# Timo Vesala

List of Publications by Year
in descending order



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|---|---|---|---|
| 381 papers | 41,744 citations | 7096 78 h-index | 3105 187 g-index |
| 430 all docs | 430 docs citations | 430 times ranked | 23788 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The effect of hygroscopicity on cloud droplet formation. Tellus, Series B: Chemical and Physical Meteorology, 2022, 48, 347. | 1.6 | 20 |
| 2 | 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 |
| 3 | Determining the contribution of vertical advection to the net ecosystem exchange at HyytiÃlÃ forest, Finland. Tellus, Series B: Chemical and Physical Meteorology, 2022, 59, 900. | 1.6 | 44 |
| 4 | CO<sub>2</sub> exchange of a sedge fen in southern Finlandâ€"the impact of a drought period. Tellus, Series B: Chemical and Physical Meteorology, 2022, 59, 826. | 1.6 | 117 |
| 5 | Environmental controls on the CO<sub>2</sub> exchange in north European mires. Tellus, Series B: Chemical and Physical Meteorology, 2022, 59, 812. | 1.6 | 75 |
| 6 | A review of measurement and modelling results of particle atmosphereâ€"surface exchange. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 42. | 1.6 | 138 |
| 7 | Surfaceâ€"atmosphere interactions over complex urban terrain in Helsinki, Finland. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 188. | 1.6 | 125 |
| 8 | Forest floor versus ecosystem CO<sub>2</sub> exchange along boreal ecotone between upland forest and lowland mire. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 153. | 1.6 | 14 |
| 9 | Stomatal-scale modelling of the competition between ozone sinks at the airâ€"leaf interface. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 381. | 1.6 | 6 |
| 10 | Spring initiation and autumn cessation of boreal coniferous forest CO<sub>2</sub> exchange assessed by meteorological and biological variables. Tellus, Series B: Chemical and Physical Meteorology, 2022, 61, 701. | 1.6 | 31 |
| 11 | Revised eddy covariance flux calculation methodologies â€" effect on urban energy balance. Tellus, Series B: Chemical and Physical Meteorology, 2022, 64, 18184. | 1.6 | 63 |
| 12 | Effects of cooling and internal wave motions on gas transfer coefficients in a boreal lake. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 22827. | 1.6 | 74 |
| 13 | Methane budget estimates in Finland from the CarbonTracker Europe-CH<sub>4</sub> data assimilation system. Tellus, Series B: Chemical and Physical Meteorology, 2022, 71, 1565030. | 1.6 | 11 |
| 14 | Selected breakpoints of net forest carbon uptake at four eddy-covariance sites. Tellus, Series B: Chemical and Physical Meteorology, 2022, 73, 1915648. | 1.6 | 9 |
| 15 | The Integrated Carbon Observation System in Europe. Bulletin of the American Meteorological Society, 2022, 103, E855-E872. | 3.3 | 44 |
| 16 | Plant mediated methane efflux from a boreal peatland complex. Plant and Soil, 2022, 471, 375-392. | 3.7 | 11 |
| 17 | Does growing atmospheric CO<sub>2</sub> explain increasing carbon sink in a boreal coniferous forest?. Global Change Biology, 2022, 28, 2910-2929. | 9.5 | 23 |
| 18 | Long-term fluxes of carbonyl sulfide and their seasonality and interannual variability in a boreal forest. Atmospheric Chemistry and Physics, 2022, 22, 2569-2584. | 4.9 | 7 |

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|---|---|---|---|
| 19 | Terpene emissions from boreal wetlands can initiate stronger atmospheric new particle formation than boreal forests. Communications Earth & Environment, 2022, 3, . | 6.8 | 8 |
| 20 | Suitability of fibre-optic distributed temperature sensing for revealing mixing processes and higher-order moments at the forestâ€“air interface. Atmospheric Measurement Techniques, 2021, 14, 2409-2427. | 3.1 | 13 |
| 21 | An Attempt to Utilize a Regional Dew Formation Model in Kenya. Water (Switzerland), 2021, 13, 1261. | 2.7 | 2 |
| 22 | Identifying dominant environmental predictors of freshwater wetland methane fluxes across diurnal to seasonal time scales. Global Change Biology, 2021, 27, 3582-3604. | 9.5 | 59 |
| 23 | Estimation of Biomass Increase and CUE at a Young Temperate Scots Pine Stand Concerning Drought Occurrence by Combining Eddy Covariance and Biometric Methods. Forests, 2021, 12, 867. | 2.1 | 3 |
| 24 | Methane production and oxidation potentials along a fenâ€bog gradient from southern boreal to subarctic peatlands in Finland. Global Change Biology, 2021, 27, 4449-4464. | 9.5 | 17 |
| 25 | Temperature Control of Spring CO2 Fluxes at a Coniferous Forest and a Peat Bog in Central Siberia. Atmosphere, 2021, 12, 984. | 2.3 | 6 |
| 26 | FLUXNET-CH<sub>4</sub>: a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. Earth System Science Data, 2021, 13, 3607-3689. | 9.9 | 79 |
| 27 | Carbon balance of a Finnish bog: temporal variability and limiting factors based on 6Âyears of eddy-covariance data. Biogeosciences, 2021, 18, 4681-4704. | 3.3 | 5 |
| 28 | The Multiscale Monitoring of Peatland Ecosystem Carbon Cycling in the Middle Taiga Zone of Western Siberia: The Mukhrino Bog Case Study. Land, 2021, 10, 824. | 2.9 | 9 |
| 29 | Variable Physical Drivers of Nearâ€Surface Turbulence in a Regulated River. Water Resources Research, 2021, 57, e2020WR027939. | 4.2 | 11 |
| 30 | Evaluation of carbonyl sulfide biosphere exchange in the Simple Biosphere Model (SiB4). Biogeosciences, 2021, 18, 6547-6565. | 3.3 | 21 |
| 31 | Bark Transpiration Rates Can Reach Needle Transpiration Rates Under Dry Conditions in a Semi-arid Forest. Frontiers in Plant Science, 2021, 12, 790684. | 3.6 | 9 |
| 32 | Dynamic Surface Tension Enhances the Stability of Nanobubbles in Xylem Sap. Frontiers in Plant Science, 2021, 12, 732701. | 3.6 | 9 |
| 33 | Varying Vegetation Composition, Respiration and Photosynthesis Decrease Temporal Variability of the CO2 Sink in a Boreal Bog. Ecosystems, 2020, 23, 842-858. | 3.4 | 11 |
| 34 | CH4 oxidation in a boreal lake during the development of hypolimnetic hypoxia. Aquatic Sciences, 2020, 82, 19. | 1.5 | 18 |
| 35 | The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225. | 5.3 | 646 |
| 36 | Effects of drought and meteorological forcing on carbon and water fluxes in Nordic forests during the dry summer of 2018. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190516. | 4.0 | 35 |

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|---|---|---|---|
| 37 | Modeling Long-Term Temporal Variation of Dew Formation in Jordan and Its Link to Climate Change. Water (Switzerland), 2020, 12, 2186. | 2.7 | 7 |
| 38 | Influence of Dynamic Ozone Dry Deposition on Ozone Pollution. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032398. | 3.3 | 34 |
| 39 | Soil greenhouse gas emissions under different land-use types in savanna ecosystems of Kenya. Biogeosciences, 2020, 17, 2149-2167. | 3.3 | 30 |
| 40 | Impact of coordinate rotation on eddy covariance fluxes at complex sites. Agricultural and Forest Meteorology, 2020, 287, 107940. | 4.8 | 8 |
| 41 | Leaf carbon and water status control stomatal and nonstomatal limitations of photosynthesis in trees. New Phytologist, 2020, 226, 690-703. | 7.3 | 66 |
| 42 | 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 |
| 43 | Carbonâ€“nitrogen interactions in European forests and semi-natural vegetation â€“ Part 2: Untangling climatic, edaphic, management and nitrogen deposition effects on carbon sequestration potentials. Biogeosciences, 2020, 17, 1621-1654. | 3.3 | 18 |
| 44 | The biophysical climate mitigation potential of boreal peatlands during the growing season. Environmental Research Letters, 2020, 15, 104004. | 5.2 | 31 |
| 45 | Carbon dioxide and methane fluxes from different surface types in a created urban wetland. Biogeosciences, 2020, 17, 3409-3425. | 3.3 | 5 |
| 46 | The PROFOUND Database for evaluating vegetation models and simulating climate impacts on European forests. Earth System Science Data, 2020, 12, 1295-1320. | 9.9 | 33 |
| 47 | Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. Global Ecology and Biogeography, 2019, 28, 1351-1365. | 5.8 | 22 |
| 48 | Influences of light and humidity on carbonyl sulfide-based estimates of photosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2470-2475. | 7.1 | 30 |
| 49 | Multi-year methane ebullition measurements from water and bare peat surfaces of a patterned boreal bog. Biogeosciences, 2019, 16, 2409-2421. | 3.3 | 17 |
| 50 | Inter- and intra-annual dynamics of photosynthesis differ between forest floor vegetation and tree canopy in a subarctic Scots pine stand. Agricultural and Forest Meteorology, 2019, 271, 1-11. | 4.8 | 26 |
| 51 | Diurnal and Seasonal Solar Induced Chlorophyll Fluorescence and Photosynthesis in a Boreal Scots Pine Canopy. Remote Sensing, 2019, 11, 273. | 4.0 | 29 |
| 52 | Applicability and consequences of the integration of alternative models for CO<sub>2</sub> transfer velocity into a process-based lake model. Biogeosciences, 2019, 16, 3297-3317. | 3.3 | 5 |
| 53 | Spatial and Temporal Investigation of Dew Potential based on Long-Term Model Simulations in Iran. Water (Switzerland), 2019, 11, 2463. | 2.7 | 5 |
| 54 | Monthly gridded data product of northern wetland methane emissions based on upscaling eddy covariance observations. Earth System Science Data, 2019, 11, 1263-1289. | 9.9 | 69 |

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|---|---|---|---|
| 55 | Networked web-cameras monitor congruent seasonal development of birches with phenological field observations. Agricultural and Forest Meteorology, 2018, 249, 335-347. | 4.8 | 21 |
| 56 | Boreal bog plant communities along a water table gradient differ in their standing biomass but not their biomass production. Journal of Vegetation Science, 2018, 29, 136-146. | 2.2 | 17 |
| 57 | Strong radiative effect induced by clouds and smoke on forest net ecosystem productivity in central Siberia. Agricultural and Forest Meteorology, 2018, 250-251, 376-387. | 4.8 | 39 |
| 58 | Soil fluxes of carbonyl sulfide (COS), carbon monoxide, and carbon dioxide in aÂboreal forest in southern Finland. Atmospheric Chemistry and Physics, 2018, 18, 1363-1378. | 4.9 | 27 |
| 59 | New insights into the covariation of stomatal, mesophyll and hydraulic conductances from optimization models incorporating nonstomatal limitations to photosynthesis. New Phytologist, 2018, 217, 571-585. | 7.3 | 135 |
| 60 | Seasonal and Diurnal Variations in Atmospheric and Soil Air<sup>14</sup>CO<sub>2</sub>in a Boreal Scots Pine Forest. Radiocarbon, 2018, 60, 283-297. | 1.8 | 5 |
| 61 | Ventilation and Air Quality in City Blocks Using Large-Eddy Simulationâ€"Urban Planning Perspective. Atmosphere, 2018, 9, 65. | 2.3 | 73 |
| 62 | Direct effect of aerosols on solar radiation and gross primary production in boreal and hemiboreal forests. Atmospheric Chemistry and Physics, 2018, 18, 17863-17881. | 4.9 | 50 |
| 63 | Vertical characterization of highly oxygenated molecules (HOMs) below and above a boreal forest canopy. Atmospheric Chemistry and Physics, 2018, 18, 17437-17450. | 4.9 | 34 |
| 64 | Uncertainty of eddy covariance flux measurements over an urban area based on two towers. Atmospheric Measurement Techniques, 2018, 11, 5421-5438. | 3.1 | 25 |
| 65 | Methane and carbon dioxide fluxes over a lake: comparison between eddy covariance, floating chambers and boundary layer method. Biogeosciences, 2018, 15, 429-445. | 3.3 | 81 |
| 66 | Calibrating the sqHIMMELI v1.0 wetland methane emission model with hierarchical modeling and adaptive MCMC. Geoscientific Model Development, 2018, 11, 1199-1228. | 3.6 | 12 |
| 67 | Reviews and syntheses: Carbonyl sulfide as aÂmulti-scale tracer for carbon and water cycles. Biogeosciences, 2018, 15, 3625-3657. | 3.3 | 98 |
| 68 | Technical note: Comparison of methane ebullition modelling approaches used in terrestrial wetland models. Biogeosciences, 2018, 15, 937-951. | 3.3 | 16 |
| 69 | Small spatial variability in methane emission measured from a wet patterned boreal bog. Biogeosciences, 2018, 15, 1749-1761. | 3.3 | 21 |
| 70 | High-frequency productivity estimates for a lake from free-water CO<sub>2</sub> concentration measurements. Biogeosciences, 2018, 15, 2021-2032. | 3.3 | 5 |
| 71 | 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 |
| 72 | Ejective and Sweeping Motions Above a Peatland and Their Role in Relaxed-Eddy-Accumulation Measurements and Turbulent Transport Modelling. Boundary-Layer Meteorology, 2018, 169, 163-184. | 2.3 | 9 |

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|---|---|---|---|
| 73 | Effects of Climate Change on CO<sub>2</sub> Concentration and Efflux in a Humic Boreal Lake: A Modeling Study. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2212-2233. | 3.0 | 14 |
| 74 | Lakeâ€Atmosphere Heat Flux Dynamics of a Thermokarst Lake in Arctic Siberia. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5222-5239. | 3.3 | 10 |
| 75 | A Structure Function Model Recovers the Many Formulations for Airâ€Water Gas Transfer Velocity. Water Resources Research, 2018, 54, 5905-5920. | 4.2 | 16 |
| 76 | ICOS eddy covariance flux-station site setup: a review. International Agrophysics, 2018, 32, 471-494. | 1.7 | 59 |
| 77 | Relationship between aerodynamic roughness length and bulk sedge leaf area index in a mixedâ€species boreal mire complex. Geophysical Research Letters, 2017, 44, 5836-5843. | 4.0 | 15 |
| 78 | Winter respiratory C losses provide explanatory power for net ecosystem productivity. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 243-260. | 3.0 | 7 |
| 79 | Early snowmelt significantly enhances boreal springtime carbon uptake. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11081-11086. | 7.1 | 84 |
| 80 | Experimental validation of footprint models for eddy covariance CO2 flux measurements above grassland by means of natural and artificial tracers. Agricultural and Forest Meteorology, 2017, 242, 75-84. | 4.8 | 39 |
| 81 | Canopy uptake dominates nighttime carbonyl sulfide fluxes in a boreal forest. Atmospheric Chemistry and Physics, 2017, 17, 11453-11465. | 4.9 | 34 |
| 82 | Species-specific temporal variation in photosynthesis as a moderator of peatland carbon sequestration. Biogeosciences, 2017, 14, 257-269. | 3.3 | 22 |
| 83 | HIMMELI v1.0: HelsinkI Model of MEthane buiLd-up and emIssion for peatlands. Geoscientific Model Development, 2017, 10, 4665-4691. | 3.6 | 24 |
| 84 | Effect of Leaf Water Potential on Internal Humidity and CO2 Dissolution: Reverse Transpiration and Improved Water Use Efficiency under Negative Pressure. Frontiers in Plant Science, 2017, 8, 54. | 3.6 | 57 |
| 85 | Effects of Competition, Drought Stress and Photosynthetic Productivity on the Radial Growth of White Spruce in Western Canada. Frontiers in Plant Science, 2017, 8, 1915. | 3.6 | 21 |
| 86 | Soil concentrations and soilâ€“atmosphere exchange of alkylamines in a boreal Scots pine forest. Biogeosciences, 2017, 14, 1075-1091. | 3.3 | 7 |
| 87 | Numerical framework for the computation of urban flux footprints employing large-eddy simulation and Lagrangian stochastic modeling. Geoscientific Model Development, 2017, 10, 4187-4205. | 3.6 | 21 |
| 88 | LAKE 2.0: a model for temperature, methane, carbon dioxide and oxygen dynamics in lakes. Geoscientific Model Development, 2016, 9, 1977-2006. | 3.6 | 80 |
| 89 | Large-eddy simulation and stochastic modeling of Lagrangian particles for footprint determination in the stable boundary layer. Geoscientific Model Development, 2016, 9, 2925-2949. | 3.6 | 29 |
| 90 | Importance of vegetation classes in modeling CH4 emissions from boreal and subarctic wetlands in Finland. Science of the Total Environment, 2016, 572, 1111-1122. | 8.0 | 23 |

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|---|---|---|---|
| 91 | Variation in photosynthetic properties among bog plants. Botany, 2016, 94, 1127-1139. | 1.0 | 22 |
| 92 | Do the energy fluxes and surface conductance of boreal coniferous forests in Europe scale with leaf area?. Global Change Biology, 2016, 22, 4096-4113. | 9.5 | 39 |
| 93 | Neglecting diurnal variations leads to uncertainties in terrestrial nitrous oxide emissions. Scientific Reports, 2016, 6, 25739. | 3.3 | 51 |
| 94 | Conceptual design of a measurement network of the global change. Atmospheric Chemistry and Physics, 2016, 16, 1017-1028. | 4.9 | 35 |
| 95 | 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 |
| 96 | Field-scale simulation of methane emissions from coastal wetlands in China using an improved version of CH4MOD wetland. Science of the Total Environment, 2016, 559, 256-267. | 8.0 | 17 |
| 97 | Reconstruction of Holocene carbon dynamics in a large boreal peatland complex, southern Finland. Quaternary Science Reviews, 2016, 142, 1-15. | 3.0 | 32 |
| 98 | SMEAR Estonia: Perspectives of a large-scale forest ecosystem â€“ atmosphere research infrastructure. Forestry Studies, 2015, 63, 56-84. | 0.2 | 22 |
| 99 | Carbon dioxide and energy fluxes over a small boreal lake in Southern Finland. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1296-1314. | 3.0 | 64 |
| 100 | Footprint Evaluation for Flux and Concentration Measurements for an Urban-Like Canopy with Coupled Lagrangian Stochastic and Large-Eddy Simulation Models. Boundary-Layer Meteorology, 2015, 157, 191-217. | 2.3 | 24 |
| 101 | A simple CO2 exchange model simulates the seasonal leaf area development of peatland sedges. Ecological Modelling, 2015, 314, 32-43. | 2.5 | 10 |
| 102 | Effects of water clarity on lake stratification and lakeâ€atmosphere heat exchange. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7412-7428. | 3.3 | 77 |
| 103 | ADVERSE SELECTION IN DYNAMIC MATCHING MARKETS. Bulletin of Economic Research, 2015, 67, 115-133. | 1.1 | 3 |
| 104 | CH<sub>4</sub> and N<sub>2</sub>O dynamics in the boreal forestâ€“mire ecotone. Biogeosciences, 2015, 12, 281-297. | 3.3 | 9 |
| 105 | Intercomparison of fast response commercial gas analysers for nitrous oxide flux measurements under field conditions. Biogeosciences, 2015, 12, 415-432. | 3.3 | 28 |
| 106 | Impacts of climate and reclamation on temporal variations in CH<sub>4</sub> emissions from different wetlands in China: from 1950 to 2010. Biogeosciences, 2015, 12, 6853-6868. | 3.3 | 14 |
| 107 | Joint control of terrestrial gross primary productivity by plant phenology and physiology. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2788-2793. | 7.1 | 265 |
| 108 | The uncertain climate footprint of wetlands under human pressure. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4594-4599. | 7.1 | 171 |

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|---|---|---|---|
| 109 | Sorption-Caused Attenuation and Delay of Water Vapor Signals in Eddy-Covariance Sampling Tubes and Filters. Journal of Atmospheric and Oceanic Technology, 2014, 31, 2629-2649. | 1.3 | 11 |
| 110 | Precipitation and net ecosystem exchange are the most important drivers of DOC flux in upland boreal catchments. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1861-1878. | 3.0 | 27 |
| 111 | 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 |
| 112 | Why Do We Need Countercyclical Capital Requirements?. Journal of Financial Services Research, 2014, 46, 55-76. | 1.5 | 6 |
| 113 | Differentiating moss from higher plants is critical in studying the carbon cycle of the boreal biome. Nature Communications, 2014, 5, 4270. | 12.8 | 42 |
| 114 | Latent heat exchange in the boreal and arctic biomes. Global Change Biology, 2014, 20, 3439-3456. | 9.5 | 52 |
| 115 | A temperature-controlled spectrometer system for continuous and unattended measurements of canopy spectral radiance and reflectance. International Journal of Remote Sensing, 2014, 35, 1769-1785. | 2.9 | 32 |
| 116 | Do small spores disperse further than large spores?. Ecology, 2014, 95, 1612-1621. | 3.2 | 87 |
| 117 | PAN EURASIAN EXPERIMENT (PEEX) - A RESEARCH INITIATIVE MEETING THE GRAND CHALLENGES OF THE CHANGING ENVIRONMENT OF THE NORTHERN PAN-EURASIAN ARCTIC-BOREAL AREAS. Geography, Environment, Sustainability, 2014, 7, 13-48. | 1.3 | 19 |
| 118 | Continuous VOC flux measurements on boreal forest floor. Plant and Soil, 2013, 369, 241-256. | 3.7 | 59 |
| 119 | Partitioning ozone fluxes between canopy and forest floor by measurements and a multi-layer model. Agricultural and Forest Meteorology, 2013, 173, 85-99. | 4.8 | 61 |
| 120 | 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 |
| 121 | Evolution of the nocturnal decoupled layer in a pine forest canopy. Agricultural and Forest Meteorology, 2013, 174-175, 15-27. | 4.8 | 33 |
| 122 | Station for Measuring Ecosystem-Atmosphere Relations: SMEAR. , 2013, , 471-487. | | 73 |
| 123 | How to Utilise the Knowledge of Causal Responses?. , 2013, , 397-469. | | 0 |
| 124 | Fluxes of Carbon, Water and Nutrients. , 2013, , 225-328. | | 0 |
| 125 | Sustainable urban metabolism as a link between bio-physical sciences and urban planning: The BRIDGE project. Landscape and Urban Planning, 2013, 112, 100-117. | 7.5 | 131 |
| 126 | Assimilate transport in phloem sets conditions for leaf gas exchange. Plant, Cell and Environment, 2013, 36, 655-669. | 5.7 | 161 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Interannual variability of net ecosystem productivity in forests is explained by carbon flux phenology in autumn. Global Ecology and Biogeography, 2013, 22, 994-1006. | 5.8 | 144 |
| 128 | Intra-City Variation in Urban Morphology and Turbulence Structure in Helsinki, Finland. Boundary-Layer Meteorology, 2013, 146, 469-496. | 2.3 | 76 |
| 129 | Species traits and inertial deposition of fungal spores. Journal of Aerosol Science, 2013, 61, 81-98. | 3.8 | 42 |
| 130 | An Overview of the Urban Boundary Layer Atmosphere Network in Helsinki. Bulletin of the American Meteorological Society, 2013, 94, 1675-1690. | 3.3 | 31 |
| 131 | Tube transport of water vapor with condensation and desorption. Applied Physics Letters, 2013, 102, 194101. | 3.3 | 10 |
| 132 | Corrigendum to "Four-year (2006â€“2009) eddy covariance measurements of CO<sub>2</sub> flux over an urban area in Beijing" published in Atmos. Chem. Phys., 12, 7881â€“7892, 2012. Atmospheric Chemistry and Physics, 2013, 13, 647-647. | 4.9 | 1 |
| 133 | Efficient gas exchange between a boreal river and the atmosphere. Geophysical Research Letters, 2013, 40, 5683-5686. | 4.0 | 19 |
| 134 | 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 |
| 135 | Testing the applicability of neural networks as a gap-filling method using CH<sub>4</sub> flux data from high latitude wetlands. Biogeosciences, 2013, 10, 8185-8200. | 3.3 | 78 |
| 136 | Nitrogen balance of a boreal Scots pine forest. Biogeosciences, 2013, 10, 1083-1095. | 3.3 | 55 |
| 137 | Field intercomparison of four methane gas analyzers suitable for eddy covariance flux measurements. Biogeosciences, 2013, 10, 3749-3765. | 3.3 | 42 |
| 138 | Does canopy mean nitrogen concentration explain variation in canopy light use efficiency across 14 contrasting forest sites?. Tree Physiology, 2012, 32, 200-218. | 3.1 | 23 |
| 139 | Fraction of natural area as main predictor of net CO<sub>2</sub> emissions from cities. Geophysical Research Letters, 2012, 39, . | 4.0 | 73 |
| 140 | Corrigendum to "Seasonal and annual variation of carbon dioxide surface fluxes in Helsinki, Finland, in 2006â€“2010" published in Atmos. Chem. Phys., 12, 8475â€“8489, 2012. Atmospheric Chemistry and Physics, 2012, 12, 11765-11765. | 4.9 | 0 |
| 141 | Effect of chemical degradation on fluxes of reactive compounds â€“ a study with a stochastic Lagrangian transport model. Atmospheric Chemistry and Physics, 2012, 12, 4843-4854. | 4.9 | 52 |
| 142 | Ozone deposition into a boreal forest over a decade of observations: evaluating deposition partitioning and driving variables. Atmospheric Chemistry and Physics, 2012, 12, 12165-12182. | 4.9 | 72 |
| 143 | Seasonal and annual variation of carbon dioxide surface fluxes in Helsinki, Finland, in 2006â€“2010. Atmospheric Chemistry and Physics, 2012, 12, 8475-8489. | 4.9 | 82 |
| 144 | Four-year (2006â€“2009) eddy covariance measurements of CO<sub>2</sub> flux over an urban area in Beijing. Atmospheric Chemistry and Physics, 2012, 12, 7881-7892. | 4.9 | 85 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Footprint Analysis. , 2012, , 211-261. | | 26 |
| 146 | Eddy Covariance Measurements over Lakes. , 2012, , 365-376. | | 25 |
| 147 | Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. New Phytologist, 2012, 194, 775-783. | 7.3 | 111 |
| 148 | On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums. Agricultural and Forest Meteorology, 2012, 152, 212-222. | 4.8 | 121 |
| 149 | Quantifying the influence of climate and biological drivers on the interannual variability of carbon exchanges in European forests through process-based modelling. Agricultural and Forest Meteorology, 2012, 154-155, 99-112. | 4.8 | 47 |
| 150 | Properties of aerosol signature size distributions in the urban environment as derived by cluster analysis. Atmospheric Environment, 2012, 61, 350-360. | 4.1 | 58 |
| 151 | Modeling GPP in the Nordic forest landscape with MODIS time series dataâ€"Comparison with the MODIS GPP product. Remote Sensing of Environment, 2012, 126, 136-147. | 11.0 | 40 |
| 152 | On the choice of the driving temperature for eddy-covariance carbon dioxide flux partitioning. Biogeosciences, 2012, 9, 5243-5259. | 3.3 | 45 |
| 153 | Snowpack concentrations and estimated fluxes of volatile organic compounds in a boreal forest. Biogeosciences, 2012, 9, 2033-2044. | 3.3 | 14 |
| 154 | Photosynthetic production of ground vegetation in different-aged Scots pine (Pinus sylvestris) forests. Canadian Journal of Forest Research, 2011, 41, 2020-2030. | 1.7 | 20 |
| 155 | Long-term energy flux measurements and energy balance over a small boreal lake using eddy covariance technique. Journal of Geophysical Research, 2011, 116, . | 3.3 | 168 |
| 156 | Long-term direct CO<sub>2</sub>flux measurements over a boreal lake: Five years of eddy covariance data. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 104 |
| 157 | The Helsinki Testbed: A Mesoscale Measurement, Research, and Service Platform. Bulletin of the American Meteorological Society, 2011, 92, 325-342. | 3.3 | 48 |
| 158 | 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 |
| 159 | Empirical and optimal stomatal controls on leaf and ecosystem level CO2 and H2O exchange rates. Agricultural and Forest Meteorology, 2011, 151, 1672-1689. | 4.8 | 67 |
| 160 | Controls on winter ecosystem respiration in temperate and boreal ecosystems. Biogeosciences, 2011, 8, 2009-2025. | 3.3 | 42 |
| 161 | The summertime Boreal forest field measurement intensive (HUMPPA-COPEC-2010): an overview of meteorological and chemical influences. Atmospheric Chemistry and Physics, 2011, 11, 10599-10618. | 4.9 | 108 |
| 162 | Photosynthesis of ground vegetation in different aged pine forests: Effect of environmental factors predicted with a process-based model. Journal of Vegetation Science, 2011, 22, 96-110. | 2.2 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | The effects of the canopy medium on dry deposition velocities of aerosol particles in the canopy sub-layer above forested ecosystems. Atmospheric Environment, 2011, 45, 1203-1212. | 4.1 | 31 |
| 164 | Long-term aerosol particle flux observations. Part II: Particle size statistics and deposition velocities. Atmospheric Environment, 2011, 45, 3794-3805. | 4.1 | 25 |
| 165 | Soil carbon model alternatives for ECHAM5/JSBACH climate model: Evaluation and impacts on global carbon cycle estimates. Journal of Geophysical Research, 2011, 116, . | 3.3 | 35 |
| 166 | Variability in cold front activities modulating cool-season evaporation from a southern inland water in the USA. Environmental Research Letters, 2011, 6, 024022. | 5.2 | 42 |
| 167 | Towards a transnational system of supersites for forest monitoring and research in Europe - an overview on present state and future recommendations. IForest, 2011, 4, 167-171. | 1.4 | 23 |
| 168 | Availability, accessibility, quality and comparability of monitoring data for European forests for use in air pollution and climate change science. IForest, 2011, 4, 162-166. | 1.4 | 28 |
| 169 | The effect of a transaction tax on exchange rate volatility. International Journal of Finance and Economics, 2010, 15, 123-133. | 3.5 | 19 |
| 170 | Modeling acclimation of photosynthesis to temperature in evergreen conifer forests. New Phytologist, 2010, 188, 175-186. | 7.3 | 26 |
| 171 | Terrestrial biogeochemical feedbacks in the climate system. Nature Geoscience, 2010, 3, 525-532. | 12.9 | 486 |
| 172 | Autumn temperature and carbon balance of a boreal Scots pine forest in Southern Finland. Biogeosciences, 2010, 7, 163-176. | 3.3 | 57 |
| 173 | Greenhouse gas fluxes in a drained peatland forest during spring frost-thaw event. Biogeosciences, 2010, 7, 1715-1727. | 3.3 | 39 |
| 174 | A case study of eddy covariance flux of N<sub>2</sub>O measured within forest ecosystems: quality control and flux error analysis. Biogeosciences, 2010, 7, 427-440. | 3.3 | 45 |
| 175 | Diagnosing the Surface Layer Parameters for Dispersion Models within the Meteorological-to-Dispersion Modeling Interface. Journal of Applied Meteorology and Climatology, 2010, 49, 221-233. | 1.5 | 36 |
| 176 | Predicting the dry deposition of aerosolâ€sized particles using layerâ€resolved canopy and pipe flow analogy models: Role of turbophoresis. Journal of Geophysical Research, 2010, 115, . | 3.3 | 29 |
| 177 | Detecting the critical periods that underpin interannual fluctuations in the carbon balance of European forests. Journal of Geophysical Research, 2010, 115, . | 3.3 | 22 |
| 178 | Photosynthesis of boreal ground vegetation after a forest clear-cut. Biogeosciences, 2009, 6, 2495-2507. | 3.3 | 13 |
| 179 | Relative Humidity Effect on the High-Frequency Attenuation of Water Vapor Flux Measured by a Closed-Path Eddy Covariance System. Journal of Atmospheric and Oceanic Technology, 2009, 26, 1856-1866. | 1.3 | 108 |
| 180 | Contributions of climate, leaf area index and leaf physiology to variation in gross primary production of six coniferous forests across Europe: a model-based analysis. Tree Physiology, 2009, 29, 621-639. | 3.1 | 41 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Gross primary production simulation in a coniferous forest using a daily gas exchange model with seasonal change of leaf physiological parameters derived from remote sensing data. International Journal of Remote Sensing, 2009, 30, 3013-3025. | 2.9 | 10 |
| 182 | Long-term aerosol particle flux observations part I: Uncertainties and time-average statistics. Atmospheric Environment, 2009, 43, 3431-3439. | 4.1 | 33 |
| 183 | Atmospheric composition change: Ecosystemsâ€“Atmosphere interactions. Atmospheric Environment, 2009, 43, 5193-5267. | 4.1 | 609 |
| 184 | An Analytical Model for the Two-Scalar Covariance Budget Inside a Uniform Dense Canopy. Boundary-Layer Meteorology, 2009, 131, 173-192. | 2.3 | 5 |
| 185 | Exceptional carbon uptake in European forests during the warm spring of 2007: a dataâ€“model analysis. Global Change Biology, 2009, 15, 1455-1474. | 9.5 | 110 |
| 186 | Latitudinal patterns of magnitude and interannual variability in net ecosystem exchange regulated by biological and environmental variables. Global Change Biology, 2009, 15, 2905-2920. | 9.5 | 94 |
| 187 | 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 |
| 188 | Compensation point of NOx exchange: Net result of NOx consumption and production. Agricultural and Forest Meteorology, 2009, 149, 1073-1081. | 4.8 | 30 |
| 189 | Temporal and amongâ€site variability of inherent water use efficiency at the ecosystem level. Global Biogeochemical Cycles, 2009, 23, . | 4.9 | 422 |
| 190 | Correlated change in normalized difference vegetation index and the seasonal trajectory of photosynthetic capacity in a conifer stand. International Journal of Remote Sensing, 2009, 30, 983-1001. | 2.9 | 8 |
| 191 | Aerosol particle dry deposition to canopy and forest floor measured by twoâ€layer eddy covariance system. Journal of Geophysical Research, 2009, 114, . | 3.3 | 30 |
| 192 | Evaluation of forest snow processes models (SnowMIP2). Journal of Geophysical Research, 2009, 114, . | 3.3 | 290 |
| 193 | Characterizing the Seasonal Dynamics of Plant Community Photosynthesis Across a Range of Vegetation Types. , 2009, , 35-58. | | 42 |
| 194 | Vertical advection and nocturnal deposition of ozone over a boreal pine forest. Atmospheric Chemistry and Physics, 2009, 9, 2089-2095. | 4.9 | 26 |
| 195 | Annual particle flux observations over a heterogeneous urban area. Atmospheric Chemistry and Physics, 2009, 9, 7847-7856. | 4.9 | 56 |
| 196 | Biophysical controls on CO<sub>2</sub>fluxes of three Northern forests based on long-term eddy covariance data. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 143-152. | 1.6 | 53 |
| 197 | H2O and CO2fluxes at the floor of a boreal pine forest. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 167-178. | 1.6 | 43 |
| 198 | Upward fluxes of particles over forests: when, where, why?. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 372-380. | 1.6 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Net carbon dioxide losses of northern ecosystems in response to autumn warming. Nature, 2008, 451, 49-52. | 27.8 | 930 |
| 200 | Leaf area index is the principal scaling parameter for both gross photosynthesis and ecosystem respiration of Northern deciduous and coniferous forests. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 129-142. | 1.6 | 75 |
| 201 | MIDDLEMEN AND THE ADVERSE SELECTION PROBLEM. Bulletin of Economic Research, 2008, 60, 1-11. | 1.1 | 4 |
| 202 | Developing an empirical model of stand GPP with the LUE approach: analysis of eddy covariance data at five contrasting conifer sites in Europe. Global Change Biology, 2008, 14, 92-108. | 9.5 | 132 |
| 203 | Flux and concentration footprint modelling: State of the art. Environmental Pollution, 2008, 152, 653-666. | 7.5 | 199 |
| 204 | The dependence of the Î² coefficient of REA system with dynamic deadband on atmospheric conditions. Environmental Pollution, 2008, 152, 597-603. | 7.5 | 13 |
| 205 | Highâ€frequency measurements of productivity of planktonic algae using rugged nondispersive infrared carbon dioxide probes. Limnology and Oceanography: Methods, 2008, 6, 347-354. | 2.0 | 41 |
| 206 | CO2FLUXES NEAR A FOREST EDGE: A NUMERICAL STUDY. , 2008, 18, 1454-1469. | | 38 |
| 207 | On the Determinants of the Skill Premium in Wages. Journal of Institutional and Theoretical Economics, 2008, 164, 195. | 0.2 | 0 |
| 208 | Quality control of CarboEurope flux data â€“ Part 1: Coupling footprint analyses with flux data quality assessment to evaluate sites in forest ecosystems. Biogeosciences, 2008, 5, 433-450. | 3.3 | 192 |
| 209 | A review of measurement and modelling results of particle atmosphereâ€“surface exchange. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, . | 1.6 | 18 |
| 210 | Upward fluxes of particles over forests: when, where, why?. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, . | 1.6 | 6 |
| 211 | Assessing seasonality of biochemical CO<sub>2</sub> exchange model parameters from micrometeorological flux observations at boreal coniferous forest. Biogeosciences, 2008, 5, 1625-1639. | 3.3 | 31 |
| 212 | Hydrocarbon fluxes above a Scots pine forest canopy: measurements and modeling. Atmospheric Chemistry and Physics, 2007, 7, 3361-3372. | 4.9 | 131 |
| 213 | Deriving a light use efficiency model from eddy covariance flux data for predicting daily gross primary production across biomes. Agricultural and Forest Meteorology, 2007, 143, 189-207. | 4.8 | 547 |
| 214 | Evidence for soil water control on carbon and water dynamics in European forests during the extremely dry year: 2003. Agricultural and Forest Meteorology, 2007, 143, 123-145. | 4.8 | 509 |
| 215 | Partitioning forest carbon fluxes with overstory and understory eddy-covariance measurements: A synthesis based on FLUXNET data. Agricultural and Forest Meteorology, 2007, 144, 14-31. | 4.8 | 138 |
| 216 | Challenges in quantifying biosphereâ€“atmosphere exchange of nitrogen species. Environmental Pollution, 2007, 150, 125-139. | 7.5 | 203 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Switching costs and relationship profits in bank lending. Journal of Banking and Finance, 2007, 31, 477-493. | 2.9 | 20 |
| 218 | Micrometeorological Measurements of Methane and Carbon Dioxide Fluxes at a Municipal Landfill. Environmental Science & Technology, 2007, 41, 2717-2722. | 10.0 | 82 |
| 219 | Particle fluxes over forests: Analyses of flux methods and functional dependencies. Journal of Geophysical Research, 2007, 112, . | 3.3 | 50 |
| 220 | The sauna - revisited. Europhysics News, 2007, 38, 32-32. | 0.3 | 4 |
| 221 | A model of bubble growth leading to xylem conduit embolism. Journal of Theoretical Biology, 2007, 249, 111-123. | 1.7 | 16 |
| 222 | Financial Matching, Asymmetric Information and Entrepreneurial Risk Taking. Scandinavian Journal of Economics, 2007, 109, 469-485. | 1.4 | 4 |
| 223 | Reduction of ecosystem productivity and respiration during the European summer 2003 climate anomaly: a joint flux tower, remote sensing and modelling analysis. Global Change Biology, 2007, 13, 634-651. | 9.5 | 486 |
| 224 | Estimating parameters in a land-surface model by applying nonlinear inversion to eddy covariance flux measurements from eight FLUXNET sites. Global Change Biology, 2007, 13, 652-670. | 9.5 | 144 |
| 225 | Linking flux network measurements to continental scale simulations: ecosystem carbon dioxide exchange capacity under nonâ€waterâ€stressed conditions. Global Change Biology, 2007, 13, 734-760. | 9.5 | 81 |
| 226 | Photosynthesis drives anomalies in net carbon-exchange of pine forests at different latitudes. Global Change Biology, 2007, 13, 2110-2127. | 9.5 | 69 |
| 227 | CO<sub>2</sub> balance of boreal, temperate, and tropical forests derived from a global database. Global Change Biology, 2007, 13, 2509-2537. | 9.5 | 863 |
| 228 | 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 |
| 229 | Measurements of aerosol particle dry deposition velocity using the relaxed eddy accumulation technique. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 381-386. | 1.6 | 49 |
| 230 | 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 |
| 231 | Vertical variability and effect of stability on turbulence characteristics down to the floor of a pine forest. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 919-936. | 1.6 | 64 |
| 232 | Modeling air-mediated dispersal of spores, pollen and seeds in forested areas. Ecological Modelling, 2007, 208, 177-188. | 2.5 | 109 |
| 233 | Micrometeorological Observations of a Microburst in Southern Finland. Boundary-Layer Meteorology, 2007, 125, 343-359. | 2.3 | 19 |
| 234 | Micrometeorological observations of a microburst in southern Finland. , 2007, , 187-203. | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Linking flux network measurements to continental scale simulations: ecosystem carbon dioxide exchange capacity under non-water-stressed conditions. Global Change Biology, 2007, . | 9.5 | 0 |
| 236 | Eddy covariance measurements of carbon exchange and latent and sensible heat fluxes over a boreal lake for a full open-water period. Journal of Geophysical Research, 2006, 111, . | 3.3 | 105 |
| 237 | Condensation of water vapor: Experimental determination of mass and thermal accommodation coefficients. Journal of Geophysical Research, 2006, 111, . | 3.3 | 75 |
| 238 | Uncertainties in measurement and modelling of net ecosystem exchange of a forest. Agricultural and Forest Meteorology, 2006, 138, 244-257. | 4.8 | 51 |
| 239 | Factors controlling regional differences in forest soil emission of nitrogen oxides (NO and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5C | 3.3 | 205 |
| 240 | Towards a standardized processing of Net Ecosystem Exchange measured with eddy covariance technique: algorithms and uncertainty estimation. Biogeosciences, 2006, 3, 571-583. | 3.3 | 1,206 |
| 241 | Foliage surface ozone deposition: a role for surface moisture?. Biogeosciences, 2006, 3, 209-228. | 3.3 | 128 |
| 242 | Modeling xylem and phloem water flows in trees according to cohesion theory and MÃ¼nch hypothesis. Trees - Structure and Function, 2006, 20, 67-78. | 1.9 | 206 |
| 243 | UV-induced NOy emissions from Scots pine: Could they originate from photolysis of deposited HNO3?. Atmospheric Environment, 2006, 40, 6201-6213. | 4.1 | 27 |
| 244 | Wintertime photosynthesis and water uptake in a boreal forest. Tree Physiology, 2006, 26, 749-757. | 3.1 | 117 |
| 245 | Refilling of embolised conduits as a consequence of 'MÃ¼nch water' circulation. Functional Plant Biology, 2006, 33, 949. | 2.1 | 44 |
| 246 | Commentary on cloud modelling and the mass accommodation coefficient of water. Atmospheric Chemistry and Physics, 2005, 5, 461-464. | 4.9 | 78 |
| 247 | Temperature dependence of leafâ€level CO 2 fixation: revising biochemical coefficients through analysis of leaf threeâ€dimensional structure. New Phytologist, 2005, 166, 205-215. | 7.3 | 21 |
| 248 | Plantâ€mediated nitrous oxide emissions from beech ( Fagus sylvatica ) leaves. New Phytologist, 2005, 168, 93-98. | 7.3 | 61 |
| 249 | On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. Global Change Biology, 2005, 11, 1424-1439. | 9.5 | 2,778 |
| 250 | Pan-European delta13C values of air and organic matter from forest ecosystems. Global Change Biology, 2005, 11, 1065-1093. | 9.5 | 60 |
| 251 | Europe-wide reduction in primary productivity caused by the heat and drought in 2003. Nature, 2005, 437, 529-533. | 27.8 | 3,245 |
| 252 | Quality analysis applied on eddy covariance measurements at complex forest sites using footprint modelling. Theoretical and Applied Climatology, 2005, 80, 121-141. | 2.8 | 173 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Numerical analysis of flux footprints for different landscapes. Theoretical and Applied Climatology, 2005, 80, 169-185. | 2.8 | 36 |
| 254 | Inventories of N<sub>2</sub>O and NO emissions from European forest soils. Biogeosciences, 2005, 2, 353-375. | 3.3 | 170 |
| 255 | Nitrous oxide emissions from a beech forest floor measured by eddy covariance and soil enclosure techniques. Biogeosciences, 2005, 2, 377-387. | 3.3 | 57 |
| 256 | Modeling the dynamics of pressure propagation and diameter variation in tree sapwood. Tree Physiology, 2005, 25, 1091-1099. | 3.1 | 41 |
| 257 | Field measurements of ultrasonic acoustic emissions and stem diameter variations. New insight into the relationship between xylem tensions and embolism. Tree Physiology, 2005, 25, 237-243. | 3.1 | 36 |
| 258 | Nitrous Oxide Emissions from a Municipal Landfill. Environmental Science & Technology, 2005, 39, 7790-7793. | 10.0 | 89 |
| 259 | Entrepreneurship and labor market institutions. Economic Modelling, 2005, 22, 828-847. | 3.8 | 60 |
| 260 | Objective threshold determination for nighttime eddy flux filtering. Agricultural and Forest Meteorology, 2005, 128, 179-197. | 4.8 | 241 |
| 261 | Effect of clearcuts on footprints and flux measurements above a forest canopy. Agricultural and Forest Meteorology, 2005, 133, 182-196. | 4.8 | 42 |
| 262 | Effect of thinning on surface fluxes in a boreal forest. Global Biogeochemical Cycles, 2005, 19, n/a-n/a. | 4.9 | 157 |
| 263 | Measuring methane emissions from a landfill using a cost-effective micrometeorological method. Geophysical Research Letters, 2005, 32, n/a-n/a. | 4.0 | 36 |
| 264 | Simulation and scaling of temporal variation in gross primary production for coniferous and deciduous temperate forests. Global Change Biology, 2004, 10, 37-51. | 9.5 | 71 |
| 265 | Measurements of ozone removal by Scots pine shoots: calibration of a stomatal uptake model including the non-stomatal component. Atmospheric Environment, 2004, 38, 2387-2398. | 4.1 | 64 |
| 266 | Similarities in ground- and satellite-based NDVI time series and their relationship to physiological activity of a Scots pine forest in Finland. Remote Sensing of Environment, 2004, 93, 225-237. | 11.0 | 118 |
| 267 | Mass accommodation coefficient of water vapor on liquid water. Geophysical Research Letters, 2004, 31, . | 4.0 | 73 |
| 268 | Mass and Thermal Accommodation during Gas-Liquid Condensation of Water. Physical Review Letters, 2004, 93, 075701. | 7.8 | 105 |
| 269 | Comparison of different chamber techniques for measuring soil CO2 efflux. Agricultural and Forest Meteorology, 2004, 123, 159-176. | 4.8 | 420 |
| 270 | Estimation of forestâ€“atmosphere CO2 exchange by eddy covariance and profile techniques. Agricultural and Forest Meteorology, 2004, 126, 141-155. | 4.8 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Flux and concentration footprints. Agricultural and Forest Meteorology, 2004, 127, 111-116. | 4.8 | 24 |
| 272 | Flux footprints over complex terrain covered by heterogeneous forest. Agricultural and Forest Meteorology, 2004, 127, 143-158. | 4.8 | 47 |
| 273 | A new feedback mechanism linking forests, aerosols, and climate. Atmospheric Chemistry and Physics, 2004, 4, 557-562. | 4.9 | 337 |
| 274 | Relaxed Eddy Accumulation System for Size-Resolved Aerosol Particle Flux Measurements. Journal of Atmospheric and Oceanic Technology, 2004, 21, 933-943. | 1.3 | 61 |
| 275 | Comment on â€œPostnucleation droplet growth in supersaturated gas with arbitrary vapor concentrationâ€•[J. Chem. Phys. 120, 10455 (2004)]. Journal of Chemical Physics, 2004, 121, 8163. | 3.0 | 2 |
| 276 | Turbulence Statistics Inside and Over Forest: Influence on Footprint Prediction. Boundary-Layer Meteorology, 2003, 109, 163-189. | 2.3 | 103 |
| 277 | Footprints and Fetches for Fluxes over Forest Canopies with Varying Structure and Density. Boundary-Layer Meteorology, 2003, 106, 437-459. | 2.3 | 80 |
| 278 | Sugar transport together with environmental conditions controls time lags between xylem and stem diameter changes. Plant, Cell and Environment, 2003, 26, 1257-1265. | 5.7 | 64 |
| 279 | Air temperature triggers the recovery of evergreen boreal forest photosynthesis in spring. Global Change Biology, 2003, 9, 1410-1426. | 9.5 | 273 |
| 280 | Ultraviolet light and leaf emission of NOx. Nature, 2003, 422, 134-134. | 27.8 | 43 |
| 281 | Interannual variability and timing of growing-season CO2exchange in a boreal forest. Journal of Geophysical Research, 2003, 108, n/a-n/a. | 3.3 | 95 |
| 282 | Interpretation of aerosol particle fluxes over a pine forest: Dry deposition and random errors. Journal of Geophysical Research, 2003, 108, . | 3.3 | 44 |
| 283 | Analysis of measurement techniques to determine dry deposition velocities of aerosol particles with diameters less than 100 nm. Journal of Aerosol Science, 2003, 34, 747-764. | 3.8 | 40 |
| 284 | Refilling of a Hydraulically Isolated Embolized Xylem Vessel: Model Calculations. Annals of Botany, 2003, 91, 419-428. | 2.9 | 66 |
| 285 | Stochastic Lagrangian footprint calculations over a surface with an abrupt change of roughness height. Monte Carlo Methods and Applications, 2003, 9, . | 0.8 | 6 |
| 286 | Coniferous Forests (Scots and Maritime Pine): Carbon and Water Fluxes, Balances, Ecological and Ecophysiological Determinants. Ecological Studies, 2003, , 71-97. | 1.2 | 8 |
| 287 | Phenology of Vegetation Photosynthesis. Tasks for Vegetation Science, 2003, , 467-485. | 0.6 | 36 |
| 288 | Stochastic Lagrangian footprint calculations over a surface with an abrupt change of roughness height. Monte Carlo Methods and Applications, 2003, 9, 167-188. | 0.8 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Advantages of diffuse radiation for terrestrial ecosystem productivity. Journal of Geophysical Research, 2002, 107, ACL 2-1-ACL 2-23. | 3.3 | 518 |
| 290 | Energy partitioning between latent and sensible heat flux during the warm season at FLUXNET sites. Water Resources Research, 2002, 38, 30-1-30-11. | 4.2 | 169 |
| 291 | Fluxes of carbon dioxide and water vapour over Scots pine forest and clearing. Agricultural and Forest Meteorology, 2002, 111, 187-202. | 4.8 | 70 |
| 292 | Environmental controls over carbon dioxide and water vapor exchange of terrestrial vegetation. Agricultural and Forest Meteorology, 2002, 113, 97-120. | 4.8 | 1,133 |
| 293 | Methodology for direct field measurements of ozone flux to foliage with shoot chambers. Atmospheric Environment, 2002, 36, 19-29. | 4.1 | 42 |
| 294 | Relationships between Embolism, Stem Water Tension, and Diameter Changes. Journal of Theoretical Biology, 2002, 215, 23-38. | 1.7 | 42 |
| 295 | Evaluation of six process-based forest growth models using eddy-covariance measurements of CO2 and H2 O fluxes at six forest sites in Europe. Global Change Biology, 2002, 8, 213-230. | 9.5 | 135 |
| 296 | Time lags for xylem and stem diameter variations in a Scots pine tree. Plant, Cell and Environment, 2002, 25, 1071-1077. | 5.7 | 106 |
| 297 | Simulations of Water Flow Through Bordered Pits of Conifer Xylem. Journal of Statistical Physics, 2002, 107, 121-142. | 1.2 | 23 |
| 298 | Comparison of an optimal stomatal regulation model and a biochemical model in explaining CO2 exchange in field conditions. Silva Fennica, 2002, 36, . | 1.3 | 12 |
| 299 | FLUXNET: A New Tool to Study the Temporal and Spatial Variability of Ecosystemâ€“Scale Carbon Dioxide, Water Vapor, and Energy Flux Densities. Bulletin of the American Meteorological Society, 2001, 82, 2415-2434. | 3.3 | 3,018 |
| 300 | An open chamber system for measuring soil surface CO2efflux: Analysis of error sources related to the chamber system. Journal of Geophysical Research, 2001, 106, 7985-7992. | 3.3 | 32 |
| 301 | Tree scale distributed multipoint measuring system of photosynthetically active radiation. Agricultural and Forest Meteorology, 2001, 106, 71-80. | 4.8 | 19 |
| 302 | Gap filling strategies for defensible annual sums of net ecosystem exchange. Agricultural and Forest Meteorology, 2001, 107, 43-69. | 4.8 | 1,579 |
| 303 | Gap filling strategies for long term energy flux data sets. Agricultural and Forest Meteorology, 2001, 107, 71-77. | 4.8 | 493 |
| 304 | Rigorous treatment of time-dependent trace gas uptake by droplets including bulk diffusion and surface accommodation. Journal of Aerosol Science, 2001, 32, 843-860. | 3.8 | 16 |
| 305 | Experimental study of sticking probabilities for condensation of nitric acid â€" water vapor mixtures. Journal of Aerosol Science, 2001, 32, 913-932. | 3.8 | 32 |
| 306 | Carbon Balance Gradient in European Forests: Should We Doubt 'Surprising' Results? A Reply to Piovesan & Adams. Journal of Vegetation Science, 2001, 12, 145. | 2.2 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Evaluation of mean concentration and fluxes in turbulent flows by Lagrangian stochastic models. Mathematics and Computers in Simulation, 2001, 54, 459-476. | 4.4 | 13 |
| 308 | Productivity overshadows temperature in determining soil and ecosystem respiration across European forests. Global Change Biology, 2001, 7, 269-278. | 9.5 | 843 |
| 309 | Carbon balance gradient in European forests: should we doubt â€˜surprisingâ€™ results? A reply to Piovesan & Adams. Journal of Vegetation Science, 2001, 12, 145-150. | 2.2 | 24 |
| 310 | Tree stem diameter variations and transpiration in Scots pine: an analysis using a dynamic sap flow model. Tree Physiology, 2001, 21, 889-897. | 3.1 | 122 |
| 311 | Respiration as the main determinant of carbon balance in European forests. Nature, 2000, 404, 861-865. | 27.8 | 1,438 |
| 312 | Footprint Analysis For Measurements Over A Heterogeneous Forest. Boundary-Layer Meteorology, 2000, 97, 137-166. | 2.3 | 151 |
| 313 | Do tree stems shrink and swell with the tides?. Tree Physiology, 2000, 20, 633-635. | 3.1 | 14 |
| 314 | Effect of variations of PAR on CO2 exchange estimation for Scots pine. Agricultural and Forest Meteorology, 2000, 100, 337-347. | 4.8 | 33 |
| 315 | Biogenic aerosol formation in the boreal forest. Journal of Aerosol Science, 2000, 31, 598-599. | 3.8 | 6 |
| 316 | Vertical aerosol fluxes measured by the eddy covariance method and deposition of nucleation mode particles above a Scots pine forest in southern Finland. Journal of Geophysical Research, 2000, 105, 19905-19916. | 3.3 | 74 |
| 317 | Physical Chemistry of Aerosol Formation. , 2000, , 23-46. | | 2 |
| 318 | Direct and Adjoint Monte Carlo Algorithms for the Footprint Problem. Monte Carlo Methods and Applications, 1999, 5, . | 0.8 | 19 |
| 319 | An improvement of the method for calibrating measurements of photosynthetic CO2flux. Plant, Cell and Environment, 1999, 22, 1297-1301. | 5.7 | 49 |
| 320 | Autoregressive filtering versus linear detrending in estimation of fluxes by the eddy covariance method. Boundary-Layer Meteorology, 1999, 91, 259-280. | 2.3 | 164 |
| 321 | A model for NOxâ€“O3â€“terpene chemistry in chamber measurements of plant gas exchange. Atmospheric Environment, 1999, 33, 2145-2156. | 4.1 | 14 |
| 322 | A Three-dimensional Stomatal CO2Exchange Model Including Gaseous Phase and Leaf Mesophyll Separated by Irregular Interface. Journal of Theoretical Biology, 1999, 196, 115-128. | 1.7 | 43 |
| 323 | Estimates of the Annual Net Carbon and Water Exchange of Forests: The EUROFLUX Methodology. Advances in Ecological Research, 1999, , 113-175. | 2.7 | 1,540 |
| 324 | A novel set-up to measure vertical aerosol particle fluxes in the atmospheric surface layer. Journal of Aerosol Science, 1999, 30, S841-S842. | 3.8 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | On the Concept of Leaf Boundary Layer Resistance for Forced Convection. Journal of Theoretical Biology, 1998, 194, 91-100. | 1.7 | 23 |
| 326 | Vertical aerosol particle fluxes measured by eddy covariance technique using condensational particle counter. Journal of Aerosol Science, 1998, 29, 157-171. | 3.8 | 127 |
| 327 | Studies on CO2 Exchange of Scots Pine Needles Using Cuvette Field Measurements and A 3-Dimensional Stomatal Model Including Gaseous Phase and Leaf Mesophyll. , 1998, , 3483-3486. | | 0 |
| 328 | On Importance of Physical Phenomena in the Temperature Dependence of Photosynthesis -A Sensitivity Analysis. , 1998, , 3495-3498. | | 0 |
| 329 | On the damping of temperature fluctuations in a circular tube relevant to the eddy covariance measurement technique. Journal of Geophysical Research, 1997, 102, 12789-12794. | 3.3 | 60 |
| 330 | On the condensational growth of a multicomponent droplet. Journal of Aerosol Science, 1997, 28, 553-564. | 3.8 | 35 |
| 331 | Models for condensational growth and evaporation of binary aerosol particles. Journal of Aerosol Science, 1997, 28, 565-598. | 3.8 | 122 |
| 332 | A theoretical study on ternary condensation and evaporation of water, ammonia and hydrochlorid acid. Journal of Aerosol Science, 1997, 28, S177-S178. | 3.8 | 1 |
| 333 | Analytical multicomponent condensation rates. Journal of Aerosol Science, 1997, 28, S361-S362. | 3.8 | 0 |
| 334 | Modelling of Light-driven RuBP Regeneration, Carboxylation and CO2Diffusion for Leaf Photosynthesis. Journal of Theoretical Biology, 1997, 188, 143-151. | 1.7 | 3 |
| 335 | Model simulation of the amount of soluble mass during cloud droplet formation. Atmospheric Environment, 1996, 30, 1773-1785. | 4.1 | 8 |
| 336 | Theoretical consideration on sticking probabilities. Journal of Aerosol Science, 1996, 27, 869-882. | 3.8 | 76 |
| 337 | Simultaneous condensation of five gaseous substances. Journal of Aerosol Science, 1996, 27, S273-S274. | 3.8 | 0 |
| 338 | The effect of hygroscopicity on cloud droplet formation. Tellus, Series B: Chemical and Physical Meteorology, 1996, 48, 347-360. | 1.6 | 35 |
| 339 | Analysis of stomatal CO 2 uptake by a threeâ€dimensional cylindrically symmetric model. New Phytologist, 1996, 132, 235-245. | 7.3 | 22 |
| 340 | Comment on â€˜â€˜Generalized Kelvin equation and the water content of a cloudâ€™â€™. Physical Review E, 1996, 54, 5868-5869. | 2.1 | 0 |
| 341 | Phase transitions in Finnish sauna. , 1996, , 403-406. | | 3 |
| 342 | The Pre-Existing Particle Distribution and The Formation of Cloud Droplets. , 1996, , 944-947. | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 343 | Mass transfer from a dropâ€"II. Theoretical analysis of temperature dependent mass flux correlation. International Journal of Heat and Mass Transfer, 1995, 38, 1705-1708. | 4.8 | 48 |
| 344 | Experimental and numerical analysis of stomatal absorption of sulphur dioxide and transpiration by pine needles. Atmospheric Environment, 1995, 29, 825-836. | 4.1 | 9 |
| 345 | Aerosol formation in diffusive boundary layer: Binary homogeneous nucleation of ammonia and water vapours. Journal of Aerosol Science, 1995, 26, 547-558. | 3.8 | 7 |
| 346 | Evaluation of homogeneous droplet formation inside UCPC (TSI model 3025). Journal of Aerosol Science, 1995, 26, 1003-1008. | 3.8 | 7 |
| 347 | The homogeneous equilibrium approximation in heavy gas dispersion models. Journal of Aerosol Science, 1995, 26, S641-S642. | 3.8 | 0 |
| 348 | Changes in cloud properties due to NOxemissions. Geophysical Research Letters, 1995, 22, 239-242. | 4.0 | 24 |
| 349 | On the theories of type 1 polar stratospheric cloud formation. Journal of Geophysical Research, 1995, 100, 11275. | 3.3 | 62 |
| 350 | A Semiphenomenological Model for Stomatal Gas Transport. Journal of Theoretical Biology, 1994, 171, 291-301. | 1.7 | 20 |
| 351 | A model for mass and heat transfer in an aerosol cloud. Journal of Hazardous Materials, 1994, 38, 293-311. | 12.4 | 7 |
| 352 | 11.O.02 Evaporation of a drop. a temperature dependent mass transfer correlation. Journal of Aerosol Science, 1994, 25, 99-100. | 3.8 | 2 |
| 353 | The homogeneous equilibrium approximation in models of aerosol cloud dispersion. Atmospheric Environment, 1994, 28, 2763-2776. | 4.1 | 14 |
| 354 | Air pollution in eastern Lapland : challenge for an environmental measurement station.. Silva Fennica, 1994, 28, . | 1.3 | 41 |
| 355 | Comparison of Models for Aerosol Vaporisation in the Dispersion of Heavy Clouds. , 1994, , 431-438. | | 0 |
| 356 | Evaporation of polydisperse ethanol aerosols in humid environment. International Journal of Heat and Mass Transfer, 1993, 36, 705-711. | 4.8 | 4 |
| 357 | Comparisons of uncoupled, film theoretical and exact solutions for binary droplet evaporation and condensation. Physica A: Statistical Mechanics and Its Applications, 1993, 192, 107-123. | 2.6 | 25 |
| 358 | Long-range transport of ammonia released in a major chemical accident at Ionava, Lithuania. Journal of Hazardous Materials, 1993, 35, 1-16. | 12.4 | 8 |
| 359 | On droplet evaporation in the presence of a condensing substance: the effect of internal diffusion. International Journal of Heat and Mass Transfer, 1993, 36, 695-703. | 4.8 | 9 |
| 360 | 16 O 03 The radiative properties of convective clouds: The relationship between nitric acid vapour and cloud droplet concentration. Journal of Aerosol Science, 1993, 24, S113-S114. | 3.8 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 361 | The effect of atmospheric nitric acid vapor on cloud condensation nucleus activation. Journal of Geophysical Research, 1993, 98, 22949-22958. | 3.3 | 137 |
| 362 | A model for binary droplet evaporation and condensation, and its application for ammonia droplets in humid air. Atmospheric Environment Part A General Topics, 1992, 26, 1573-1581. | 1.3 | 20 |
| 363 | Activation and growth of cloud condensation nuclei by binary nucleation and condensation processes. Journal of Aerosol Science, 1992, 23, 113-116. | 3.8 | 5 |
| 364 | The physics of aerosol formation in diffusive boundary layers. Journal of Aerosol Science, 1992, 23, 121-124. | 3.8 | 2 |
| 365 | An analytical expression for the rate of binary condensational particle growth: Comparison with numerical results. Journal of Aerosol Science, 1992, 23, 133-136. | 3.8 | 10 |
| 366 | Condensation in the continuum regime. Journal of Aerosol Science, 1991, 22, 337-346. | 3.8 | 74 |
| 367 | Kinetics of particle growthin supersaturated binary vapor mixtures. Journal of Aerosol Science, 1991, 22, S51-S54. | 3.8 | 16 |
| 368 | Evaporation of polydisperse organicaerosols at ambient conditions. Journal of Aerosol Science, 1991, 22, S81-S84. | 3.8 | 4 |
| 369 | Formation and growth of water â€" nitric acid aerosols. Journal of Aerosol Science, 1991, 22, S93-S96. | 3.8 | 1 |
| 370 | Correction for the Brownian coagulation coefficient due to van der Waals forces between non-equal sized particles. Journal of Aerosol Science, 1991, 22, S105-S107. | 3.8 | 1 |
| 371 | Hydration of acid vapours in stratospheric conditions. Journal of Aerosol Science, 1991, 22, S133-S136. | 3.8 | 0 |
| 372 | Binary droplet evaporation in the presence of an inert gas: An exact solution of the Maxwell-Stefan equations. International Communications in Heat and Mass Transfer, 1991, 18, 117-126. | 5.6 | 14 |
| 373 | Extended hydrates interaction model: Hydrate formation and the energetics of binary homogeneous nucleation. Journal of Chemical Physics, 1991, 94, 7411-7413. | 3.0 | 34 |
| 374 | Modelling the Dynamics of Aerosols in Two-Phase Releases of Hazardous Materials. , 1991, , 613-614. | | 0 |
| 375 | Condensation and evaporation of binary droplets with internal mass transfer. Journal of Aerosol Science, 1990, 21, S7-S10. | 3.8 | 5 |
| 376 | The interdependence of evaporation and settling for airborne freely falling droplets. Journal of Aerosol Science, 1989, 20, 749-763. | 3.8 | 72 |
| 377 | The evaporation of airborne droplets in a turbulent two-phase jet. Journal of Aerosol Science, 1988, 19, 871-874. | 3.8 | 3 |
| 378 | Modeling the SAR response of pine forest in Southern Finland. , 0, , . | | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 379 | Portfolio Effects and Efficiency of Lending under Basel II. SSRN Electronic Journal, 0, , . | 0.4 | 18 |
| 380 | Credit Allocation, Capital Requirements and Procyclicality. SSRN Electronic Journal, 0, , . | 0.4 | 1 |
| 381 | Asymmetric Information in Credit Markets and Entrepreneurial Risk Taking. SSRN Electronic Journal, 0, , . | 0.4 | 19 |