# Mari Pihlatie

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/495399/publications.pdf

Version: 2024-02-01

| 57 | 3,678 | 126907 | 155660 |
|---|---|---|---|
| papers | citations | 33 h-index | 55 g-index |

| 86 | 86 | 86 | 5255 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Comparison of different chamber techniques for measuring soil CO2 efflux. Agricultural and Forest Meteorology, 2004, 123, 159-176. | 4.8 | 420 |
| 2 | Title is missing!. Plant and Soil, 2003, 254, 361-370. | 3.7 | 292 |
| 3 | Annual cycle of methane emission from a boreal fen measured by the eddy covariance technique. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 449-457. | 1.6 | 224 |
| 4 | Comparison of static chambers to measure CH4 emissions from soils. Agricultural and Forest Meteorology, 2013, 171-172, 124-136. | 4.8 | 152 |
| 5 | Contribution of nitrification and denitrification to N2O production in peat, clay and loamy sand soils under different soil moisture conditions. Nutrient Cycling in Agroecosystems, 2004, 70, 135-141. | 2.2 | 120 |
| 6 | Boreal pine forest floor biogenic volatile organic compound emissions peak in early summer and autumn. Agricultural and Forest Meteorology, 2011, 151, 682-691. | 4.8 | 118 |
| 7 | Plant roots increase both decomposition and stable organic matter formation in boreal forest soil. Nature Communications, 2019, 10, 3982. | 12.8 | 115 |
| 8 | Spatial variation in plant community functions regulates carbon gas dynamics in a boreal fen ecosystem. Tellus, Series B: Chemical and Physical Meteorology, 2022, 59, 838. | 1.6 | 109 |
| 9 | Biosphereâ€“atmosphere exchange of reactive nitrogen and greenhouse gases at the NitroEurope core flux measurement sites: Measurement strategy and first data sets. Agriculture, Ecosystems and Environment, 2009, 133, 139-149. | 5.3 | 104 |
| 10 | Methane emissions from tree stems: a new frontier in the global carbon cycle. New Phytologist, 2019, 222, 18-28. | 7.3 | 104 |
| 11 | Pinus sylvestris as a missing source of nitrous oxide and methane in boreal forest. Scientific Reports, 2016, 6, 23410. | 3.3 | 99 |
| 12 | Comparison between static chamber and tunable diode laser-based eddy covariance techniques for measuring nitrous oxide fluxes from a cotton field. Agricultural and Forest Meteorology, 2013, 171-172, 9-19. | 4.8 | 97 |
| 13 | Gas concentration driven fluxes of nitrous oxide and carbon dioxide in boreal forest soil. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 458-469. | 1.6 | 92 |
| 14 | Nitrous Oxide Emissions from a Municipal Landfill. Environmental Science & Technology, 2005, 39, 7790-7793. | 10.0 | 89 |
| 15 | Assessing the effects of chamber placement, manual sampling and headspace mixing on CH4 fluxes in a laboratory experiment. Plant and Soil, 2011, 343, 171-185. | 3.7 | 85 |
| 16 | Micrometeorological Measurements of Methane and Carbon Dioxide Fluxes at a Municipal Landfill. Environmental Science & Technology, 2007, 41, 2717-2722. | 10.0 | 82 |
| 17 | Temporal Variation of Ecosystem Scale Methane Emission From a Boreal Fen in Relation to Temperature, Water Table Position, and Carbon Dioxide Fluxes. Global Biogeochemical Cycles, 2018, 32, 1087-1106. | 4.9 | 78 |
| 18 | Standardisation of chamber technique for CO2, N2O and CH4 fluxes measurements from terrestrial ecosystems. International Agrophysics, 2018, 32, 569-587. | 1.7 | 76 |

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|---|---|---|---|
| 19 | Emissions of nitrous oxide from boreal agricultural clay and loamy sand soils. Nutrient Cycling in Agroecosystems, 2004, 69, 155-165. | 2.2 | 73 |
| 20 | Changes in biogeochemistry and carbon fluxes in a boreal forest after the clear-cutting and partial burning of slash. Agricultural and Forest Meteorology, 2014, 188, 33-44. | 4.8 | 67 |
| 21 | Responses of N<sub>2</sub>O fluxes to temperature, water table and N deposition in a northern boreal fen. European Journal of Soil Science, 2010, 61, 651-661. | 3.9 | 65 |
| 22 | Plantâ€mediated nitrous oxide emissions from beech ( Fagus sylvatica ) leaves. New Phytologist, 2005, 168, 93-98. | 7.3 | 61 |
| 23 | Pan-European delta13C values of air and organic matter from forest ecosystems. Global Change Biology, 2005, 11, 1065-1093. | 9.5 | 60 |
| 24 | Continuous VOC flux measurements on boreal forest floor. Plant and Soil, 2013, 369, 241-256. | 3.7 | 59 |
| 25 | Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the landâ€“atmosphereâ€“oceanâ€“society continuum in the northern Eurasian region. Atmospheric Chemistry and Physics, 2016, 16, 14421-14461. | 4.9 | 57 |
| 26 | Stimulation of soil organic nitrogen pool: The effect of plant and soil organic matter degrading enzymes. Soil Biology and Biochemistry, 2016, 96, 97-106. | 8.8 | 56 |
| 27 | Nitrogen balance of a boreal Scots pine forest. Biogeosciences, 2013, 10, 1083-1095. | 3.3 | 55 |
| 28 | Towards long-term standardised carbon and greenhouse gas observations for monitoring Europeâ€™s terrestrial ecosystems: a review. International Agrophysics, 2018, 32, 439-455. | 1.7 | 55 |
| 29 | Comparison between eddy covariance and automatic chamber techniques for measuring net ecosystem exchange of carbon dioxide in cotton and wheat fields. Biogeosciences, 2013, 10, 6865-6877. | 3.3 | 53 |
| 30 | Gas-phase alkylamines in a boreal Scots pine forest air. Atmospheric Environment, 2013, 80, 369-377. | 4.1 | 51 |
| 31 | Neglecting diurnal variations leads to uncertainties in terrestrial nitrous oxide emissions. Scientific Reports, 2016, 6, 25739. | 3.3 | 51 |
| 32 | Climatic controls on leaf litter decomposition across European forests and grasslands revealed by reciprocal litter transplantation experiments. Biogeosciences, 2016, 13, 1621-1633. | 3.3 | 44 |
| 33 | Methane fluxes on boreal arable soils. Agriculture, Ecosystems and Environment, 2007, 119, 346-352. | 5.3 | 42 |
| 34 | Greenhouse gas fluxes in a drained peatland forest during spring frost-thaw event. Biogeosciences, 2010, 7, 1715-1727. | 3.3 | 39 |
| 35 | Measuring methane emissions from a landfill using a cost-effective micrometeorological method. Geophysical Research Letters, 2005, 32, n/a-n/a. | 4.0 | 36 |
| 36 | Seasonal dynamics of stem N2O exchange follow the physiological activity of boreal trees. Nature Communications, 2019, 10, 4989. | 12.8 | 36 |

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|---|---|---|---|
| 37 | Inter- and intra-annual variations in canopy fine litterfall and carbon and nitrogen inputs to the forest floor in two European coniferous forests. Annals of Forest Science, 2013, 70, 367-379. | 2.0 | 29 |
| 38 | Global Research Alliance N<sub>2</sub>O chamber methodology guidelines: Design considerations. Journal of Environmental Quality, 2020, 49, 1081-1091. | 2.0 | 27 |
| 39 | New insight to the role of microbes in the methane exchange in trees: evidence from metagenomic sequencing. New Phytologist, 2021, 231, 524-536. | 7.3 | 23 |
| 40 | Carbonâ€“nitrogen interactions in European forests and semi-natural vegetation â€“ Part 1: Fluxes and budgets of carbon, nitrogen and greenhouse gases from ecosystem monitoring and modelling. Biogeosciences, 2020, 17, 1583-1620. | 3.3 | 21 |
| 41 | Interactions between leaf nitrogen status and longevity in relation to N cycling in three contrasting European forest canopies. Biogeosciences, 2013, 10, 999-1011. | 3.3 | 19 |
| 42 | Prescribed burning of logging slash in the boreal forest of Finland: emissions and effects on meteorological quantities and soil properties. Atmospheric Chemistry and Physics, 2014, 14, 4473-4502. | 4.9 | 17 |
| 43 | Global soil consumption of atmospheric carbon monoxide: an analysis using a process-based biogeochemistry model. Atmospheric Chemistry and Physics, 2018, 18, 7913-7931. | 4.9 | 16 |
| 44 | Technical note: Interferences of volatile organic compounds (VOCs) on methane concentration measurements. Biogeosciences, 2019, 16, 3319-3332. | 3.3 | 15 |
| 45 | Above- and belowground fluxes of methane from boreal dwarf shrubs and Pinus sylvestris seedlings. Plant and Soil, 2017, 420, 361-373. | 3.7 | 11 |
| 46 | Partitioning of forest floor CO2 emissions reveals the belowground interactions between different plant groups in a Scots pine stand in southern Finland. Agricultural and Forest Meteorology, 2021, 297, 108266. | 4.8 | 11 |
| 47 | Seasonal and diurnal variation in CO fluxes from an agricultural bioenergy crop. Biogeosciences, 2016, 13, 5471-5485. | 3.3 | 10 |
| 48 | Long-term dynamics of soil, tree stem and ecosystem methane fluxes in a riparian forest. Science of the Total Environment, 2022, 809, 151723. | 8.0 | 10 |
| 49 | Topography-based statistical modelling reveals high spatial variability and seasonal emission patches in forest floor methane flux. Biogeosciences, 2021, 18, 2003-2025. | 3.3 | 9 |
| 50 | Solar radiation drives methane emissions from the shoots of Scots pine. New Phytologist, 2022, 235, 66-77. | 7.3 | 8 |
| 51 | Soil concentrations and soilâ€“atmosphere exchange of alkylamines in a boreal Scots pine forest. Biogeosciences, 2017, 14, 1075-1091. | 3.3 | 7 |
| 52 | Soil-tree-atmosphere CH4 flux dynamics of boreal birch and spruce trees during spring leaf-out. Plant and Soil, 2022, 478, 391-407. | 3.7 | 6 |
| 53 | Forest canopy mitigates soil N2O emission during hot moments. Npj Climate and Atmospheric Science, 2021, 4, . | 6.8 | 5 |
| 54 | An automated system for trace gas flux measurements from plant foliage and other plant compartments. Atmospheric Measurement Techniques, 2021, 14, 4445-4460. | 3.1 | 4 |

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|---|---|---|---|
| 55 | Processes in Living Structures. , 2013, , 43-223. | | 2 |
| 56 | Towards reliable measurements of trace gas fluxes at plant surfaces. New Phytologist, 2021, 230, 2097-2099. | 7.3 | 2 |
| 57 | Fluxes of Carbon, Water and Nutrients. , 2013, , 225-328. | | 0 |