Tuukka PetÃ¤jÃ¤

List of Publications by Year
in descending order

493 papers	38,963 citations	5126 86 h-index	5873 166 g-index
831 all docs	831 docs citations	831 times ranked	14739 citing authors

#	Article	IF	Citations
1	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
2	Hygroscopic properties of submicrometer atmospheric aerosol particles measured with H-TDMA instruments in various environmentsâ€"a review. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 432.	0.8	401
3	The SALTENA Experiment: Comprehensive Observations of Aerosol Sources, Formation, and Processes in the South American Andes. Bulletin of the American Meteorological Society, 2022, 103, E212-E229.	1.7	9
4	The impact of ammonium on the distillation of organic carbon in PM2.5. Science of the Total Environment, 2022, 803, 150012.	3.9	2
5	Towards a concentration closure of sub-6 nm aerosol particles and sub-3 nm atmospheric clusters. Journal of Aerosol Science, 2022, 159, 105878.	1.8	9
6	The standard operating procedure for Airmodus Particle Size Magnifier and nano-Condensation Nucleus Counter. Journal of Aerosol Science, 2022, 159, 105896.	1.8	11
7	Air pollution exposure monitoring using portable low-cost air quality sensors. Smart Health, 2022, 23, 100241.	2.0	37
8	Molecular Composition of Oxygenated Organic Molecules and Their Contributions to Organic Aerosol in Beijing. Environmental Science & Technology, 2022, 56, 770-778.	4.6	16
9	Electric charge of atmospheric nanoparticles and its potential implications with human health. Science of the Total Environment, 2022, 808, 152106.	3.9	6
10	Evolution of organic carbon during COVID-19 lockdown period: Possible contribution of nocturnal chemistry. Science of the Total Environment, 2022, 808, 152191.	3.9	21
11	Observed coupling between air mass history, secondary growth of nucleation mode particles and aerosol pollution levels in Beijing. Environmental Science Atmospheres, 2022, 2, 146-164.	0.9	6
12	New particle formation event detection with Mask R-CNN. Atmospheric Chemistry and Physics, 2022, 22, 1293-1309.	1.9	11
13	Effects of oligomerization and decomposition on the nanoparticle growth: a model study. Atmospheric Chemistry and Physics, 2022, 22, 155-171.	1.9	4
14	Highly oxidized organic aerosols in Beijing: Possible contribution of aqueous-phase chemistry. Atmospheric Environment, 2022, 273, 118971.	1.9	3
15	Retrieval of Multiple Atmospheric Environmental Parameters From Images With Deep Learning. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	2
16	Overview of the MOSAiC expedition: Atmosphere. Elementa, 2022, 10, .	1.1	121
17	Input-adaptive linear mixed-effects model for estimating alveolar lung-deposited surface area (LDSA) using multipollutant datasets. Atmospheric Chemistry and Physics, 2022, 22, 1861-1882.	1.9	3
18	Tropical and Boreal Forest â€" Atmosphere Interactions: A Review. Tellus, Series B: Chemical and Physical Meteorology, 2022, 74, 24.	0.8	27

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19	Survival of newly formed particles in haze conditions. Environmental Science Atmospheres, 2022, 2, 491-499.	0.9	8
20	The contribution of new particle formation and subsequent growth to haze formation. Environmental Science Atmospheres, 2022, 2, 352-361.	0.9	17
21	Correlation between the Concentrations of Atmospheric Ions and Radon as Judged from Measurements at the Fonovaya Observatory. Atmospheric and Oceanic Optics, 2022, 35, 36-42.	0.6	1
22	Measurement report: Long-term measurements of aerosol precursor concentrations in the Finnish subarctic boreal forest. Atmospheric Chemistry and Physics, 2022, 22, 2237-2254.	1.9	6
23	Elucidating the present-day chemical composition, seasonality and source regions of climate-relevant aerosols across the Arctic land surface. Environmental Research Letters, 2022, 17, 034032.	2.2	9
24	Equal abundance of summertime natural and wintertime anthropogenic Arctic organic aerosols. Nature Geoscience, 2022, 15, 196-202.	5.4	31
25	Secondary organic aerosol formed by condensing anthropogenic vapours over Chinaâ€™s megacities. Nature Geoscience, 2022, 15, 255-261.	5.4	64
26	Overview: Recent advances in the understanding of the northern Eurasian environments and of the urban air quality in China â€“ a Pan-Eurasian Experiment (PEEX) programme perspective. Atmospheric Chemistry and Physics, 2022, 22, 4413-4469.	1.9	9
27	Arctic observations and sustainable development goals â€“ Contributions and examples from ERA-PLANET iCUPE data. Environmental Science and Policy, 2022, 132, 323-336.	2.4	6
28	Influence of biogenic emissions from boreal forests on aerosolâ€“cloud interactions. Nature Geoscience, 2022, 15, 42-47.	5.4	25
29	Aerosol optical properties calculated from size distributions, filter samples and absorption photometer data at Dome C, Antarctica, and their relationships with seasonal cycles of sources. Atmospheric Chemistry and Physics, 2022, 22, 5033-5069.	1.9	3
30	Measurement report: Introduction to the HyICE-2018 campaign for measurements of ice-nucleating particles and instrument inter-comparison in the HyytiÃlÃ boreal forest. Atmospheric Chemistry and Physics, 2022, 22, 5117-5145.	1.9	4
31	Influence of Aerosol Chemical Composition on Condensation Sink Efficiency and New Particle Formation in Beijing. Environmental Science and Technology Letters, 2022, 9, 375-382.	3.9	6
32	Opinion: Insights into updating Ambient Air Quality Directive 2008/50/EC. Atmospheric Chemistry and Physics, 2022, 22, 4801-4808.	1.9	8
33	Terpene emissions from boreal wetlands can initiate stronger atmospheric new particle formation than boreal forests. Communications Earth & Environment, 2022, 3, .	2.6	8
34	Non-linear models for black carbon exposure modelling using air pollution datasets. Environmental Research, 2022, 212, 113269.	3.7	6
35	Global simulations of monoterpene-derived peroxy radical fates and the distributions of highly oxygenated organic molecules (HOMs) and accretion products. Atmospheric Chemistry and Physics, 2022, 22, 5477-5494.	1.9	6
36	Synergistic HNO3â€“H2SO4â€“NH3 upper tropospheric particle formation. Nature, 2022, 605, 483-489.	13.7	26

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37	Institute for Atmospheric and Earth System Research (INAR): Showcases for making science diplomacy. Polar Record, 2022, 58, .	0.4	1
38	Insufficient Condensable Organic Vapors Lead to Slow Growth of New Particles in an Urban Environment. Environmental Science & Technology, 2022, 56, 9936-9946.	4.6	19
39	Measurement report: Atmospheric new particle formation in a coastal agricultural site explained with binPMF analysis of nitrate CI-APi-TOF spectra. Atmospheric Chemistry and Physics, 2022, 22, 8097-8115.	1.9	8
40	Influence of emission size distribution and nucleation on number concentrations over Greater Paris. Atmospheric Chemistry and Physics, 2022, 22, 8579-8596.	1.9	6
41	Diurnal evolution of negative atmospheric ions above the boreal forest: from ground level to the free troposphere. Atmospheric Chemistry and Physics, 2022, 22, 8547-8577.	1.9	5
42	Improving the current air quality index with new particulate indicators using a robust statistical approach. Science of the Total Environment, 2022, 844, 157099.	3.9	9
43	The impact of the atmospheric turbulence-development tendency on new particle formation: a common finding on three continents. National Science Review, 2021, 8, nwaa157.	4.6	16
44	Research agenda for the Russian Far East and utilization of multi-platform comprehensive environmental observations. International Journal of Digital Earth, 2021, 14, 311-337.	1.6	11
45	Evaluation of white-box versus black-box machine learning models in estimating ambient black carbon concentration. Journal of Aerosol Science, 2021, 152, 105694.	1.8	21
46	Biogenic particles formed in the Himalaya as an important source of free tropospheric aerosols. Nature Geoscience, 2021, 14, 4-9.	5.4	40
47	Determination of the collision rate coefficient between charged iodic acid clusters and iodic acid using the appearance time method. Aerosol Science and Technology, 2021, 55, 231-242.	1.5	18
48	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
49	Spatiotemporal variation and trends in equivalent black carbon in the Helsinki metropolitan area in Finland. Atmospheric Chemistry and Physics, 2021, 21, 1173-1189.	1.9	33
50	Fire and vegetation dynamics in northwest Siberia during the last 60Âyears based on high-resolution remote sensing. Biogeosciences, 2021, 18, 207-228.	1.3	16
51	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
52	Direct field evidence of autocatalytic iodine release from atmospheric aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	25
53	Global Air Quality and COVID-19 Pandemic: Do We Breathe Cleaner Air?. Aerosol and Air Quality Research, 2021, 21, 200567.	0.9	20
54	Long-term measurement of sub-3â€‰nm particles and their precursor gases in the boreal forest. Atmospheric Chemistry and Physics, 2021, 21, 695-715.	1.9	14

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55	Molecular characterization of ultrafine particles using extractive electrospray time-of-flight mass spectrometry. Environmental Science Atmospheres, 2021, 1, 434-448.	0.9	10
56	The effect of urban morphological characteristics on the spatial variation of PM_{2.5} air quality in downtown Nanjing. Environmental Science Atmospheres, 2021, 1, 481-497.	0.9	6
57	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
58	Role of iodine oxoacids in atmospheric aerosol nucleation. Science, 2021, 371, 589-595.	6.0	94
59	Data Assimilation of AOD and Estimation of Surface Particulate Matters over the Arctic. Applied Sciences (Switzerland), 2021, 11, 1959.	1.3	3
60	Influence of vegetation on occurrence and time distributions of regional new aerosol particle formation and growth. Atmospheric Chemistry and Physics, 2021, 21, 2861-2880.	1.9	6
61	Differing Mechanisms of New Particle Formation at Two Arctic Sites. Geophysical Research Letters, 2021, 48, e2020GL091334.	1.5	70
62	The effect of meteorological conditions and atmospheric composition in the occurrence and development of new particle formation (NPF) events in Europe. Atmospheric Chemistry and Physics, 2021, 21, 3345-3370.	1.9	21
63	Intelligent and Scalable Air Quality Monitoring With 5G Edge. IEEE Internet Computing, 2021, 25, 35-44.	3.2	17
64	Late-spring and summertime tropospheric ozone and NO₂ in western Siberia and the Russian Arctic: regional model evaluation and sensitivities. Atmospheric Chemistry and Physics, 2021, 21, 4677-4697.	1.9	11
65	The seasonal cycle of ice-nucleating particles linked to the abundance of biogenic aerosol in boreal forests. Atmospheric Chemistry and Physics, 2021, 21, 3899-3918.	1.9	31
66	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
67	Novel estimation of aerosol processes with particle size distribution measurements: a case study with the TOMAS algorithm v1.0.0. Geoscientific Model Development, 2021, 14, 1821-1839.	1.3	1
68	Aerosol particle formation in the upper residual layer. Atmospheric Chemistry and Physics, 2021, 21, 7901-7915.	1.9	21
69	Opinion: GigacityÂâ€“ a source of problems or the new way to sustainable development. Atmospheric Chemistry and Physics, 2021, 21, 8313-8322.	1.9	15
70	Quantifying traffic, biomass burning and secondary source contributions to atmospheric particle number concentrations at urban and suburban sites. Science of the Total Environment, 2021, 768, 145282.	3.9	26
71	Determination of free amino acids, saccharides, and selected microbes in biogenic atmospheric aerosols â€“ seasonal variations, particle size distribution, chemical and microbial relations. Atmospheric Chemistry and Physics, 2021, 21, 8775-8790.	1.9	10
72	Cluster Analysis of Submicron Particle Number Size Distributions at the SORPES Station in the Yangtze River Delta of East China. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034004.	1.2	13

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73	Towards understanding the characteristics of new particle formation in the Eastern Mediterranean. Atmospheric Chemistry and Physics, 2021, 21, 9223-9251.	1.9	19
74	Climatic Factors Influencing the Anthrax Outbreak of 2016 in Siberia, Russia. EcoHealth, 2021, 18, 217-228.	0.9	21
75	Atmospheric and ecosystem big data providing key contributions in reaching United Nationsâ€™ Sustainable Development Goals. Big Earth Data, 2021, 5, 277-305.	2.0	6
76	Measurement report: The influence of traffic and new particle formation on the size distribution of 1â€“800â€‰nm particles in Helsinki â€“ a street canyon and an urban background station comparison. Atmospheric Chemistry and Physics, 2021, 21, 9931-9953.	1.9	13
77	Eight years of sub-micrometre organic aerosol composition data from the boreal forest characterized using a machine-learning approach. Atmospheric Chemistry and Physics, 2021, 21, 10081-10109.	1.9	14
78	Added Value of Vaisala AQT530 Sensors as a Part of a Sensor Network for Comprehensive Air Quality Monitoring. Frontiers in Environmental Science, 2021, 9, .	1.5	6
79	Atmospheric gaseous hydrochloric and hydrobromic acid in urban Beijing, China: detection, source identification and potential atmospheric impacts. Atmospheric Chemistry and Physics, 2021, 21, 11437-11452.	1.9	12
80	Aqueous-phase reactive species formed by fine particulate matter from remote forests and polluted urban air. Atmospheric Chemistry and Physics, 2021, 21, 10439-10455.	1.9	6
81	An enhanced integrated approach to knowledgeable high-resolution environmental quality assessment. Environmental Science and Policy, 2021, 122, 1-13.	2.4	12
82	Assessing volatile organic compound sources in a boreal forest using positive matrix factorization (PMF). Atmospheric Environment, 2021, 259, 118503.	1.9	13
83	Zeppelin-led study on the onset of new particle formation in the planetary boundary layer. Atmospheric Chemistry and Physics, 2021, 21, 12649-12663.	1.9	9
84	A phenomenology of new particle formation (NPF) at 13 European sites. Atmospheric Chemistry and Physics, 2021, 21, 11905-11925.	1.9	13
85	Rapid mass growth and enhanced light extinction of atmospheric aerosols during the heating season haze episodes in Beijing revealed by aerosolâ€“chemistryâ€“radiationâ€“boundary layer interaction. Atmospheric Chemistry and Physics, 2021, 21, 12173-12187.	1.9	10
86	Data imputation in in situ-measured particle size distributions by means of neural networks. Atmospheric Measurement Techniques, 2021, 14, 5535-5554.	1.2	5
87	High-performance and sustainable aerosol filters based on hierarchical and crosslinked nanofoams of cellulose nanofibers. Journal of Cleaner Production, 2021, 310, 127498.	4.6	26
88	Transit pollution exposure monitoring using low-cost wearable sensors. Transportation Research, Part D: Transport and Environment, 2021, 98, 102981.	3.2	15
89	Trends of Planetary Boundary Layer Height Over Urban Cities of China From 1980â€“2018. Frontiers in Environmental Science, 2021, 9, .	1.5	7
90	Ammonium nitrate promotes sulfate formation through uptake kinetic regime. Atmospheric Chemistry and Physics, 2021, 21, 13269-13286.	1.9	24

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91	The driving factors of new particle formation and growth in the polluted boundary layer. Atmospheric Chemistry and Physics, 2021, 21, 14275-14291.	1.9	38
92	Impact of pyruvic acid photolysis on acetaldehyde and peroxy radical formation in the boreal forest: theoretical calculations and model results. Atmospheric Chemistry and Physics, 2021, 21, 14333-14349.	1.9	1
93	A global observational analysis to understand changes in air quality during exceptionally low anthropogenic emission conditions. Environment International, 2021, 157, 106818.	4.8	126
94	Significance of the organic aerosol driven climate feedback in the boreal area. Nature Communications, 2021, 12, 5637.	5.8	38
95	Effects of different correction algorithms on absorption coefficient â€“ a comparison of three optical absorption photometers at a boreal forest site. Atmospheric Measurement Techniques, 2021, 14, 6419-6441.	1.2	8
96	Two-year statistics of columnar-ice production in stratiform clouds over HyytiÃlÃ, Finland: environmental conditions and the relevance to secondary ice production. Atmospheric Chemistry and Physics, 2021, 21, 14671-14686.	1.9	7
97	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
98	Seasonality of the particle number concentration and size distribution: a global analysis retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. Atmospheric Chemistry and Physics, 2021, 21, 17185-17223.	1.9	31
99	Wintertime subarctic new particle formation from Kola Peninsula sulfur emissions. Atmospheric Chemistry and Physics, 2021, 21, 17559-17576.	1.9	9
100	City Wide Participatory Sensing of Air Quality. Frontiers in Environmental Science, 2021, 9, .	1.5	5
101	Sustaining Arctic Observing Networksâ€™ (SAON) Roadmap for Arctic Observing and Data Systems (ROADS). Arctic, 2021, 74, 56-68.	0.2	8
102	First eddy covariance flux measurements of semi-volatile organic compounds with the PTR3-TOF-MS. Atmospheric Measurement Techniques, 2021, 14, 8019-8039.	1.2	6
103	Measurement report: New particle formation characteristics at an urban and a mountain station in northern China. Atmospheric Chemistry and Physics, 2021, 21, 17885-17906.	1.9	7
104	Rapid formation of intense haze episodes via aerosolâ€“boundary layer feedback in Beijing. Atmospheric Chemistry and Physics, 2020, 20, 45-53.	1.9	36
105	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
106	Comparing plastic foils for dew collection: Preparatory laboratory-scale method and field experiment in Kenya. Biosystems Engineering, 2020, 196, 145-158.	1.9	7
107	Unprecedented Ambient Sulfur Trioxide (SO₃) Detection: Possible Formation Mechanism and Atmospheric Implications. Environmental Science and Technology Letters, 2020, 7, 809-818.	3.9	34
108	Intelligent Calibration and Virtual Sensing for Integrated Low-Cost Air Quality Sensors. IEEE Sensors Journal, 2020, 20, 13638-13652.	2.4	63

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109	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
110	Low-cost Air Quality Sensing Process: Validation by Indoor-Outdoor Measurements. , 2020, , .		11
111	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. Nature, 2020, 581, 184-189.	13.7	169
112	Size-dependent influence of NO _x on the growth rates of organic aerosol particles. Science Advances, 2020, 6, eaay4945.	4.7	61
113	Overview of measurements and current instrumentation for 1â€"10Ânm aerosol particle number size distributions. Journal of Aerosol Science, 2020, 148, 105584.	1.8	58
114	Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds. Environmental Science & Technology, 2020, 54, 7911-7921.	4.6	66
115	Monitoring of ticks and tick-borne pathogens through a nationwide research station network in Finland. Ticks and Tick-borne Diseases, 2020, 11, 101449.	1.1	29
116	Contrasting trends of PM2.5 and surface-ozone concentrations in China from 2013 to 2017. National Science Review, 2020, 7, 1331-1339.	4.6	284
117	Condensation/immersion mode ice-nucleating particles in a boreal environment. Atmospheric Chemistry and Physics, 2020, 20, 6687-6706.	1.9	9
118	Enhanced growth rate of atmospheric particles from sulfuric acid. Atmospheric Chemistry and Physics, 2020, 20, 7359-7372.	1.9	58
119	Variation of size-segregated particle number concentrations in wintertime Beijing. Atmospheric Chemistry and Physics, 2020, 20, 1201-1216.	1.9	52
120	Toward Massive Scale Air Quality Monitoring. IEEE Communications Magazine, 2020, 58, 54-59.	4.9	65
121	Characterization of Urban New Particle Formation in Ammanâ€"Jordan. Atmosphere, 2020, 11, 79.	1.0	14
122	Formation and growth of sub-3-nm aerosol particles in experimental chambers. Nature Protocols, 2020, 15, 1013-1040.	5.5	49
123	Input-Adaptive Proxy for Black Carbon as a Virtual Sensor. Sensors, 2020, 20, 182.	2.1	16
124	Long-term trends in PM2.5 mass and particle number concentrations in urban air: The impacts of mitigation measures and extreme events due to changing climates. Environmental Pollution, 2020, 263, 114500.	3.7	38
125	Long-term sub-micrometer aerosol chemical composition in the boreal forest: inter- and intra-annual variability. Atmospheric Chemistry and Physics, 2020, 20, 3151-3180.	1.9	26
126	Sources and formation of nucleation mode particles in remote tropical marine atmospheres over the South China Sea and the Northwest Pacific Ocean. Science of the Total Environment, 2020, 735, 139302.	3.9	9

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127	Particulate Matter Concentrations in a Middle Eastern City â€“ An Insight to Sand and Dust Storm Episodes. Aerosol and Air Quality Research, 2020, 20, 2780-2792.	0.9	8
128	Size-resolved particle number emissions in Beijing determined from measured particle size distributions. Atmospheric Chemistry and Physics, 2020, 20, 11329-11348.	1.9	28
129	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
130	Molecular understanding of the suppression of new-particle formation by isoprene. Atmospheric Chemistry and Physics, 2020, 20, 11809-11821.	1.9	49
131	Roll vortices induce new particle formation bursts in the planetary boundary layer. Atmospheric Chemistry and Physics, 2020, 20, 11841-11854.	1.9	9
132	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
133	The promotion effect of nitrous acid on aerosol formation in wintertime in Beijing: the possible contribution of traffic-related emissions. Atmospheric Chemistry and Physics, 2020, 20, 13023-13040.	1.9	37
134	New particle formation at urban and high-altitude remote sites in the south-eastern Iberian Peninsula. Atmospheric Chemistry and Physics, 2020, 20, 14253-14271.	1.9	22
135	Overview: Integrative and Comprehensive Understanding on Polar Environments (iCUPE) â€“ concept and initial results. Atmospheric Chemistry and Physics, 2020, 20, 8551-8592.	1.9	26
136	Molecular understanding of new-particle formation from <i>Î±</i>-pinene between â˜’50 and +25â€‰Â°C. Atmospheric Chemistry and Physics, 2020, 20, 9183-9207.	1.9	68
137	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. Atmospheric Measurement Techniques, 2020, 13, 4353-4392.	1.2	65
138	Clouds over HyytiÃlÃ, Finland: an algorithm to classify clouds based on solar radiation and cloud base height measurements. Atmospheric Measurement Techniques, 2020, 13, 5595-5619.	1.2	6
139	Relating high ozone, ultrafine particles, and new particle formation episodes using cluster analysis. Atmospheric Environment: X, 2019, 4, 100051.	0.8	9
140	Over a 10-year record of aerosol optical properties at SMEAR II. Atmospheric Chemistry and Physics, 2019, 19, 11363-11382.	1.9	20
141	Radical Formation by Fine Particulate Matter Associated with Highly Oxygenated Molecules. Environmental Science & Technology, 2019, 53, 12506-12518.	4.6	45
142	The role of highly oxygenated organic molecules in the Boreal aerosol-cloud-climate system. Nature Communications, 2019, 10, 4370.	5.8	91
143	Molecular Composition and Volatility of Nucleated Particles from Î±-Pinene Oxidation between â˜’50 Â°C and +25 Â°C. Environmental Science & Technology, 2019, 53, 12357-12365.	4.6	32
144	Molecular identification of organic vapors driving atmospheric nanoparticle growth. Nature Communications, 2019, 10, 4442.	5.8	89

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145	Comparison of surface foil materials and dew collectors location in an arid area: a one-year field experiment in Kenya. Agricultural and Forest Meteorology, 2019, 276-277, 107613.	1.9	13
146	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
147	Constructing a data-driven receptor model for organic and inorganic aerosol â€" a synthesis analysis of eight mass spectrometric data sets from a boreal forest site. Atmospheric Chemistry and Physics, 2019, 19, 3645-3672.	1.9	13
148	Ultrafine particles and PM2.5 in the air of cities around the world: Are they representative of each other?. Environment International, 2019, 129, 118-135.	4.8	110
149	Vertical profiles of sub-3â€‰nm particles over the boreal forest. Atmospheric Chemistry and Physics, 2019, 19, 4127-4138.	1.9	20
150	Impact of anthropogenic and biogenic sources on the seasonal variation in the molecular composition of urban organic aerosols: a field and laboratory study using ultra-high-resolution mass spectrometry. Atmospheric Chemistry and Physics, 2019, 19, 5973-5991.	1.9	40
151	Increased inorganic aerosol fraction contributes to air pollution and haze in China. Atmospheric Chemistry and Physics, 2019, 19, 5881-5888.	1.9	37
152	Evidence of New Particle Formation Within Etna and Stromboli Volcanic Plumes and Its Parameterization From Airborne In Situ Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5650-5668.	1.2	18
153	Atmospheric new particle formation in China. Atmospheric Chemistry and Physics, 2019, 19, 115-138.	1.9	118
154	Formation of Highly Oxygenated Organic Molecules from Î±-Pinene Ozonolysis: Chemical Characteristics, Mechanism, and Kinetic Model Development. ACS Earth and Space Chemistry, 2019, 3, 873-883.	1.2	52
155	Ion Mobility-Mass Spectrometry of Iodine Pentoxideâ€"Iodic Acid Hybrid Cluster Anions in Dry and Humidified Atmospheres. Journal of Physical Chemistry Letters, 2019, 10, 1935-1941.	2.1	26
156	A proxy for atmospheric daytime gaseous sulfuric acid concentration in urban Beijing. Atmospheric Chemistry and Physics, 2019, 19, 1971-1983.	1.9	46
157	Towards an advanced observation system for the marine Arctic in the framework of the Pan-Eurasian Experiment (PEEX). Atmospheric Chemistry and Physics, 2019, 19, 1941-1970.	1.9	24
158	Urban Aerosol Particle Size Characterization in Eastern Mediterranean Conditions. Atmosphere, 2019, 10, 710.	1.0	12
159	Estimating cloud condensation nuclei number concentrations using aerosol optical properties: role of particle number size distribution and parameterization. Atmospheric Chemistry and Physics, 2019, 19, 15483-15502.	1.9	10
160	Long-term total OH reactivity measurements in a boreal forest. Atmospheric Chemistry and Physics, 2019, 19, 14431-14453.	1.9	16
161	Chemical transformations in monoterpene-derived organic aerosol enhanced by inorganic composition. Npj Climate and Atmospheric Science, 2019, 2, .	2.6	36
162	The Silk Road agenda of the Pan-Eurasian Experiment (PEEX) program. Big Earth Data, 2018, 2, 8-35.	2.0	6

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163	Long-term cloud condensation nuclei number concentration, particle number size distribution and chemical composition measurements at regionally representative observatories. Atmospheric Chemistry and Physics, 2018, 18, 2853-2881.	1.9	108
164	Observations of ozone depletion events in a Finnish boreal forest. Atmospheric Chemistry and Physics, 2018, 18, 49-63.	1.9	9
165	Long-term observations of the background aerosol at Cabauw, The Netherlands. Science of the Total Environment, 2018, 625, 752-761.	3.9	6
166	On the time response determination of condensation particle counters. Aerosol Science and Technology, 2018, 52, 778-787.	1.5	13
167	The initial stages of multicomponent particle formation during the gas phase combustion synthesis of mixed SiO2/TiO2. Aerosol Science and Technology, 2018, 52, 277-286.	1.5	7
168	Impact on short-lived climate forcers increases projected warming due to deforestation. Nature Communications, 2018, 9, 157.	5.8	86
169	Measurementâ€“model comparison of stabilized Criegee intermediateÂand highly oxygenated molecule productionÂinÂtheÂCLOUDÂchamber. Atmospheric Chemistry and Physics, 2018, 18, 2363-2380.	1.9	21
170	Influence of temperature on the molecular composition of ions and charged clusters during pure biogenic nucleation. Atmospheric Chemistry and Physics, 2018, 18, 65-79.	1.9	56
171	Observations of biogenic ion-induced cluster formation in the atmosphere. Science Advances, 2018, 4, eaar5218.	4.7	64
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