Markku Kulmala

List of Publications by Year
in descending order

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1,284	91,864	434	1220
papers	citations	131 h-index	227 g-index

1829	1829	1829	24601
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evolution of Organic Aerosols in the Atmosphere. Science, 2009, 326, 1525-1529.	6.0	3,374
2	Formation and growth rates of ultrafine atmospheric particles: a review of observations. Journal of Aerosol Science, 2004, 35, 143-176.	1.8	2,034
3	Flood or Drought: How Do Aerosols Affect Precipitation?. Science, 2008, 321, 1309-1313.	6.0	1,682
4	A large source of low-volatility secondary organic aerosol. Nature, 2014, 506, 476-479.	13.7	1,448
5	Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. Nature, 2011, 476, 429-433.	13.7	1,114
6	Direct Observations of Atmospheric Aerosol Nucleation. Science, 2013, 339, 943-946.	6.0	876
7	Molecular understanding of sulphuric acidâ€“amine particle nucleation in the atmosphere. Nature, 2013, 502, 359-363.	13.7	774
8	An amorphous solid state of biogenic secondary organic aerosol particles. Nature, 2010, 467, 824-827.	13.7	719
9	Atmospheric composition change â€“ global and regional air quality. Atmospheric Environment, 2009, 43, 5268-5350.	1.9	714
10	Marine aerosol formation from biogenic iodine emissions. Nature, 2002, 417, 632-636.	13.7	705
11	The Role of Sulfuric Acid in Atmospheric Nucleation. Science, 2010, 327, 1243-1246.	6.0	694
12	Enhanced haze pollution by black carbon in megacities in China. Geophysical Research Letters, 2016, 43, 2873-2879.	1.5	590
13	Stable sulphate clusters as a source of new atmospheric particles. Nature, 2000, 404, 66-69.	13.7	584
14	A review of natural aerosol interactions and feedbacks within the Earth system. Atmospheric Chemistry and Physics, 2010, 10, 1701-1737.	1.9	542
15	The role of low-volatility organic compounds in initial particle growth in the atmosphere. Nature, 2016, 533, 527-531.	13.7	540
16	Ion-induced nucleation of pure biogenic particles. Nature, 2016, 533, 521-526.	13.7	528
17	An improved parameterization for sulfuric acidâ€“water nucleation rates for tropospheric and stratospheric conditions. Journal of Geophysical Research, 2002, 107, AAC 3-1.	3.3	492
18	Terrestrial biogeochemical feedbacks in the climate system. Nature Geoscience, 2010, 3, 525-532.	5.4	486

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19	Ultrafine particles in cities. Environment International, 2014, 66, 1-10.	4.8	483
20	Toward Direct Measurement of Atmospheric Nucleation. Science, 2007, 318, 89-92.	6.0	478
21	ATMOSPHERIC SCIENCE: How Particles Nucleate and Grow. Science, 2003, 302, 1000-1001.	6.0	466
22	Cluster activation theory as an explanation of the linear dependence between formation rate of 3nm particles and sulphuric acid concentration. Atmospheric Chemistry and Physics, 2006, 6, 787-793.	1.9	466
23	A new atmospherically relevant oxidant of sulphur dioxide. Nature, 2012, 488, 193-196.	13.7	465
24	Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. Chemical Reviews, 2019, 119, 3472-3509.	23.0	460
25	Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. Science, 2014, 344, 717-721.	6.0	456
26	High Natural Aerosol Loading over Boreal Forests. Science, 2006, 312, 261-263.	6.0	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. Atmospheric Chemistry and Physics, 2006, 6, 2017-2038.	1.9	447
28	Atmospheric sulphuric acid and aerosol formation: implications from atmospheric measurements for nucleation and early growth mechanisms. Atmospheric Chemistry and Physics, 2006, 6, 4079-4091.	1.9	444
29	A high-resolution mass spectrometer to measure atmospheric ion composition. Atmospheric Measurement Techniques, 2010, 3, 1039-1053.	1.2	436
30	Measurement of the nucleation of atmospheric aerosol particles. Nature Protocols, 2012, 7, 1651-1667.	5.5	435
31	Amines are likely to enhance neutral and ion-induced sulfuric acid-water nucleation in the atmosphere more effectively than ammonia. Atmospheric Chemistry and Physics, 2008, 8, 4095-4103.	1.9	424
32	Observations of aminium salts in atmospheric nanoparticles and possible climatic implications. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6634-6639.	3.3	415
33	Atmospheric new particle formation from sulfuric acid and amines in a Chinese megacity. Science, 2018, 361, 278-281.	6.0	415
34	On the formation and growth of atmospheric nanoparticles. Atmospheric Research, 2008, 90, 132-150.	1.8	414
35	Evidence for the role of organics in aerosol particle formation under atmospheric conditions. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6646-6651.	3.3	403
36	Hygroscopic properties of submicrometer atmospheric aerosol particles measured with H-TDMA instruments in various environmentsâ€"a review. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 432.	0.8	401

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37	Contribution of particle formation to global cloud condensation nuclei concentrations. Geophysical Research Letters, 2008, 35, .	1.5	400
38	Atmospheric particles from organic vapours. Nature, 2002, 416, 497-498.	13.7	395
39	Atmospheric sulphuric acid and neutral cluster measurements using CI-APi-TOF. Atmospheric Chemistry and Physics, 2012, 12, 4117-4125.	1.9	393
40	Organic condensation: a vital link connecting aerosol formation to cloud condensation nuclei (CCN) concentrations. Atmospheric Chemistry and Physics, 2011, 11, 3865-3878.	1.9	392
41	Parameterizations for sulfuric acid/water nucleation rates. Journal of Geophysical Research, 1998, 103, 8301-8307.	3.3	389
42	The contribution of boundary layer nucleation events to total particle concentrations on regional and global scales. Atmospheric Chemistry and Physics, 2006, 6, 5631-5648.	1.9	364
43	An overview of current issues in the uptake of atmospheric trace gases by aerosols and clouds. Atmospheric Chemistry and Physics, 2010, 10, 10561-10605.	1.9	352
44	Ozone and fine particle in the western Yangtze River Delta: an overview of 1 yr data at the SORPES station. Atmospheric Chemistry and Physics, 2013, 13, 5813-5830.	1.9	352
45	The contribution of organics to atmospheric nanoparticle growth. Nature Geoscience, 2012, 5, 453-458.	5.4	350
46	Sulfuric acid and OH concentrations in a boreal forest site. Atmospheric Chemistry and Physics, 2009, 9, 7435-7448.	1.9	348
47	New particle formation in the free troposphere: A question of chemistry and timing. Science, 2016, 352, 1109-1112.	6.0	348
48	Analytical formulae connecting the â€œrealâ€•and the â€œapparentâ€•nucleation rate and the nuclei number concentration for atmospheric nucleation events. Journal of Aerosol Science, 2002, 33, 609-622.	1.8	344
49	A new feedback mechanism linking forests, aerosols, and climate. Atmospheric Chemistry and Physics, 2004, 4, 557-562.	1.9	337
50	Production of extremely low volatile organic compounds from biogenic emissions: Measured yields and atmospheric implications. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7123-7128.	3.3	337
51	Connections between atmospheric sulphuric acid and new particle formation during QUEST IIIâ€“IV campaigns in Heidelberg and HyytiÃlÃ. Atmospheric Chemistry and Physics, 2007, 7, 1899-1914.	1.9	329
52	Secondary organic aerosol formation in the atmosphere via heterogeneous reaction of gaseous isoprene on acidic particles. Geophysical Research Letters, 2003, 30, .	1.5	325
53	On the formation, growth and composition of nucleation mode particles. Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 479.	0.8	324
54	Global observations of aerosol-cloud-precipitation-climate interactions. Reviews of Geophysics, 2014, 52, 750-808.	9.0	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. Atmospheric Chemistry and Physics, 2014, 14, 6159-6176.	1.9	308
56	Atmospheric new particle formation and growth: review of field observations. Environmental Research Letters, 2018, 13, 103003.	2.2	308
57	Ternary nucleation of H2SO4, NH3, and H2O in the atmosphere. Journal of Geophysical Research, 1999, 104, 26349-26353.	3.3	307
58	Observations of ultrafine aerosol particle formation and growth in boreal forest. Geophysical Research Letters, 1997, 24, 1219-1222.	1.5	300
59	Molecular understanding of atmospheric particle formation from sulfuric acid and large oxidized organic molecules. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17223-17228.	3.3	300
60	Global atmospheric particle formation from CERN CLOUD measurements. Science, 2016, 354, 1119-1124.	6.0	289
61	Intense atmospheric pollution modifies weather: a case of mixed biomass burning with fossil fuel combustion pollution in eastern China. Atmospheric Chemistry and Physics, 2013, 13, 10545-10554.	1.9	286
62	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
63	Enhanced air pollution via aerosol-boundary layer feedback in China. Scientific Reports, 2016, 6, 18998.	1.6	285
64	Contrasting trends of PM2.5 and surface-ozone concentrations in China from 2013 to 2017. National Science Review, 2020, 7, 1331-1339.	4.6	284
65	Particle Size Magnifier for Nano-CN Detection. Aerosol Science and Technology, 2011, 45, 533-542.	1.5	283
66	Warming-induced increase in aerosol number concentration likely to moderate climate change. Nature Geoscience, 2013, 6, 438-442.	5.4	282
67	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	1.9	278
68	On the roles of sulphuric acid and low-volatility organic vapours in the initial steps of atmospheric new particle formation. Atmospheric Chemistry and Physics, 2010, 10, 11223-11242.	1.9	262
69	New particle formation in Beijing, China: Statistical analysis of a 1-year data set. Journal of Geophysical Research, 2007, 112, .	3.3	257
70	Relationship between aerosol oxidation level and hygroscopic properties of laboratory generated secondary organic aerosol (SOA) particles. Geophysical Research Letters, 2010, 37, .	1.5	257
71	Temperature and light dependence of the VOC emissions of Scots pine. Atmospheric Chemistry and Physics, 2005, 5, 989-998.	1.9	255
72	Particulate matter pollution over China and the effects of control policies. Science of the Total Environment, 2017, 584-585, 426-447.	3.9	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. Circulation, 2005, 112, 3073-3079.	1.6	250
74	Urban aerosol number size distributions. Atmospheric Chemistry and Physics, 2004, 4, 391-411.	1.9	248
75	EUCAARI ion spectrometer measurements at 12 European sites â€“ analysis of new particle formation events. Atmospheric Chemistry and Physics, 2010, 10, 7907-7927.	1.9	248
76	Enhancing effect of dimethylamine in sulfuric acid nucleation in the presence of water â€“ a computational study. Atmospheric Chemistry and Physics, 2010, 10, 4961-4974.	1.9	245
77	Chemistry of Atmospheric Nucleation: On the Recent Advances on Precursor Characterization and Atmospheric Cluster Composition in Connection with Atmospheric New Particle Formation. Annual Review of Physical Chemistry, 2014, 65, 21-37.	4.8	242
78	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO3. Nature, 2016, 537, 532-534.	13.7	237
79	Parametrization of ternary nucleation rates for H2SO4-NH3-H2O vapors. Journal of Geophysical Research, 2002, 107, AAC 6-1.	3.3	235
80	Heterogeneous Nucleation Experiments Bridging the Scale from Molecular Ion Clusters to Nanoparticles. Science, 2008, 319, 1374-1377.	6.0	232
81	On the formation, growth and composition of nucleation mode particles. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 479-490.	0.8	231
82	Atmospheric ions and nucleation: a review of observations. Atmospheric Chemistry and Physics, 2011, 11, 767-798.	1.9	228
83	Atmospheric Cluster Dynamics Code: a flexible method for solution of the birth-death equations. Atmospheric Chemistry and Physics, 2012, 12, 2345-2355.	1.9	226
84	Gas phase formation of extremely oxidized pinene reaction products in chamber and ambient air. Atmospheric Chemistry and Physics, 2012, 12, 5113-5127.	1.9	222
85	On the formation, growth and composition of nucleation mode particles. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 479-490.	0.8	221
86	Particle size characterization and emission rates during indoor activities in a house. Atmospheric Environment, 2006, 40, 4285-4307.	1.9	220
87	Number size distributions and seasonality of submicron particles in Europe 2008â€“2009. Atmospheric Chemistry and Physics, 2011, 11, 5505-5538.	1.9	214
88	Physical characterization of aerosol particles during nucleation events. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 344-358.	0.8	212
89	Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation. Atmospheric Chemistry and Physics, 2010, 10, 4775-4793.	1.9	212
90	Overview of the international project on biogenic aerosol formation in the boreal forest (BIOFOR). Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 324.	0.8	209

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91	Seasonal variation of mono- and sesquiterpene emission rates of Scots pine. Biogeosciences, 2006, 3, 93-101.	1.3	208
92	Neutral molecular cluster formation of sulfuric acidâ€“dimethylamine observed in real time under atmospheric conditions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15019-15024.	3.3	208
93	Initial steps of aerosol growth. Atmospheric Chemistry and Physics, 2004, 4, 2553-2560.	1.9	207
94	Condensation and coagulation sinks and formation of nucleation mode particles in coastal and boreal forest boundary layers. Journal of Geophysical Research, 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. Atmospheric Chemistry and Physics, 2005, 5, 409-416.	1.9	205
96	Chemical composition and mass closure of particulate matter at six urban sites in Europe. Atmospheric Environment, 2006, 40, 212-223.	1.9	203
97	The role of VOC oxidation products in continental new particle formation. Atmospheric Chemistry and Physics, 2008, 8, 2657-2665.	1.9	202
98	Urban air pollution, and asthma and COPD hospital emergency room visits. Thorax, 2008, 63, 635-641.	2.7	201
99	Particulate Air Pollution and Acute Cardiorespiratory Hospital Admissions and Mortality Among the Elderly. Epidemiology, 2009, 20, 143-153.	1.2	201
100	Causes and importance of new particle formation in the presentâ€day and preindustrial atmospheres. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8739-8760.	1.2	198
101	On the photochemical production of new particles in the coastal boundary layer. Geophysical Research Letters, 1999, 26, 1707-1710.	1.5	197
102	Introduction: European Integrated Project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2009, 9, 2825-2841.	1.9	196
103	Saturation Vapor Pressures and Transition Enthalpies of Low-Volatility Organic Molecules of Atmospheric Relevance: From Dicarboxylic Acids to Complex Mixtures. Chemical Reviews, 2015, 115, 4115-4156.	23.0	196
104	Direct observational evidence linking atmospheric aerosol formation and cloud droplet activation. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	195
105	Laboratory study on new particle formation from the reaction OH + SO₂: influence of experimental conditions, H₂O vapour, NH₃ and the amine tert-butylamine on the overall process. Atmospheric Chemistry and Physics, 2010, 10, 7101-7116.	1.9	194
106	Binary nucleation of waterâ€“sulfuric acid system: Comparison of classical theories with different H2SO4 saturation vapor pressures. Journal of Chemical Physics, 1990, 93, 696-701.	1.2	189
107	Rapid Autoxidation Forms Highly Oxidized RO₂ Radicals in the Atmosphere. Angewandte Chemie - International Edition, 2014, 53, 14596-14600.	7.2	186
108	Rapid Formation of Sulfuric Acid Particles at Near-Atmospheric Conditions. Science, 2005, 307, 698-700.	6.0	182

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109	Nucleation and growth of new particles in Po Valley, Italy. Atmospheric Chemistry and Physics, 2007, 7, 355-376.	1.9	179
110	Technical Note: Quantitative long-term measurements of VOC concentrations by PTR-MS â€“ measurement, calibration, and volume mixing ratio calculation methods. Atmospheric Chemistry and Physics, 2008, 8, 6681-6698.	1.9	179
111	Modification of the KÃ¶hler Equation to Include Soluble Trace Gases and Slightly Soluble Substances. Journals of the Atmospheric Sciences, 1998, 55, 853-862.	0.6	178
112	Sulphuric acid closure and contribution to nucleation mode particle growth. Atmospheric Chemistry and Physics, 2005, 5, 863-878.	1.9	178
113	Associations of Fine and Ultrafine Particulate Air Pollution With Stroke Mortality in an Area of Low Air Pollution Levels. Stroke, 2007, 38, 918-922.	1.0	178
114	Hydroxyl radical-induced formation of highly oxidized organic compounds. Nature Communications, 2016, 7, 13677.	5.8	178
115	Analysis of the growth of nucleation mode particles observed in Boreal forest. Tellus, Series B: Chemical and Physical Meteorology, 1998, 50, 449-462.	0.8	177
116	Can chemical effects on cloud droplet number rival the first indirect effect?. Geophysical Research Letters, 2002, 29, 29-1-29-4.	1.5	176
117	Organic aerosol formation via sulphate cluster activation. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	175
118	Rapid changes in biomass burning aerosols by atmospheric oxidation. Geophysical Research Letters, 2014, 41, 2644-2651.	1.5	175
119	The direct and indirect radiative effects of biogenic secondary organic aerosol. Atmospheric Chemistry and Physics, 2014, 14, 447-470.	1.9	175
120	Growth rates of nucleation mode particles in HyytiÃlÃ during 2003â˜2009: variation with particle size, season, data analysis method and ambient conditions. Atmospheric Chemistry and Physics, 2011, 11, 12865-12886.	1.9	173
121	Estimating nucleation rates from apparent particle formation rates and vice versa: Revised formulation of the Kerminenâ€“Kulmala equation. Journal of Aerosol Science, 2007, 38, 988-994.	1.8	172
122	ATMOSPHERIC SCIENCE: Reshaping the Theory of Cloud Formation. Science, 2001, 292, 2025-2026.	6.0	172
123	Composition and temporal behavior of ambient ions in the boreal forest. Atmospheric Chemistry and Physics, 2010, 10, 8513-8530.	1.9	170
124	Nucleation events in the continental boundary layer: Influence of physical and meteorological parameters. Atmospheric Chemistry and Physics, 2002, 2, 1-16.	1.9	169
125	Observation of 2-methyltetrols and related photo-oxidation products of isoprene in boreal forest aerosols from HyytiÃlÃ, Finland. Atmospheric Chemistry and Physics, 2005, 5, 2761-2770.	1.9	169
126	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. Nature, 2020, 581, 184-189.	13.7	169

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127	Diurnal and annual characteristics of particle mass and number concentrations in urban, rural and Arctic environments in Finland. Atmospheric Environment, 2003, 37, 2629-2641.	1.9	167
128	A model for particle formation and growth in the atmosphere with molecular resolution in size. Atmospheric Chemistry and Physics, 2003, 3, 251-257.	1.9	167
129	A dedicated study of New Particle Formation and Fate in the Coastal Environment (PARFORCE): Overview of objectives and achievements. Journal of Geophysical Research, 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 COMPRARISON. Journal of Aerosol Science, 1999, 30, 1079-1094.	1.8	164
131	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. Science Advances, 2018, 4, eaau5363.	4.7	164
132	Meteorological dependence of size-fractionated number concentrations of urban aerosol particles. Atmospheric Environment, 2006, 40, 1427-1440.	1.9	160
133	Quantification of the volatility of secondary organic compounds in ultrafine particles during nucleation events. Atmospheric Chemistry and Physics, 2011, 11, 9019-9036.	1.9	160
134	Measurements in a highly polluted Asian mega city: observations of aerosol number size distribution, modal parameters and nucleation events. Atmospheric Chemistry and Physics, 2005, 5, 57-66.	1.9	158
135	Effect of thinning on surface fluxes in a boreal forest. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	1.9	157
136	Sensitivity of aerosol concentrations and cloud properties to nucleation and secondary organic distribution in ECHAM5-HAM global circulation model. Atmospheric Chemistry and Physics, 2009, 9, 1747-1766.	1.9	153
137	An improved criterion for new particle formation in diverse atmospheric environments. Atmospheric Chemistry and Physics, 2010, 10, 8469-8480.	1.9	151
138	Ultrafine particle scavenging coefficients calculated from 6 years field measurements. Atmospheric Environment, 2003, 37, 3605-3613.	1.9	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. Atmospheric Chemistry and Physics, 2006, 6, 315-327.	1.9	150
140	Indoorâ€“outdoor relationships of particle number and mass in four European cities. Atmospheric Environment, 2008, 42, 156-169.	1.9	150
141	Air pollution control and decreasing new particle formation lead to strong climate warming. Atmospheric Chemistry and Physics, 2012, 12, 1515-1524.	1.9	150
142	Sub-10 nm particle growth by vapor condensation â€“ effects of vapor molecule size and particle thermal speed. Atmospheric Chemistry and Physics, 2010, 10, 9773-9779.	1.9	149
143	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. Atmospheric Chemistry and Physics, 2014, 14, 4679-4713.	1.9	148
144	Strong atmospheric new particle formation in winter in urban Shanghai, China. Atmospheric Chemistry and Physics, 2015, 15, 1769-1781.	1.9	147

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145	The condensation particle counter battery (CPCB): A new tool to investigate the activation properties of nanoparticles. Journal of Aerosol Science, 2007, 38, 289-304.	1.8	145
146	Atmospheric nucleation: highlights of the EUCAARI project and future directions. Atmospheric Chemistry and Physics, 2010, 10, 10829-10848.	1.9	144
147	Highly Oxidized Multifunctional Organic Compounds Observed in Tropospheric Particles: A Field and Laboratory Study. Environmental Science & Technology, 2015, 49, 7754-7761.	4.6	143
148	Physical characterization of aerosol particles during nucleation events. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 344-358.	0.8	142
149	Analysis of the growth of nucleation mode particles observed in Boreal forest. Tellus, Series B: Chemical and Physical Meteorology, 2022, 50, 449.	0.8	140
150	Adsorptive uptake of water by semisolid secondary organic aerosols. Geophysical Research Letters, 2015, 42, 3063-3068.	1.5	139
151	Multicomponent aerosol dynamics model UHMA: model development and validation. Atmospheric Chemistry and Physics, 2004, 4, 757-771.	1.9	138
152	A review of measurement and modelling results of particle atmosphereâ€“surface exchange. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 42.	0.8	138
153	The effect of atmospheric nitric acid vapor on cloud condensation nucleus activation. Journal of Geophysical Research, 1993, 98, 22949-22958.	3.3	137
154	Gas-aerosol relationships of H2SO4, MSA, and OH: Observations in the coastal marine boundary layer at Mace Head, Ireland. Journal of Geophysical Research, 2002, 107, PAR 5-1.	3.3	137
155	Indoor air measurement campaign in Helsinki, Finland 1999 â€“ the effect of outdoor air pollution on indoor air. Atmospheric Environment, 2001, 35, 1465-1477.	1.9	133
156	Accretion Product Formation from Selfâ€•and Crossâ€Reactions of RO₂ Radicals in the Atmosphere. Angewandte Chemie - International Edition, 2018, 57, 3820-3824.	7.2	133
157	Physical characterization of aerosol particles during nucleation events. Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 344.	0.8	131
158	Model studies on ion-induced nucleation in the atmosphere. Journal of Geophysical Research, 2002, 107, AAC 5-1.	3.3	131
159	Hydrocarbon fluxes above a Scots pine forest canopy: measurements and modeling. Atmospheric Chemistry and Physics, 2007, 7, 3361-3372.	1.9	131
160	New parameterization of sulfuric acidâ€ammoniaâ€water ternary nucleation rates at tropospheric conditions. Journal of Geophysical Research, 2007, 112, .	3.3	131
161	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
162	Oxidation of SO₂ by stabilized Criegee intermediate (sCI) radicals as a crucial source for atmospheric sulfuric acid concentrations. Atmospheric Chemistry and Physics, 2013, 13, 3865-3879.	1.9	131

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163	Climate Change and Weather Extremes in the Eastern Mediterranean and Middle East. Reviews of Geophysics, 2022, 60, .	9.0	131
164	Secondary organic aerosol formation from idling gasoline passenger vehicle emissions investigated in a smog chamber. Atmospheric Chemistry and Physics, 2013, 13, 6101-6116.	1.9	129
165	Foliage surface ozone deposition: a role for surface moisture?. Biogeosciences, 2006, 3, 209-228.	1.3	128
166	Associations of traffic related air pollutants with hospitalisation for first acute myocardial infarction: the HEAPSS study. Occupational and Environmental Medicine, 2006, 63, 844-851.	1.3	128
167	Vertical aerosol particle fluxes measured by eddy covariance technique using condensational particle counter. Journal of Aerosol Science, 1998, 29, 157-171.	1.8	127
168	How significantly does coagulational scavenging limit atmospheric particle production?. Journal of Geophysical Research, 2001, 106, 24119-24125.	3.3	127
169	The contribution of sulphuric acid to atmospheric particle formation and growth: a comparison between boundary layers in Northern and Central Europe. Atmospheric Chemistry and Physics, 2005, 5, 1773-1785.	1.9	127
170	OH Reactivity Measurements within a Boreal Forest: Evidence for Unknown Reactive Emissions. Environmental Science & Technology, 2010, 44, 6614-6620.	4.6	127
171	The role of relative humidity in continental new particle formation. Journal of Geophysical Research, 2011, 116, .	3.3	127
172	Hygroscopicity and chemical composition of Antarctic sub-micrometre aerosol particles and observations of new particle formation. Atmospheric Chemistry and Physics, 2010, 10, 4253-4271.	1.9	126
173	A global observational analysis to understand changes in air quality during exceptionally low anthropogenic emission conditions. Environment International, 2021, 157, 106818.	4.8	126
174	A statistical proxy for sulphuric acid concentration. Atmospheric Chemistry and Physics, 2011, 11, 11319-11334.	1.9	124
175	One year boundary layer aerosol size distribution data from five nordic background stations. Atmospheric Chemistry and Physics, 2003, 3, 2183-2205.	1.9	123
176	Models for condensational growth and evaporation of binary aerosol particles. Journal of Aerosol Science, 1997, 28, 565-598.	1.8	122
177	Spatial variation of particle number and mass over four European cities. Atmospheric Environment, 2007, 41, 6622-6636.	1.9	122
178	Enhanced sulfate formation by nitrogen dioxide: Implications from in situ observations at the SORPES station. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12679-12694.	1.2	122
179	Coastal new particle formation: Environmental conditions and aerosol physicochemical characteristics during nucleation bursts. Journal of Geophysical Research, 2002, 107, PAR 12-1.	3.3	121
180	Seasonal variation of CCN concentrations and aerosol activation properties in boreal forest. Atmospheric Chemistry and Physics, 2011, 11, 13269-13285.	1.9	121

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