

Minna Aurela

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,798
citations

279487

23
h-index

276539

41
g-index

63
all docs

63
docs citations

63
times ranked

2469
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Sources of organic carbon in fine particulate matter in northern European urban air. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6281-6295. | 1.9 | 258 |
| 2 | Size and Composition of Airborne Particles from Pavement Wear, Tires, and Traction Sanding. <i>Environmental Science & Technology</i> , 2005, 39, 699-706. | 4.6 | 160 |
| 3 | Hygroscopicity and chemical composition of Antarctic sub-micrometre aerosol particles and observations of new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4253-4271. | 1.9 | 126 |
| 4 | Characteristics and source apportionment of black carbon in the Helsinki metropolitan area, Finland. <i>Atmospheric Environment</i> , 2018, 190, 87-98. | 1.9 | 118 |
| 5 | Source apportionment of particle number size distribution in urban background and traffic stations in four European cities. <i>Environment International</i> , 2020, 135, 105345. | 4.8 | 106 |
| 6 | Chemical composition of fine particles in fresh smoke plumes from boreal wild-land fires in Europe. <i>Science of the Total Environment</i> , 2010, 408, 2527-2542. | 3.9 | 90 |
| 7 | Characteristics, sources and water-solubility of ambient submicron organic aerosol in springtime in Helsinki, Finland. <i>Journal of Aerosol Science</i> , 2013, 56, 61-77. | 1.8 | 89 |
| 8 | Laboratory evaluation of particle-size selectivity of optical low-cost particulate matter sensors. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2413-2423. | 1.2 | 88 |
| 9 | High-performance anion-exchange chromatography–mass spectrometry method for determination of levoglucosan, mannosan, and galactosan in atmospheric fine particulate matter. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2253-2264. | 1.9 | 69 |
| 10 | Long-range transport episodes of fine particles in southern Finland during 1999–2007. <i>Atmospheric Environment</i> , 2009, 43, 1255-1264. | 1.9 | 63 |
| 11 | Physical and chemical characterization of urban winter-time aerosols by mobile measurements in Helsinki, Finland. <i>Atmospheric Environment</i> , 2017, 158, 60-75. | 1.9 | 38 |
| 12 | Characterization of laboratory and real driving emissions of individual Euro 6 light-duty vehicles – Fresh particles and secondary aerosol formation. <i>Environmental Pollution</i> , 2019, 255, 113175. | 3.7 | 38 |
| 13 | Variation of Absorption Ångström Exponent in Aerosols From Different Emission Sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034094. | 1.2 | 37 |
| 14 | Traffic-originated nanocluster emission exceeds H ₂ SO ₄ -driven photochemical new particle formation in an urban area. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1-13. | 1.9 | 36 |
| 15 | Long-term sensor measurements of lung deposited surface area of particulate matter emitted from local vehicular and residential wood combustion sources. <i>Aerosol Science and Technology</i> , 2020, 54, 190-202. | 1.5 | 35 |
| 16 | Spatiotemporal variation and trends in equivalent black carbon in the Helsinki metropolitan area in Finland. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1173-1189. | 1.9 | 33 |
| 17 | Chemical composition of atmospheric aerosol in the European subarctic: Contribution of the Kola Peninsula smelter areas, central Europe, and the Arctic Ocean. <i>Journal of Geophysical Research</i> , 1999, 104, 23681-23696. | 3.3 | 32 |
| 18 | Carbonaceous aerosol at a forested and an urban background sites in Southern Finland. <i>Atmospheric Environment</i> , 2011, 45, 1394-1401. | 1.9 | 31 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Physical Characteristics of Particle Emissions from a Medium Speed Ship Engine Fueled with Natural Gas and Low-Sulfur Liquid Fuels. <i>Environmental Science & Technology</i> , 2020, 54, 5376-5384. | 4.6 | 30 |
| 20 | Chemical and Source Characterization of Submicron Particles at Residential and Traffic Sites in the Helsinki Metropolitan Area, Finland. <i>Aerosol and Air Quality Research</i> , 2015, 15, 1213-1226. | 0.9 | 29 |
| 21 | Wintertime Aerosol Chemistry in Sub-Arctic Urban Air. <i>Aerosol Science and Technology</i> , 2014, 48, 313-323. | 1.5 | 26 |
| 22 | Long-term sub-micrometer aerosol chemical composition in the boreal forest: inter- and intra-annual variability. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3151-3180. | 1.9 | 26 |
| 23 | In-depth characterization of submicron particulate matter inter-annual variations at a street canyon site in northern Europe. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6297-6314. | 1.9 | 25 |
| 24 | Sources of black carbon at residential and traffic environments obtained by two source apportionment methods. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14851-14869. | 1.9 | 25 |
| 25 | Applicability of Optical and Diffusion Charging-Based Particulate Matter Sensors to Urban Air Quality Measurements. <i>Aerosol and Air Quality Research</i> , 2019, 19, 1024-1039. | 0.9 | 22 |
| 26 | Utilization of scattering and absorption-based particulate matter sensors in the environment impacted by residential wood combustion. <i>Journal of Aerosol Science</i> , 2020, 150, 105671. | 1.8 | 20 |
| 27 | Considerations in analysing elemental carbon from marine engine exhaust using residual, distillate and biofuels. <i>Journal of Aerosol Science</i> , 2018, 126, 191-204. | 1.8 | 16 |
| 28 | Black carbon toxicity dependence on particle coating: Measurements with a novel cell exposure method. <i>Science of the Total Environment</i> , 2022, 838, 156543. | 3.9 | 16 |
| 29 | composition of ambient and fresh biomass burning aerosols at a savannah site, South Africa. <i>South African Journal of Science</i> , 2016, 112, 8. | 0.3 | 14 |
| 30 | Trends and source apportionment of atmospheric heavy metals at a subarctic site during 1996–2018. <i>Atmospheric Environment</i> , 2020, 236, 117644. | 1.9 | 13 |
| 31 | Measurement report: The influence of traffic and new particle formation on the size distribution of 1–800 nm particles in Helsinki – a street canyon and an urban background station comparison. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9931-9953. | 1.9 | 13 |
| 32 | Experimental and numerical analysis of fine particle and soot formation in a modern 100 MW pulverized biomass heating plant. <i>Combustion and Flame</i> , 2022, 240, 111960. | 2.8 | 13 |
| 33 | Household solid waste combustion with wood increases particulate trace metal and lung deposited surface area emissions. <i>Journal of Environmental Management</i> , 2021, 293, 112793. | 3.8 | 12 |
| 34 | Sampling, Filtering, and Analysis Protocols to Detect Black Carbon, Organic Carbon, and Total Carbon in Seasonal Surface Snow in an Urban Background and Arctic Finland (60° N). <i>Atmosphere</i> , 2020, 11, 923. | 1.0 | 10 |
| 35 | Emission measurements with gravimetric impactors and electrical devices: An aerosol instrument comparison. <i>Aerosol Science and Technology</i> , 2019, 53, 526-539. | 1.5 | 8 |
| 36 | Investigation of new particle formation mechanisms and aerosol processes at Marambio Station, Antarctic Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8417-8437. | 1.9 | 7 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | 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 |
| 38 | Suitability of Different Methods for Measuring Black Carbon Emissions from Marine Engines. <i>Atmosphere</i> , 2022, 13, 31. | 1.0 | 5 |
| 39 | Laboratory and field evaluation of the Aerosol Dynamics Inc. concentrator (ADIC) for aerosol mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3907-3920. | 1.2 | 3 |
| 40 | Characterization of particle sources and comparison of different particle metrics in an urban detached housing area, Finland. <i>Atmospheric Environment</i> , 2022, 272, 118939. | 1.9 | 3 |
| 41 | Exhaust emissions from a prototype non-road natural gas engine. <i>Fuel</i> , 2022, 316, 123387. | 3.4 | 2 |
| 42 | Chemical and physical characterization of oil shale combustion emissions in Estonia. <i>Atmospheric Environment: X</i> , 2021, 12, 100139. | 0.8 | 1 |
| 43 | Intercomparison Experiment of Water-Insoluble Carbonaceous Particles in Snow in a High-Mountain Environment (1598 m a.s.l.). <i>Geosciences (Switzerland)</i> , 2022, 12, 197. | 1.0 | 1 |