

Veli-Matti Kerminen

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247
papers

17,958
citations

67
h-index

130
g-index

348
ext. papers

21,245
ext. citations

8.1
avg, IF

6.17
L-index

#	Paper	IF	Citations
247	Formation and growth rates of ultrafine atmospheric particles: a review of observations. <i>Journal of Aerosol Science</i> , 2004 , 35, 143-176	4.3	1695
246	A large source of low-volatility secondary organic aerosol. <i>Nature</i> , 2014 , 506, 476-9	50.4	1078
245	Direct observations of atmospheric aerosol nucleation. <i>Science</i> , 2013 , 339, 943-6	33.3	700
244	Toward direct measurement of atmospheric nucleation. <i>Science</i> , 2007 , 318, 89-92	33.3	414
243	Enhanced haze pollution by black carbon in megacities in China. <i>Geophysical Research Letters</i> , 2016 , 43, 2873-2879	4.9	399
242	High natural aerosol loading over boreal forests. <i>Science</i> , 2006 , 312, 261-3	33.3	386
241	A new atmospherically relevant oxidant of sulphur dioxide. <i>Nature</i> , 2012 , 488, 193-6	50.4	372
240	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	6.8	368
239	On the formation and growth of atmospheric nanoparticles. <i>Atmospheric Research</i> , 2008 , 90, 132-150	5.4	349
238	Contribution of particle formation to global cloud condensation nuclei concentrations. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	347
237	Measurement of the nucleation of atmospheric aerosol particles. <i>Nature Protocols</i> , 2012 , 7, 1651-67	18.8	319
236	Organic condensation: a vital link connecting aerosol formation to cloud condensation nuclei (CCN) concentrations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3865-3878	6.8	319
235	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	6.8	299
234	Connections between atmospheric sulphuric acid and new particle formation during QUEST III/IV campaigns in Heidelberg and Hyytiö. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 1899-1914	6.8	279
233	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	4.3	276
232	Atmospheric new particle formation from sulfuric acid and amines in a Chinese megacity. <i>Science</i> , 2018 , 361, 278-281	33.3	265
231	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, 7123-8	11.5	260

230	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	6.8	260
229	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	6.8	231
228	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	6.8	227
227	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	6.8	216
226	Enhanced air pollution via aerosol-boundary layer feedback in China. <i>Scientific Reports</i> , 2016 , 6, 18998	4.9	215
225	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	6.8	214
224	Warming-induced increase in aerosol number concentration likely to moderate climate change. <i>Nature Geoscience</i> , 2013 , 6, 438-442	18.3	206
223	EUCAARI ion spectrometer measurements at 12 European sites Analysis of new particle formation events. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7907-7927	6.8	204
222	Particulate matter pollution over China and the effects of control policies. <i>Science of the Total Environment</i> , 2017 , 584-585, 426-447	10.2	193
221	Atmospheric new particle formation and growth: review of field observations. <i>Environmental Research Letters</i> , 2018 , 13, 103003	6.2	192
220	Initial steps of aerosol growth. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 2553-2560	6.8	189
219	Atmospheric ions and nucleation: a review of observations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 767-798	6.8	180
218	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	15.7	178
217	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	6.8	174
216	Direct observational evidence linking atmospheric aerosol formation and cloud droplet activation. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	169
215	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO. <i>Nature</i> , 2016 , 537, 532-534	50.4	155
214	Rapid changes in biomass burning aerosols by atmospheric oxidation. <i>Geophysical Research Letters</i> , 2014 , 41, 2644-2651	4.9	143
213	Organic aerosol formation via sulphate cluster activation. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		136

212	Estimating nucleation rates from apparent particle formation rates and vice versa: Revised formulation of the KerminenKulmala equation. <i>Journal of Aerosol Science</i> , 2007 , 38, 988-994	4.3	129
211	Composition and temporal behavior of ambient ions in the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8513-8530	6.8	128
210	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	6.8	124
209	Air pollution control and decreasing new particle formation lead to strong climate warming. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1515-1524	6.8	117
208	Atmospheric nucleation: highlights of the EUCAARI project and future directions. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10829-10848	6.8	112
207	Enhanced sulfate formation by nitrogen dioxide: Implications from in situ observations at the SORPES station. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 12679-12694	4.4	109
206	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	3.3	107
205	Detecting charging state of ultra-fine particles: instrumental development and ambient measurements. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 1333-1345	6.8	106
204	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , 2018 , 4, eaau5363	14.3	105
203	Polluted dust promotes new particle formation and growth. <i>Scientific Reports</i> , 2014 , 4, 6634	4.9	104
202	Production of potential cloud condensation nuclei associated with atmospheric new-particle formation in northern Finland. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		99
201	How significantly does coagulation limit atmospheric particle production?. <i>Journal of Geophysical Research</i> , 2001 , 106, 24119-24125		99
200	On the formation of sulphuric acid amine clusters in varying atmospheric conditions and its influence on atmospheric new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 9113-9133	6.8	95
199	Seasonal variation of CCN concentrations and aerosol activation properties in boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13269-13285	6.8	91
198	Charged and total particle formation and growth rates during EUCAARI 2007 campaign in Hyytiälä. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4077-4089	6.8	89
197	The effect of acid-base clustering and ions on the growth of atmospheric nano-particles. <i>Nature Communications</i> , 2016 , 7, 11594	17.4	88
196	Atmospheric gas-to-particle conversion: why NPF events are observed in megacities?. <i>Faraday Discussions</i> , 2017 , 200, 271-288	3.6	84
195	Continuous measurements of optical properties of atmospheric aerosols in Mukteshwar, northern India. <i>Journal of Geophysical Research</i> , 2009 , 114,		82

194	Long term particle size distribution measurements at Mount Waliguan, a high-altitude site in inland China. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 5461-5474	6.8	78
193	Aerosol size distribution and new particle formation in the western Yangtze River Delta of China: 2 years of measurements at the SORPES station. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12445-12464	6.8	77
192	Reactivity of stabilized Criegee intermediates (sCIs) from isoprene and monoterpene ozonolysis toward SO ₂ and organic acids. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12143-12153	6.8	76
191	Atmospheric data over a solar cycle: no connection between galactic cosmic rays and new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1885-1898	6.8	76
190	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		76
189	Influence of biomass burning plumes on HONO chemistry in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1147-1159	6.8	74
188	Number size distributions and concentrations of the continental summer aerosols in Queen Maud Land, Antarctica. <i>Journal of Geophysical Research</i> , 2003 , 108,		74
187	Atmospheric new particle formation in China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 115-138	6.8	73
186	Global analysis of continental boundary layer new particle formation based on long-term measurements. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14737-14756	6.8	73
185	Connection of sulfuric acid to atmospheric nucleation in boreal forest. <i>Environmental Science & Technology</i> , 2009 , 43, 4715-21	10.3	72
184	Secondary organics and atmospheric cloud condensation nuclei production. <i>Journal of Geophysical Research</i> , 2000 , 105, 9255-9264		70
183	Secondary new particle formation in Northern Finland Pallas site between the years 2000 and 2010. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12959-12972	6.8	69
182	Basic characteristics of atmospheric particles, trace gases and meteorology in a relatively clean Southern African Savannah environment. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 4823-4839	6.8	69
181	On the composition of ammonia-sulfuric-acid ion clusters during aerosol particle formation. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 55-78	6.8	68
180	Aerosols and nucleation in eastern China: first insights from the new SORPES-NJU station. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 2169-2183	6.8	63
179	Chemical composition, main sources and temporal variability of PM ₁₀ aerosols in southern African grassland. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1909-1927	6.8	62
178	An Instrumental Comparison of Mobility and Mass Measurements of Atmospheric Small Ions. <i>Aerosol Science and Technology</i> , 2011 , 45, 522-532	3.4	61
177	Physical properties of aerosol particles at a Himalayan background site in India. <i>Journal of Geophysical Research</i> , 2009 , 114,		60

176	Aerosol black carbon at five background measurement sites over Finland, a gateway to the Arctic. <i>Atmospheric Environment</i> , 2011 , 45, 4042-4050	5.3	57
175	Measurements of sub-3 nm particles using a particle size magnifier in different environments: from clean mountain top to polluted megacities. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 2163-2187	6.8	56
174	Characterization of new particle formation events at a background site in Southern Sweden: relation to air mass history. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2008 , 60, 330-344	3.3	56
173	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> , 2008 , 60, 495-508	3.3	56
172	Long-term analysis of clear-sky new particle formation events and nonevents in Hyytiälä. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6227-6241	6.8	55
171	Dynamics of atmospheric nucleation mode particles: a timescale analysis. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2004 , 56, 135-146	3.3	54
170	BVOC-aerosol-climate interactions in the global aerosol-climate model ECHAM5.5-HAM2. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10077-10096	6.8	52
169	The analysis of size-segregated cloud condensation nuclei counter (CCNC) data and its implications for cloud droplet activation. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10285-10301	6.8	51
168	Sub-micron atmospheric aerosols in the surroundings of Marseille and Athens: physical characterization and new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2705-2720	6.8	50
167	Long-term observation of air pollution-weather/climate interactions at the SORPES station: a review and outlook. <i>Frontiers of Environmental Science and Engineering</i> , 2016 , 10, 1	5.8	48
166	Ion-induced sulfuric acid-ammonia nucleation drives particle formation in coastal Antarctica. <i>Science Advances</i> , 2018 , 4, eaat9744	14.3	48
165	New foliage growth is a significant, unaccounted source for volatiles in boreal evergreen forests. <i>Biogeosciences</i> , 2014 , 11, 1331-1344	4.6	47
164	Analysis of one year of Ion-DMPS data from the SMEAR II station, Finland. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2008 , 60, 318-329	3.3	47
163	Simulations on the effect of sulphuric acid formation on atmospheric aerosol concentrations. <i>Atmospheric Environment</i> , 1995 , 29, 377-382	5.3	45
162	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the northern Eurasian region. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14421-14461	6.8	43
161	Factors influencing the contribution of ion-induced nucleation in a boreal forest, Finland. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 3743-3757	6.8	43
160	Exploring the regional pollution characteristics and meteorological formation mechanism of PM in North China during 2013-2017. <i>Environment International</i> , 2020 , 134, 105283	12.9	43
159	Modeling Dry Deposition of Aerosol Particles onto Rough Surfaces. <i>Aerosol Science and Technology</i> , 2012 , 46, 44-59	3.4	42

158	Deep convective clouds as aerosol production engines: Role of insoluble organics. <i>Journal of Geophysical Research</i> , 2006 , 111,		42
157	Number size distributions and concentrations of marine aerosols: Observations during a cruise between the English Channel and the coast of Antarctica. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 6-1		42
156	Hygroscopicity, CCN and volatility properties of submicron atmospheric aerosol in a boreal forest environment during the summer of 2010. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4733-4748	6.8	41
155	Observations on nocturnal growth of atmospheric clusters. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2008 , 60, 365-371	3.3	41
154	Regional effect on urban atmospheric nucleation. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 8715-8728	6.8	40
153	Atmospheric new particle formation: real and apparent growth of neutral and charged particles. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4939-4955	6.8	40
152	On secondary new particle formation in China. <i>Frontiers of Environmental Science and Engineering</i> , 2016 , 10, 1	5.8	39
151	Atmospheric new particle formation as a source of CCN in the eastern Mediterranean marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9203-9215	6.8	39
150	Seasonal cycle and modal structure of particle number size distribution at Dome C, Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7473-7487	6.8	39
149	New insights into nocturnal nucleation. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4297-4312	6.8	39
148	Observations of biogenic ion-induced cluster formation in the atmosphere. <i>Science Advances</i> , 2018 , 4, eaar5218	14.3	37
147	Antarctic new particle formation from continental biogenic precursors. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3527-3546	6.8	36
146	Seasonal Characteristics of New Particle Formation and Growth in Urban Beijing. <i>Environmental Science & Technology</i> , 2020 , 54, 8547-8557	10.3	35
145	Comprehensive modelling study on observed new particle formation at the SORPES station in Nanjing, China. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2477-2492	6.8	35
144	Introduction: The Pan-Eurasian Experiment (PEEX) [multidisciplinary, multiscale and multicomponent research and capacity-building initiative. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13085-13096	6.8	35
143	A synthesis of cloud condensation nuclei counter (CCNC) measurements within the EUCAARI network. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12211-12229	6.8	35
142	Parameterizing the formation rate of new particles: The effect of nuclei self-coagulation. <i>Journal of Aerosol Science</i> , 2010 , 41, 621-636	4.3	34
141	Charging state of the atmospheric nucleation mode: Implications for separating neutral and ion-induced nucleation. <i>Journal of Geophysical Research</i> , 2007 , 112,		34

140	New particle formation in air mass transported between two measurement sites in Northern Finland. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2811-2824	6.8	34
139	Direct effect of aerosols on solar radiation and gross primary production in boreal and hemiboreal forests. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17863-17881	6.8	34
138	Experimental investigation of ion-ion recombination under atmospheric conditions. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7203-7216	6.8	33
137	Size-dependent activation of aerosols into cloud droplets at a subarctic background site during the second Pallas Cloud Experiment (2nd PaCE): method development and data evaluation. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4841-4854	6.8	33
136	Variation of size-segregated particle number concentrations in wintertime Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1201-1216	6.8	32
135	The role of ions in new particle formation in the CLOUD chamber. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 15181-15197	6.8	32
134	Is reducing new particle formation a plausible solution to mitigate particulate air pollution in Beijing and other Chinese megacities?. <i>Faraday Discussions</i> , 2021 , 226, 334-347	3.6	32
133	Quantifying the impact of synoptic circulation patterns on ozone variability in northern China from April to October 2013-2017. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14477-14492	6.8	31
132	Role of iodine oxoacids in atmospheric aerosol nucleation. <i>Science</i> , 2021 , 371, 589-595	33.3	31
131	Boundary layer nucleation as a source of new CCN in savannah environment. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1957-1972	6.8	30
130	Effects of SO ₂ oxidation on ambient aerosol growth in water and ethanol vapours. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 767-779	6.8	30
129	Trends in new particle formation in eastern Lapland, Finland: effect of decreasing sulfur emissions from Kola Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4383-4396	6.8	29
128	Analysis of aerosol effects on warm clouds over the Yangtze River Delta from multi-sensor satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 5623-5641	6.8	29
127	Size-dependent influence of NO on the growth rates of organic aerosol particles. <i>Science Advances</i> , 2020 , 6, eaay4945	14.3	28
126	Classifying previously undefined days from eleven years of aerosol-particle-size distribution data from the SMEAR II station, Hyytiälä, Finland. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 667-676	6.8	28
125	Climate Feedbacks Linking the Increasing Atmospheric CO ₂ Concentration, BVOC Emissions, Aerosols and Clouds in Forest Ecosystems. <i>Tree Physiology</i> , 2013 , 489-508		28
124	Growth rates during coastal and marine new particle formation in western Ireland. <i>Journal of Geophysical Research</i> , 2010 , 115,		27
123	Measurements of the relation between aerosol properties and microphysics and chemistry of low level liquid water clouds in Northern Finland. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 6925-6938	6.8	27

122	The natural aerosol over Northern Europe and its relation to anthropogenic emissions—Implications of important climate feedbacks. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2008 , 60, 473-484	3.3	27
121	A proxy for atmospheric daytime gaseous sulfuric acid concentration in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 1971-1983	6.8	26
120	Solar eclipse demonstrating the importance of photochemistry in new particle formation. <i>Scientific Reports</i> , 2017 , 7, 45707	4.9	25
119	Dynamics of atmospheric nucleation mode particles: a timescale analysis. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2004 , 56, 135-146	3.3	25
118	Sulfuric acid–amine nucleation in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2457-2468	6.8	25
117	Conceptual design of a measurement network of the global change. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1017-1028	6.8	24
116	Multiple daytime nucleation events in semi-clean savannah and industrial environments in South Africa: analysis based on observations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5523-5532	6.8	23
115	Observational signature of the direct radiative effect by natural boreal forest aerosols and its relation to the corresponding first indirect effect. <i>Journal of Geophysical Research</i> , 2009 , 114,		23
114	The Synergistic Role of Sulfuric Acid, Bases, and Oxidized Organics Governing New-Particle Formation in Beijing. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091944	4.9	23
113	Refined classification and characterization of atmospheric new-particle formation events using air ions. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17883-17893	6.8	23
112	Aerosol-cloud interaction determined by both in situ and satellite data over a northern high-latitude site. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10987-10995	6.8	22
111	Formation and growth of sub-3-nm aerosol particles in experimental chambers. <i>Nature Protocols</i> , 2020 , 15, 1013-1040	18.8	21
110	Reevaluating the contribution of sulfuric acid and the origin of organic compounds in atmospheric nanoparticle growth. <i>Geophysical Research Letters</i> , 2015 , 42, 10,486	4.9	21
109	Rapid formation of intense haze episodes via aerosol–boundary layer feedback in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 45-53	6.8	21
108	Vertical and horizontal distribution of regional new particle formation events in Madrid. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 16601-16618	6.8	21
107	Formation and growth of atmospheric nanoparticles in the eastern Mediterranean: results from long-term measurements and process simulations. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2671-2686	6.8	20
106	Sources and sinks driving sulfuric acid concentrations in contrasting environments: implications on proxy calculations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 11747-11766	6.8	20
105	Comprehensive analysis of particle growth rates from nucleation mode to cloud condensation nuclei in boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12085-12103	6.8	20

104	The role of H ₂ SO ₄ -NH ₃ anion clusters in ion-induced aerosol nucleation mechanisms in the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13231-13243	6.8	19
103	Mixing state and particle hygroscopicity of organic-dominated aerosols over the Pearl River Delta region in China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14079-14094	6.8	19
102	Continuous and comprehensive atmospheric observations in Beijing: a station to understand the complex urban atmospheric environment. <i>Big Earth Data</i> , 2020 , 4, 295-321	4.1	18
101	Modelling the contribution of biogenic volatile organic compounds to new particle formation in the Jülich plant atmosphere chamber. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10777-10798	6.8	17
100	Estimating the contribution of ion-ion recombination to sub-2 nm cluster concentrations from atmospheric measurements. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11391-11401	6.8	17
99	Analysis of particle size distribution changes between three measurement sites in northern Scandinavia. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11887-11903	6.8	17
98	Size-segregated particle number and mass concentrations from different emission sources in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12721-12740	6.8	17
97	Differing Mechanisms of New Particle Formation at Two Arctic Sites. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091334	4.9	17
96	Ground-based observation of clusters and nucleation-mode particles in the Amazon. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13245-13264	6.8	17
95	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996 , 48, 65-82	3.3	16
94	Biogenic particles formed in the Himalaya as an important source of free tropospheric aerosols. <i>Nature Geoscience</i> , 2021 , 14, 4-9	18.3	15
93	Technical note: New particle formation event forecasts during PEGASOS-Zeppelin Northern mission 2013 in Hyytiälä Finland. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12385-12396	6.8	14
92	Parameterization of ion-induced nucleation rates based on ambient observations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3393-3402	6.8	14
91	PAN EURASIAN EXPERIMENT (PEEX) - A RESEARCH INITIATIVE MEETING THE GRAND CHALLENGES OF THE CHANGING ENVIRONMENT OF THE NORTHERN PAN-EURASIAN ARCTIC-BOREAL AREAS. <i>Geography, Environment, Sustainability</i> , 2014 , 7, 13-48	1	14
90	Unprecedented Ambient Sulfur Trioxide (SO) Detection: Possible Formation Mechanism and Atmospheric Implications. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 809-818	11	14
89	Exploring non-linear associations between atmospheric new-particle formation and ambient variables: a mutual information approach. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12699-12714	6.8	14
88	Aerosol Particle Formation Events at Two Siberian Stations 2007 , 840-844		14
87	Vertical profiles of sub-3 nm particles over the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4127-4138	6.8	13

86	Temperature influence on the natural aerosol budget over boreal forests. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 8295-8308	6.8	13
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40	Aerosol size distribution and new particle formation in western Yangtze River Delta of China: two-year measurement at the SORPES station		3
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32	Aerosol particle formation in the upper residual layer		2
31	Chemical composition, main sources and temporal variability of PM ₁ aerosols in southern African grassland		2
30	Experimental investigation of ion-ion recombination at atmospheric conditions		2
29	Zeppelin-led study on the onset of new particle formation in the planetary boundary layer		2
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22	Prediction of photosynthesis in Scots pine ecosystems across Europe by needle-level theory 2017 ,		1
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