microbial biomass under conventional and reduced tillage. <i>Soil Biology and Biochemistry</i> , 2010, 42, 48-55.	8.8	166
2	Links among warming, carbon and microbial dynamics mediated by soil mineral weathering. <i>Nature Geoscience</i> , 2018, 11, 589-593.	12.9	116
3	Isotope fractionation during root water uptake by <i>Acacia caven</i> is enhanced by arbuscular mycorrhizas. <i>Plant and Soil</i> , 2019, 441, 485-497.	3.7	87
4	Assessing the "two water worlds" hypothesis and water sources for native and exotic evergreen species in south-central Chile. <i>Hydrological Processes</i> , 2016, 30, 4227-4241.	2.6	80
5	Nitrogen deposition promotes the production of new fungal residues but retards the decomposition of old residues in forest soil fractions. <i>Global Change Biology</i> , 2014, 20, 327-340.	9.5	72
6	Phosphorus resource partitioning shapes phosphorus acquisition and plant species abundance in grasslands. <i>Nature Plants</i> , 2017, 3, 16224.	9.3	63
7	Soil microbial CNP and respiration responses to organic matter and nutrient additions: Evidence from a tropical soil incubation. <i>Soil Biology and Biochemistry</i> , 2018, 122, 141-149.	8.8	62
8	A deconvolutional Bayesian mixing model approach for river basin sediment source apportionment. <i>Scientific Reports</i> , 2018, 8, 13073.	3.3	57
9	Kinetics of amino sugar formation from organic residues of different quality. <i>Soil Biology and Biochemistry</i> , 2013, 57, 814-821.	8.8	54
10	The origin of carbonates in termite mounds of the Lubumbashi area, D.R. Congo. <i>Geoderma</i> , 2011, 165, 95-105.	5.1	52
11	Methodological perspectives on the application of compound-specific stable isotope fingerprinting for sediment source apportionment. <i>Journal of Soils and Sediments</i> , 2017, 17, 1537-1553.	3.0	46
12	High fire-derived nitrogen deposition on central African forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 549-554.	7.1	46
13	Transdermal penetration behaviour of drugs: CART-clustering, QSPR and selection of model compounds. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 6943-6955.	3.0	44
14	Development and evaluation of a high-performance liquid chromatography/isotope ratio mass spectrometry methodology for $\delta^{13}\text{C}$ analyses of amino sugars in soil. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2519-2526.	1.5	43
15	Short-Term Effect of Feedstock and Pyrolysis Temperature on Biochar Characteristics, Soil and Crop Response in Temperate Soils. <i>Agronomy</i> , 2014, 4, 52-73.	3.0	41
16	Contrasting nitrogen fluxes in African tropical forests of the Congo Basin. <i>Ecological Monographs</i> , 2019, 89, e01342.	5.4	39
17	Soil redistribution and weathering controlling the fate of geochemical and physical carbon stabilization mechanisms in soils of an eroding landscape. <i>Biogeosciences</i> , 2015, 12, 1357-1371.	3.3	36
18	A robust nitrifying community in a bioreactor at 50 °C opens up the path for thermophilic nitrogen removal. <i>ISME Journal</i> , 2016, 10, 2293-2303.	9.8	36

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19	Phospholipid ¹³ C stable isotopic probing during decomposition of wheat residues. <i>Applied Soil Ecology</i> , 2016, 98, 65-74.	4.3	34
20	Critical assessment of the applicability of gas chromatography- ¹³ C-combustion- ¹⁵ N-isotope ratio mass spectrometry to determine amino sugar dynamics in soil. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1201-1211.	1.5	32
21	Community managed forests dominate the catchment sediment cascade in the mid-hills of Nepal: A compound-specific stable isotope analysis. <i>Science of the Total Environment</i> , 2018, 637-638, 306-317.	8.0	30
22	Soil erosion rates under different tillage practices in central Belgium: New perspectives from a combined approach of rainfall simulations and ⁷ Be measurements. <i>Soil and Tillage Research</i> , 2018, 179, 29-37.	5.6	27
23	Amino acid and N mineralization dynamics in heathland soil after long-term warming and repetitive drought. <i>Soil</i> , 2015, 1, 341-349.	4.9	24
24	Influence of plant growth form, habitat and season on leaf-wax n-alkane hydrogen-isotopic signatures in equatorial East Africa. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 263, 122-139.	3.9	23
25	Carbon and nitrogen mass balance during flue gas treatment with <i>Dunaliella salina</i> cultures. <i>Journal of Applied Phycology</i> , 2013, 25, 359-368.	2.8	22
26	Short-term carbon input increases microbial nitrogen demand, but not microbial nitrogen mining, in a set of boreal forest soils. <i>Biogeochemistry</i> , 2017, 136, 261-278.	3.5	22
27	Isotope mixing models require individual isotopic tracer content for correct quantification of sediment source contributions. <i>Hydrological Processes</i> , 2018, 32, 981-989.	2.6	21
28	Stable isotope probing of amino sugars – a promising tool to assess microbial interactions in soils. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1367-1379.	1.5	20
29	Water- ¹⁸ O isotope ecohydrology of Mount Kilimanjaro. <i>Ecohydrology</i> , 2020, 13, e2171.	2.4	20
30	Century-long apparent decrease in intrinsic water-use efficiency with no evidence of progressive nutrient limitation in African tropical forests. <i>Global Change Biology</i> , 2020, 26, 4449-4461.	9.5	20
31	Legacy of historic land cover changes on sediment provenance tracked with isotopic tracers in a Mediterranean agroforestry catchment. <i>Journal of Environmental Management</i> , 2021, 288, 112291.	7.8	19
32	Monitoring methane and nitrous oxide emissions from digestate storage following manure mono-digestion. <i>Biosystems Engineering</i> , 2020, 196, 159-171.	4.3	18
33	The fate of plant wax lipids in a model forest ecosystem under elevated CO ₂ concentration and increased nitrogen deposition. <i>Organic Geochemistry</i> , 2016, 98, 131-140.	1.8	14
34	Isotope ratio laser spectroscopy to disentangle xylem-transported from locally respired CO ₂ in stem CO ₂ efflux. <i>Tree Physiology</i> , 2019, 39, 819-830.	3.1	14
35	Efflux and assimilation of xylem-transported ¹³ C-CO ₂ in stems and leaves of tree species with different wood anatomy. <i>Plant, Cell and Environment</i> , 2021, 44, 3494-3508.	5.7	14
36	Plant water resource partitioning and isotopic fractionation during transpiration in a seasonally dry tropical climate. <i>Biogeosciences</i> , 2017, 14, 73-88.	3.3	13

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37	Assimilation and accumulation of C by fungi and bacteria attached to soil density fractions. <i>Soil Biology and Biochemistry</i> , 2014, 79, 132-139.	8.8	12
38	Quantifying the spatial variation of ⁷ Be depth distributions towards improved erosion rate estimations. <i>Geoderma</i> , 2016, 269, 10-18.	5.1	12
39	Spatial and temporal variations of greenhouse gas emissions from a waste stabilization pond: Effects of sludge distribution and accumulation. <i>Water Research</i> , 2021, 193, 116858.	11.3	12
40	Measuring ¹³ C-enriched CO ₂ in air with a cavity ring-down spectroscopy gas analyser: Evaluation and calibration. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1892-1902.	1.5	11
41	Catchment-wide variations and biogeochemical time lags in soil fatty acid carbon isotope composition for different land uses: Implications for sediment source classification. <i>Organic Geochemistry</i> , 2020, 146, 104048.	1.8	11
42	Greenhouse gas dynamics in an urbanized river system: influence of water quality and land use. <i>Environmental Science and Pollution Research</i> , 2022, 29, 37277-37290.	5.3	11
43	Fatty acid recovery after starvation: insights into the fatty acid conversion capabilities of a benthic copepod (Copepoda, Harpacticoida). <i>Marine Biology</i> , 2017, 164, 1.	1.5	10
44	Fire-derived phosphorus fertilization of African tropical forests. <i>Nature Communications</i> , 2021, 12, 5129.	12.8	10
45	Soil erosion and sediment transport in Tanzania: Part I – sediment source tracing in three neighbouring river catchments. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 3096-3111.	2.5	10
46	Comparison of HPLC Methods for the Determination of Amino Sugars in Soil Hydrolysates. <i>Analytical Letters</i> , 2013, 46, 2145-2164.	1.8	9
47	Larger direct than indirect effects of multiple environmental changes on leaf nitrogen of forest herbs. <i>Plant and Soil</i> , 2019, 445, 199-216.	3.7	9
48	System for ¹³ C-CO ₂ and ¹³ C-CO ₂ analysis of discrete gas samples by cavity ring-down spectroscopy. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4507-4519.	3.1	7
49	Soil erosion and sediment transport in Tanzania: Part II – sedimentological evidence of phased land degradation. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 3112-3126.	2.5	7
50	A geochemical study on the bitumen from Dosariyah (Saudi-Arabia): tracking Neolithic-period bitumen in the Persian Gulf. <i>Journal of Archaeological Science</i> , 2015, 57, 248-256.	2.4	5
51	¹³ C Incorporation as a Tool to Estimate Biomass Yields in Thermophilic and Mesophilic Nitrifying Communities. <i>Frontiers in Microbiology</i> , 2019, 10, 192.	3.5	5
52	Nitrogen dynamics after two years of elevated CO ₂ in phosphorus limited Eucalyptus woodland. <i>Biogeochemistry</i> , 2020, 150, 297-312.	3.5	5
53	Isotopically characterised N ₂ O reference materials for use as community standards. <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, e9296.	1.5	5
54	Rapid and irreversible sorption behavior of ⁷ Be assessed to evaluate its use as a catchment sediment tracer. <i>Journal of Environmental Radioactivity</i> , 2018, 182, 108-116.	1.7	4

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55	Determination of poly(ϵ -hydroxybutyrate) assimilation by postlarval whiteleg shrimp, <i>Litopenaeus vannamei</i> using stable ^{13}C isotope tracing. <i>Journal of the World Aquaculture Society</i> , 2021, 52, 184-194.	2.4	4
56	Ideas and perspectives: patterns of soil CO_2 , CH_4 , and N_2O fluxes along an altitudinal gradient – a pilot study from an Ecuadorian neotropical montane forest. <i>Biogeosciences</i> , 2021, 18, 413-421.	3.3	4
57	Effect of organic carbon addition on paddy soil organic carbon decomposition under different irrigation regimes. <i>Biogeosciences</i> , 2021, 18, 5035-5051.	3.3	4
58	Impact of soil hydrological properties on the ^7Be depth distribution and the spatial variation of ^7Be inventories across a small catchment. <i>Geoderma</i> , 2018, 318, 88-98.	5.1	3
59	Near-infrared spectroscopy: Alternative method for assessment of stable carbon isotopes in various soil profiles in Chile. <i>Geoderma Regional</i> , 2021, 25, e00397.	2.1	3
60	Simultaneous quantification of depolymerization and mineralization rates by a novel ^{15}N tracing model. <i>Soil</i> , 2016, 2, 433-442.	4.9	2
61	Predicting Soil Organic Carbon Mineralization Rates Using ^{13}C , Assessed by Near-Infrared Spectroscopy, in Depth Profiles Under Permanent Grassland Along a Latitudinal Transect in Chile. <i>Journal of Soil Science and Plant Nutrition</i> , 2022, 22, 2105-2117.	3.4	2
62	Patterns of free amino acids in tundra soils reflect mycorrhizal type, shrubification, and warming. <i>Mycorrhiza</i> , 2022, 32, 305-313.	2.8	2
63	Evaluating the adsorptive capacity of three Tunisian clays deposits for several potentially toxic metals in phosphogypsum waste. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	1.3	2
64	Conservative N cycling despite high atmospheric deposition in early successional African tropical lowland forests. <i>Plant and Soil</i> , 2022, 477, 743-758.	3.7	1
65	Observing the water handling in humans to resolve the role of the interstitium: preliminary results of the usability of deuterium oxide and bio-impedance analysis – a pilot analysis. <i>Isotopes in Environmental and Health Studies</i> , 2022, 58, 99-110.	1.0	0