Leena JÃ¤rvi

List of Publications by Year
in descending order

61 papers	2,833 citations	218381 26 h-index	189595 50 g-index
92 all docs	92 docs citations	92 times ranked	3355 citing authors

#	Article	IF	Citations
1	Surfaceâ€“atmosphere interactions over complex urban terrain in Helsinki, Finland. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 188.	0.8	125
2	Revised eddy covariance flux calculation methodologies â€“ effect on urban energy balance. Tellus, Series B: Chemical and Physical Meteorology, 2022, 64, 18184.	0.8	63
3	The effect of local sources on aerosol particle number size distribution, concentrations and fluxes in Helsinki, Finland. Tellus, Series B: Chemical and Physical Meteorology, 2022, 65, 19786.	0.8	32
4	Aerosol number fluxes and concentrations over a southern European urban area. Atmospheric Environment, 2022, 269, 118849.	1.9	4
5	Urban Water Storage Capacity Inferred From Observed Evapotranspiration Recession. Geophysical Research Letters, 2022, 49, .	1.5	5
6	Evaluating modelled winds over an urban area using groundâ€based Doppler lidar observations. Meteorological Applications, 2022, 29, .	0.9	3
7	Direct observations of CO2 emission reductions due to COVID-19 lockdown across European urban districts. Science of the Total Environment, 2022, 830, 154662.	3.9	37
8	Quantifying the coastal urban surface layer structure using distributed temperature sensing in Helsinki, Finland. Atmospheric Measurement Techniques, 2022, 15, 2417-2432.	1.2	0
9	Carbon sequestration potential of street tree plantings in Helsinki. Biogeosciences, 2022, 19, 2121-2143.	1.3	9
10	Effects of precipitation seasonal distribution on net ecosystem CO2 exchange over an alpine meadow in the southeastern Tibetan Plateau. International Journal of Biometeorology, 2022, 66, 1561-1573.	1.3	5
11	Is reducing new particle formation a plausible solution to mitigate particulate air pollution in Beijing and other Chinese megacities?. Faraday Discussions, 2021, 226, 334-347.	1.6	74
12	A 3D study on the amplification of regional haze and particle growth by local emissions. Npj Climate and Atmospheric Science, 2021, 4, .	2.6	23
13	A novel approach of creating sustainable urban planning solutions that optimise the local air quality and environmental equity in Helsinki, Finland: The CouSCOUS study protocol. PLoS ONE, 2021, 16, e0260009.	1.1	3
14	Machine-learning models to replicate large-eddy simulations of air pollutant concentrations along boulevard-type streets. Geoscientific Model Development, 2021, 14, 7411-7424.	1.3	4
15	Source apportionment of particle number size distribution in urban background and traffic stations in four European cities. Environment International, 2020, 135, 105345.	4.8	106
16	Effects of forests on particle number concentrations in near-road environments across three geographic regions. Environmental Pollution, 2020, 266, 115294.	3.7	14
17	Large-eddy simulation of the optimal street-tree layout for pedestrian-level aerosol particle concentrations â€“ A case study from a city-boulevard. Atmospheric Environment: X, 2020, 6, 100073.	0.8	16
18	Impact of coordinate rotation on eddy covariance fluxes at complex sites. Agricultural and Forest Meteorology, 2020, 287, 107940.	1.9	8

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19	Study of Realistic Urban Boundary Layer Turbulence with High-Resolution Large-Eddy Simulation. Atmosphere, 2020, 11, 201.	1.0	32
20	Sensitivity of spatial aerosol particle distributions to the boundary conditions in the PALM model system 6.0. Geoscientific Model Development, 2020, 13, 5663-5685.	1.3	20
21	Spatial Modeling of Localâ€Scale Biogenic and Anthropogenic Carbon Dioxide Emissions in Helsinki. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8363-8384.	1.2	27
22	Simulation of the radiative effect of haze on the urban hydrological cycle using reanalysis data in Beijing. Atmospheric Chemistry and Physics, 2019, 19, 7001-7017.	1.9	11
23	Implementation of the sectional aerosol module SALSA2.0 into the PALM model system 6.0: model development and first evaluation. Geoscientific Model Development, 2019, 12, 1403-1422.	1.3	31
24	Sensitivity of Surface Urban Energy and Water Balance Scheme (SUEWS) to downscaling of reanalysis forcing data. Urban Climate, 2018, 23, 36-52.	2.4	21
25	Urban Multi-scale Environmental Predictor (UMEP): An integrated tool for city-based climate services. Environmental Modelling and Software, 2018, 99, 70-87.	1.9	171
26	Ventilation and Air Quality in City Blocks Using Large-Eddy Simulationâ€”Urban Planning Perspective. Atmosphere, 2018, 9, 65.	1.0	73
27	Uncertainty of eddy covariance flux measurements over an urban area based on two towers. Atmospheric Measurement Techniques, 2018, 11, 5421-5438.	1.2	25
28	Changes to the Water Balance Over a Century of Urban Development in Two Neighborhoods: Vancouver, Canada. Water Resources Research, 2018, 54, 6625-6642.	1.7	23
29	On the application of spectral corrections to particle flux measurements. Environmental Science: Nano, 2018, 5, 2315-2324.	2.2	1
30	Modelling the biogenic CO 2 exchange in urban and non-urban ecosystems through the assessment of light-response curve parameters. Agricultural and Forest Meteorology, 2017, 236, 113-122.	1.9	14
31	Impact of urban canopy models and external parameters on the modelled urban energy balance in a tropical city. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 1581-1596.	1.0	58
32	Species-Specific Information for Enhancing Ecosystem Services. Future City, 2017, , 111-144.	0.2	3
33	Warming effects on the urban hydrology in cold climate regions. Scientific Reports, 2017, 7, 5833.	1.6	20
34	Numerical framework for the computation of urban flux footprints employing large-eddy simulation and Lagrangian stochastic modeling. Geoscientific Model Development, 2017, 10, 4187-4205.	1.3	21
35	Quantifying the uncertainty of eddy covariance fluxes due to the use of different software packages and combinations of processing steps in two contrasting ecosystems. Atmospheric Measurement Techniques, 2016, 9, 4915-4933.	1.2	69
36	Environmental and crown related factors affecting street tree transpiration in Helsinki, Finland. Urban Ecosystems, 2016, 19, 1693-1715.	1.1	20

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37	Surface Urban Energy and Water Balance Scheme (SUEWS): Development and evaluation at two UK sites. Urban Climate, 2016, 18, 1-32.	2.4	83
38	Seasonal surface urban energy balance and wintertime stability simulated using three landâ€surface models in the highâ€latitude city <scp>H</scp>elsinki. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 401-417.	1.0	54
39	Enhanced air pollution via aerosol-boundary layer feedback in China. Scientific Reports, 2016, 6, 18998.	1.6	285
40	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.	1.9	57
41	Anthropogenic and biogenic influence on VOC fluxes at an urban background site in Helsinki, Finland. Atmospheric Chemistry and Physics, 2016, 16, 7981-8007.	1.9	34
42	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.	1.2	24
43	Effect of seasonal variability and land use on particle number and CO2 exchange in Helsinki, Finland. Urban Climate, 2015, 13, 94-109.	2.4	15
44	Urban surface cover determined with airborne lidar at 2m resolution â€“ Implications for surface energy balance modelling. Urban Climate, 2015, 13, 52-72.	2.4	18
45	Development of the Surface Urban Energy and Water Balance Scheme (SUEWS) for cold climate cities. Geoscientific Model Development, 2014, 7, 1691-1711.	1.3	60
46	On the Temperature Structure Parameter and Sensible Heat Flux over Helsinki from Sonic Anemometry and Scintillometry. Journal of Atmospheric and Oceanic Technology, 2013, 30, 1604-1615.	0.5	24
47	Intra-City Variation in Urban Morphology and Turbulence Structure in Helsinki, Finland. Boundary-Layer Meteorology, 2013, 146, 469-496.	1.2	76
48	Observations of biomass burning smoke from Russian wild fire episodes in Finland 2010. , 2013, , .		0
49	An Overview of the Urban Boundary Layer Atmosphere Network in Helsinki. Bulletin of the American Meteorological Society, 2013, 94, 1675-1690.	1.7	31
50	Corrigendum to "Four-year (2006â€“2009) eddy covariance measurements of CO₂ flux over an urban area in Beijing" published in Atmos. Chem. Phys., 12, 7881â€“7892, 2012. Atmospheric Chemistry and Physics, 2013, 13, 647-647.	1.9	1
51	Fraction of natural area as main predictor of net CO₂ emissions from cities. Geophysical Research Letters, 2012, 39, .	1.5	73
52	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.	1.9	0
53	Seasonal and annual variation of carbon dioxide surface fluxes in Helsinki, Finland, in 2006â€“2010. Atmospheric Chemistry and Physics, 2012, 12, 8475-8489.	1.9	82
54	Four-year (2006â€“2009) eddy covariance measurements of CO₂ flux over an urban area in Beijing. Atmospheric Chemistry and Physics, 2012, 12, 7881-7892.	1.9	85

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55	The Helsinki Testbed: A Mesoscale Measurement, Research, and Service Platform. Bulletin of the American Meteorological Society, 2011, 92, 325-342.	1.7	48
56	The Surface Urban Energy and Water Balance Scheme (SUEWS): Evaluation in Los Angeles and Vancouver. Journal of Hydrology, 2011, 411, 219-237.	2.3	150
57	Local-Scale Urban Meteorological Parameterization Scheme (LUMPS): Longwave Radiation Parameterization and Seasonality-Related Developments. Journal of Applied Meteorology and Climatology, 2011, 50, 185-202.	0.6	58
58	Annual particle flux observations over a heterogeneous urban area. Atmospheric Chemistry and Physics, 2009, 9, 7847-7856.	1.9	56
59	Temporal variations in black carbon concentrations with different time scales in Helsinki during 1996â€“2005. Atmospheric Chemistry and Physics, 2008, 8, 1017-1027.	1.9	41
60	Sources of organic carbon in fine particulate matter in northern European urban air. Atmospheric Chemistry and Physics, 2008, 8, 6281-6295.	1.9	258
61	Micrometeorological Observations of a Microburst in Southern Finland. Boundary-Layer Meteorology, 2007, 125, 343-359.	1.2	19