

Markku Kulmala

List of Publications by Year in descending order

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1,285
papers

91,864
citations

435

131
h-index

1222

227
g-index

1829
all docs

1829
docs citations

1829
times ranked

24601
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Organic Aerosols in the Atmosphere. <i>Science</i> , 2009, 326, 1525-1529.	12.6	3,374
2	Formation and growth rates of ultrafine atmospheric particles: a review of observations. <i>Journal of Aerosol Science</i> , 2004, 35, 143-176.	3.8	2,034
3	Flood or Drought: How Do Aerosols Affect Precipitation?. <i>Science</i> , 2008, 321, 1309-1313.	12.6	1,682
4	A large source of low-volatility secondary organic aerosol. <i>Nature</i> , 2014, 506, 476-479.	27.8	1,448
5	Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. <i>Nature</i> , 2011, 476, 429-433.	27.8	1,114
6	Direct Observations of Atmospheric Aerosol Nucleation. <i>Science</i> , 2013, 339, 943-946.	12.6	876
7	Molecular understanding of sulphuric acid–amine particle nucleation in the atmosphere. <i>Nature</i> , 2013, 502, 359-363.	27.8	774
8	An amorphous solid state of biogenic secondary organic aerosol particles. <i>Nature</i> , 2010, 467, 824-827.	27.8	719
9	Atmospheric composition change – global and regional air quality. <i>Atmospheric Environment</i> , 2009, 43, 5268-5350.	4.1	714
10	Marine aerosol formation from biogenic iodine emissions. <i>Nature</i> , 2002, 417, 632-636.	27.8	705
11	The Role of Sulfuric Acid in Atmospheric Nucleation. <i>Science</i> , 2010, 327, 1243-1246.	12.6	694
12	Enhanced haze pollution by black carbon in megacities in China. <i>Geophysical Research Letters</i> , 2016, 43, 2873-2879.	4.0	590
13	Stable sulphate clusters as a source of new atmospheric particles. <i>Nature</i> , 2000, 404, 66-69.	27.8	584
14	A review of natural aerosol interactions and feedbacks within the Earth system. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1701-1737.	4.9	542
15	The role of low-volatility organic compounds in initial particle growth in the atmosphere. <i>Nature</i> , 2016, 533, 527-531.	27.8	540
16	Ion-induced nucleation of pure biogenic particles. <i>Nature</i> , 2016, 533, 521-526.	27.8	528
17	An improved parameterization for sulfuric acid–water nucleation rates for tropospheric and stratospheric conditions. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 3-1.	3.3	492
18	Terrestrial biogeochemical feedbacks in the climate system. <i>Nature Geoscience</i> , 2010, 3, 525-532.	12.9	486

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19	Ultrafine particles in cities. <i>Environment International</i> , 2014, 66, 1-10.	10.0	483
20	Toward Direct Measurement of Atmospheric Nucleation. <i>Science</i> , 2007, 318, 89-92.	12.6	478
21	ATMOSPHERIC SCIENCE: How Particles Nucleate and Grow. <i>Science</i> , 2003, 302, 1000-1001.	12.6	466
22	Cluster activation theory as an explanation of the linear dependence between formation rate of 3nm particles and sulphuric acid concentration. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 787-793.	4.9	466
23	A new atmospherically relevant oxidant of sulphur dioxide. <i>Nature</i> , 2012, 488, 193-196.	27.8	465
24	Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. <i>Chemical Reviews</i> , 2019, 119, 3472-3509.	47.7	460
25	Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. <i>Science</i> , 2014, 344, 717-721.	12.6	456
26	High Natural Aerosol Loading over Boreal Forests. <i>Science</i> , 2006, 312, 261-263.	12.6	447
27	Critical assessment of the current state of scientific knowledge, terminology, and research needs concerning the role of organic aerosols in the atmosphere, climate, and global change. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2017-2038.	4.9	447
28	Atmospheric sulphuric acid and aerosol formation: implications from atmospheric measurements for nucleation and early growth mechanisms. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4079-4091.	4.9	444
29	A high-resolution mass spectrometer to measure atmospheric ion composition. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1039-1053.	3.1	436
30	Measurement of the nucleation of atmospheric aerosol particles. <i>Nature Protocols</i> , 2012, 7, 1651-1667.	12.0	435
31	Amines are likely to enhance neutral and ion-induced sulfuric acid-water nucleation in the atmosphere more effectively than ammonia. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4095-4103.	4.9	424
32	Observations of aminium salts in atmospheric nanoparticles and possible climatic implications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6634-6639.	7.1	415
33	Atmospheric new particle formation from sulfuric acid and amines in a Chinese megacity. <i>Science</i> , 2018, 361, 278-281.	12.6	415
34	On the formation and growth of atmospheric nanoparticles. <i>Atmospheric Research</i> , 2008, 90, 132-150.	4.1	414
35	Evidence for the role of organics in aerosol particle formation under atmospheric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6646-6651.	7.1	403
36	Hygroscopic properties of submicrometer atmospheric aerosol particles measured with H-TDMA instruments in various environments—a review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 432.	1.6	401

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37	Contribution of particle formation to global cloud condensation nuclei concentrations. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	400
38	Atmospheric particles from organic vapours. <i>Nature</i> , 2002, 416, 497-498.	27.8	395
39	Atmospheric sulphuric acid and neutral cluster measurements using CI-API-TOF. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4117-4125.	4.9	393
40	Organic condensation: a vital link connecting aerosol formation to cloud condensation nuclei (CCN) concentrations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3865-3878.	4.9	392
41	Parameterizations for sulfuric acid/water nucleation rates. <i>Journal of Geophysical Research</i> , 1998, 103, 8301-8307.	3.3	389
42	The contribution of boundary layer nucleation events to total particle concentrations on regional and global scales. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5631-5648.	4.9	364
43	An overview of current issues in the uptake of atmospheric trace gases by aerosols and clouds. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10561-10605.	4.9	352
44	Ozone and fine particle in the western Yangtze River Delta: an overview of 1 yr data at the SORPES station. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5813-5830.	4.9	352
45	The contribution of organics to atmospheric nanoparticle growth. <i>Nature Geoscience</i> , 2012, 5, 453-458.	12.9	350
46	Sulfuric acid and OH concentrations in a boreal forest site. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7435-7448.	4.9	348
47	New particle formation in the free troposphere: A question of chemistry and timing. <i>Science</i> , 2016, 352, 1109-1112.	12.6	348
48	Analytical formulae connecting the "real" and the "apparent" nucleation rate and the nuclei number concentration for atmospheric nucleation events. <i>Journal of Aerosol Science</i> , 2002, 33, 609-622.	3.8	344
49	A new feedback mechanism linking forests, aerosols, and climate. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 557-562.	4.9	337
50	Production of extremely low volatile organic compounds from biogenic emissions: Measured yields and atmospheric implications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7123-7128.	7.1	337
51	Connections between atmospheric sulphuric acid and new particle formation during QUEST III&IV campaigns in Heidelberg and HyytiÄ. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1899-1914.	4.9	329
52	Secondary organic aerosol formation in the atmosphere via heterogeneous reaction of gaseous isoprene on acidic particles. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	325
53	On the formation, growth and composition of nucleation mode particles. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 53, 479.	1.6	324
54	Global observations of aerosol-cloud-precipitation-climate interactions. <i>Reviews of Geophysics</i> , 2014, 52, 750-808.	23.0	316

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55	Organic aerosol components derived from 25 AMS data sets across Europe using a consistent ME-2 based source apportionment approach. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6159-6176.	4.9	308
56	Atmospheric new particle formation and growth: review of field observations. <i>Environmental Research Letters</i> , 2018, 13, 103003.	5.2	308
57	Ternary nucleation of H ₂ SO ₄ , NH ₃ , and H ₂ O in the atmosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 26349-26353.	3.3	307
58	Observations of ultrafine aerosol particle formation and growth in boreal forest. <i>Geophysical Research Letters</i> , 1997, 24, 1219-1222.	4.0	300
59	Molecular understanding of atmospheric particle formation from sulfuric acid and large oxidized organic molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17223-17228.	7.1	300
60	Global atmospheric particle formation from CERN CLOUD measurements. <i>Science</i> , 2016, 354, 1119-1124.	12.6	289
61	Intense atmospheric pollution modifies weather: a case of mixed biomass burning with fossil fuel combustion pollution in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10545-10554.	4.9	286
62	Cloud condensation nuclei production associated with atmospheric nucleation: a synthesis based on existing literature and new results. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 12037-12059.	4.9	285
63	Enhanced air pollution via aerosol-boundary layer feedback in China. <i>Scientific Reports</i> , 2016, 6, 18998.	3.3	285
64	Contrasting trends of PM _{2.5} and surface-ozone concentrations in China from 2013 to 2017. <i>National Science Review</i> , 2020, 7, 1331-1339.	9.5	284
65	Particle Size Magnifier for Nano-CN Detection. <i>Aerosol Science and Technology</i> , 2011, 45, 533-542.	3.1	283
66	Warming-induced increase in aerosol number concentration likely to moderate climate change. <i>Nature Geoscience</i> , 2013, 6, 438-442.	12.9	282
67	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13061-13143.	4.9	278
68	On the roles of sulphuric acid and low-volatility organic vapours in the initial steps of atmospheric new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11223-11242.	4.9	262
69	New particle formation in Beijing, China: Statistical analysis of a 1-year data set. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	257
70	Relationship between aerosol oxidation level and hygroscopic properties of laboratory generated secondary organic aerosol (SOA) particles. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	257
71	Temperature and light dependence of the VOC emissions of Scots pine. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 989-998.	4.9	255
72	Particulate matter pollution over China and the effects of control policies. <i>Science of the Total Environment</i> , 2017, 584-585, 426-447.	8.0	252

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73	Ambient Air Pollution Is Associated With Increased Risk of Hospital Cardiac Readmissions of Myocardial Infarction Survivors in Five European Cities. <i>Circulation</i> , 2005, 112, 3073-3079.	1.6	250
74	Urban aerosol number size distributions. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 391-411.	4.9	248
75	EUCAARI ion spectrometer measurements at 12 European sites – analysis of new particle formation events. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7907-7927.	4.9	248
76	Enhancing effect of dimethylamine in sulfuric acid nucleation in the presence of water – a computational study. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4961-4974.	4.9	245
77	Chemistry of Atmospheric Nucleation: On the Recent Advances on Precursor Characterization and Atmospheric Cluster Composition in Connection with Atmospheric New Particle Formation. <i>Annual Review of Physical Chemistry</i> , 2014, 65, 21-37.	10.8	242
78	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO ₃ . <i>Nature</i> , 2016, 537, 532-534.	27.8	237
79	Parametrization of ternary nucleation rates for H ₂ SO ₄ -NH ₃ -H ₂ O vapors. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 6-1.	3.3	235
80	Heterogeneous Nucleation Experiments Bridging the Scale from Molecular Ion Clusters to Nanoparticles. <i>Science</i> , 2008, 319, 1374-1377.	12.6	232
81	On the formation, growth and composition of nucleation mode particles. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001, 53, 479-490.	1.6	231
82	Atmospheric ions and nucleation: a review of observations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 767-798.	4.9	228
83	Atmospheric Cluster Dynamics Code: a flexible method for solution of the birth-death equations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2345-2355.	4.9	226
84	Gas phase formation of extremely oxidized pinene reaction products in chamber and ambient air. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5113-5127.	4.9	222
85	On the formation, growth and composition of nucleation mode particles. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001, 53, 479-490.	1.6	221
86	Particle size characterization and emission rates during indoor activities in a house. <i>Atmospheric Environment</i> , 2006, 40, 4285-4307.	4.1	220
87	Number size distributions and seasonality of submicron particles in Europe 2008–2009. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5505-5538.	4.9	214
88	Physical characterization of aerosol particles during nucleation events. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001, 53, 344-358.	1.6	212
89	Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4775-4793.	4.9	212
90	Overview of the international project on biogenic aerosol formation in the boreal forest (BIOFOR). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 53, 324.	1.6	209

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91	Seasonal variation of mono- and sesquiterpene emission rates of Scots pine. <i>Biogeosciences</i> , 2006, 3, 93-101.	3.3	208
92	Neutral molecular cluster formation of sulfuric acid–dimethylamine observed in real time under atmospheric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15019-15024.	7.1	208
93	Initial steps of aerosol growth. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 2553-2560.	4.9	207
94	Condensation and coagulation sinks and formation of nucleation mode particles in coastal and boreal forest boundary layers. <i>Journal of Geophysical Research</i> , 2002, 107, PAR 2-1.	3.3	205
95	On the growth of nucleation mode particles: source rates of condensable vapor in polluted and clean environments. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 409-416.	4.9	205
96	Chemical composition and mass closure of particulate matter at six urban sites in Europe. <i>Atmospheric Environment</i> , 2006, 40, 212-223.	4.1	203
97	The role of VOC oxidation products in continental new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2657-2665.	4.9	202
98	Urban air pollution, and asthma and COPD hospital emergency room visits. <i>Thorax</i> , 2008, 63, 635-641.	5.6	201
99	Particulate Air Pollution and Acute Cardiorespiratory Hospital Admissions and Mortality Among the Elderly. <i>Epidemiology</i> , 2009, 20, 143-153.	2.7	201
100	Causes and importance of new particle formation in the present-day and preindustrial atmospheres. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8739-8760.	3.3	198
101	On the photochemical production of new particles in the coastal boundary layer. <i>Geophysical Research Letters</i> , 1999, 26, 1707-1710.	4.0	197
102	Introduction: European Integrated Project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2825-2841.	4.9	196
103	Saturation Vapor Pressures and Transition Enthalpies of Low-Volatility Organic Molecules of Atmospheric Relevance: From Dicarboxylic Acids to Complex Mixtures. <i>Chemical Reviews</i> , 2015, 115, 4115-4156.	47.7	196
104	Direct observational evidence linking atmospheric aerosol formation and cloud droplet activation. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	195
105	Laboratory study on new particle formation from the reaction $\text{OH} + \text{SO}_2$: influence of experimental conditions, H_2O vapour, NH_3 and the amine tert-butylamine on the overall process. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7101-7116.	4.9	194
106	Binary nucleation of water–sulfuric acid system: Comparison of classical theories with different H_2SO_4 saturation vapor pressures. <i>Journal of Chemical Physics</i> , 1990, 93, 696-701.	3.0	189
107	Rapid Autoxidation Forms Highly Oxidized RO_2 Radicals in the Atmosphere. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14596-14600.	13.8	186
108	Rapid Formation of Sulfuric Acid Particles at Near-Atmospheric Conditions. <i>Science</i> , 2005, 307, 698-700.	12.6	182

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109	Nucleation and growth of new particles in Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 355-376.	4.9	179
110	Technical Note: Quantitative long-term measurements of VOC concentrations by PTR-MS – measurement, calibration, and volume mixing ratio calculation methods. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6681-6698.	4.9	179
111	Modification of the Köhler Equation to Include Soluble Trace Gases and Slightly Soluble Substances. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 853-862.	1.7	178
112	Sulphuric acid closure and contribution to nucleation mode particle growth. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 863-878.	4.9	178
113	Associations of Fine and Ultrafine Particulate Air Pollution With Stroke Mortality in an Area of Low Air Pollution Levels. <i>Stroke</i> , 2007, 38, 918-922.	2.0	178
114	Hydroxyl radical-induced formation of highly oxidized organic compounds. <i>Nature Communications</i> , 2016, 7, 13677.	12.8	178
115	Analysis of the growth of nucleation mode particles observed in Boreal forest. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1998, 50, 449-462.	1.6	177
116	Can chemical effects on cloud droplet number rival the first indirect effect?. <i>Geophysical Research Letters</i> , 2002, 29, 29-1-29-4.	4.0	176
117	Organic aerosol formation via sulphate cluster activation. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	175
118	Rapid changes in biomass burning aerosols by atmospheric oxidation. <i>Geophysical Research Letters</i> , 2014, 41, 2644-2651.	4.0	175
119	The direct and indirect radiative effects of biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 447-470.	4.9	175
120	Growth rates of nucleation mode particles in Hyytiälä during 2003~2009: variation with particle size, season, data analysis method and ambient conditions. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12865-12886.	4.9	173
121	Estimating nucleation rates from apparent particle formation rates and vice versa: Revised formulation of the Kerminen–Kulmala equation. <i>Journal of Aerosol Science</i> , 2007, 38, 988-994.	3.8	172
122	ATMOSPHERIC SCIENCE: Reshaping the Theory of Cloud Formation. <i>Science</i> , 2001, 292, 2025-2026.	12.6	172
123	Composition and temporal behavior of ambient ions in the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8513-8530.	4.9	170
124	Nucleation events in the continental boundary layer: Influence of physical and meteorological parameters. <i>Atmospheric Chemistry and Physics</i> , 2002, 2, 1-16.	4.9	169
125	Observation of 2-methyltetrols and related photo-oxidation products of isoprene in boreal forest aerosols from Hyytiälä, Finland. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 2761-2770.	4.9	169
126	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. <i>Nature</i> , 2020, 581, 184-189.	27.8	169

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127	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.	4.1	167
128	A model for particle formation and growth in the atmosphere with molecular resolution in size. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 251-257.	4.9	167
129	A dedicated study of New Particle Formation and Fate in the Coastal Environment (PARFORCE): Overview of objectives and achievements. <i>Journal of Geophysical Research</i> , 2002, 107, PAR 1-1.	3.3	165
130	FORMATION OF SULPHURIC ACID AEROSOLS AND CLOUD CONDENSATION NUCLEI: AN EXPRESSION FOR SIGNIFICANT NUCLEATION AND MODEL COMPARISON. <i>Journal of Aerosol Science</i> , 1999, 30, 1079-1094.	3.8	164
131	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , 2018, 4, eaau5363.	10.3	164
132	Meteorological dependence of size-fractionated number concentrations of urban aerosol particles. <i>Atmospheric Environment</i> , 2006, 40, 1427-1440.	4.1	160
133	Quantification of the volatility of secondary organic compounds in ultrafine particles during nucleation events. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9019-9036.	4.9	160
134	Measurements in a highly polluted Asian mega city: observations of aerosol number size distribution, modal parameters and nucleation events. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 57-66.	4.9	158
135	Effect of thinning on surface fluxes in a boreal forest. <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	4.9	157
136	Sensitivity of aerosol concentrations and cloud properties to nucleation and secondary organic distribution in ECHAM5-HAM global circulation model. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1747-1766.	4.9	153
137	An improved criterion for new particle formation in diverse atmospheric environments. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8469-8480.	4.9	151
138	Ultrafine particle scavenging coefficients calculated from 6 years field measurements. <i>Atmospheric Environment</i> , 2003, 37, 3605-3613.	4.1	150
139	Size and composition measurements of background aerosol and new particle growth in a Finnish forest during QUEST 2 using an Aerodyne Aerosol Mass Spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 315-327.	4.9	150
140	Indoor-outdoor relationships of particle number and mass in four European cities. <i>Atmospheric Environment</i> , 2008, 42, 156-169.	4.1	150
141	Air pollution control and decreasing new particle formation lead to strong climate warming. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1515-1524.	4.9	150
142	Sub-10 nm particle growth by vapor condensation - effects of vapor molecule size and particle thermal speed. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9773-9779.	4.9	149
143	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4679-4713.	4.9	148
144	Strong atmospheric new particle formation in winter in urban Shanghai, China. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1769-1781.	4.9	147

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145	The condensation particle counter battery (CPCB): A new tool to investigate the activation properties of nanoparticles. <i>Journal of Aerosol Science</i> , 2007, 38, 289-304.	3.8	145
146	Atmospheric nucleation: highlights of the EUCAARI project and future directions. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10829-10848.	4.9	144
147	Highly Oxidized Multifunctional Organic Compounds Observed in Tropospheric Particles: A Field and Laboratory Study. <i>Environmental Science & Technology</i> , 2015, 49, 7754-7761.	10.0	143
148	Physical characterization of aerosol particles during nucleation events. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001, 53, 344-358.	1.6	142
149	Analysis of the growth of nucleation mode particles observed in Boreal forest. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 50, 449.	1.6	140
150	Adsorptive uptake of water by semisolid secondary organic aerosols. <i>Geophysical Research Letters</i> , 2015, 42, 3063-3068.	4.0	139
151	Multicomponent aerosol dynamics model UHMA: model development and validation. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 757-771.	4.9	138
152	A review of measurement and modelling results of particle atmosphere-surface exchange. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 42.	1.6	138
153	The effect of atmospheric nitric acid vapor on cloud condensation nucleus activation. <i>Journal of Geophysical Research</i> , 1993, 98, 22949-22958.	3.3	137
154	Gas-aerosol relationships of H ₂ SO ₄ , MSA, and OH: Observations in the coastal marine boundary layer at Mace Head, Ireland. <i>Journal of Geophysical Research</i> , 2002, 107, PAR 5-1.	3.3	137
155	Indoor air measurement campaign in Helsinki, Finland 1999 - the effect of outdoor air pollution on indoor air. <i>Atmospheric Environment</i> , 2001, 35, 1465-1477.	4.1	133
156	Accretion Product Formation from Self- and Cross-Reactions of RO ₂ Radicals in the Atmosphere. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3820-3824.	13.8	133
157	Physical characterization of aerosol particles during nucleation events. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 53, 344.	1.6	131
158	Model studies on ion-induced nucleation in the atmosphere. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 5-1.	3.3	131
159	Hydrocarbon fluxes above a Scots pine forest canopy: measurements and modeling. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3361-3372.	4.9	131
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1280	Experimental determination of ventilation coefficient for 1-hexanol drops in air. , 1996, , 941-943.		0
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