Ari Laaksonen

List of Publications by Year
in descending order

270 papers	26,109 citations	11235 73 h-index	10399 144 g-index
319 all docs	319 docs citations	319 times ranked	12500 citing authors

#	Article	IF	Citations
1	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
2	Surfactant partitioning in cloud droplet activation: a study of C8, C10, C12 and C14 normal fatty acid sodium salts. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 416.	0.8	77
3	Multimodel estimates of the changes in the Baltic Sea ice cover during the present century. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 66, 22617.	0.8	25
4	Heterogeneous nucleation of water vapor. , 2022, , 139-169.		0
5	Homogeneous gasâ€“liquid nucleation theory. , 2022, , 45-70.		0
6	Cloud drop nucleation. , 2022, , 171-207.		0
7	Homogeneous gasâ€“liquid nucleation experiments. , 2022, , 71-82.		0
8	Simulations and molecular-based theories. , 2022, , 83-105.		0
9	Binary and multicomponent gasâ€“liquid nucleation. , 2022, , 107-137.		0
10	Ice nucleation. , 2022, , 209-248.		2
11	Particle emissions from a modern heavy-duty diesel engine as ice nuclei in immersion freezing mode: a laboratory study on fossil and renewable fuels. Atmospheric Chemistry and Physics, 2022, 22, 1615-1631.	1.9	1
12	Ice nucleation on surrogates of boreal forest SOA particles: effect of water content and oxidative age. Atmospheric Chemistry and Physics, 2021, 21, 11069-11078.	1.9	7
13	Evaluation of aerosol and cloud properties in three climate models using MODIS observations and its corresponding COSP simulator, as well as their application in aerosolâ€“cloud interactions. Atmospheric Chemistry and Physics, 2020, 20, 1607-1626.	1.9	12
14	Heterogeneous nucleation of water vapor on different types of black carbon particles. Atmospheric Chemistry and Physics, 2020, 20, 13579-13589.	1.9	14
15	SPIN modification for low-temperature experiments. Atmospheric Measurement Techniques, 2020, 13, 7059-7067.	1.2	4
16	The road weather model RoadSurf (v6.60b) driven by the regional climate model HCLIM38: evaluation over Finland. Geoscientific Model Development, 2019, 12, 3481-3501.	1.3	5
17	New particle formation in the sulfuric acidâ€“dimethylamineâ€“water system: reevaluation of CLOUD chamber measurements and comparison to an aerosol nucleation and growth model. Atmospheric Chemistry and Physics, 2018, 18, 845-863.	1.9	92
18	Identification of new particle formation events with deep learning. Atmospheric Chemistry and Physics, 2018, 18, 9597-9615.	1.9	17

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19	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
20	The impact of aerosol emissions on the 1.5â€‰Â°C pathways. Environmental Research Letters, 2018, 13, 044011.	2.2	21
21	A model intercomparison of CCN-limited tenuous clouds in the high Arctic. Atmospheric Chemistry and Physics, 2018, 18, 11041-11071.	1.9	54
22	The regional climate model REMO (v2015) coupled with the 1-D freshwater lake model FLake (v1): Fenno-Scandinavian climate and lakes. Geoscientific Model Development, 2018, 11, 1321-1342.	1.3	24
23	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. Nature, 2017, 546, 637-641.	13.7	232
24	Early snowmelt significantly enhances boreal springtime carbon uptake. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11081-11086.	3.3	84
25	Increasing large scale windstorm damage in Western, Central and Northern European forests, 1951â€“2010. Scientific Reports, 2017, 7, 46397.	1.6	93
26	Estimation of atmospheric particle formation rates through an analytical formula: validation and application in HyytiÃlÃ and Puijo, Finland. Atmospheric Chemistry and Physics, 2017, 17, 13361-13371.	1.9	1
27	Implementation of state-of-the-art ternary new-particle formation scheme to the regional chemical transport model PMCAMx-UF in Europe. Geoscientific Model Development, 2016, 9, 2741-2754.	1.3	13
28	Surface fractal dimension, water adsorption efficiency and cloud nucleation activity of insoluble aerosol. Scientific Reports, 2016, 6, 25504.	1.6	26
29	Effect of aerosol concentration and absorbing aerosol on the radiation fog life cycle. Atmospheric Environment, 2016, 133, 26-33.	1.9	47
30	The role of low-volatility organic compounds in initial particle growth in the atmosphere. Nature, 2016, 533, 527-531.	13.7	540
31	Ion-induced nucleation of pure biogenic particles. Nature, 2016, 533, 521-526.	13.7	528
32	Reduced anthropogenic aerosol radiative forcing caused by biogenic new particle formation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12053-12058.	3.3	107
33	Herbivory by an Outbreaking Moth Increases Emissions of Biogenic Volatiles and Leads to Enhanced Secondary Organic Aerosol Formation Capacity. Environmental Science & Technology, 2016, 50, 11501-11510.	4.6	34
34	Ubiquity of organic nitrates from nighttime chemistry in the European submicron aerosol. Geophysical Research Letters, 2016, 43, 7735-7744.	1.5	182
35	Modeling the thermodynamics and kinetics of sulfuric acid-dimethylamine-water nanoparticle growth in the CLOUD chamber. Aerosol Science and Technology, 2016, 50, 1017-1032.	1.5	13
36	The effect of acidâ€“base clustering and ions on the growth of atmospheric nano-particles. Nature Communications, 2016, 7, 11594.	5.8	116

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37	An adsorption theory of heterogeneous nucleation of water vapour on nanoparticles. Atmospheric Chemistry and Physics, 2016, 16, 135-143.	1.9	23
38	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
39	High concentrations of sub-3nm clusters and frequent new particle formation observed in the Po Valley, Italy, during the PEGASOS 2012 campaign. Atmospheric Chemistry and Physics, 2016, 16, 1919-1935.	1.9	25
40	Hygroscopicity of nanoparticles produced from homogeneous nucleation in the CLOUD experiments. Atmospheric Chemistry and Physics, 2016, 16, 293-304.	1.9	29
41	The radiative impact of Nordic anthropogenic black carbon. Tellus, Series B: Chemical and Physical Meteorology, 2016, 68, 27428.	0.8	4
42	CCN activation of fumed silica aerosols mixed with soluble pollutants. Atmospheric Chemistry and Physics, 2015, 15, 3815-3829.	1.9	8
43	Impacts of emission reductions on aerosol radiative effects. Atmospheric Chemistry and Physics, 2015, 15, 5501-5519.	1.9	7
44	Adsorptive uptake of water by semisolid secondary organic aerosols. Geophysical Research Letters, 2015, 42, 3063-3068.	1.5	139
45	Biotic stress accelerates formation of climate-relevant aerosols in boreal forests. Atmospheric Chemistry and Physics, 2015, 15, 12139-12157.	1.9	48
46	Geographical and diurnal features of amineâ€enhanced boundary layer nucleation. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9606-9624.	1.2	37
47	On the composition of ammoniaâ€“sulfuric-acid ion clusters during aerosol particle formation. Atmospheric Chemistry and Physics, 2015, 15, 55-78.	1.9	84
48	Real-Time Chemical Composition Analysis of Particulate Emissions from Woodchip Combustion. Energy & Fuels, 2015, 29, 1143-1150.	2.5	14
49	Trends in the average temperature in Finland, 1847â€“2013. Stochastic Environmental Research and Risk Assessment, 2015, 29, 1521-1529.	1.9	130
50	A Unifying Model for Adsorption and Nucleation of Vapors on Solid Surfaces. Journal of Physical Chemistry A, 2015, 119, 3736-3745.	1.1	35
51	Communication: Kinetics of scavenging of small, nucleating clusters: First nucleation theorem and sum rules. Journal of Chemical Physics, 2015, 142, 011102.	1.2	13
52	Improved power-law estimates from multiple samples provided by millennium climate simulations. Theoretical and Applied Climatology, 2015, 119, 667-677.	1.3	8
53	Climate impacts of changing aerosol emissions since 1996. Geophysical Research Letters, 2014, 41, 4711-4718.	1.5	30
54	Ammonium nitrate evaporation and nitric acid condensation in DMT CCN counters. Atmospheric Measurement Techniques, 2014, 7, 1377-1384.	1.2	14

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55	Biogeophysical impacts of peatland forestation on regional climate changes in Finland. Biogeosciences, 2014, 11, 7251-7267.	1.3	24
56	Reallocation in modal aerosol models: impacts on predicting aerosol radiative effects. Geoscientific Model Development, 2014, 7, 161-174.	1.3	11
57	Observing wind, aerosol particles, cloud and precipitation: Finland's new ground-based remote-sensing network. Atmospheric Measurement Techniques, 2014, 7, 1351-1375.	1.2	64
58	Insight into Acidâ€“Base Nucleation Experiments by Comparison of the Chemical Composition of Positive, Negative, and Neutral Clusters. Environmental Science & Technology, 2014, 48, 13675-13684.	4.6	51
59	Evaluation of North Eurasian snow-off dates in the ECHAM5.4 atmospheric general circulation model. Geoscientific Model Development, 2014, 7, 3037-3057.	1.3	5
60	Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. Science, 2014, 344, 717-721.	6.0	456
61	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
62	Aerosol Liquid Water Driven by Anthropogenic Nitrate: Implications for Lifetimes of Water-Soluble Organic Gases and Potential for Secondary Organic Aerosol Formation. Environmental Science & Technology, 2014, 48, 11127-11136.	4.6	94
63	Comment on â€œChanges in Droplet Surface Tension Affect the Observed Hygroscopicity of Photochemically Aged Biomass Burning Aerosolâ€. Environmental Science & Technology, 2014, 48, 2082-2083.	4.6	4
64	Representing situational knowledge acquired from sensor data for atmospheric phenomena. Environmental Modelling and Software, 2014, 58, 27-47.	1.9	15
65	Spatial distributions and seasonal cycles of aerosol climate effects in India seen in a global climateâ€“aerosol model. Atmospheric Chemistry and Physics, 2014, 14, 10177-10192.	1.9	12
66	Atmospheric submicron aerosol composition and particulate organic nitrate formation in a boreal forestlandâ€“urban mixed region. Atmospheric Chemistry and Physics, 2014, 14, 13483-13495.	1.9	53
67	Analysis of nucleation events in the European boundary layer using the regional aerosolâ€“climate model REMO-HAM with a solar radiation-driven OH-proxy. Atmospheric Chemistry and Physics, 2014, 14, 11711-11729.	1.9	12
68	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
69	The effect of local sources on particle size and chemical composition and their role in aerosolâ€“cloud interactions at Puijo measurement station. Atmospheric Chemistry and Physics, 2014, 14, 6021-6034.	1.9	15
70	Hygroscopic and chemical characterisation of Po Valley aerosol. Atmospheric Chemistry and Physics, 2014, 14, 1557-1570.	1.9	11
71	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
72	Molecular understanding of sulphuric acidâ€“amine particle nucleation in the atmosphere. Nature, 2013, 502, 359-363.	13.7	774

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73	Direct Observations of Atmospheric Aerosol Nucleation. Science, 2013, 339, 943-946.	6.0	876
74	Warming-induced increase in aerosol number concentration likely to moderate climate change. Nature Geoscience, 2013, 6, 438-442.	5.4	282
75	Aerosol Chemical Composition in Cloud Events by High Resolution Time-of-Flight Aerosol Mass Spectrometry. Environmental Science & Technology, 2013, 47, 2645-2653.	4.6	40
76	A combined theory of heterogeneous nucleation and adsorption of vapors on solid surfaces. , 2013, , .		1
77	Repairing the first nucleation theorem: Precritical cluster losses. , 2013, , .		3
78	Long-term measurements of cloud droplet concentrations and aerosolâ€“cloud interactions in continental boundary layer clouds. Tellus, Series B: Chemical and Physical Meteorology, 2013, 65, 20138.	0.8	30
79	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
80	Effective aerosol optical depth from pyranometer measurements of surface solar radiation (global) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.9	18
81	Black carbon concentration and deposition estimations in Finland by the regional aerosolâ€“climate model REMO-HAM. Atmospheric Chemistry and Physics, 2013, 13, 4033-4055.	1.9	24
82	Evolution of particle composition in CLOUD nucleation experiments. Atmospheric Chemistry and Physics, 2013, 13, 5587-5600.	1.9	33
83	Formation and growth of nucleated particles into cloud condensation nuclei: modelâ€“measurement comparison. Atmospheric Chemistry and Physics, 2013, 13, 7645-7663.	1.9	87
84	Acquisition and Representation of Knowledge for Atmospheric New Particle Formation. IFIP Advances in Information and Communication Technology, 2013, , 98-108.	0.5	2
85	Stratospheric passenger flights are likely an inefficient geoengineering strategy. Environmental Research Letters, 2012, 7, 034021.	2.2	6
86	The regional aerosol-climate model REMO-HAM. Geoscientific Model Development, 2012, 5, 1323-1339.	1.3	19
87	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
88	Seasonal cycle and source analyses of aerosol optical properties in a semi-urban environment at Puijo station in Eastern Finland. Atmospheric Chemistry and Physics, 2012, 12, 5647-5659.	1.9	20
89	Humidity-dependent phase state of SOA particles from biogenic and anthropogenic precursors. Atmospheric Chemistry and Physics, 2012, 12, 7517-7529.	1.9	219
90	Brightening of the global cloud field by nitric acid and the associated radiative forcing. Atmospheric Chemistry and Physics, 2012, 12, 7625-7633.	1.9	10

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91	Determination of the biogenic secondary organic aerosol fraction in the boreal forest by NMR spectroscopy. Atmospheric Chemistry and Physics, 2012, 12, 941-959.	1.9	51
92	Measurement of the nucleation of atmospheric aerosol particles. Nature Protocols, 2012, 7, 1651-1667.	5.5	435
93	Quasiperiodic climate variability with a period of 50â€“80Âyears: Fourier analysis of measurements and Earth System Model simulations. Climate Dynamics, 2012, 39, 1999-2011.	1.7	13
94	Climate effects of northern hemisphere volcanic eruptions in an Earth System Model. Atmospheric Research, 2012, 114-115, 107-118.	1.8	5
95	Surfactant effects in global simulations of cloud droplet activation. Geophysical Research Letters, 2012, 39, .	1.5	51
96	Effect of aerosol size distribution changes on AOD, CCN and cloud droplet concentration: Case studies from Erfurt and Melpitz, Germany. Journal of Geophysical Research, 2012, 117, .	3.3	14
97	In-situ observations of EyjafjallajÃ¶kull ash particles by hot-air balloon. Atmospheric Environment, 2012, 48, 104-112.	1.9	14
98	Biomass burning aerosols observed in Eastern Finland during the Russian wildfires in summer 2010 â€“ Part 1: In-situ aerosol characterization. Atmospheric Environment, 2012, 47, 269-278.	1.9	30
99	Partitioning of semivolatile surface-active compounds between bulk, surface and gas phase. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	27
100	The role of relative humidity in continental new particle formation. Journal of Geophysical Research, 2011, 116, .	3.3	127
101	Correction to â€œRelationship between aerosol oxidation level and hygroscopic properties of laboratory generated secondary organic aerosol (SOA) particlesâ€• Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	5
102	Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. Nature, 2011, 476, 429-433.	13.7	1,114
103	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
104	New particle formation events in semi-clean South African savannah. Atmospheric Chemistry and Physics, 2011, 11, 3333-3346.	1.9	86
105	A statistical proxy for sulphuric acid concentration. Atmospheric Chemistry and Physics, 2011, 11, 11319-11334.	1.9	124
106	Aerosol hygroscopicity and CCN activation kinetics in a boreal forest environment during the 2007 EUCAARI campaign. Atmospheric Chemistry and Physics, 2011, 11, 12369-12386.	1.9	110
107	Sources and atmospheric processing of organic aerosol in the Mediterranean: insights from aerosol mass spectrometer factor analysis. Atmospheric Chemistry and Physics, 2011, 11, 12499-12515.	1.9	44
108	Mass yields of secondary organic aerosols from the oxidation of Î±-pinene and real plant emissions. Atmospheric Chemistry and Physics, 2011, 11, 1367-1378.	1.9	68

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109	Spatial distributions and seasonal cycles of aerosols in India and China seen in global climate-aerosol model. Atmospheric Chemistry and Physics, 2011, 11, 7975-7990.	1.9	45
110	Bounce behavior of freshly nucleated biogenic secondary organic aerosol particles. Atmospheric Chemistry and Physics, 2011, 11, 8759-8766.	1.9	92
111	Meteorological and trace gas factors affecting the number concentration of atmospheric Aitken (<i>D</i>_p = 50 nm) particles in the continental boundary layer: parameterization using a multivariate mixed effects model. Geoscientific Model Development, 2011, 4, 1-13.	1.3	33
112	A simplified treatment of surfactant effects on cloud drop activation. Geoscientific Model Development, 2011, 4, 107-116.	1.3	36
113	On-Line Characterization of Morphology and Water Adsorption on Fumed Silica Nanoparticles. Aerosol Science and Technology, 2011, 45, 1441-1447.	1.5	26
114	Changes in the production rate of secondary aerosol particles in Central Europe in view of decreasing SO₂ emissions between 1996 and 2006. Atmospheric Chemistry and Physics, 2010, 10, 1071-1091.	1.9	74
115	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
116	Surfactants in cloud droplet activation: mixed organic-inorganic particles. Atmospheric Chemistry and Physics, 2010, 10, 5663-5683.	1.9	123
117	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
118	Atmospheric nucleation: highlights of the EUCAARI project and future directions. Atmospheric Chemistry and Physics, 2010, 10, 10829-10848.	1.9	144
119	Results from the CERN pilot CLOUD experiment. Atmospheric Chemistry and Physics, 2010, 10, 1635-1647.	1.9	96
120	Physicochemical properties and origin of organic groups detected in boreal forest using an aerosol mass spectrometer. Atmospheric Chemistry and Physics, 2010, 10, 2063-2077.	1.9	87
121	Roadside aerosol study using hygroscopic, organic and volatility TDMAs: Characterization and mixing state. Atmospheric Environment, 2010, 44, 976-986.	1.9	30
122	An amorphous solid state of biogenic secondary organic aerosol particles. Nature, 2010, 467, 824-827.	13.7	719
123	Comment on "Using multiple observationally-based constraints to estimate climate sensitivity" by J. D. Annan and J. C. Hargreaves, Geophys. Res. Lett., 2006. Climate of the Past, 2010, 6, 411-414.	1.3	4
124	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
125	Relationship between aerosol oxidation level and hygroscopic properties of laboratory generated secondary organic aerosol (SOA) particles. Geophysical Research Letters, 2010, 37, .	1.5	257
126	Forestation of boreal peatlands: Impacts of changing albedo and greenhouse gas fluxes on radiative forcing. Journal of Geophysical Research, 2010, 115, .	3.3	64

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127	Evolution of Organic Aerosols in the Atmosphere. Science, 2009, 326, 1525-1529.	6.0	3,374
128	New particle formation from the oxidation of direct emissions of pine seedlings. Atmospheric Chemistry and Physics, 2009, 9, 8121-8137.	1.9	64
129	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
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	Overview of the biosphere-aerosol-cloud-climate interactions (BACCI) studies. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 300-317.	0.8	12
132	Cloud forming potential of secondary organic aerosol under near atmospheric conditions. Geophysical Research Letters, 2008, 35, .	1.5	145
133	Displacement barrier heights from experimental nucleation rate data. Atmospheric Research, 2008, 90, 303-312.	1.8	6
134	Surface Tensions of Multicomponent Aqueous Electrolyte Solutions: Predictive Models Based on Binary Limits. Journal of Physical Chemistry C, 2008, 112, 10428-10434.	1.5	4
135	SALSA â€“ a Sectional Aerosol module for Large Scale Applications. Atmospheric Chemistry and Physics, 2008, 8, 2469-2483.	1.9	110
136	Technical note: Analytical formulae for the critical supersaturations and droplet diameters of CCN containing insoluble material. Atmospheric Chemistry and Physics, 2008, 8, 1985-1988.	1.9	9
137	SO₂ oxidation products other than H₂SO₄ as a trigger of new particle formation. Part 2: Comparison of ambient and laboratory measurements, and atmospheric implications. Atmospheric Chemistry and Physics, 2008, 8, 7255-7264.	1.9	41
138	The role of VOC oxidation products in continental new particle formation. Atmospheric Chemistry and Physics, 2008, 8, 2657-2665.	1.9	202
139	SO₂ oxidation products other than H₂SO₄ as a trigger of new particle formation. Part 1: Laboratory investigations. Atmospheric Chemistry and Physics, 2008, 8, 6365-6374.	1.9	38
140	Students' initial knowledge of electric and magnetic fieldsâ€”more profound explanations and reasoning models for undesired conceptions. European Journal of Physics, 2007, 28, 51-60.	0.3	47
141	Nucleation and growth of new particles in Po Valley, Italy. Atmospheric Chemistry and Physics, 2007, 7, 355-376.	1.9	179
142	The effect of H₂O adsorption on cloud drop activation of insoluble particles: a theoretical framework. Atmospheric Chemistry and Physics, 2007, 7, 6175-6180.	1.9	84
143	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
144	Relation of air mass history to nucleation events in Po Valley, Italy, using back trajectories analysis. Atmospheric Chemistry and Physics, 2007, 7, 839-853.	1.9	35

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145	Hygroscopic properties of ultrafine aerosol particles in the boreal forest: diurnal variation, solubility and the influence of sulfuric acid. Atmospheric Chemistry and Physics, 2007, 7, 211-222.	1.9	95
146	Surface tension and scaling of critical nuclei in diatomic and triatomic fluids. Journal of Chemical Physics, 2007, 126, 134503.	1.2	10
147	Weekly precipitation cycles? Lack of evidence from United States surface stations. Geophysical Research Letters, 2007, 34, .	1.5	49
148	Effect of particle phase oligomer formation on aerosol growth. Atmospheric Environment, 2007, 41, 1768-1776.	1.9	21
149	The effects of increasing atmospheric ozone on biogenic monoterpene profiles and the formation of secondary aerosols. Atmospheric Environment, 2007, 41, 4877-4887.	1.9	51
150	Scaling of Critical Nuclei Composed of Diatomic and Triatomic Molecules. , 2007, , 177-180.		0
151	Conditions Favouring New Particle Formation in A Polluted Environment: Results of the QUEST-Po Valley Experiment 2004. , 2007, , 966-968.		0
152	Effect of Nucleation and Secondary Organic Aerosol Formation on Cloud Droplet Number Concentrations. , 2007, , 580-584.		0
153	Displacement Barrier Heights from Experimental Nucleation Rate Data: Scaling and Universality. , 2007, , 139-143.		0
154	Cloud formation of particles containing humic-like substances. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	52
155	The influence of surfactant properties on critical supersaturations of cloud condensation nuclei. Journal of Aerosol Science, 2006, 37, 1730-1736.	1.8	50
156	The influence of nitric acid on the cloud processing of aerosol particles. Atmospheric Chemistry and Physics, 2006, 6, 1627-1634.	1.9	8
157	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
158	The effect of physical and chemical aerosol properties on warm cloud droplet activation. Atmospheric Chemistry and Physics, 2006, 6, 2593-2649.	1.9	690
159	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
160	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
161	The composition of nucleation and Aitken modes particles during coastal nucleation events: evidence for marine secondary organic contribution. Atmospheric Chemistry and Physics, 2006, 6, 4601-4616.	1.9	85
162	Using discriminant analysis as a nucleation event classification method. Atmospheric Chemistry and Physics, 2006, 6, 5549-5557.	1.9	18

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163	Application of several activity coefficient models to water-organic-electrolyte aerosols of atmospheric interest. Atmospheric Chemistry and Physics, 2005, 5, 2475-2495.	1.9	74
164	Nanoparticle formation by ozonolysis of inducible plant volatiles. Atmospheric Chemistry and Physics, 2005, 5, 1489-1495.	1.9	94
165	Commentary on cloud modelling and the mass accommodation coefficient of water. Atmospheric Chemistry and Physics, 2005, 5, 461-464.	1.9	78
166	Effects of SO₂ oxidation on ambient aerosol growth in water and ethanol vapours. Atmospheric Chemistry and Physics, 2005, 5, 767-779.	1.9	33
167	Parameterization of the nitric acid effect on CCN activation. Atmospheric Chemistry and Physics, 2005, 5, 879-885.	1.9	18
168	A method for detecting the presence of organic fraction in nucleation mode sized particles. Atmospheric Chemistry and Physics, 2005, 5, 3277-3287.	1.9	30
169	Evaluation of Surface Composition of Surface Active Waterâ^'Alcohol Type Mixtures:Â A Comparison of Semiempirical Models. Journal of Physical Chemistry B, 2005, 109, 3472-3479.	1.2	14
170	Cloud condensation nucleus production from nucleation events at a highly polluted region. Geophysical Research Letters, 2005, 32, .	1.5	179
171	Soluble trace gas effect on cloud condensation nuclei activation: Influence of initial equilibration on cloud model results. Journal of Geophysical Research, 2005, 110, .	3.3	12
172	Surface tensions and densities of H2SO4+ NH3+ water solutions. Geophysical Research Letters, 2005, 32, .	1.5	21
173	QUANTIFICATION OF AEROSOL NUCLEATION IN THE EUROPEAN BOUNDARY LAYER (QUEST): RESULTS FROM AN INTENSIVE FIELD CAMPAIGN IN BOREAL FOREST. Journal of Aerosol Science, 2004, 35, S1225-S1226.	1.8	1
174	Binary homogeneous nucleation in waterâ€“succinic acid and waterâ€“glutaric acid systems. Journal of Chemical Physics, 2004, 120, 282-291.	1.2	40
175	On the closure conjectures for the Gibbsian approximation model of a binary droplet. Journal of Chemical Physics, 2004, 120, 9752-9762.	1.2	15
176	Surface Tensions and Densities of Sulfuric Acid + Dimethylamine + Water Solutions. Journal of Chemical & Engineering Data, 2004, 49, 917-922.	1.0	24
177	Organic aerosol formation via sulphate cluster activation. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	175
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