Heikki Lihavainen

List of Publications by Year
in descending order

37	2,326	331538 21	345118 36
papers	citations	h-index	g-index

75	75	75	2999
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Contribution of particle formation to global cloud condensation nuclei concentrations. Geophysical Research Letters, 2008, 35, .	1.5	400
2	Cloud condensation nuclei production associated with atmospheric nucleation: a synthesis based on existing literature and new results. Atmospheric Chemistry and Physics, 2012, 12, 12037-12059.	1.9	285
3	An overview of the first decade of Polly^{NET}: an emerging network of automated Raman-polarization lidars for continuous aerosol profiling. Atmospheric Chemistry and Physics, 2016, 16, 5111-5137.	1.9	212
4	The direct and indirect radiative effects of biogenic secondary organic aerosol. Atmospheric Chemistry and Physics, 2014, 14, 447-470.	1.9	175
5	Aerosol size distribution measurements at four Nordic field stations: identification, analysis and trajectory analysis of new particle formation bursts. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 350-361.	0.8	131
6	Global analysis of continental boundary layer new particle formation based on long-term measurements. Atmospheric Chemistry and Physics, 2018, 18, 14737-14756.	1.9	113
7	Aerosol size distribution seasonal characteristics measured in Tiksi, Russian Arctic. Atmospheric Chemistry and Physics, 2016, 16, 1271-1287.	1.9	97
8	Measurements of cloud droplet activation of aerosol particles at a clean subarctic background site. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	93
9	Aerosol decadal trends â€“ Part 2: In-situ aerosol particle number concentrations at GAW and ACTRIS stations. Atmospheric Chemistry and Physics, 2013, 13, 895-916.	1.9	78
10	AÂEuropean aerosol phenomenology â€“ 6: scattering properties of atmospheric aerosol particles from 28ÂACTRIS sites. Atmospheric Chemistry and Physics, 2018, 18, 7877-7911.	1.9	76
11	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. Atmospheric Measurement Techniques, 2020, 13, 4353-4392.	1.2	65
12	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
13	Black carbon concentrations and mixing state in the Finnish Arctic. Atmospheric Chemistry and Physics, 2015, 15, 10057-10070.	1.9	51
14	Soot on Snow experiment: bidirectional reflectance factor measurements of contaminated snow. Cryosphere, 2015, 9, 2323-2337.	1.5	50
15	Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. Atmospheric Chemistry and Physics, 2019, 19, 2015-2061.	1.9	42
16	Size-selected black carbon mass distributions and mixing state in polluted and clean environments of northern India. Atmospheric Chemistry and Physics, 2017, 17, 371-383.	1.9	35
17	Seasonality of the particle number concentration and size distribution: a global analysis retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. Atmospheric Chemistry and Physics, 2021, 21, 17185-17223.	1.9	31
18	Observational signature of the direct radiative effect by natural boreal forest aerosols and its relation to the corresponding first indirect effect. Journal of Geophysical Research, 2009, 114, .	3.3	30

#	Article	IF	Citations
19	Modeling the role of highly oxidized multifunctional organicÂmolecules for the growth of new particles overÂtheÂborealÂforestÂregion. Atmospheric Chemistry and Physics, 2017, 17, 8887-8901.	1.9	29
20	Optical and geometrical aerosol particle properties over the United Arab Emirates. Atmospheric Chemistry and Physics, 2020, 20, 8909-8922.	1.9	29
21	Light-absorption of dust and elemental carbon in snow in the Indian Himalayas and the Finnish Arctic. Atmospheric Measurement Techniques, 2018, 11, 1403-1416.	1.2	27
22	Applications and limitations of constrained high-resolution peak fitting on low resolving power mass spectra from the ToF-ACSM. Atmospheric Measurement Techniques, 2016, 9, 3263-3281.	1.2	24
23	Analysis of particle size distribution changes between three measurement sites in northern Scandinavia. Atmospheric Chemistry and Physics, 2013, 13, 11887-11903.	1.9	22
24	New particle formation, growth and apparent shrinkage at a rural background site in western Saudi Arabia. Atmospheric Chemistry and Physics, 2019, 19, 10537-10555.	1.9	19
25	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.	0.6	19
26	New particle formation in the fresh flue-gas plume from a coal-fired power plant: effect of flue-gas cleaning. Atmospheric Chemistry and Physics, 2016, 16, 7485-7496.	1.9	17
27	Total sulfate vs. sulfuric acid monomer concenterations in nucleation studies. Atmospheric Chemistry and Physics, 2015, 15, 3429-3443.	1.9	16
28	Significant increase of aerosol number concentrations in air masses crossing a densely trafficked sea area. Oceanologia, 2016, 58, 1-12.	1.1	14
29	Spatial distributions and seasonal cycles of aerosol climate effects in India seen in a global climateâ€“aerosol model. Atmospheric Chemistry and Physics, 2014, 14, 10177-10192.	1.9	12
30	Growth of sulphuric acid nanoparticles under wet and dry conditions. Atmospheric Chemistry and Physics, 2014, 14, 6461-6475.	1.9	12
31	Impacts of emission reductions on aerosol radiative effects. Atmospheric Chemistry and Physics, 2015, 15, 5501-5519.	1.9	7
32	Direct radiative feedback due to biogenic secondary organic aerosol estimated from boreal forest site observations. Environmental Research Letters, 2015, 10, 104005.	2.2	7
33	Deposition of light-absorbing particles in glacier snow of the Sunderdhunga Valley, the southern forefront of the central Himalayas. Atmospheric Chemistry and Physics, 2021, 21, 2931-2943.	1.9	6
34	Characteristics of particle emissions and their atmospheric dilution during co-combustion of coal and wood pellets in a large combined heat and power plant. Journal of the Air and Waste Management Association, 2019, 69, 97-108.	0.9	5
35	Aerosol particle characteristics measured in the United Arab Emirates and their response to mixing in the boundary layer. Atmospheric Chemistry and Physics, 2022, 22, 481-503.	1.9	5
36	An extensive data set for in situ microphysical characterization of low-level clouds in a Finnish sub-Arctic site. Earth System Science Data, 2022, 14, 637-649.	3.7	2

#	Article	IF	Citations
37	Snow albedo and its sensitivity to changes in deposited light-absorbing particles estimated from ambient temperature and snow depth observations at a high-altitude site in the Himalaya. Elementa, 2022, 10, .	1.1	0