

Peter DÃ¶rsch

List of Publications by Year in descending order

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78
papers

3,759
citations

172457

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92
all docs

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docs citations

92
times ranked

3695
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Nitrate runoff loss and source apportionment in a typical subtropical agricultural watershed. <i>Environmental Science and Pollution Research</i> , 2022, 29, 20186-20199. | 5.3 | 9 |
| 2 | Nitrate leaching and N accumulation in a typical subtropical red soil with N fertilization. <i>Geoderma</i> , 2022, 407, 115559. | 5.1 | 17 |
| 3 | Nitrite accumulation and impairment of N ₂ O reduction explains contrasting soil denitrification phenotypes. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108529. | 8.8 | 8 |
| 4 | Seasonal dynamics of soil pH and N transformation as affected by N fertilization in subtropical China: An in situ ¹⁵ N labeling study. <i>Science of the Total Environment</i> , 2022, 816, 151596. | 8.0 | 22 |
| 5 | Pigeon pea biochar addition in tropical Arenosol under maize increases gross nitrification rate without an effect on nitrous oxide emission. <i>Plant and Soil</i> , 2022, 474, 195-212. | 3.7 | 3 |
| 6 | Soil acidification and loss of base cations in a subtropical agricultural watershed. <i>Science of the Total Environment</i> , 2022, 827, 154338. | 8.0 | 22 |
| 7 | Winter N ₂ O accumulation and emission in sub-boreal grassland soil depend on clover proportion and soil pH. <i>Environmental Research Communications</i> , 2021, 3, 015001. | 2.3 | 11 |
| 8 | Automated Laboratory and Field Techniques to Determine Greenhouse Gas Emissions. , 2021, , 109-139. | | 1 |
| 9 | Small-scale on-site treatment of fecal matter: comparison of treatments for resource recovery and sanitization. <i>Environmental Science and Pollution Research</i> , 2021, 28, 63945-63964. | 5.3 | 2 |
| 10 | Topography-related controls on N ₂ O emission and CH ₄ uptake in a tropical rainforest catchment. <i>Science of the Total Environment</i> , 2021, 775, 145616. | 8.0 | 8 |
| 11 | Topographic differences in nitrogen cycling mediate nitrogen retention in a subtropical, N-saturated forest catchment. <i>Soil Biology and Biochemistry</i> , 2021, 159, 108303. | 8.8 | 17 |
| 12 | Calibration of the EU-Rotate_N model with measured C and N mineralization from potential fertilizers and evaluation of its prediction of crop and soil data from a vegetable field trial. <i>European Journal of Agronomy</i> , 2021, 129, 126336. | 4.1 | 3 |
| 13 | Clover increases N ₂ O emissions in boreal leys during winter. <i>Soil Biology and Biochemistry</i> , 2021, 163, 108459. | 8.8 | 3 |
| 14 | Boreal Headwater Catchment as Hot Spot of Carbon Processing From Headwater to Fjord. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006359. | 3.0 | 4 |
| 15 | Nitrification is the primary source for NO in N-saturated subtropical forest soils: Results from in situ ¹⁵ N labeling. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8700. | 1.5 | 4 |
| 16 | Trade-offs in greenhouse gas emissions across a liming-induced gradient of soil pH: Role of microbial structure and functioning. <i>Soil Biology and Biochemistry</i> , 2020, 150, 108006. | 8.8 | 30 |
| 17 | Phosphorus Availability Promotes Bacterial DOC-Mineralization, but Not Cumulative CO ₂ -Production. <i>Frontiers in Microbiology</i> , 2020, 11, 569879. | 3.5 | 5 |
| 18 | Contingent Effects of Liming on N ₂ O-Emissions Driven by Autotrophic Nitrification. <i>Frontiers in Environmental Science</i> , 2020, 8, . | 3.3 | 25 |

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|----|--|-----|-----------|
| 19 | Effect of legume intercropping on N ₂ O emissions and CH ₄ uptake during maize production in the Great Rift Valley, Ethiopia. <i>Biogeosciences</i> , 2020, 17, 345-359. | 3.3 | 26 |
| 20 | Nitrous oxide emissions from oilseed rape cultivation were unaffected by flash pyrolysis biochar of different type, rate and field ageing. <i>Science of the Total Environment</i> , 2020, 724, 138140. | 8.0 | 11 |
| 21 | Propionic acid bacteria enhance ruminal feed degradation and reduce methane production <i>in vitro</i> . <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2020, 69, 169-175. | 0.2 | 18 |
| 22 | Soil N ₂ O emission potential falls along a denitrification phenotype gradient linked to differences in microbiome, rainfall and carbon availability. <i>Soil Biology and Biochemistry</i> , 2020, 150, 108004. | 8.8 | 23 |
| 23 | Effects of nitrogen split application on seasonal N ₂ O emissions in southeast Norway. <i>Nutrient Cycling in Agroecosystems</i> , 2019, 115, 41-56. | 2.2 | 17 |
| 24 | Bradyrhizobial inoculation and P application effects on haricot and mung beans in the Ethiopian Rift Valley. <i>Plant and Soil</i> , 2019, 442, 271-284. | 3.7 | 12 |
| 25 | Physical constraints for respiration in microbial hotspots in soil and their importance for denitrification. <i>Biogeosciences</i> , 2019, 16, 3665-3678. | 3.3 | 30 |
| 26 | Humid Subtropical Forests Constitute a Net Methane Source: A Catchment-Scale Study. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2927-2942. | 3.0 | 4 |
| 27 | Using metagenomics to reveal landscape scale patterns of denitrifiers in a montane forest ecosystem. <i>Soil Biology and Biochemistry</i> , 2019, 138, 107585. | 8.8 | 16 |
| 28 | Relative activity of ammonia oxidizing archaea and bacteria determine nitrification-dependent N ₂ O emissions in Oregon forest soils. <i>Soil Biology and Biochemistry</i> , 2019, 139, 107612. | 8.8 | 36 |
| 29 | The effect of a biochar temperature series on denitrification: which biochar properties matter?. <i>Soil Biology and Biochemistry</i> , 2019, 135, 173-183. | 8.8 | 49 |
| 30 | Denitrification as a major regional nitrogen sink in subtropical forest catchments: Evidence from multi-site dual nitrate isotopes. <i>Global Change Biology</i> , 2019, 25, 1765-1778. | 9.5 | 30 |
| 31 | Controlled induction of denitrification in <i>Pseudomonas aureofaciens</i> : A simplified denitrifier method for dual isotope analysis in NO ₃ ⁻ . <i>Science of the Total Environment</i> , 2018, 633, 1370-1378. | 8.0 | 14 |
| 32 | Denitrification in Soil Aggregate Analogues-Effect of Aggregate Size and Oxygen Diffusion. <i>Frontiers in Environmental Science</i> , 2018, 6, . | 3.3 | 65 |
| 33 | Modified Method for Trapping and Analyzing ¹⁵ N in NO Released from Soils. <i>Analytical Chemistry</i> , 2017, 89, 4124-4130. | 6.5 | 2 |
| 34 | Distinct fates of atmospheric NH ₄ ⁺ and NO ₃ ⁻ in subtropical, N-saturated forest soils. <i>Biogeochemistry</i> , 2017, 133, 279-294. | 3.5 | 27 |
| 35 | Spatial and temporal variability of soil nitric oxide emissions in N-saturated subtropical forest. <i>Biogeochemistry</i> , 2017, 134, 337-351. | 3.5 | 11 |
| 36 | Biological nitrogen fixation and transfer in a high latitude grass-clover grassland under different management practices. <i>Plant and Soil</i> , 2017, 421, 107-122. | 3.7 | 6 |

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|----|---|-----|-----------|
| 37 | Nitric oxide emission response to soil moisture is linked to transcriptional activity of functional microbial groups. <i>Soil Biology and Biochemistry</i> , 2017, 115, 337-345. | 8.8 | 11 |
| 38 | Phosphorus addition mitigates N ₂ O and CH ₄ emissions in N-saturated subtropical forest, SW China. <i>Biogeosciences</i> , 2017, 14, 3097-3109. | 3.3 | 25 |
| 39 | Effects of tillage practice on soil structure, N ₂ O emissions and economics in cereal production under current socio-economic conditions in central Bosnia and Herzegovina. <i>PLoS ONE</i> , 2017, 12, e0187681. | 2.5 | 17 |
| 40 | Spatial variation in soil pH controls off-season N ₂ O emission in an agricultural soil. <i>Soil Biology and Biochemistry</i> , 2016, 99, 36-46. | 8.8 | 94 |
| 41 | Mechanism leading to N ₂ O production in wastewater treating biofilm systems. <i>Reviews in Environmental Science and Biotechnology</i> , 2016, 15, 355-378. | 8.1 | 40 |
| 42 | Multiyear dual nitrate isotope signatures suggest that N-saturated subtropical forested catchments can act as robust N sinks. <i>Global Change Biology</i> , 2016, 22, 3662-3674. | 9.5 | 33 |
| 43 | Greenhouse gas metabolism in Nordic boreal lakes. <i>Biogeochemistry</i> , 2015, 126, 211-225. | 3.5 | 77 |
| 44 | Carbon Dioxide and Methane Formation in Norway Spruce Stems Infected by White-Rot Fungi. <i>Forests</i> , 2015, 6, 3304-3325. | 2.1 | 20 |
| 45 | pH-driven shifts in overall and transcriptionally active denitrifiers control gaseous product stoichiometry in growth experiments with extracted bacteria from soil. <i>Frontiers in Microbiology</i> , 2015, 6, 961. | 3.5 | 70 |
| 46 | Higher N ₂ O emission by intensified crop production in South Asia. <i>Global Ecology and Conservation</i> , 2015, 4, 176-184. | 2.1 | 7 |
| 47 | Effect of fertilization rate and ploughing time on nitrous oxide emissions in a long-term cereal trail in south east Norway. <i>Biology and Fertility of Soils</i> , 2015, 51, 353-365. | 4.3 | 4 |
| 48 | Nitrous oxide emissions in a biofilm loaded with different mixtures of concentrated household wastewater. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 3405-3416. | 3.5 | 11 |
| 49 | Effect of Soil pH Increase by Biochar on NO, N ₂ O and N ₂ Production during Denitrification in Acid Soils. <i>PLoS ONE</i> , 2015, 10, e0138781. | 2.5 | 131 |
| 50 | Fluxes of CH ₄ , N ₂ O, and kinetics of denitrification in disturbed and undisturbed forest soil in India. <i>Canadian Journal of Soil Science</i> , 2014, 94, 237-249. | 1.2 | 5 |
| 51 | Nitrous oxide emissions from a fertile grassland in Western Norway following the application of inorganic and organic fertilizers. <i>Nutrient Cycling in Agroecosystems</i> , 2014, 98, 71-85. | 2.2 | 13 |
| 52 | The importance of denitrification for N ₂ O emissions from an N-saturated forest in SW China: results from in situ ¹⁵ N labeling experiments. <i>Biogeochemistry</i> , 2013, 116, 103-117. | 3.5 | 43 |
| 53 | Autoxidation and acetylene-accelerated oxidation of NO in a 2-phase system: Implications for the expression of denitrification in ex situ experiments. <i>Soil Biology and Biochemistry</i> , 2013, 57, 606-614. | 8.8 | 44 |
| 54 | Functional traits of denitrification in a subtropical forest catchment in China with high atmospheric N deposition. <i>Soil Biology and Biochemistry</i> , 2013, 57, 577-586. | 8.8 | 33 |

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|----|--|------|-----------|
| 55 | Sorption of Pure N ₂ O to Biochars and Other Organic and Inorganic Materials under Anhydrous Conditions. <i>Environmental Science & Technology</i> , 2013, 47, 7704-7712. | 10.0 | 103 |
| 56 | Sequential extraction of denitrifying organisms from soils; strongly attached cells produce less N ₂ O than loosely attached cells. <i>Soil Biology and Biochemistry</i> , 2013, 67, 62-69. | 8.8 | 10 |
| 57 | The significance of early accumulation of nanomolar concentrations of NO as an inducer of denitrification. <i>FEMS Microbiology Ecology</i> , 2013, 83, 672-684. | 2.7 | 17 |
| 58 | Spatial and temporal variability of N ₂ O emissions in a subtropical forest catchment in China. <i>Biogeosciences</i> , 2013, 10, 1309-1321. | 3.3 | 50 |
| 59 | N ₂ O emission from organic barley cultivation as affected by green manure management. <i>Biogeosciences</i> , 2012, 9, 2747-2759. | 3.3 | 27 |
| 60 | Community-specific pH response of denitrification: experiments with cells extracted from organic soils. <i>FEMS Microbiology Ecology</i> , 2012, 79, 530-541. | 2.7 | 58 |
| 61 | Genetic characterization of denitrifier communities with contrasting intrinsic functional traits. <i>FEMS Microbiology Ecology</i> , 2012, 79, 542-554. | 2.7 | 56 |
| 62 | Soil acidification by intensified crop production in South Asia results in higher N ₂ O/(N ₂ +N ₂ O) product ratios of denitrification. <i>Soil Biology and Biochemistry</i> , 2012, 55, 104-112. | 8.8 | 60 |
| 63 | Phenotypic and genotypic heterogeneity among closely related soil-borne N ₂ - and N ₂ O-producing <i>Bacillus</i> isolates harboring the nosZ gene. <i>FEMS Microbiology Ecology</i> , 2011, 76, 541-552. | 2.7 | 53 |
| 64 | Production of NO, N ₂ O and N ₂ by extracted soil bacteria, regulation by NO ₂ ⁻ and O ₂ concentrations. <i>FEMS Microbiology Ecology</i> , 2008, 65, 102-112. | 2.7 | 141 |
| 65 | Robotized incubation system for monitoring gases (O ₂ , NO, N ₂ O N ₂) in denitrifying cultures. <i>Journal of Microbiological Methods</i> , 2007, 71, 202-211. | 1.6 | 217 |
| 66 | Nitrous Oxide Emission and Global Changes: Modeling Approaches. , 2007, , 381-395. | | 10 |
| 67 | Simplified preparation for the ¹⁵ N-analysis in soil NO ₃ ⁻ by the denitrifier method. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1907-1915. | 8.8 | 13 |
| 68 | The N ₂ O product ratio of nitrification and its dependence on long-term changes in soil pH. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2048-2057. | 8.8 | 191 |
| 69 | Modelling soil anaerobiosis from water retention characteristics and soil respiration. <i>Soil Biology and Biochemistry</i> , 2006, 38, 2637-2644. | 8.8 | 32 |
| 70 | N ₂ O emissions and product ratios of nitrification and denitrification as affected by freezing and thawing. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3411-3420. | 8.8 | 155 |
| 71 | Overwinter greenhouse gas fluxes in two contrasting agricultural habitats. <i>Nutrient Cycling in Agroecosystems</i> , 2004, 70, 117-133. | 2.2 | 81 |
| 72 | Low temperature control of soil denitrifying communities: kinetics of N ₂ O production and reduction. <i>Soil Biology and Biochemistry</i> , 2002, 34, 1797-1806. | 8.8 | 209 |

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|----|--|-----|-----------|
| 73 | Integrated evaluation of greenhouse gas emissions (CO ₂ , CH ₄ , N ₂ O) from two farming systems in southern Germany. <i>Agriculture, Ecosystems and Environment</i> , 2002, 91, 175-189. | 5.3 | 255 |
| 74 | Comparison of denitrifying communities in organic soils: kinetics of NO ³ and N ₂ O reduction. <i>Soil Biology and Biochemistry</i> , 2000, 32, 833-843. | 8.8 | 136 |
| 75 | Title is missing!. <i>Nutrient Cycling in Agroecosystems</i> , 1998, 52, 77-105. | 2.2 | 214 |
| 76 | The influence of nitrate and ammonium fertilization on N ₂ O release and CH ₄ uptake of a well-drained topsoil demonstrated by a soil microcosm experiment. <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1996, 159, 499-503. | 0.4 | 25 |
| 77 | Influence of Cattle Wastes on Nitrous Oxide and Methane Fluxes in Pasture Land. <i>Journal of Environmental Quality</i> , 1996, 25, 1366-1370. | 2.0 | 110 |
| 78 | Seasonal variation of N ₂ O and CH ₄ fluxes in differently managed arable soils in southern Germany. <i>Journal of Geophysical Research</i> , 1995, 100, 23115. | 3.3 | 260 |