

# Mika Komppula

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

2,730  
citations

257357

24  
h-index

206029

48  
g-index

77  
all docs

77  
docs citations

77  
times ranked

3764  
citing authors

#	ARTICLE	IF	CITATIONS
1	Annual and interannual variation in boreal forest aerosol particle number and volume concentration and their connection to particle formation. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 495.	0.8	72
2	Aerosol particle characteristics measured in the United Arab Emirates and their response to mixing in the boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 481-503.	1.9	5
3	Particle emissions from a modern heavy-duty diesel engine as ice nuclei in immersion freezing mode: a laboratory study on fossil and renewable fuels. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1615-1631.	1.9	1
4	Pollen observations at four EARLINET stations during the ACTRIS-COVID-19 campaign. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3931-3944.	1.9	2
5	Fine and ultrafine airborne PM influence inflammation response of young adults and toxicological responses in vitro. <i>Science of the Total Environment</i> , 2022, 836, 155618.	3.9	13
6	Intercomparison of holographic imaging and single-particle forward light scattering in situ measurements of liquid clouds in changing atmospheric conditions. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 2993-3009.	1.2	4
7	Winter and spring variation in sources, chemical components and toxicological responses of urban air particulate matter samples in Guangzhou, China. <i>Science of the Total Environment</i> , 2022, 845, 157382.	3.9	6
8	Inflammatory responses of urban air PM modulated by chemical composition and different air quality situations in Nanjing, China. <i>Environmental Research</i> , 2021, 192, 110382.	3.7	14
9	Urban air PM modifies differently immune defense responses against bacterial and viral infections in vitro. <i>Environmental Research</i> , 2021, 192, 110244.	3.7	12
10	Observations on aerosol optical properties and scavenging during cloud events. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1683-1695.	1.9	3
11	Aerosol type classification analysis using EARLINET multiwavelength and depolarization lidar observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2211-2227.	1.9	11
12	Associations of Particulate Matter Sizes and Chemical Constituents with Blood Lipids: A Panel Study in Guangzhou, China. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5065-5075.	4.6	25
13	Short-Term Effects of Particle Sizes and Constituents on Blood Biomarkers among Healthy Young Adults in Guangzhou, China. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5636-5647.	4.6	14
14	Aerosol particle depolarization ratio at 1565 nm measured with a Halo Doppler lidar. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5807-5820.	1.9	5
15	Short-Term Effects of Particle Size and Constituents on Blood Pressure in Healthy Young Adults in Guangzhou, China. <i>Journal of the American Heart Association</i> , 2021, 10, e019063.	1.6	17
16	Lidar depolarization ratio of atmospheric pollen at multiple wavelengths. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7083-7097.	1.9	18
17	Mass concentration estimates of long-range-transported Canadian biomass burning aerosols from a multi-wavelength Raman polarization lidar and a ceilometer in Finland. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6159-6179.	1.2	3
18	Greenness around schools associated with lower risk of hypertension among children: Findings from the Seven Northeastern Cities Study in China. <i>Environmental Pollution</i> , 2020, 256, 113422.	3.7	42

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19	Benefits of influenza vaccination on the associations between ambient air pollution and allergic respiratory diseases in children and adolescents: New insights from the Seven Northeastern Cities study in China. <i>Environmental Pollution</i> , 2020, 256, 113434.	3.7	20
20	Modification of caesarean section on the associations between air pollution and childhood asthma in seven Chinese cities. <i>Environmental Pollution</i> , 2020, 267, 115443.	3.7	3
21	Is PM1 similar to PM2.5? A new insight into the association of PM1 and PM2.5 with children's lung function. <i>Environment International</i> , 2020, 145, 106092.	4.8	43
22	First Results from the German Cal/Val Activities for Aeolus. <i>EPJ Web of Conferences</i> , 2020, 237, 01008.	0.1	10
23	Evaluating atmospheric icing forecasts with ground-based ceilometer profiles. <i>Meteorological Applications</i> , 2020, 27, e1964.	0.9	1
24	The role of influenza vaccination in mitigating the adverse impact of ambient air pollution on lung function in children: New insights from the Seven Northeastern Cities Study in China. <i>Environmental Research</i> , 2020, 187, 109624.	3.7	8
25	Variability in cirrus cloud properties using a Polly&lt;sup&gt;XT&lt;/sup&gt; Raman lidar over high and tropical latitudes. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4427-4444.	1.9	19
26	Air quality intervention during the Nanjing youth olympic games altered PM sources, chemical composition, and toxicological responses. <i>Environmental Research</i> , 2020, 185, 109360.	3.7	14
27	Urban air particulate matter induces mitochondrial dysfunction in human olfactory mucosal cells. <i>Particle and Fibre Toxicology</i> , 2020, 17, 18.	2.8	36
28	The potential of elastic and polarization lidars to retrieve extinction profiles. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 893-905.	1.2	6
29	Optical characterization of pure pollen types using a multi-wavelength Raman polarization lidar. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15323-15339.	1.9	21
30	Ice-nucleating ability of particulate emissions from solid-biomass-fired cookstoves: an experimental study. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4951-4968.	1.9	10
31	Optical and geometrical aerosol particle properties over the United Arab Emirates. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8909-8922.	1.9	29
32	The Contribution of Black Carbon and Non-BC Absorbers on Aerosol Absorption Coefficient in Nanjing, China. <i>Aerosol and Air Quality Research</i> , 2020, , .	0.9	4
33	Airborne Pollen Observed by PollyXT Raman Lidar at Finokalia, Crete. <i>EPJ Web of Conferences</i> , 2020, 237, 02005.	0.1	0
34	Aerosol Typing Based on Multiwavelength Lidar Observations and Meteorological Model Data. <i>EPJ Web of Conferences</i> , 2020, 237, 08003.	0.1	0
35	In situ cloud ground-based measurements in the Finnish sub-Arctic: intercomparison of three cloud spectrometer setups. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5129-5147.	1.2	6
36	The Mineral Aerosol Profiling from Infrared Radiances (MAPIR) algorithm: version 4.1 description and evaluation. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3673-3698.	1.2	12

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37	Association of Breastfeeding and Air Pollution Exposure With Lung Function in Chinese Children. <i>JAMA Network Open</i> , 2019, 2, e194186.	2.8	33
38	Planetary boundary layer height by means of lidar and numerical simulations over New Delhi, India. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 2595-2610.	1.2	23
39	Association of Long-term Exposure to Ambient Air Pollutants With Risk Factors for Cardiovascular Disease in China. <i>JAMA Network Open</i> , 2019, 2, e190318.	2.8	143
40	Detection and characterization of birch pollen in the atmosphere using a multiwavelength Raman polarization lidar and Hirst-type pollen sampler in Finland. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14559-14569.	1.9	24
41	PM <sub>2.5</sub> concentration and composition in the urban air of Nanjing, China: Effects of emission control measures applied during the 2014 Youth Olympic Games. <i>Science of the Total Environment</i> , 2019, 652, 1-18.	3.9	26
42	Ambient air pollution in relation to diabetes and glucose-homoeostasis markers in China: a cross-sectional study with findings from the 33 Communities Chinese Health Study. <i>Lancet Planetary Health</i> , The, 2018, 2, e64-e73.	5.1	164
43	A panel study of airborne particulate matter concentration and impaired cardiopulmonary function in young adults by two different exposure measurement. <i>Atmospheric Environment</i> , 2018, 180, 103-109.	1.9	16
44	PollyNET - an emerging network of automated raman-polarization lidars for continuous aerosolprofiling. <i>EPJ Web of Conferences</i> , 2018, 176, 09013.	0.1	1
45	Integrating farm and air pollution studies in search for immunoregulatory mechanisms operating in protective and high-risk environments. <i>Pediatric Allergy and Immunology</i> , 2018, 29, 815-822.	1.1	21
46	Emissions and atmospheric processes influence the chemical composition and toxicological properties of urban air particulate matter in Nanjing, China. <i>Science of the Total Environment</i> , 2018, 639, 1290-1310.	3.9	55
47	First results of cirrus clouds properties by means of a pollyxt raman lidar at two measurement sites. <i>EPJ Web of Conferences</i> , 2018, 176, 05031.	0.1	1
48	Is smaller worse? New insights about associations of PM <sub>1</sub> and respiratory health in children and adolescents. <i>Environment International</i> , 2018, 120, 516-524.	4.8	68
49	Estimation of atmospheric particle formation rates through an analytical formula: validation and application in Hyytiälä and Puijo, Finland. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13361-13371.	1.9	1
50	Aerosol-landscape-cloud interaction: signatures of topography effect on cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7955-7964.	1.9	4
51	Profiling water vapor mixing ratios in Finland by means of a Raman lidar, a satellite and a model. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4303-4316.	1.2	17
52	The automated multiwavelength Raman polarization and water-vapor lidar PollyXT; the neXT generation. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1767-1784.	1.2	249
53	BAECC: A Field Campaign to Elucidate the Impact of Biogenic Aerosols on Clouds and Climate. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1909-1928.	1.7	71
54	Optical and microphysical characterization of aerosol layers over South Africa by means of multi-wavelength depolarization and Raman lidar measurements. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8109-8123.	1.9	51

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55	In-cloud measurements highlight the role of aerosol hygroscopicity in cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10385-10398.	1.9	24
56	Transformation of logwood combustion emissions in a smog chamber: formation of secondary organic aerosol and changes in the primary organic aerosol upon daytime and nighttime aging. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13251-13269.	1.9	76
57	An overview of the first decade of Polly&lt;sup&gt;NET&lt;/sup&gt;; an emerging network of automated Raman-polarization lidars for continuous aerosol profiling. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5111-5137.	1.9	212
58	Wind speed modeling using a vector autoregressive process with a time-dependent intercept term. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 77, 91-99.	3.3	24
59	Role of microbial and chemical composition in toxicological properties of indoor and outdoor air particulate matter. <i>Particle and Fibre Toxicology</i> , 2014, 11, 60.	2.8	32
60	Representing situational knowledge acquired from sensor data for atmospheric phenomena. <i>Environmental Modelling and Software</i> , 2014, 58, 27-47.	1.9	15
61	Aerosol Chemical Composition in Cloud Events by High Resolution Time-of-Flight Aerosol Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2013, 47, 2645-2653.	4.6	40
62	Long-term measurements of cloud droplet concentrations and aerosolâ€œcloud interactions in continental boundary layer clouds. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2013, 65, 20138.	0.8	30
63	PollyNET: a network of multiwavelength polarization Raman lidars. , 2013, , .		12
64	Biomass Burning Aerosols Observed in Northern Finland during the 2010 Wildfires in Russia. <i>Atmosphere</i> , 2013, 4, 17-34.	1.0	18
65	Characterization of Chemical and Microbial Species from Size-Segregated Indoor and Outdoor Particulate Samples. <i>Aerosol and Air Quality Research</i> , 2013, 13, 1212-1230.	0.9	16
66	Portable Raman Lidar PollyXT for Automated Profiling of Aerosol Backscatter, Extinction, and Depolarization. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 2366-2378.	0.5	145
67	Parameterization of cloud droplet activation using a simplified treatment of the aerosol number size distribution. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
68	Particle number to volume concentration ratios at two measurement sites in Finland. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	2
69	Aerosol size distribution measurements at four Nordic field stations: identification, analysis and trajectory analysis of new particle formation bursts. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 350-361.	0.8	131
70	Using Aerosol Number to Volume Ratio in Predicting Cloud Droplet Number Concentration. , 2007, , 551-555.		2
71	Measurements of cloud droplet activation of aerosol particles at a clean subarctic background site. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	93
72	Direct observational evidence linking atmospheric aerosol formation and cloud droplet activation. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	195

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73	Diurnal and annual characteristics of particle mass and number concentrations in urban, rural and Arctic environments in Finland. <i>Atmospheric Environment</i> , 2003, 37, 2629-2641.	1.9	167