

Veli-Matti Kerminen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	An extensive data set for in situ microphysical characterization of low-level clouds in a Finnish sub-Arctic site. <i>Earth System Science Data</i> , 2022 , 14, 637-649	10.5	0
246	Towards a concentration closure of sub-6 nm aerosol particles and sub-3 nm atmospheric clusters. <i>Journal of Aerosol Science</i> , 2022 , 159, 105878	4.3	1
245	Tropical and Boreal Forest – Atmosphere Interactions: A Review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022 , 74, 24-163	3.3	1
244	Estimation of sulfuric acid concentration using ambient ion composition and concentration data obtained with atmospheric pressure interface time-of-flight ion mass spectrometer. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 1957-1965	4	0
243	Overview: Recent advances in the understanding of the northern Eurasian environments and of the urban air quality in China – A Pan-Eurasian Experiment (PEEX) programme perspective. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 4413-4469	6.8	1
242	Influence of biogenic emissions from boreal forests on aerosol–cloud interactions. <i>Nature Geoscience</i> , 2022 , 15, 42-47	18.3	1
241	Influence of Aerosol Chemical Composition on Condensation Sink Efficiency and New Particle Formation in Beijing.. <i>Environmental Science and Technology Letters</i> , 2022 , 9, 375-382	11	0
240	Aerosol-boundary-layer-monsoon interactions amplify semi-direct effect of biomass smoke on low cloud formation in Southeast Asia. <i>Nature Communications</i> , 2021 , 12, 6416	17.4	7
239	Evaluation of convective boundary layer height estimates using radars operating at different frequency bands. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 7341-7353	4	2
238	Molecular Composition of Oxygenated Organic Molecules and Their Contributions to Organic Aerosol in Beijing. <i>Environmental Science & Technology</i> , 2021 ,	10.3	3
237	Modelling the influence of biotic plant stress on atmospheric aerosol particle processes throughout a growing season. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 17389-17431	6.8	1
236	Wintertime subarctic new particle formation from Kola Peninsula sulfur emissions. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 17559-17576	6.8	2
235	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
234	An indicator for sulfuric acid–amine nucleation in atmospheric environments. <i>Aerosol Science and Technology</i> , 2021 , 55, 1059-1069	3.4	5
233	Aerosol particle formation in the upper residual layer. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 7901-7915	15.8	8
232	Opinion: Gigacity – A source of problems or the new way to sustainable development. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 8313-8322	6.8	5
231	Toward Building a Physical Proxy for Gas-Phase Sulfuric Acid Concentration Based on Its Budget Analysis in Polluted Yangtze River Delta, East China. <i>Environmental Science & Technology</i> , 2021 , 55, 6665-6676	10.3	5

230	Cluster Analysis of Submicron Particle Number Size Distributions at the SORPES Station in the Yangtze River Delta of East China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034004	4.4	2
229	Towards understanding the characteristics of new particle formation in the Eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 9223-9251	6.8	4
228	Climatic Factors Influencing the Anthrax Outbreak of 2016 in Siberia, Russia. <i>EcoHealth</i> , 2021 , 18, 217-228	3.1	8
227	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
226	Determination of the collision rate coefficient between charged iodic acid clusters and iodic acid using the appearance time method. <i>Aerosol Science and Technology</i> , 2021 , 55, 231-242	3.4	8
225	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
224	A 3D study on the amplification of regional haze and particle growth by local emissions. <i>Npj Climate and Atmospheric Science</i> , 2021 , 4,	8	13
223	The effect of urban morphological characteristics on the spatial variation of PM air quality in downtown Nanjing.. <i>Environmental Science Atmospheres</i> , 2021 , 1, 481-497		1
222	Particle growth with photochemical age from new particle formation to haze in the winter of Beijing, China. <i>Science of the Total Environment</i> , 2021 , 753, 142207	10.2	13
221	Role of iodine oxoacids in atmospheric aerosol nucleation. <i>Science</i> , 2021 , 371, 589-595	33.3	31
220	Sulfuric acid–amine nucleation in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2457-2468	6.8	25
219	Influence of vegetation on occurrence and time distributions of regional new aerosol particle formation and growth. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2861-2880	6.8	2
218	Differing Mechanisms of New Particle Formation at Two Arctic Sites. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091334	4.9	17
217	Atmospheric gaseous hydrochloric and hydrobromic acid in urban Beijing, China: detection, source identification and potential atmospheric impacts. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 11437-11452	6.8	4
216	Zeppelin-led study on the onset of new particle formation in the planetary boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12649-12663	6.8	5
215	Rapid mass growth and enhanced light extinction of atmospheric aerosols during the heating season haze episodes in Beijing revealed by aerosol–chemistry–radiation boundary layer interaction. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12173-12187	6.8	4
214	Size-dependent influence of NO on the growth rates of organic aerosol particles. <i>Science Advances</i> , 2020 , 6, eaay4945	14.3	28
213	Size segregated particle number and mass emissions in urban Beijing 2020 ,		1

212	Seasonal Characteristics of New Particle Formation and Growth in Urban Beijing. <i>Environmental Science & Technology</i> , 2020 , 54, 8547-8557	10.3	35
211	Variation of size-segregated particle number concentrations in wintertime Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1201-1216	6.8	32
210	Formation and growth of sub-3-nm aerosol particles in experimental chambers. <i>Nature Protocols</i> , 2020 , 15, 1013-1040	18.8	21
209	In situ cloud ground-based measurements in the Finnish sub-Arctic: intercomparison of three cloud spectrometer setups. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 5129-5147	4	4
208	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
207	Roll vortices induce new particle formation bursts in the planetary boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 11841-11854	6.8	3
206	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
205	Clouds over Hyytiö Finland: an algorithm to classify clouds based on solar radiation and cloud base height measurements. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 5595-5619	4	3
204	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
203	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
202	Atmospheric reactivity and oxidation capacity during summer at a suburban site between Beijing and Tianjin. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 8181-8200	6.8	9
201	Unprecedented Ambient Sulfur Trioxide (SO ₂) Detection: Possible Formation Mechanism and Atmospheric Implications. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 809-818	11	14
200	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
199	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
198	Vertical profiles of sub-3 nm particles over the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4127-4138	6.8	13
197	Atmospheric new particle formation in China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 115-138	6.8	73
196	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
195	New particle formation, growth and apparent shrinkage at a rural background site in western Saudi Arabia. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10537-10555	6.8	11

194	Estimating cloud condensation nuclei number concentrations using aerosol optical properties: role of particle number size distribution and parameterization. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 15483-15502	6.8	4
193	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
192	The Silk Road agenda of the Pan-Eurasian Experiment (PEEX) program. <i>Big Earth Data</i> , 2018 , 2, 8-35	4.1	5
191	Observations of ozone depletion events in a Finnish boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 49-63	6.8	6
190	A simple model for the time evolution of the condensation sink in the atmosphere for intermediate Knudsen numbers. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2431-2442	6.8	6
189	Observations of biogenic ion-induced cluster formation in the atmosphere. <i>Science Advances</i> , 2018 , 4, eaar5218	14.3	37
188	Atmospheric new particle formation from sulfuric acid and amines in a Chinese megacity. <i>Science</i> , 2018 , 361, 278-281	33.3	265
187	Combining airborne in situ and ground-based lidar measurements for attribution of aerosol layers. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10575-10591	6.8	6
186	Formation and growth of atmospheric nanoparticles in the eastern Mediterranean: Results from long-term measurements and process simulations 2018 ,		1
185	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
184	Advancing global aerosol simulations with size-segregated anthropogenic particle number emissions. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10039-10054	6.8	9
183	Vertical and horizontal distribution of regional new particle formation events in Madrid 2018 ,		1
182	A Finnish Meteorological Institute-Aerosol Cloud Interaction Tube (FMI-ACIT): Experimental setup and tests of proper operation. <i>Journal of Chemical Physics</i> , 2018 , 149, 124201	3.9	1
181	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
180	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
179	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , 2018 , 4, eaau5363	14.3	105
178	Ion-induced sulfuric acid-ammonia nucleation drives particle formation in coastal Antarctica. <i>Science Advances</i> , 2018 , 4, eaat9744	14.3	48
177	Rapid formation of intense haze episode in Beijing 2018 ,		2

176	Atmospheric new particle formation and growth: review of field observations. <i>Environmental Research Letters</i> , 2018 , 13, 103003	6.2	192
175	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
174	Prediction of photosynthesis in Scots pine ecosystems across Europe by a needle-level theory. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13321-13328	6.8	
173	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
172	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
171	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
170	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
169	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
168	Global analysis of continental boundary layer new particle formation based on long-term measurements 2018 ,		2
167	Vertical profiles of sub-3 nm particles over the boreal forest 2018 ,		1
166	Direct effect of aerosols on solar radiation and gross primary production in boreal and hemiboreal forests 2018 ,		1
165	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
164	Atmospheric gas-to-particle conversion: why NPF events are observed in megacities?. <i>Faraday Discussions</i> , 2017 , 200, 271-288	3.6	84
163	Solar eclipse demonstrating the importance of photochemistry in new particle formation. <i>Scientific Reports</i> , 2017 , 7, 45707	4.9	25
162	Production of neutral molecular clusters by controlled neutralization of mobility standards. <i>Aerosol Science and Technology</i> , 2017 , 51, 946-955	3.4	5
161	Prediction of photosynthesis in Scots pine ecosystems across Europe by needle-level theory 2017 ,		1
160	Direct observation of molecular clusters and nucleation mode particles in the Amazon 2017 ,		2
159	Features in air ions measured by an air ion spectrometer (AIS) at Dome C. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 13783-13800	6.8	8

158	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
157	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
156	Estimates of the organic aerosol volatility in a boreal forest using two independent methods. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 4387-4399	6.8	9
155	Volatility of mixed atmospheric humic-like substances and ammonium sulfate particles. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3659-3672	6.8	6
154	Annual cycle of Scots pine photosynthesis. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 15045-15053	6.8	3
153	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
152	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
151	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO. <i>Nature</i> , 2016 , 537, 532-534	50.4	155
150	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
149	Enhanced air pollution via aerosol-boundary layer feedback in China. <i>Scientific Reports</i> , 2016 , 6, 18998	4.9	215
148	A chamber study of the influence of boreal BVOC emissions and sulfuric acid on nanoparticle formation rates at ambient concentrations. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1955-1970	6.8	6
147	Conceptual design of a measurement network of the global change. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1017-1028	6.8	24
146	Observational evidence for aerosols increasing upper tropospheric humidity. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14331-14342	6.8	6
145	How do air ions reflect variations in ionising radiation in the lower atmosphere in a boreal forest?. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14297-14315	6.8	10
144	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
143	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
142	Regional effect on urban atmospheric nucleation. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 8715-8728	6.8	40
141	On secondary new particle formation in China. <i>Frontiers of Environmental Science and Engineering</i> , 2016 , 10, 1	5.8	39

140	A global view on atmospheric concentrations of sub-3 nm particles measured with the Particle Size Magnifier 2016 ,		1
139	Vertical and horizontal variation of aerosol number size distribution in the boreal environment 2016 ,		12
138	Pan-Eurasian Experiment (PEEX): Towards holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the Northern Eurasian region 2016 ,		2
137	Enhanced haze pollution by black carbon in megacities in China. <i>Geophysical Research Letters</i> , 2016 , 43, 2873-2879	4.9	399
136	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
135	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
134	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
133	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
132	Impacts of emission reductions on aerosol radiative effects. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5501-5519	6.8	7
131	Experimental investigation of ion-ion recombination under atmospheric conditions. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7203-7216	6.8	33
130	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
129	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
128	Influence of biomass burning plumes on HONO chemistry in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1147-1159	6.8	74
127	Relating the hygroscopic properties of submicron aerosol to both gas- and particle-phase chemical composition in a boreal forest environment. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11999-12009	6.8	10
126	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
125	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
124	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
123	Direct radiative feedback due to biogenic secondary organic aerosol estimated from boreal forest site observations. <i>Environmental Research Letters</i> , 2015 , 10, 104005	6.2	6

122	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
121	On the composition of ammonium-sulfuric-acid ion clusters during aerosol particle formation. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 55-78	6.8	68
120	Estimating atmospheric nucleation rates from size distribution measurements: Analytical equations for the case of size dependent growth rates. <i>Journal of Aerosol Science</i> , 2014 , 69, 13-20	4.3	12
119	A large source of low-volatility secondary organic aerosol. <i>Nature</i> , 2014 , 506, 476-9	50.4	1078
118	Rapid changes in biomass burning aerosols by atmospheric oxidation. <i>Geophysical Research Letters</i> , 2014 , 41, 2644-2651	4.9	143
117	Polluted dust promotes new particle formation and growth. <i>Scientific Reports</i> , 2014 , 4, 6634	4.9	104
116	Temperature influence on the natural aerosol budget over boreal forests. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 8295-8308	6.8	13
115	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
114	Chemical composition, main sources and temporal variability of PM ₁ aerosols in southern African grassland. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1909-1927	6.8	62
113	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
112	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
111	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
110	Schnelle Autoxidation bildet hochoxidierte RO ₂ -Radikale in der Atmosphäre. <i>Angewandte Chemie</i> , 2014 , 126, 14825-14829	3.6	7
109	New foliage growth is a significant, unaccounted source for volatiles in boreal evergreen forests. <i>Biogeosciences</i> , 2014 , 11, 1331-1344	4.6	47
108	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
107	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
106	Direct observations of atmospheric aerosol nucleation. <i>Science</i> , 2013 , 339, 943-6	33.3	700
105	Warming-induced increase in aerosol number concentration likely to moderate climate change. <i>Nature Geoscience</i> , 2013 , 6, 438-442	18.3	206

104	Long-term size-segregated cloud condensation nuclei counter (CCNC) measurements in a boreal environment and the implications for aerosol-cloud interactions 2013 ,		1
103	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
102	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
101	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
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	Using measurements of the aerosol charging state in determination of the particle growth rate and the proportion of ion-induced nucleation. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 463-486	6.8	5
97	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
96	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
95	Antarctic new particle formation from continental biogenic precursors. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3527-3546	6.8	36
94	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
93	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
92	Measurement of the nucleation of atmospheric aerosol particles. <i>Nature Protocols</i> , 2012 , 7, 1651-67	18.8	319
91	A new atmospherically relevant oxidant of sulphur dioxide. <i>Nature</i> , 2012 , 488, 193-6	50.4	372
90	Effect of aerosol size distribution changes on AOD, CCN and cloud droplet concentration: Case studies from Erfurt and Melpitz, Germany. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		12
89	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
88	Modeling Dry Deposition of Aerosol Particles onto Rough Surfaces. <i>Aerosol Science and Technology</i> , 2012 , 46, 44-59	3.4	42
87	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

86	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
85	Aerosol charging state at an urban site: new analytical approach and implications for ion-induced nucleation. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4647-4666	6.8	7
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