Veli-Matti Kerminen

List of Publications by Year
in descending order

226	23,789	12322 69	11047 137
papers	citations	h-index	g-index

348	348	348	8878
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Formation and growth rates of ultrafine atmospheric particles: a review of observations. Journal of Aerosol Science, 2004, 35, 143-176.	1.8	2,034
2	A large source of low-volatility secondary organic aerosol. Nature, 2014, 506, 476-479.	13.7	1,448
3	Direct Observations of Atmospheric Aerosol Nucleation. Science, 2013, 339, 943-946.	6.0	876
4	Enhanced haze pollution by black carbon in megacities in China. Geophysical Research Letters, 2016, 43, 2873-2879.	1.5	590
5	Toward Direct Measurement of Atmospheric Nucleation. Science, 2007, 318, 89-92.	6.0	478
6	A new atmospherically relevant oxidant of sulphur dioxide. Nature, 2012, 488, 193-196.	13.7	465
7	High Natural Aerosol Loading over Boreal Forests. Science, 2006, 312, 261-263.	6.0	447
8	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
9	Measurement of the nucleation of atmospheric aerosol particles. Nature Protocols, 2012, 7, 1651-1667.	5.5	435
10	Atmospheric new particle formation from sulfuric acid and amines in a Chinese megacity. Science, 2018, 361, 278-281.	6.0	415
11	On the formation and growth of atmospheric nanoparticles. Atmospheric Research, 2008, 90, 132-150.	1.8	414
12	Contribution of particle formation to global cloud condensation nuclei concentrations. Geophysical Research Letters, 2008, 35, .	1.5	400
13	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
14	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
15	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
16	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
17	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
18	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

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19	Atmospheric new particle formation and growth: review of field observations. Environmental Research Letters, 2018, 13, 103003.	2.2	308
20	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
21	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
22	Enhanced air pollution via aerosol-boundary layer feedback in China. Scientific Reports, 2016, 6, 18998.	1.6	285
23	Warming-induced increase in aerosol number concentration likely to moderate climate change. Nature Geoscience, 2013, 6, 438-442.	5.4	282
24	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
25	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
26	Particulate matter pollution over China and the effects of control policies. Science of the Total Environment, 2017, 584-585, 426-447.	3.9	252
27	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
28	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
29	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO3. Nature, 2016, 537, 532-534.	13.7	237
30	Atmospheric ions and nucleation: a review of observations. Atmospheric Chemistry and Physics, 2011, 11, 767-798.	1.9	228
31	Initial steps of aerosol growth. Atmospheric Chemistry and Physics, 2004, 4, 2553-2560.	1.9	207
32	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
33	Direct observational evidence linking atmospheric aerosol formation and cloud droplet activation. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	195
34	Organic aerosol formation via sulphate cluster activation. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	175
35	Rapid changes in biomass burning aerosols by atmospheric oxidation. Geophysical Research Letters, 2014, 41, 2644-2651.	1.5	175
36	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

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37	Composition and temporal behavior of ambient ions in the boreal forest. Atmospheric Chemistry and Physics, 2010, 10, 8513-8530.	1.9	170
38	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. Science Advances, 2018, 4, eaau5363.	4.7	164
39	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
40	Air pollution control and decreasing new particle formation lead to strong climate warming. Atmospheric Chemistry and Physics, 2012, 12, 1515-1524.	1.9	150
41	Atmospheric nucleation: highlights of the EUCAARI project and future directions. Atmospheric Chemistry and Physics, 2010, 10, 10829-10848.	1.9	144
42	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
43	How significantly does coagulational scavenging limit atmospheric particle production?. Journal of Geophysical Research, 2001, 106, 24119-24125.	3.3	127
44	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
45	Seasonal variation of CCN concentrations and aerosol activation properties in boreal forest. Atmospheric Chemistry and Physics, 2011, 11, 13269-13285.	1.9	121
46	Polluted dust promotes new particle formation and growth. Scientific Reports, 2014, 4, 6634.	1.6	121
47	Atmospheric gas-to-particle conversion: why NPF events are observed in megacities?. Faraday Discussions, 2017, 200, 271-288.	1.6	120
48	On the formation of sulphuric acid â€" amine clusters in varying atmospheric conditions and its influence on atmospheric new particle formation. Atmospheric Chemistry and Physics, 2012, 12, 9113-9133.	1.9	119
49	Atmospheric new particle formation in China. Atmospheric Chemistry and Physics, 2019, 19, 115-138.	1.9	118
50	Detecting charging state of ultra-fine particles: instrumental development and ambient measurements. Atmospheric Chemistry and Physics, 2007, 7, 1333-1345.	1.9	116
51	The effect of acidâ€"base clustering and ions on the growth of atmospheric nano-particles. Nature Communications, 2016, 7, 11594.	5.8	116
52	Global analysis of continental boundary layer new particle formation based on long-term measurements. Atmospheric Chemistry and Physics, 2018, 18, 14737-14756.	1.9	113
53	Aerosol size distribution and new particle formation in the western Yangtze River Delta of China: 2 years of measurements at the SORPES station. Atmospheric Chemistry and Physics, 2015, 15, 12445-12464.	1.9	112
54	Production of â€œpotentialâ€• cloud condensation nuclei associated with atmospheric new-particle formation in northern Finland. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	106

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55	Charged and total particle formation and growth rates during EUCAARI 2007 campaign in HyytiÃlÃ. Atmospheric Chemistry and Physics, 2009, 9, 4077-4089.	1.9	104
56	Continuous measurements of optical properties of atmospheric aerosols in Mukteshwar, northern India. Journal of Geophysical Research, 2009, 114, .	3.3	98
57	Influence of biomass burning plumes on HONO chemistry in eastern China. Atmospheric Chemistry and Physics, 2015, 15, 1147-1159.	1.9	96
58	Long term particle size distribution measurements at Mount Waliguan, a high-altitude site in inland China. Atmospheric Chemistry and Physics, 2009, 9, 5461-5474.	1.9	94
59	Reactivity of stabilized Criegee intermediates (sCIs) from isoprene and monoterpene ozonolysis toward SO₂ and organic acids. Atmospheric Chemistry and Physics, 2014, 14, 12143-12153.	1.9	94
60	Role of iodine oxoacids in atmospheric aerosol nucleation. Science, 2021, 371, 589-595.	6.0	94
61	Measurements of cloud droplet activation of aerosol particles at a clean subarctic background site. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	93
62	Atmospheric data over a solar cycle: no connection between galactic cosmic rays and new particle formation. Atmospheric Chemistry and Physics, 2010, 10, 1885-1898.	1.9	89
63	Number size distributions and concentrations of the continental summer aerosols in Queen Maud Land, Antarctica. Journal of Geophysical Research, 2003, 108, .	3.3	87
64	Basic characteristics of atmospheric particles, trace gases and meteorology in a relatively clean Southern African Savannah environment. Atmospheric Chemistry and Physics, 2008, 8, 4823-4839.	1.9	86
65	Connection of Sulfuric Acid to Atmospheric Nucleation in Boreal Forest. Environmental Science & Technology, 2009, 43, 4715-4721.	4.6	84
66	Secondary new particle formation in Northern Finland Pallas site between the years 2000 and 2010. Atmospheric Chemistry and Physics, 2011, 11, 12959-12972.	1.9	84
67	On the composition of ammoniaâ€"sulfuric-acid ion clusters during aerosol particle formation. Atmospheric Chemistry and Physics, 2015, 15, 55-78.	1.9	84
68	Long-term analysis of clear-sky new particle formation events and nonevents in HyytiÃlÃ. Atmospheric Chemistry and Physics, 2017, 17, 6227-6241.	1.9	84
69	Chemical composition, main sources and temporal variability of PM₁ aerosols in southern African grassland. Atmospheric Chemistry and Physics, 2014, 14, 1909-1927.	1.9	81
70	Physical properties of aerosol particles at a Himalayan background site in India. Journal of Geophysical Research, 2009, 114, .	3.3	79
71	Ion-induced sulfuric acidâ€"ammonia nucleation drives particle formation in coastal Antarctica. Science Advances, 2018, 4, eaat9744.	4.7	79
72	Seasonal Characteristics of New Particle Formation and Growth in Urban Beijing. Environmental Science & Technology, 2020, 54, 8547-8557.	4.6	78

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73	Secondary organics and atmospheric cloud condensation nuclei production. Journal of Geophysical Research, 2000, 105, 9255-9264.	3.3	77
74	Long-term observation of air pollution-weather/climate interactions at the SORPES station: a review and outlook. Frontiers of Environmental Science and Engineering, 2016, 10, 1.	3.3	75
75	Is reducing new particle formation a plausible solution to mitigate particulate air pollution in Beijing and other Chinese megacities?. Faraday Discussions, 2021, 226, 334-347.	1.6	74
76	Aerosol black carbon at five background measurement sites over Finland, a gateway to the Arctic. Atmospheric Environment, 2011, 45, 4042-4050.	1.9	73
77	BVOC-aerosol-climate interactions in the global aerosol-climate model ECHAM5.5-HAM2. Atmospheric Chemistry and Physics, 2012, 12, 10077-10096.	1.9	73
78	Exploring the regional pollution characteristics and meteorological formation mechanism of PM2.5 in North China during 2013â€“2017. Environment International, 2020, 134, 105283.	4.8	73
79	Annual and interannual variation in boreal forest aerosol particle number and volume concentration and their connection to particle formation. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 495.	0.8	72
80	An Instrumental Comparison of Mobility and Mass Measurements of Atmospheric Small Ions. Aerosol Science and Technology, 2011, 45, 522-532.	1.5	72
81	Aerosols and nucleation in eastern China: first insights from the new SORPES-NJU station. Atmospheric Chemistry and Physics, 2014, 14, 2169-2183.	1.9	72
82	Measurements of sub-3â€¯nm particles using a particle size magnifier in different environments: from clean mountain top to polluted megacities. Atmospheric Chemistry and Physics, 2017, 17, 2163-2187.	1.9	71
83	Characterization of new particle formation events at a background site in Southern Sweden: relation to air mass history. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 330.	0.8	70
84	Sulfuric acidâ€“amine nucleation in urban Beijing. Atmospheric Chemistry and Physics, 2021, 21, 2457-2468.	1.9	70
85	Differing Mechanisms of New Particle Formation at Two Arctic Sites. Geophysical Research Letters, 2021, 48, e2020GL091334.	1.5	70
86	The analysis of size-segregated cloud condensation nuclei counter (CCNC) data and its implications for cloud droplet activation. Atmospheric Chemistry and Physics, 2013, 13, 10285-10301.	1.9	69
87	New foliage growth is a significant, unaccounted source for volatiles in boreal evergreen forests. Biogeosciences, 2014, 11, 1331-1344.	1.3	69
88	Sub-micron atmospheric aerosols in the surroundings of Marseille and Athens: physical characterization and new particle formation. Atmospheric Chemistry and Physics, 2007, 7, 2705-2720.	1.9	64
89	Observations of biogenic ion-induced cluster formation in the atmosphere. Science Advances, 2018, 4, eaar5218.	4.7	64
90	Secondary organic aerosol formed by condensing anthropogenic vapours over Chinaâ€™s megacities. Nature Geoscience, 2022, 15, 255-261.	5.4	64

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91	Quantifying the impact of synoptic circulation patterns on ozone variability in northern China from April to October 2013â€“2017. Atmospheric Chemistry and Physics, 2019, 19, 14477-14492.	1.9	61
92	Size-dependent influence of NO _x on the growth rates of organic aerosol particles. Science Advances, 2020, 6, eaay4945.	4.7	61
93	Regional effect on urban atmospheric nucleation. Atmospheric Chemistry and Physics, 2016, 16, 8715-8728.	1.9	60
94	Dynamics of atmospheric nucleation mode particles: a timescale analysis. Tellus, Series B: Chemical and Physical Meteorology, 2004, 56, 135-146.	0.8	59
95	A synthesis of cloud condensation nuclei counter (CCNC) measurements within the EUCAARI network. Atmospheric Chemistry and Physics, 2015, 15, 12211-12229.	1.9	58
96	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the landâ€“atmosphereâ€“oceanâ€“society continuum in the northern Eurasian region. Atmospheric Chemistry and Physics, 2016, 16, 14421-14461.	1.9	57
97	Analysis of one year of Ion-DMPS data from the SMEAR II station, Finland. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 318.	0.8	56
98	Atmospheric new particle formation: real and apparent growth of neutral and charged particles. Atmospheric Chemistry and Physics, 2011, 11, 4939-4955.	1.9	55
99	Hygroscopicity, CCN and volatility properties of submicron atmospheric aerosol in a boreal forest environment during the summer of 2010. Atmospheric Chemistry and Physics, 2014, 14, 4733-4748.	1.9	54
100	Continuous and comprehensive atmospheric observations in Beijing: a station to understand the complex urban atmospheric environment. Big Earth Data, 2020, 4, 295-321.	2.0	54
101	The Synergistic Role of Sulfuric Acid, Bases, and Oxidized Organics Governing Newâ€Particle Formation in Beijing. Geophysical Research Letters, 2021, 48, e2020GL091944.	1.5	53
102	Aerosol-boundary-layer-monsoon interactions amplify semi-direct effect of biomass smoke on low cloud formation in Southeast Asia. Nature Communications, 2021, 12, 6416.	5.8	53
103	Atmospheric new particle formation as a source of CCN in the eastern Mediterranean marine boundary layer. Atmospheric Chemistry and Physics, 2015, 15, 9203-9215.	1.9	52
104	Variation of size-segregated particle number concentrations in wintertime Beijing. Atmospheric Chemistry and Physics, 2020, 20, 1201-1216.	1.9	52
105	Observations on nocturnal growth of atmospheric clusters. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 365.	0.8	51
106	Deep convective clouds as aerosol production engines: Role of insoluble organics. Journal of Geophysical Research, 2006, 111, .	3.3	50
107	Antarctic new particle formation from continental biogenic precursors. Atmospheric Chemistry and Physics, 2013, 13, 3527-3546.	1.9	50
108	The role of ions in new particle formation in the CLOUD chamber. Atmospheric Chemistry and Physics, 2017, 17, 15181-15197.	1.9	50

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109	Direct effect of aerosols on solar radiation and gross primary production in boreal and hemiboreal forests. Atmospheric Chemistry and Physics, 2018, 18, 17863-17881.	1.9	50
110	Modeling Dry Deposition of Aerosol Particles onto Rough Surfaces. Aerosol Science and Technology, 2012, 46, 44-59.	1.5	49
111	Introduction: The Pan-Eurasian Experiment (PEEX) â€" multidisciplinary, multiscale and multicomponent research and capacity-building initiative. Atmospheric Chemistry and Physics, 2015, 15, 13085-13096.	1.9	49
112	Formation and growth of sub-3-nm aerosol particles in experimental chambers. Nature Protocols, 2020, 15, 1013-1040.	5.5	49
113	Factors influencing the contribution of ion-induced nucleation in a boreal forest, Finland. Atmospheric Chemistry and Physics, 2010, 10, 3743-3757.	1.9	48
114	Simulations on the effect of sulphuric acid formation on atmospheric aerosol concentrations. Atmospheric Environment, 1995, 29, 377-382.	1.9	47
115	Parameterizing the formation rate of new particles: The effect of nuclei self-coagulation. Journal of Aerosol Science, 2010, 41, 621-636.	1.8	47
116	Comprehensive modelling study on observed new particle formation at the SORPES station in Nanjing, China. Atmospheric Chemistry and Physics, 2016, 16, 2477-2492.	1.9	47
117	Number size distributions and concentrations of marine aerosols: Observations during a cruise between the English Channel and the coast of Antarctica. Journal of Geophysical Research, 2002, 107, AAC 6-1.	3.3	46
118	Seasonal cycle and modal structure of particle number size distribution at Dome C, Antarctica. Atmospheric Chemistry and Physics, 2013, 13, 7473-7487.	1.9	46
119	Experimental investigation of ionâ€"ion recombination under atmospheric conditions. Atmospheric Chemistry and Physics, 2015, 15, 7203-7216.	1.9	46
120	A proxy for atmospheric daytime gaseous sulfuric acid concentration in urban Beijing. Atmospheric Chemistry and Physics, 2019, 19, 1971-1983.	1.9	46
121	New insights into nocturnal nucleation. Atmospheric Chemistry and Physics, 2012, 12, 4297-4312.	1.9	45
122	Analysis of aerosol effects on warm clouds over the Yangtze River Delta from multi-sensor satellite observations. Atmospheric Chemistry and Physics, 2017, 17, 5623-5641.	1.9	45
123	New particle formation in air mass transported between two measurement sites in Northern Finland. Atmospheric Chemistry and Physics, 2006, 6, 2811-2824.	1.9	43
124	On secondary new particle formation in China. Frontiers of Environmental Science and Engineering, 2016, 10, 1.	3.3	43
125	Sources and sinks driving sulfuric acid concentrations in contrasting environments: implications on proxy calculations. Atmospheric Chemistry and Physics, 2020, 20, 11747-11766.	1.9	42
126	Charging state of the atmospheric nucleation mode: Implications for separating neutral and ionâ€induced nucleation. Journal of Geophysical Research, 2007, 112, .	3.3	40

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127	Classifying previously undefined days from eleven years of aerosol-particle-size distribution data from the SMEAR II station, HyytiÃlÃ, Finland. Atmospheric Chemistry and Physics, 2009, 9, 667-676.	1.9	40
128	Boundary layer nucleation as a source of new CCN in savannah environment. Atmospheric Chemistry and Physics, 2013, 13, 1957-1972.	1.9	40
129	Biogenic particles formed in the Himalaya as an important source of free tropospheric aerosols. Nature Geoscience, 2021, 14, 4-9.	5.4	40
130	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. Atmospheric Chemistry and Physics, 2009, 9, 4841-4854.	1.9	38
131	Climate Feedbacks Linking the Increasing Atmospheric CO2 Concentration, BVOC Emissions, Aerosols and Clouds in Forest Ecosystems. Tree Physiology, 2013, , 489-508.	0.9	38
132	Growth rates during coastal and marine new particle formation in western Ireland. Journal of Geophysical Research, 2010, 115, .	3.3	36
133	Trends in new particle formation in eastern Lapland, Finland: effect of decreasing sulfur emissions from Kola Peninsula. Atmospheric Chemistry and Physics, 2014, 14, 4383-4396.	1.9	36
134	Rapid formation of intense haze episodes via aerosolâ€"boundary layer feedback in Beijing. Atmospheric Chemistry and Physics, 2020, 20, 45-53.	1.9	36
135	Size-segregated particle number and mass concentrations from different emission sources in urban Beijing. Atmospheric Chemistry and Physics, 2020, 20, 12721-12740.	1.9	36
136	Conceptual design of a measurement network of the global change. Atmospheric Chemistry and Physics, 2016, 16, 1017-1028.	1.9	35
137	Refined classification and characterization of atmospheric new-particle formation events using air ions. Atmospheric Chemistry and Physics, 2018, 18, 17883-17893.	1.9	35
138	The natural aerosol over Northern Europe and its relation to anthropogenic emissionsâ€"implications of important climate feedbacks. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 473.	0.8	34
139	Unprecedented Ambient Sulfur Trioxide (SO₃) Detection: Possible Formation Mechanism and Atmospheric Implications. Environmental Science and Technology Letters, 2020, 7, 809-818.	3.9	34
140	Dynamics of atmospheric nucleation mode particles: a timescale analysis. Tellus, Series B: Chemical and Physical Meteorology, 2022, 56, 135.	0.8	33
141	Effects of SO₂ oxidation on ambient aerosol growth in water and ethanol vapours. Atmospheric Chemistry and Physics, 2005, 5, 767-779.	1.9	33
142	Measurements of the relation between aerosol properties and microphysics and chemistry of low level liquid water clouds in Northern Finland. Atmospheric Chemistry and Physics, 2008, 8, 6925-6938.	1.9	33
143	The role of H₂SO₄-NH<sub>3</sub&a anion clusters in ion-induced aerosol nucleation mechanisms in the boreal forest. Atmospheric Chemistry and Physics, 2018, 18, 13231-13243.	1.9	33
144	Comprehensive analysis of particle growth rates from nucleation mode to cloud condensation nuclei in boreal forest. Atmospheric Chemistry and Physics, 2018, 18, 12085-12103.	1.9	31

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145	Observational signature of the direct radiative effect by natural boreal forest aerosols and its relation to the corresponding first indirect effect. Journal of Geophysical Research, 2009, 114, .	3.3	30
146	Aerosol-cloud interaction determined by both in situ and satellite data over a northern high-latitude site. Atmospheric Chemistry and Physics, 2010, 10, 10987-10995.	1.9	30
147	Vertical and horizontal distribution of regional new particle formation events in Madrid. Atmospheric Chemistry and Physics, 2018, 18, 16601-16618.	1.9	30
148	Mixing state and particle hygroscopicity of organic-dominated aerosols over the Pearl River Delta region in China. Atmospheric Chemistry and Physics, 2018, 18, 14079-14094.	1.9	30
149	Formation and growth of atmospheric nanoparticles in the eastern Mediterranean: results from long-term measurements and process simulations. Atmospheric Chemistry and Physics, 2019, 19, 2671-2686.	1.9	30
150	Solar eclipse demonstrating the importance of photochemistry in new particle formation. Scientific Reports, 2017, 7, 45707.	1.6	29
151	Reevaluating the contribution of sulfuric acid and the origin of organic compounds in atmospheric nanoparticle growth. Geophysical Research Letters, 2015, 42, 10,486.	1.5	27
152	Technical note: New particle formation event forecasts during PEGASOSâ€"Zeppelin Northern mission 2013 in HyytiÃlÃ, Finland. Atmospheric Chemistry and Physics, 2015, 15, 12385-12396.	1.9	27
153	Tropical and Boreal Forest â€" Atmosphere Interactions: A Review. Tellus, Series B: Chemical and Physical Meteorology, 2022, 74, 24.	0.8	27
154	Multiple daytime nucleation events in semi-clean savannah and industrial environments in South Africa: analysis based on observations. Atmospheric Chemistry and Physics, 2013, 13, 5523-5532.	1.9	26
155	Ground-based observation of clusters and nucleation-mode particles in the Amazon. Atmospheric Chemistry and Physics, 2018, 18, 13245-13264.	1.9	26
156	Estimating the contribution of ionâ€"ion recombination to sub-2 nm cluster concentrations from atmospheric measurements. Atmospheric Chemistry and Physics, 2013, 13, 11391-11401.	1.9	25
157	Influence of biogenic emissions from boreal forests on aerosolâ€"cloud interactions. Nature Geoscience, 2022, 15, 42-47.	5.4	25
158	Atmospheric reactivity and oxidation capacity during summer at a suburban site between Beijing and Tianjin. Atmospheric Chemistry and Physics, 2020, 20, 8181-8200.	1.9	24
159	A 3D study on the amplification of regional haze and particle growth by local emissions. Npj Climate and Atmospheric Science, 2021, 4, .	2.6	23
160	Analysis of particle size distribution changes between three measurement sites in northern Scandinavia. Atmospheric Chemistry and Physics, 2013, 13, 11887-11903.	1.9	22
161	Exploring non-linear associations between atmospheric new-particle formation and ambient variables: a mutual information approach. Atmospheric Chemistry and Physics, 2018, 18, 12699-12714.	1.9	21
162	Particle growth with photochemical age from new particle formation to haze in the winter of Beijing, China. Science of the Total Environment, 2021, 753, 142207.	3.9	21

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163	Aerosol particle formation in the upper residual layer. Atmospheric Chemistry and Physics, 2021, 21, 7901-7915.	1.9	21
164	Climatic Factors Influencing the Anthrax Outbreak of 2016 in Siberia, Russia. EcoHealth, 2021, 18, 217-228.	0.9	21
165	Vertical profiles of sub-3â€‰nm particles over the boreal forest. Atmospheric Chemistry and Physics, 2019, 19, 4127-4138.	1.9	20
166	Toward Building a Physical Proxy for Gas-Phase Sulfuric Acid Concentration Based on Its Budget Analysis in Polluted Yangtze River Delta, East China. Environmental Science & Technology, 2021, 55, 6665-6676.	4.6	20
167	Aerosol Particle Formation Events at Two Siberian Stations. , 2007, , 840-844.		20
168	The occurrence of sulfuric acid-water nucleation in plumes: urban environment. Tellus, Series B: Chemical and Physical Meteorology, 1996, 48, 65-82.	0.8	19
169	A numerical comparison of different methods for determining the particle formation rate. Atmospheric Chemistry and Physics, 2012, 12, 2289-2295.	1.9	19
170	Modelling the contribution of biogenic volatile organic compounds to new particle formation in the JÃ¼lich plant atmosphere chamber. Atmospheric Chemistry and Physics, 2015, 15, 10777-10798.	1.9	19
171	New particle formation, growth and apparent shrinkage at a rural background site in western Saudi Arabia. Atmospheric Chemistry and Physics, 2019, 19, 10537-10555.	1.9	19
172	An indicator for sulfuric acidâ€“amine nucleation in atmospheric environments. Aerosol Science and Technology, 2021, 55, 1059-1069.	1.5	19
173	Towards understanding the characteristics of new particle formation in the Eastern Mediterranean. Atmospheric Chemistry and Physics, 2021, 21, 9223-9251.	1.9	19
174	PAN EURASIAN EXPERIMENT (PEEX) - A RESEARCH INITIATIVE MEETING THE GRAND CHALLENGES OF THE CHANGING ENVIRONMENT OF THE NORTHERN PAN-EURASIAN ARCTIC-BOREAL AREAS. Geography, Environment, Sustainability, 2014, 7, 13-48.	0.6	19
175	Parameterization of ion-induced nucleation rates based on ambient observations. Atmospheric Chemistry and Physics, 2011, 11, 3393-3402.	1.9	18
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177	Temperature influence on the natural aerosol budget over boreal forests. Atmospheric Chemistry and Physics, 2014, 14, 8295-8308.	1.9	18
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