

Mari Pihlatie

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

3,678
citations

126907

33
h-index

155660

55
g-index

86
all docs

86
docs citations

86
times ranked

5255
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial variation in plant community functions regulates carbon gas dynamics in a boreal fen ecosystem. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 59, 838.	1.6	109
2	Long-term dynamics of soil, tree stem and ecosystem methane fluxes in a riparian forest. <i>Science of the Total Environment</i> , 2022, 809, 151723.	8.0	10
3	Solar radiation drives methane emissions from the shoots of Scots pine. <i>New Phytologist</i> , 2022, 235, 66-77.	7.3	8
4	Soil-tree-atmosphere CH ₄ flux dynamics of boreal birch and spruce trees during spring leaf-out. <i>Plant and Soil</i> , 2022, 478, 391-407.	3.7	6
5	Partitioning of forest floor CO ₂ emissions reveals the belowground interactions between different plant groups in a Scots pine stand in southern Finland. <i>Agricultural and Forest Meteorology</i> , 2021, 297, 108266.	4.8	11
6	Topography-based statistical modelling reveals high spatial variability and seasonal emission patches in forest floor methane flux. <i>Biogeosciences</i> , 2021, 18, 2003-2025.	3.3	9
7	New insight to the role of microbes in the methane exchange in trees: evidence from metagenomic sequencing. <i>New Phytologist</i> , 2021, 231, 524-536.	7.3	23
8	Towards reliable measurements of trace gas fluxes at plant surfaces. <i>New Phytologist</i> , 2021, 230, 2097-2099.	7.3	2
9	An automated system for trace gas flux measurements from plant foliage and other plant compartments. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4445-4460.	3.1	4
10	Forest canopy mitigates soil N ₂ O emission during hot moments. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	6.8	5
11	Global Research Alliance N ₂ O chamber methodology guidelines: Design considerations. <i>Journal of Environmental Quality</i> , 2020, 49, 1081-1091.	2.0	27
12	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.	3.3	21
13	Seasonal dynamics of stem N ₂ O exchange follow the physiological activity of boreal trees. <i>Nature Communications</i> , 2019, 10, 4989.	12.8	36
14	Plant roots increase both decomposition and stable organic matter formation in boreal forest soil. <i>Nature Communications</i> , 2019, 10, 3982.	12.8	115
15	Technical note: Interferences of volatile organic compounds (VOCs) on methane concentration measurements. <i>Biogeosciences</i> , 2019, 16, 3319-3332.	3.3	15
16	Methane emissions from tree stems: a new frontier in the global carbon cycle. <i>New Phytologist</i> , 2019, 222, 18-28.	7.3	104
17	Standardisation of chamber technique for CO ₂ , N ₂ O and CH ₄ fluxes measurements from terrestrial ecosystems. <i>International Agrophysics</i> , 2018, 32, 569-587.	1.7	76
18	Temporal Variation of Ecosystem Scale Methane Emission From a Boreal Fen in Relation to Temperature, Water Table Position, and Carbon Dioxide Fluxes. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1087-1106.	4.9	78

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19	Global soil consumption of atmospheric carbon monoxide: an analysis using a process-based biogeochemistry model. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7913-7931.	4.9	16
20	Towards long-term standardised carbon and greenhouse gas observations for monitoring Europe's terrestrial ecosystems: a review. <i>International Agrophysics</i> , 2018, 32, 439-455.	1.7	55
21	Above- and belowground fluxes of methane from boreal dwarf shrubs and <i>Pinus sylvestris</i> seedlings. <i>Plant and Soil</i> , 2017, 420, 361-373.	3.7	11
22	Soil concentrations and soil-atmosphere exchange of alkylamines in a boreal Scots pine forest. <i>Biogeosciences</i> , 2017, 14, 1075-1091.	3.3	7
23	Climatic controls on leaf litter decomposition across European forests and grasslands revealed by reciprocal litter transplantation experiments. <i>Biogeosciences</i> , 2016, 13, 1621-1633.	3.3	44
24	Seasonal and diurnal variation in CO fluxes from an agricultural bioenergy crop. <i>Biogeosciences</i> , 2016, 13, 5471-5485.	3.3	10
25	<i>Pinus sylvestris</i> as a missing source of nitrous oxide and methane in boreal forest. <i>Scientific Reports</i> , 2016, 6, 23410.	3.3	99
26	Neglecting diurnal variations leads to uncertainties in terrestrial nitrous oxide emissions. <i>Scientific Reports</i> , 2016, 6, 25739.	3.3	51
27	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the northern Eurasian region. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14421-14461.	4.9	57
28	Stimulation of soil organic nitrogen pool: The effect of plant and soil organic matter degrading enzymes. <i>Soil Biology and Biochemistry</i> , 2016, 96, 97-106.	8.8	56
29	Changes in biogeochemistry and carbon fluxes in a boreal forest after the clear-cutting and partial burning of slash. <i>Agricultural and Forest Meteorology</i> , 2014, 188, 33-44.	4.8	67
30	Prescribed burning of logging slash in the boreal forest of Finland: emissions and effects on meteorological quantities and soil properties. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4473-4502.	4.9	17
31	Continuous VOC flux measurements on boreal forest floor. <i>Plant and Soil</i> , 2013, 369, 241-256.	3.7	59
32	Comparison between static chamber and tunable diode laser-based eddy covariance techniques for measuring nitrous oxide fluxes from a cotton field. <i>Agricultural and Forest Meteorology</i> , 2013, 171-172, 9-19.	4.8	97
33	Comparison of static chambers to measure CH ₄ emissions from soils. <i>Agricultural and Forest Meteorology</i> , 2013, 171-172, 124-136.	4.8	152
34	Fluxes of Carbon, Water and Nutrients. , 2013, , 225-328.		0
35	Processes in Living Structures. , 2013, , 43-223.		2
36	Inter- and intra-annual variations in canopy fine litterfall and carbon and nitrogen inputs to the forest floor in two European coniferous forests. <i>Annals of Forest Science</i> , 2013, 70, 367-379.	2.0	29

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37	Gas-phase alkylamines in a boreal Scots pine forest air. <i>Atmospheric Environment</i> , 2013, 80, 369-377.	4.1	51
38	Comparison between eddy covariance and automatic chamber techniques for measuring net ecosystem exchange of carbon dioxide in cotton and wheat fields. <i>Biogeosciences</i> , 2013, 10, 6865-6877.	3.3	53
39	Nitrogen balance of a boreal Scots pine forest. <i>Biogeosciences</i> , 2013, 10, 1083-1095.	3.3	55
40	Interactions between leaf nitrogen status and longevity in relation to N cycling in three contrasting European forest canopies. <i>Biogeosciences</i> , 2013, 10, 999-1011.	3.3	19
41	Boreal pine forest floor biogenic volatile organic compound emissions peak in early summer and autumn. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 682-691.	4.8	118
42	Assessing the effects of chamber placement, manual sampling and headspace mixing on CH ₄ fluxes in a laboratory experiment. <i>Plant and Soil</i> , 2011, 343, 171-185.	3.7	85
43	Responses of N ₂ O fluxes to temperature, water table and N deposition in a northern boreal fen. <i>European Journal of Soil Science</i> , 2010, 61, 651-661.	3.9	65
44	Greenhouse gas fluxes in a drained peatland forest during spring frost-thaw event. <i>Biogeosciences</i> , 2010, 7, 1715-1727.	3.3	39
45	Biosphere-atmosphere exchange of reactive nitrogen and greenhouse gases at the NitroEurope core flux measurement sites: Measurement strategy and first data sets. <i>Agriculture, Ecosystems and Environment</i> , 2009, 133, 139-149.	5.3	104
46	Micrometeorological Measurements of Methane and Carbon Dioxide Fluxes at a Municipal Landfill. <i>Environmental Science & Technology</i> , 2007, 41, 2717-2722.	10.0	82
47	Annual cycle of methane emission from a boreal fen measured by the eddy covariance technique. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 449-457.	1.6	224
48	Gas concentration driven fluxes of nitrous oxide and carbon dioxide in boreal forest soil. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 458-469.	1.6	92
49	Methane fluxes on boreal arable soils. <i>Agriculture, Ecosystems and Environment</i> , 2007, 119, 346-352.	5.3	42
50	Plant-mediated nitrous oxide emissions from beech (<i>Fagus sylvatica</i>) leaves. <i>New Phytologist</i> , 2005, 168, 93-98.	7.3	61
51	Pan-European delta ¹³ C values of air and organic matter from forest ecosystems. <i>Global Change Biology</i> , 2005, 11, 1065-1093.	9.5	60
52	Nitrous Oxide Emissions from a Municipal Landfill. <i>Environmental Science & Technology</i> , 2005, 39, 7790-7793.	10.0	89
53	Measuring methane emissions from a landfill using a cost-effective micrometeorological method. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	36
54	Emissions of nitrous oxide from boreal agricultural clay and loamy sand soils. <i>Nutrient Cycling in Agroecosystems</i> , 2004, 69, 155-165.	2.2	73

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55	Contribution of nitrification and denitrification to N ₂ O production in peat, clay and loamy sand soils under different soil moisture conditions. <i>Nutrient Cycling in Agroecosystems</i> , 2004, 70, 135-141.	2.2	120
56	Comparison of different chamber techniques for measuring soil CO ₂ efflux. <i>Agricultural and Forest Meteorology</i> , 2004, 123, 159-176.	4.8	420
57	Title is missing!. <i>Plant and Soil</i> , 2003, 254, 361-370.	3.7	292