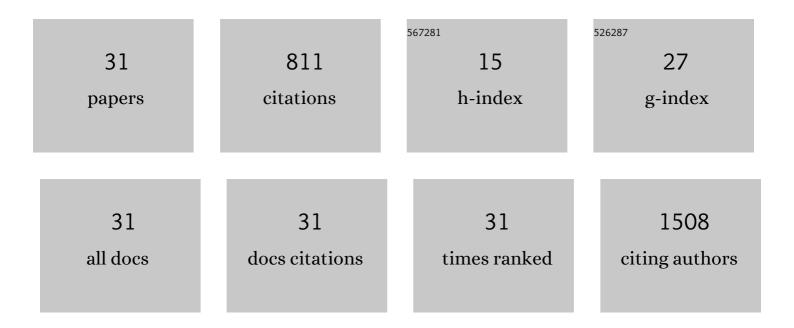
Matti Barthel

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9999989/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Global maps of soil temperature. Global Change Biology, 2022, 28, 3110-3144. | 9.5 | 113 |
| 2 | Mobilization of aged and biolabile soil carbon by tropical deforestation. Nature Geoscience, 2019, 12, 541-546. | 12.9 | 97 |
| 3 | What can we learn from N ₂ O isotope data? – Analytics, processes and modelling. Rapid Communications in Mass Spectrometry, 2020, 34, e8858. | 1.5 | 67 |
| 4 | Greenhouse gas fluxes over managed grasslands in Central Europe. Global Change Biology, 2018, 24, 1843-1872. | 9.5 | 63 |
| 5 | Carbon budgets for an irrigated intensively grazed dairy pasture and an unirrigated winter-grazed pasture. Biogeosciences, 2016, 13, 2927-2944. | 3.3 | 52 |
| 6 | Nitrification and coupled nitrification-denitrification at shallow depths are responsible for early season N2O emissions under alternate wetting and drying management in an Italian rice paddy system. Soil Biology and Biochemistry, 2018, 120, 58-69. | 8.8 | 47 |
| 7 | Contrasting nitrogen fluxes in African tropical forests of the Congo Basin. Ecological Monographs, 2019, 89, e01342. | 5.4 | 39 |
| 8 | Distinct responses of soil fungal and bacterial nitrate immobilization to land conversion from forest to agriculture. Soil Biology and Biochemistry, 2019, 134, 81-89. | 8.8 | 37 |
| 9 | N ₂ O isotopocule measurements using laser spectroscopy: analyzer characterization and intercomparison. Atmospheric Measurement Techniques, 2020, 13, 2797-2831. | 3.1 | 34 |
| 10 | Early season N ₂ O emissions under variable water management in rice systems: source-partitioning emissions using isotope ratios along a depth profile. Biogeosciences, 2019, 16, 383-408. | 3.3 | 31 |
| 11 | Livestock enclosures in drylands of Sub-Saharan Africa are overlooked hotspots of N2O emissions. Nature Communications, 2020, 11, 4644. | 12.8 | 27 |
| 12 | In-depth analysis of N2O fluxes in tropical forest soils of the Congo Basin combining isotope and functional gene analysis. ISME Journal, 2021, 15, 3357-3374. | 9.8 | 24 |
| 13 | Strong Coupling of Shoot Assimilation and Soil Respiration during Drought and Recovery Periods in Beech As Indicated by Natural Abundance δ13C Measurements. Frontiers in Plant Science, 2016, 7, 1710. | 3.6 | 21 |
| 14 | Centuryâ€long apparent decrease in intrinsic waterâ€use efficiency with no evidence of progressive nutrient limitation in African tropical forests. Global Change Biology, 2020, 26, 4449-4461. | 9.5 | 20 |
| 15 | Combining two complementary micrometeorological methods to measure CH ₄ and N ₂ O fluxes over pasture. Biogeosciences, 2016, 13, 1309-1327. | 3.3 | 18 |
| 16 | Low N2O and variable CH4 fluxes from tropical forest soils of the Congo Basin. Nature Communications, 2022, 13, 330. | 12.8 | 17 |
| 17 | Metabolic Fate of the Carboxyl Groups of Malate and Pyruvate and their Influence on δ13C of Leaf-Respired CO2 during Light Enhanced Dark Respiration. Frontiers in Plant Science, 2016, 7, 739. | 3.6 | 15 |
| 18 | Spatial and temporal variations of greenhouse gas emissions from a waste stabilization pond: Effects of sludge distribution and accumulation. Water Research, 2021, 193, 116858. | 11.3 | 12 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Denitrification Is the Main Nitrous Oxide Source Process in Grassland Soils According to Quasiâ€Continuous Isotopocule Analysis and Biogeochemical Modeling. Global Biogeochemical Cycles, 2020, 34, e2019GB006505. | 4.9 | 11 |
| 20 | Ebullitive CH4 flux and its mitigation potential by aeration in freshwater aquaculture: Measurements and global data synthesis. Agriculture, Ecosystems and Environment, 2022, 335, 108016. | 5.3 | 11 |
| 21 | Stable isotope signatures of soil nitrogen on an environmental–geomorphic gradient within the Congo Basin. Soil, 2021, 7, 83-94. | 4.9 | 9 |
| 22 | Nutrient limitations regulate soil greenhouse gas fluxes from tropical forests: evidence from an ecosystem-scale nutrient manipulation experiment in Uganda. Soil, 2021, 7, 433-451. | 4.9 | 8 |
| 23 | Cassava-maize intercropping systems in southern Nigeria: Radiation use efficiency, soil moisture dynamics, and yields of component crops. Field Crops Research, 2022, 283, 108550. | 5.1 | 7 |
| 24 | Carbon isotope discrimination during branch photosynthesis of Fagus sylvatica: field measurements using laser spectrometry. Journal of Experimental Botany, 2014, 65, 1481-1496. | 4.8 | 6 |
| 25 | Seasonality, drivers, and isotopic composition of soil CO ₂ fluxes from tropical forests of the Congo Basin. Biogeosciences, 2020, 17, 6207-6218. | 3.3 | 6 |
| 26 | Fluvial sediment export from pristine forested headwater catchments in the Congo Basin. Geomorphology, 2022, 398, 108046. | 2.6 | 6 |
| 27 | Soil H 218 O labelling reveals the effect of drought on C 18 OO fluxes to the atmosphere. Journal of Experimental Botany, 2014, 65, 5783-5793. | 4.8 | 4 |
| 28 | 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. Biogeosciences, 2021, 18, 413-421. | 3.3 | 4 |
| 29 | Mixed Effects of Soil Compaction on the Nitrogen Cycle Under Pea and Wheat. Frontiers in Microbiology, 2021, 12, 822487. | 3.5 | 4 |
| 30 | Conservative N cycling despite high atmospheric deposition in early successional African tropical lowland forests. Plant and Soil, 2022, 477, 743-758. | 3.7 | 1 |
| 31 | Substantial Organic and Particulate Nitrogen and Phosphorus Export from Geomorphologically Stable African Tropical Forest Landscapes. Ecosystems, 0, , . | 3.4 | 0 |