

Matti Barthel

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

811
citations

567281

15
h-index

526287

27
g-index

31
all docs

31
docs citations

31
times ranked

1508
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluvial sediment export from pristine forested headwater catchments in the Congo Basin. <i>Geomorphology</i> , 2022, 398, 108046.	2.6	6
2	Low N ₂ O and variable CH ₄ fluxes from tropical forest soils of the Congo Basin. <i>Nature Communications</i> , 2022, 13, 330.	12.8	17
3	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3114.	9.5	113
4	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
5	Cassava-maize intercropping systems in southern Nigeria: Radiation use efficiency, soil moisture dynamics, and yields of component crops. <i>Field Crops Research</i> , 2022, 283, 108550.	5.1	7
6	Ebullitive CH ₄ flux and its mitigation potential by aeration in freshwater aquaculture: Measurements and global data synthesis. <i>Agriculture, Ecosystems and Environment</i> , 2022, 335, 108016.	5.3	11
7	Ideas and perspectives: patterns of soil CO ₂ , CH ₄ , and N ₂ O fluxes along an altitudinal gradient – a pilot study from an Ecuadorian neotropical montane forest. <i>Biogeosciences</i> , 2021, 18, 413-421.	3.3	4
8	Stable isotope signatures of soil nitrogen on an environmental – geomorphic gradient within the Congo Basin. <i>Soil</i> , 2021, 7, 83-94.	4.9	9
9	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
10	In-depth analysis of N ₂ O fluxes in tropical forest soils of the Congo Basin combining isotope and functional gene analysis. <i>ISME Journal</i> , 2021, 15, 3357-3374.	9.8	24
11	Nutrient limitations regulate soil greenhouse gas fluxes from tropical forests: evidence from an ecosystem-scale nutrient manipulation experiment in Uganda. <i>Soil</i> , 2021, 7, 433-451.	4.9	8
12	Mixed Effects of Soil Compaction on the Nitrogen Cycle Under Pea and Wheat. <i>Frontiers in Microbiology</i> , 2021, 12, 822487.	3.5	4
13	Livestock enclosures in drylands of Sub-Saharan Africa are overlooked hotspots of N ₂ O emissions. <i>Nature Communications</i> , 2020, 11, 4644.	12.8	27
14	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
15	N ₂ O isotopocule measurements using laser spectroscopy: analyzer characterization and intercomparison. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2797-2831.	3.1	34
16	What can we learn from N ₂ O isotope data? – Analytics, processes and modelling. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8858.	1.5	67
17	Denitrification Is the Main Nitrous Oxide Source Process in Grassland Soils According to Quasi-Continuous Isotopocule Analysis and Biogeochemical Modeling. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006505.	4.9	11
18	Seasonality, drivers, and isotopic composition of soil CO ₂ fluxes from tropical forests of the Congo Basin. <i>Biogeosciences</i> , 2020, 17, 6207-6218.	3.3	6

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19	Mobilization of aged and biolabile soil carbon by tropical deforestation. <i>Nature Geoscience</i> , 2019, 12, 541-546.	12.9	97
20	Distinct responses of soil fungal and bacterial nitrate immobilization to land conversion from forest to agriculture. <i>Soil Biology and Biochemistry</i> , 2019, 134, 81-89.	8.8	37
21	Early season N ₂ O emissions under variable water management in rice systems: source-partitioning emissions using isotope ratios along a depth profile. <i>Biogeosciences</i> , 2019, 16, 383-408.	3.3	31
22	Contrasting nitrogen fluxes in African tropical forests of the Congo Basin. <i>Ecological Monographs</i> , 2019, 89, e01342.	5.4	39
23	Nitrification and coupled nitrification-denitrification at shallow depths are responsible for early season N ₂ O emissions under alternate wetting and drying management in an Italian rice paddy system. <i>Soil Biology and Biochemistry</i> , 2018, 120, 58-69.	8.8	47
24	Greenhouse gas fluxes over managed grasslands in Central Europe. <i>Global Change Biology</i> , 2018, 24, 1843-1872.	9.5	63
25	Combining two complementary micrometeorological methods to measure CH ₄ and N ₂ O fluxes over pasture. <i>Biogeosciences</i> , 2016, 13, 1309-1327.	3.3	18
26	Carbon budgets for an irrigated intensively grazed dairy pasture and an unirrigated winter-grazed pasture. <i>Biogeosciences</i> , 2016, 13, 2927-2944.	3.3	52
27	Metabolic Fate of the Carboxyl Groups of Malate and Pyruvate and their Influence on $\delta^{13}C$ of Leaf-Respired CO ₂ during Light Enhanced Dark Respiration. <i>Frontiers in Plant Science</i> , 2016, 7, 739.	3.6	15
28	Strong Coupling of Shoot Assimilation and Soil Respiration during Drought and Recovery Periods in Beech As Indicated by Natural Abundance $\delta^{13}C$ Measurements. <i>Frontiers in Plant Science</i> , 2016, 7, 1710.	3.6	21
29	Carbon isotope discrimination during branch photosynthesis of <i>Fagus sylvatica</i> : field measurements using laser spectrometry. <i>Journal of Experimental Botany</i> , 2014, 65, 1481-1496.	4.8	6
30	Soil H ₂ O labelling reveals the effect of drought on C ₁₈ O fluxes to the atmosphere. <i>Journal of Experimental Botany</i> , 2014, 65, 5783-5793.	4.8	4
31	Substantial Organic and Particulate Nitrogen and Phosphorus Export from Geomorphologically Stable African Tropical Forest Landscapes. <i>Ecosystems</i> , 0, , .	3.4	0