

# Klaus Butterbach-Bahl

## List of Publications by Year in descending order

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384  
papers

25,499  
citations

7672

79  
h-index

14012

133  
g-index

411  
all docs

411  
docs citations

411  
times ranked

19842  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of crop residue incorporation and properties on combined soil gaseous N <sub>2</sub> O, NO, and NH <sub>3</sub> emissions—A laboratory-based measurement approach. <i>Science of the Total Environment</i> , 2022, 807, 151051.	3.9	13
2	N <sub>2</sub> O emissions from decomposing crop residues are strongly linked to their initial soluble fraction and early C mineralization. <i>Science of the Total Environment</i> , 2022, 806, 150883.	3.9	18
3	The potential importance of soil denitrification as a major N loss pathway in intensive greenhouse vegetable production systems. <i>Plant and Soil</i> , 2022, 471, 157-174.	1.8	6
4	A review of the importance of mineral nitrogen cycling in the plant-soil-microbe system of permafrost-affected soils—changing the paradigm. <i>Environmental Research Letters</i> , 2022, 17, 013004.	2.2	29
5	Predicting field N <sub>2</sub> O emissions from crop residues based on their biochemical composition: A meta-analytical approach. <i>Science of the Total Environment</i> , 2022, 812, 152532.	3.9	30
6	Farm-level emission intensities of smallholder cattle ( <i>Bos indicus</i> ; <i>B. indicus</i> × <i>B. taurus</i> crosses) production systems in highlands and semi-arid regions. <i>Animal</i> , 2022, 16, 100445.	1.3	8
7	How to Improve Cumulative Methane and Nitrous Oxide Flux Estimations of the Non-Steady-State Chamber Method?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	1
8	Soil clay minerals: An overlooked mediator of gross N transformations in Regosolic soils of subtropical montane landscapes. <i>Soil Biology and Biochemistry</i> , 2022, 168, 108612.	4.2	11
9	A review and meta-analysis of mitigation measures for nitrous oxide emissions from crop residues. <i>Science of the Total Environment</i> , 2022, 828, 154388.	3.9	29
10	Impact of anaerobic soil disinfestation on seasonal N <sub>2</sub> O emissions and N leaching in greenhouse vegetable production system depends on amount and quality of organic matter additions. <i>Science of the Total Environment</i> , 2022, 830, 154673.	3.9	9
11	Long term impact of residue management on soil organic carbon stocks and nitrous oxide emissions from European croplands. <i>Science of the Total Environment</i> , 2022, 836, 154932.	3.9	17
12	Significant Global Yield-Gap Closing Is Possible Without Increasing the Intensity of Environmentally Harmful Nitrogen Losses. <i>Frontiers in Sustainable Food Systems</i> , 2022, 6, .	1.8	3
13	A synthesis of nitric oxide emissions across global fertilized croplands from crop-specific emission factors. <i>Global Change Biology</i> , 2022, 28, 4395-4408.	4.2	10
14	Greenhouse Gas Mitigation Potential of Alternate Wetting and Drying for Rice Production at National Scale—A Modeling Case Study for the Philippines. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	5
15	Full straw incorporation into a calcareous soil increased N <sub>2</sub> O emission despite more N <sub>2</sub> O being reduced to N <sub>2</sub> in the winter crop season. <i>Agriculture, Ecosystems and Environment</i> , 2022, 335, 108007.	2.5	13
16	Heavy metal and nutrient concentrations in top- and sub-soils of greenhouses and arable fields in East China — Effects of cultivation years, management, and shelter. <i>Environmental Pollution</i> , 2022, 307, 119494.	3.7	13
17	Basin-scale estimates of greenhouse gas emissions from the Mara River, Kenya: Importance of discharge, stream size, and land use/land cover. <i>Limnology and Oceanography</i> , 2022, 67, 1776-1793.	1.6	11
18	Identification of temporary livestock enclosures in Kenya from multi-temporal PlanetScope imagery. <i>Remote Sensing of Environment</i> , 2022, 279, 113110.	4.6	3

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19	Increasing the Environmental Sustainability of Greenhouse Vegetable Production by Combining Biochar Application and Drip Fertigation—Effects on Soil N <sub>2</sub> O Emissions and Carbon Sequestrations. <i>Agronomy</i> , 2022, 12, 1661.	1.3	3
20	Elevated atmospheric CO <sub>2</sub> reduces yield-scaled N <sub>2</sub> O fluxes from subtropical rice systems: Six site-years field experiments. <i>Global Change Biology</i> , 2021, 27, 327-339.	4.2	19
21	Interactive effects of dung deposited onto urine patches on greenhouse gas fluxes from tropical pastures in Kenya. <i>Science of the Total Environment</i> , 2021, 761, 143184.	3.9	13
22	Methodology for Measuring Greenhouse Gas Emissions from Agricultural Soils Using Non-isotopic Techniques. , 2021, , 11-108.		3
23	Greenhouse Gases from Agriculture. , 2021, , 1-10.		2
24	Methane Production in Ruminant Animals. , 2021, , 177-211.		0
25	Calculation of new enteric methane emission factors for small ruminants in western Kenya highlights the heterogeneity of smallholder production systems. <i>Animal Production Science</i> , 2021, 61, 602.	0.6	5
26	Automated Laboratory and Field Techniques to Determine Greenhouse Gas Emissions. , 2021, , 109-139.		1
27	Isotopic Techniques to Measure N <sub>2</sub> O, N <sub>2</sub> and Their Sources. , 2021, , 213-301.		8
28	High Application Rates of Biochar to Mitigate N <sub>2</sub> O Emissions From a N-Fertilized Tropical Soil Under Warming Conditions. <i>Frontiers in Environmental Science</i> , 2021, 8, .	1.5	13
29	Feed Quality and Feeding Level Effects on Faecal Composition in East African Cattle Farming Systems. <i>Animals</i> , 2021, 11, 564.	1.0	6
30	Heat stress will detrimentally impact future livestock production in East Africa. <i>Nature Food</i> , 2021, 2, 88-96.	6.2	38
31	Global greenhouse vegetable production systems are hotspots of soil N <sub>2</sub> O emissions and nitrogen leaching: A meta-analysis. <i>Environmental Pollution</i> , 2021, 272, 116372.	3.7	86
32	Drip fertigation with straw incorporation significantly reduces N <sub>2</sub> O emission and N leaching while maintaining high vegetable yields in solar greenhouse production. <i>Environmental Pollution</i> , 2021, 273, 116521.	3.7	36
33	Potential benefits of liming to acid soils on climate change mitigation and food security. <i>Global Change Biology</i> , 2021, 27, 2807-2821.	4.2	74
34	Effect of feeding practices and manure quality on CH <sub>4</sub> and N <sub>2</sub> O emissions from uncovered cattle manure heaps in Kenya. <i>Waste Management</i> , 2021, 126, 209-220.	3.7	17
35	Nitrogen cycling in pastoral livestock systems in Sub-Saharan Africa: knowns and unknowns. <i>Ecological Applications</i> , 2021, 31, e02368.	1.8	7
36	Nitrous oxide emissions from red clover and winter wheat residues depend on interacting effects of distribution, soil N availability and moisture level. <i>Plant and Soil</i> , 2021, 466, 121-138.	1.8	8

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37	Modeling gas exchange and biomass production in West African Sahelian and Sudanian ecological zones. <i>Geoscientific Model Development</i> , 2021, 14, 3789-3812.	1.3	3
38	Drip fertigation promotes water and nitrogen use efficiency and yield stability through improved root growth for tomatoes in plastic greenhouse production. <i>Agriculture, Ecosystems and Environment</i> , 2021, 313, 107379.	2.5	27
39	Interactive regulation of root exudation and rhizosphere denitrification by plant metabolite content and soil properties. <i>Plant and Soil</i> , 2021, 467, 107-127.	1.8	32
40	Dynamic simulation of management events for assessing impacts of climate change on pre-alpine grassland productivity. <i>European Journal of Agronomy</i> , 2021, 128, 126306.	1.9	14
41	Improving soil respiration while maintaining soil C stocks in sunken plastic greenhouse vegetable production systems – Advantages of straw application and drip fertigation. <i>Agriculture, Ecosystems and Environment</i> , 2021, 316, 107464.	2.5	8
42	Anaerobic soil disinfestation with incorporation of straw and manure significantly increases greenhouse gases emission and reduces nitrate leaching while increasing leaching of dissolved organic N. <i>Science of the Total Environment</i> , 2021, 785, 147307.	3.9	16
43	Soil N <sub>2</sub> O emission from organic and conventional cotton farming in Northern Tanzania. <i>Science of the Total Environment</i> , 2021, 785, 147301.	3.9	3
44	Climate Change Can Accelerate Depletion of Montane Grassland C Stocks. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006792.	1.9	7
45	An open-path ammonia analyzer for eddy covariance flux measurement. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108570.	1.9	4
46	Soil type affects not only magnitude but also thermal sensitivity of N <sub>2</sub> O emissions in subtropical mountain area. <i>Science of the Total Environment</i> , 2021, 797, 149127.	3.9	9
47	Nitrous oxide emission factors for cattle dung and urine deposited onto tropical pastures: A review of field-based studies. <i>Agriculture, Ecosystems and Environment</i> , 2021, 322, 107637.	2.5	10
48	Effect of vole bioturbation on N <sub>2</sub> O, NO, NH <sub>3</sub> , CH <sub>4</sub> and CO <sub>2</sub> fluxes of slurry fertilized and non-fertilized montane grassland soils in Southern Germany. <i>Science of the Total Environment</i> , 2021, 800, 149597.	3.9	1
49	Sustainable livestock development in low- and middle-income countries: shedding light on evidence-based solutions. <i>Environmental Research Letters</i> , 2021, 16, 011001.	2.2	17
50	Effects of slurry acidification on soil N <sub>2</sub> O fluxes and denitrification. <i>Journal of Plant Nutrition and Soil Science</i> , 2021, 184, 696-708.	1.1	6
51	Beyond livestock carrying capacity in the Sahelian and Sudanian zones of West Africa. <i>Scientific Reports</i> , 2021, 11, 22094.	1.6	5
52	Elevated CO <sub>2</sub> negates O <sub>3</sub> impacts on terrestrial carbon and nitrogen cycles. <i>One Earth</i> , 2021, 4, 1752-1763.	3.6	38
53	Influence of soil properties on N <sub>2</sub> O and CO <sub>2</sub> emissions from excreta deposited on tropical pastures in Kenya. <i>Soil Biology and Biochemistry</i> , 2020, 140, 107636.	4.2	34
54	Simultaneous quantification of N <sub>2</sub> , NH <sub>3</sub> and N <sub>2</sub> O emissions from a flooded paddy field under different N fertilization regimes. <i>Global Change Biology</i> , 2020, 26, 2292-2303.	4.2	47

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55	Estimating global terrestrial denitrification from measured N <sub>2</sub> O:(N <sub>2</sub> O+â€”N <sub>2</sub> ) product ratios. Current Opinion in Environmental Sustainability, 2020, 47, 72-80.	3.1	56
56	Global Research Alliance N <sub>2</sub> O chamber methodology guidelines: Considerations for automated flux measurement. Journal of Environmental Quality, 2020, 49, 1126-1140.	1.0	26
57	From research to policy: optimizing the design of a national monitoring system to mitigate soil nitrous oxide emissions. Current Opinion in Environmental Sustainability, 2020, 47, 28-36.	3.1	20
58	Gross nitrogen transformations in tropical pasture soils as affected by Urochloa genotypes differing in biological nitrification inhibition (BNI) capacity. Soil Biology and Biochemistry, 2020, 151, 108058.	4.2	32
59	Improving Assessments of the Three Pillars of Climate Smart Agriculture: Current Achievements and Ideas for the Future. Frontiers in Sustainable Food Systems, 2020, 4, .	1.8	28
60	Livestock enclosures in drylands of Sub-Saharan Africa are overlooked hotspots of N <sub>2</sub> O emissions. Nature Communications, 2020, 11, 4644.	5.8	27
61	Closing maize yield gaps in sub-Saharan Africa will boost soil N <sub>2</sub> O emissions. Current Opinion in Environmental Sustainability, 2020, 47, 95-105.	3.1	40
62	Will dairy cattle production in West Africa be challenged by heat stress in the future?. Climatic Change, 2020, 161, 665-685.	1.7	12
63	The effects of climate on decomposition of cattle, sheep and goat manure in Kenyan tropical pastures. Plant and Soil, 2020, 451, 325-343.	1.8	33
64	Dinitrogen (N <sub>2</sub> ) pulse emissions during freeze-thaw cycles from montane grassland soil. Biology and Fertility of Soils, 2020, 56, 959-972.	2.3	17
65	Using field-measured soil N <sub>2</sub> O fluxes and laboratory scale parameterization of N <sub>2</sub> O/(N <sub>2</sub> O+N <sub>2</sub> ) ratios to quantify field-scale soil N <sub>2</sub> emissions. Soil Biology and Biochemistry, 2020, 148, 107904.	4.2	26
66	Improving N <sub>2</sub> O emission estimates with the global N <sub>2</sub> O database. Current Opinion in Environmental Sustainability, 2020, 47, 13-20.	3.1	27
67	Soil N intensity as a measure to estimate annual N <sub>2</sub> O and NO fluxes from natural and managed ecosystems. Current Opinion in Environmental Sustainability, 2020, 47, 1-6.	3.1	19
68	Denitrification Is the Main Nitrous Oxide Source Process in Grassland Soils According to Quasi-Continuous Isotopocule Analysis and Biogeochemical Modeling. Global Biogeochemical Cycles, 2020, 34, e2019GB006505.	1.9	11
69	Severe below-maintenance feed intake increases methane yield from enteric fermentation in cattle. British Journal of Nutrition, 2020, 123, 1239-1246.	1.2	35
70	Response of microbial community and net nitrogen turnover to modify climate change in Alpine meadow. Applied Soil Ecology, 2020, 152, 103553.	2.1	6
71	Application of mixed straw and biochar meets plant demand of carbon dioxide and increases soil carbon storage in sunken solar greenhouse vegetable production. Soil Use and Management, 2020, 36, 439-448.	2.6	23
72	Conventional flooding irrigation and over fertilization drives soil pH decrease not only in the top- but also in subsoil layers in solar greenhouse vegetable production systems. Geoderma, 2020, 363, 114156.	2.3	49

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73	Carbon–nitrogen interactions in European forests and semi-natural vegetation – Part 1: Fluxes and budgets of carbon, nitrogen and greenhouse gases from ecosystem monitoring and modelling. <i>Biogeosciences</i> , 2020, 17, 1583-1620.	1.3	21
74	Applicability of a gas analyzer with dual quantum cascade lasers for simultaneous measurements of N <sub>2</sub> O, CH <sub>4</sub> and CO <sub>2</sub> fluxes from cropland using the eddy covariance technique. <i>Science of the Total Environment</i> , 2020, 729, 138784.	3.9	9
75	Carbon–nitrogen interactions in European forests and semi-natural vegetation – Part 2: Untangling climatic, edaphic, management and nitrogen deposition effects on carbon sequestration potentials. <i>Biogeosciences</i> , 2020, 17, 1621-1654.	1.3	18
76	Editorial Overview: Climate change, reactive nitrogen, food security and sustainable agriculture - the case of N <sub>2</sub> O. <i>Current Opinion in Environmental Sustainability</i> , 2020, 47, A1-A4.	3.1	3
77	An urban polluted river as a significant hotspot for water–atmosphere exchange of CH <sub>4</sub> and N <sub>2</sub> O. <i>Environmental Pollution</i> , 2020, 264, 114770.	3.7	34
78	Temperature sensitivity of soil organic matter decomposition varies with biochar application and soil type. <i>Pedosphere</i> , 2020, 30, 336-342.	2.1	15
79	Sweet potato ( <i>Ipomoea batatas</i> ) vine silage: a cost-effective supplement for milk production in smallholder dairy-farming systems of East Africa?. <i>Animal Production Science</i> , 2020, 60, 1087.	0.6	9
80	Tea-planted soils as global hotspots for N <sub>2</sub> O emissions from croplands. <i>Environmental Research Letters</i> , 2020, 15, 104018.	2.2	23
81	Benefits of integrated nutrient management on N <sub>2</sub> O and NO mitigations in water-saving ground cover rice production systems. <i>Science of the Total Environment</i> , 2019, 646, 1155-1163.	3.9	28
82	Digesta passage and nutrient digestibility in Boran steers at low feed intake levels. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2019, 103, 1325-1337.	1.0	10
83	Land Use, Not Stream Order, Controls N <sub>2</sub> O Concentration and Flux in the Upper Mara River Basin, Kenya. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3491-3506.	1.3	35
84	Seasonal dynamics and profiles of soil NO concentrations in a temperate forest. <i>Plant and Soil</i> , 2019, 445, 335-348.	1.8	15
85	Dissolved organic carbon leaching from montane grasslands under contrasting climate, soil and management conditions. <i>Biogeochemistry</i> , 2019, 145, 47-61.	1.7	14
86	Annual dynamics of soil gross nitrogen turnover and nitrous oxide emissions in an alpine shrub meadow. <i>Soil Biology and Biochemistry</i> , 2019, 138, 107576.	4.2	24
87	New records of very high nitrous oxide fluxes from rice cannot be generalized for water management and climate impacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1464-1465.	3.3	14
88	Fertilizer nitrogen loss via N <sub>2</sub> emission from calcareous soil following basal urea application of winter wheat. <i>Atmospheric and Oceanic Science Letters</i> , 2019, 12, 91-97.	0.5	3
89	Supplementing Tropical Cattle for Improved Nutrient Utilization and Reduced Enteric Methane Emissions. <i>Animals</i> , 2019, 9, 210.	1.0	18
90	Drip irrigation or reduced N-fertilizer rate can mitigate the high annual N <sub>2</sub> O+NO fluxes from Chinese intensive greenhouse vegetable systems. <i>Atmospheric Environment</i> , 2019, 212, 183-193.	1.9	66

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91	Characteristics of annual greenhouse gas flux and NO release from alpine meadow and forest on the eastern Tibetan Plateau. <i>Agricultural and Forest Meteorology</i> , 2019, 272-273, 166-175.	1.9	19
92	Nitrogen turnover and N <sub>2</sub> O/N <sub>2</sub> ratio of three contrasting tropical soils amended with biochar. <i>Geoderma</i> , 2019, 348, 12-20.	2.3	16
93	Constraining N cycling in the ecosystem model LandscapeDNDC with the stable isotope model SIMONE. <i>Ecology</i> , 2019, 100, e02675.	1.5	16
94	Improved region-specific emission factors for enteric methane emissions from cattle in smallholder mixed crop: livestock systems of Nandi County, Kenya. <i>Animal Production Science</i> , 2019, 59, 1136.	0.6	28
95	Projected changes in modified Thornthwaite climate zones over Southwest Asia using a CMIP5 multi-model ensemble. <i>International Journal of Climatology</i> , 2019, 39, 4575-4594.	1.5	18
96	Plant and soil effects on denitrification potential in agricultural soils. <i>Plant and Soil</i> , 2019, 439, 459-474.	1.8	33
97	Dinitrogen emissions: an overlooked key component of the N balance of montane grasslands. <i>Biogeochemistry</i> , 2019, 143, 15-30.	1.7	33
98	Effects of climate warming on carbon fluxes in grasslands—A global meta-analysis. <i>Global Change Biology</i> , 2019, 25, 1839-1851.	4.2	103
99	Soil carbon dioxide and methane fluxes from forests and other land use types in an African tropical montane region. <i>Biogeochemistry</i> , 2019, 143, 171-190.	1.7	44
100	Effects of feed intake level on efficiency of microbial protein synthesis and nitrogen balance in Boran steers consuming tropical poor-quality forage. <i>Archives of Animal Nutrition</i> , 2019, 73, 140-157.	0.9	18
101	Attribution of N and O sources in a grassland soil with laser spectroscopy based isotopocule analysis. <i>Biogeosciences</i> , 2019, 16, 3247-3266.	1.3	36
102	Drip fertigation significantly reduces nitrogen leaching in solar greenhouse vegetable production system. <i>Environmental Pollution</i> , 2019, 245, 694-701.	3.7	107
103	Greenhouse gas footprint of diversifying rice cropping systems: Impacts of water regime and organic amendments. <i>Agriculture, Ecosystems and Environment</i> , 2019, 270-271, 41-54.	2.5	36
104	Long-term grazing effects on soil-atmosphere exchanges of CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> O at different grasslands in Inner Mongolia: A soil core study. <i>Ecological Indicators</i> , 2019, 105, 316-328.	2.6	20
105	Temporal and spatial variability in the nutritive value of pasture vegetation and supplement feedstuffs for domestic ruminants in Western Kenya. <i>Asian-Australasian Journal of Animal Sciences</i> , 2019, 32, 637-647.	2.4	15
106	Land Use, Land Use History, and Soil Type Affect Soil Greenhouse Gas Fluxes From Agricultural Landscapes of the East African Highlands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 976-990.	1.3	8
107	Land-use and abandonment alters methane and nitrous oxide fluxes in mountain grasslands. <i>Science of the Total Environment</i> , 2018, 628-629, 997-1008.	3.9	15
108	Using High-Resolution Data to Assess Land Use Impact on Nitrate Dynamics in East African Tropical Montane Catchments. <i>Water Resources Research</i> , 2018, 54, 1812-1830.	1.7	27

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109	A new approach for improving emission factors for enteric methane emissions of cattle in smallholder systems of East Africa – Results for Nyando, Western Kenya. <i>Agricultural Systems</i> , 2018, 161, 72-80.	3.2	50
110	Greenhouse gas fluxes over managed grasslands in Central Europe. <i>Global Change Biology</i> , 2018, 24, 1843-1872.	4.2	63
111	Management intensity controls soil N <sub>2</sub> O fluxes in an Afrotropical ecosystem. <i>Science of the Total Environment</i> , 2018, 624, 769-780.	3.9	22
112	Stand age amplifies greenhouse gas and NO releases following conversion of rice paddy to tea plantations in subtropical China. <i>Agricultural and Forest Meteorology</i> , 2018, 248, 386-396.	1.9	29
113	Effects of Climate Change on CH <sub>4</sub> and N <sub>2</sub> O Fluxes from Temperate and Boreal Forest Soils. , 2018, , 11-27.		2
114	Enhanced nitrogen cycling and N <sub>2</sub> O loss in water-saving ground cover rice production systems (GCRPS). <i>Soil Biology and Biochemistry</i> , 2018, 121, 77-86.	4.2	22
115	Nitrogen-rich organic soils under warm well-drained conditions are global nitrous oxide emission hotspots. <i>Nature Communications</i> , 2018, 9, 1135.	5.8	98
116	Conversion of natural forest results in a significant degradation of soil hydraulic properties in the highlands of Kenya. <i>Soil and Tillage Research</i> , 2018, 176, 36-44.	2.6	41
117	Soil organic carbon changes following degradation and conversion to cypress and tea plantations in a tropical mountain forest in Kenya. <i>Plant and Soil</i> , 2018, 422, 527-539.	1.8	26
118	Towards a feasible and representative pan-African research infrastructure network for GHG observations. <i>Environmental Research Letters</i> , 2018, 13, 085003.	2.2	20
119	The TERENO Pre-Alpine Observatory: Integrating Meteorological, Hydrological, and Biogeochemical Measurements and Modeling. <i>Vadose Zone Journal</i> , 2018, 17, 1-17.	1.3	51
120	Effect of Dung Quantity and Quality on Greenhouse Gas Fluxes From Tropical Pastures in Kenya. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1589-1604.	1.9	40
121	Trade-offs between soil carbon sequestration and reactive nitrogen losses under straw return in global agroecosystems. <i>Global Change Biology</i> , 2018, 24, 5919-5932.	4.2	273
122	Assessment of hydrological pathways in East African montane catchments under different land use. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4981-5000.	1.9	30
123	Greenhouse gas emissions from soil amended with agricultural residue biochars: Effects of feedstock type, production temperature and soil moisture. <i>Biomass and Bioenergy</i> , 2018, 117, 1-9.	2.9	44
124	Postfire nitrogen balance of Mediterranean shrublands: Direct combustion losses versus gaseous and leaching losses from the postfire soil mineral nitrogen flush. <i>Global Change Biology</i> , 2018, 24, 4505-4520.	4.2	29
125	How to target climate-smart agriculture? Concept and application of the consensus-driven decision support framework – targetCSA. <i>Agricultural Systems</i> , 2017, 151, 234-245.	3.2	74
126	A global synthesis of the rate and temperature sensitivity of soil nitrogen mineralization: latitudinal patterns and mechanisms. <i>Global Change Biology</i> , 2017, 23, 455-464.	4.2	151



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127	Nitrate leaching and soil nitrous oxide emissions diminish with time in a hybrid poplar short-rotation coppice in southern Germany. <i>GCB Bioenergy</i> , 2017, 9, 613-626.	2.5	20
128	Improving rice production sustainability by reducing water demand and greenhouse gas emissions with biodegradable films. <i>Scientific Reports</i> , 2017, 7, 39855.	1.6	55
129	Importance of soil NO emissions for the total atmospheric NO <sub>x</sub> budget of Saxony, Germany. <i>Atmospheric Environment</i> , 2017, 152, 61-76.	1.9	21
130	Exploring impacts of vegetated buffer strips on nitrogen cycling using a spatially explicit hydro-biogeochemical modeling approach. <i>Environmental Modelling and Software</i> , 2017, 90, 55-67.	1.9	17
131	Straw return reduces yield-scaled N <sub>2</sub> O plus NO emissions from annual winter wheat-based cropping systems in the North China Plain. <i>Science of the Total Environment</i> , 2017, 590-591, 174-185.	3.9	79
132	Warming from freezing soils. <i>Nature Geoscience</i> , 2017, 10, 248-249.	5.4	12
133	The nitrogen cycle: A review of isotope effects and isotope modeling approaches. <i>Soil Biology and Biochemistry</i> , 2017, 105, 121-137.	4.2	259
134	Land use affects total dissolved nitrogen and nitrate concentrations in tropical montane streams in Kenya. <i>Science of the Total Environment</i> , 2017, 603-604, 519-532.	3.9	56
135	Quantifying the contribution of land use to N <sub>2</sub> O, NO and CO <sub>2</sub> fluxes in a montane forest ecosystem of Kenya. <i>Biogeochemistry</i> , 2017, 134, 95-114.	1.7	13
136	C and N stocks are not impacted by land use change from Brazilian Savanna (Cerrado) to agriculture despite changes in soil fertility and microbial abundances. <i>Journal of Plant Nutrition and Soil Science</i> , 2017, 180, 436-445.	1.1	8
137	Rejecting hydro-biogeochemical model structures by multi-criteria evaluation. <i>Environmental Modelling and Software</i> , 2017, 93, 1-12.	1.9	19
138	Nitrogen nutrition of native and introduced forest tree species in N-limited ecosystems of the Qinling Mountains, China. <i>Trees - Structure and Function</i> , 2017, 31, 1189-1202.	0.9	5
139	Spatial variability of soil N <sub>2</sub> O and CO <sub>2</sub> fluxes in different topographic positions in a tropical montane forest in Kenya. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 514-527.	1.3	46
140	Comparison of nitrogen nutrition and soil carbon status of afforested stands established in degraded soil of the Loess Plateau, China. <i>Forest Ecology and Management</i> , 2017, 389, 46-58.	1.4	36
141	Environmental impacts of bioenergy wood production from poplar short-rotation coppice grown at a marginal agricultural site in Germany. <i>GCB Bioenergy</i> , 2017, 9, 1207-1221.	2.5	38
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