

Role of sulphuric acid, ammonia and galactic cosmic ray nucleation

Nature

476, 429-433

DOI: [10.1038/nature10343](https://doi.org/10.1038/nature10343)

Citation Report

#	ARTICLE	IF	CITATIONS
2	Biological implications of high-energy cosmic ray induced muon flux in the extragalactic shock model. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	21
3	Solar irradiance, cosmic rays and cloudiness over daily timescales. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	14
4	Timelines of cosmic ray intensity, $\langle i \rangle_{Ap}$, IMF, and sunspot numbers since 1937. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	9
5	Formic Acid Catalyzed Hydrolysis of SO_3 in the Gas Phase: A Barrierless Mechanism for Sulfuric Acid Production of Potential Atmospheric Importance. <i>Journal of the American Chemical Society</i> , 2011, 133, 17444-17453.	6.6	130
6	Secondary new particle formation in Northern Finland Pallas site between the years 2000 and 2010. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12959-12972.	1.9	84
7	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13061-13143.	1.9	278
8	In situ observations of new particle formation in the tropical upper troposphere: the role of clouds and the nucleation mechanism. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9983-10010.	1.9	66
9	Observation of neutral sulfuric acid-amine containing clusters in laboratory and ambient measurements. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10823-10836.	1.9	120
10	Large ternary hydrogen-bonded pre-nucleation clusters in the Earth's atmosphere. <i>Chemical Physics Letters</i> , 2011, 518, 7-14.	1.2	72
11	Insights on global warming. <i>AIChE Journal</i> , 2011, 57, 3259-3284.	1.8	16
13	$HNO_3 \sim NH_x$, $H_2SO_4 \sim NH_x$, $CH(O)OH \sim NH_x$, and $CH_3C(O)OH \sim NH_x$ complexes and their role in the formation of condensation nuclei. <i>Journal of Chemical Physics</i> , 2011, 135, 244305.	1.2	11
14	Earth's energy imbalance and implications. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13421-13449.	1.9	463
15	Particulars of particle formation. <i>Nature Geoscience</i> , 2011, 4, 665-666.	5.4	4
17	Cosmic rays and space weather: effects on global climate change. <i>Annales Geophysicae</i> , 2012, 30, 9-19.	0.6	18
18	On-line determination of ammonia at low pptv mixing ratios in the CLOUD chamber. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1719-1725.	1.2	37
19	Dimethylamine and ammonia measurements with ion chromatography during the CLOUD4 campaign. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2161-2167.	1.2	47
20	Climate Statistics and Public Policy. <i>Statistics, Politics, and Policy</i> , 2012, 3, .	0.2	1
21	An ultra-pure gas system for the CLOUD experiment at CERN. , 2012, , .		4

#	ARTICLE	IF	CITATIONS
22	The contribution of organics to atmospheric nanoparticle growth. <i>Nature Geoscience</i> , 2012, 5, 453-458.	5.4	350
23	Simplified mechanism for new particle formation from methanesulfonic acid, amines, and water via experiments and ab initio calculations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18719-18724.	3.3	173
24	Acid-base chemical reaction model for nucleation rates in the polluted atmospheric boundary layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18713-18718.	3.3	169
25	Mineral dust photochemistry induces nucleation events in the presence of SO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20842-20847.	3.3	113
27	Solar-terrestrial physics and its applications. <i>Physics-Uspexhi</i> , 2012, 55, 305-314.	0.8	9
28	A General Theory of Climate Denial. <i>Global Environmental Politics</i> , 2012, 12, 9-17.	1.7	45
29	Indirect radiative forcing by ion-mediated nucleation of aerosol. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11451-11463.	1.9	32
30	Aerosol observations and growth rates downwind of the anvil of a deep tropical thunderstorm. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6157-6172.	1.9	17
31	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.	1.9	119
32	The effect of coal-fired power-plant SO ₂ and NO _x control technologies on aerosol nucleation in the source plumes. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11519-11531.	1.9	57
33	No statistically significant effect of a short-term decrease in the nucleation rate on atmospheric aerosols. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11573-11587.	1.9	19
34	Structures and reaction rates of the gaseous oxidation of SO ₂ by an O ₃ cluster - a density functional theory investigation. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3639-3652.		
35	Gas phase formation of extremely oxidized pinene reaction products in chamber and ambient air. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5113-5127.	1.9	222
36	An isotopic analysis of ionising radiation as a source of sulphuric acid. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5319-5327.	1.9	14
37	Semi-continuous gas and inorganic aerosol measurements at a Finnish urban site: comparisons with filters, nitrogen in aerosol and gas phases, and aerosol acidity. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5617-5631.	1.9	98
38	Humidity-dependent phase state of SOA particles from biogenic and anthropogenic precursors. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7517-7529.	1.9	219
39	Contribution of sulfuric acid and oxidized organic compounds to particle formation and growth. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9427-9439.	1.9	76
40	Numerical simulations of mixing conditions and aerosol dynamics in the CERN CLOUD chamber. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2205-2214.	1.9	44

#	ARTICLE	IF	CITATIONS
41	Amine substitution into sulfuric acid " ammonia clusters. Atmospheric Chemistry and Physics, 2012, 12, 3591-3599.	1.9	82
42	Atmospheric sulphuric acid and neutral cluster measurements using CI-API-TOF. Atmospheric Chemistry and Physics, 2012, 12, 4117-4125.	1.9	393
43	Sulfuric acid nucleation: power dependencies, variation with relative humidity, and effect of bases. Atmospheric Chemistry and Physics, 2012, 12, 4399-4411.	1.9	132
44	Simulating ultrafine particle formation in Europe using a regional CTM: contribution of primary emissions versus secondary formation to aerosol number concentrations. Atmospheric Chemistry and Physics, 2012, 12, 8663-8677.	1.9	45
45	THE COSMIC-RAY INTENSITY NEAR THE ARCHEAN EARTH. Astrophysical Journal, 2012, 760, 85.	1.6	56
46	Identification of the biogenic compounds responsible for size-dependent nanoparticle growth. Geophysical Research Letters, 2012, 39, .	1.5	61
47	Quantum Mechanical Study of Sulfuric Acid Hydration: Atmospheric Implications. Journal of Physical Chemistry A, 2012, 116, 2209-2224.	1.1	111
48	Measurement of the nucleation of atmospheric aerosol particles. Nature Protocols, 2012, 7, 1651-1667.	5.5	435
49	The effect of carrier gas contaminants on the charging probability of aerosols under bipolar charging conditions. Journal of Aerosol Science, 2012, 54, 21-31.	1.8	39
50	Pressure dependent aerosol formation from the cyclohexene gas-phase ozonolysis in the presence and absence of sulfur dioxide: a new perspective on the stabilisation of the initial clusters. Physical Chemistry Chemical Physics, 2012, 14, 11695.	1.3	14
51	Computational Fluid Dynamics of a Cylindrical Nucleation Flow Reactor with Detailed Cluster Thermodynamics. Journal of Physical Chemistry A, 2012, 116, 10122-10134.	1.1	18
52	Organic molecules on the surface of water droplets " an energetic perspective. Physical Chemistry Chemical Physics, 2012, 14, 9537.	1.3	52
53	Proton Transfer Reaction Mass Spectrometry and the Unambiguous Real-Time Detection of 2,4,6 Trinitrotoluene. Analytical Chemistry, 2012, 84, 4161-4166.	3.2	60
54	Assessment of Density Functional Theory in Predicting Structures and Free Energies of Reaction of Atmospheric Prenucleation Clusters. Journal of Chemical Theory and Computation, 2012, 8, 2071-2077.	2.3	168
55	Bond Energies and Structures of Ammonia " Sulfuric Acid Positive Cluster Ions. Journal of Physical Chemistry A, 2012, 116, 5886-5899.	1.1	36
56	Calibration of a Chemical Ionization Mass Spectrometer for the Measurement of Gaseous Sulfuric Acid. Journal of Physical Chemistry A, 2012, 116, 6375-6386.	1.1	132
57	Organic Constituents on the Surfaces of Aerosol Particles from Southern Finland, Amazonia, and California Studied by Vibrational Sum Frequency Generation. Journal of Physical Chemistry A, 2012, 116, 8271-8290.	1.1	41
58	Hydration of the Bisulfate Ion: Atmospheric Implications. Journal of Physical Chemistry A, 2012, 116, 5151-5163.	1.1	65

#	ARTICLE	IF	CITATIONS
59	Biogenic Potassium Salt Particles as Seeds for Secondary Organic Aerosol in the Amazon. <i>Science</i> , 2012, 337, 1075-1078.	6.0	188
60	Solar cycle 24: what is the Sun up to?. <i>Astronomy and Geophysics</i> , 2012, 53, 3.09-3.15.	0.1	23
61	Surface area controlled heterogeneous nucleation. <i>Journal of Chemical Physics</i> , 2012, 136, 054704.	1.2	5
62	Global electric circuit modulation of winter cyclone vorticity in the northern high latitudes. <i>Advances in Space Research</i> , 2012, 50, 806-818.	1.2	5
63	Low frequency oscillation of rainfall in Córdoba, Argentina, and its relation with solar cycles and cosmic rays. <i>Atmospheric Research</i> , 2012, 113, 140-146.	1.8	22
64	Aerosol nucleation in an ultra-low ion density environment. <i>Journal of Aerosol Science</i> , 2012, 50, 75-85.	1.8	5
65	The present-day decadal solar cycle modulation of Earth's radiative forcing via charged $\text{H}_2\text{SO}_4/\text{H}_2\text{O}$ aerosol nucleation. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	26
66	Submicrometer aerosol particles in the upper troposphere/lowermost stratosphere as measured by CARIBIC and modeled using the MIT-CAM3 global climate model. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	8
67	Formation and growth of ultrafine particles from secondary sources in Bakersfield, California. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	51
68	New particle formation and growth in biomass burning plumes: An important source of cloud condensation nuclei. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	54
69	Precipitation driving of droplet concentration variability in marine low clouds. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	75
70	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.	1.9	285
71	Computational Study of the Hydration of Sulfuric Acid Dimers: Implications for Acid Dissociation and Aerosol Formation. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9745-9758.	1.1	91
72	Mass spectrometric approaches for chemical characterisation of atmospheric aerosols: critical review of the most recent advances. <i>Environmental Chemistry</i> , 2012, 9, 163.	0.7	84
73	Variability of Low Energy Cosmic Rays Near Earth. , 0, , .		4
74	A cosmic ray-climate link and cloud observations. <i>Journal of Space Weather and Space Climate</i> , 2012, 2, A18.	1.1	38
75	The effects of changing solar activity on climate: contributions from palaeoclimatological studies. <i>Journal of Space Weather and Space Climate</i> , 2012, 2, A09.	1.1	37
76	Electromagnetic Atmosphere-Plasma Coupling: The Global Atmospheric Electric Circuit. <i>Space Science Reviews</i> , 2012, 168, 363-384.	3.7	55

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77	Solar Influence on Global and Regional Climates. <i>Surveys in Geophysics</i> , 2012, 33, 503-534.	2.1	135
78	Application of artificial neural networks to rainfall forecasting in Queensland, Australia. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 717-730.	1.9	141
79	Testing an astronomically based decadal-scale empirical harmonic climate model versus the IPCC (2007) general circulation climate models. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 80, 124-137.	0.6	51
80	Variability of rainfall and temperature (1912–2008) parameters measured from Santa Maria (29°41′S, 150°19′W). <i>Solar-Terrestrial Physics</i> , 2012, 77, 152-160.	0.6	19
81	Evidence of nearby supernovae affecting life on Earth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 1234-1253.	1.6	52
82	A review of the relevance of the "CLOUD"™ results and other recent observations to the possible effect of cosmic rays on the terrestrial climate. <i>Meteorology and Atmospheric Physics</i> , 2013, 121, 137-142.	0.9	8
83	Climate Change, <i>Climate Science and Economics</i> , 2013, , .		5
85	Comparing simulated and experimental molecular cluster distributions. <i>Faraday Discussions</i> , 2013, 165, 75.	1.6	33
86	Fragmentation Energetics of Clusters Relevant to Atmospheric New Particle Formation. <i>Journal of the American Chemical Society</i> , 2013, 135, 3276-3285.	6.6	42
87	On possible influence of space weather on agricultural markets: Necessary conditions and probable scenarios. <i>Astrophysical Bulletin</i> , 2013, 68, 107-124.	0.3	7
88	A study on possible solar and geomagnetic effects on the precipitation over northwestern Argentina. <i>Advances in Space Research</i> , 2013, 51, 1883-1892.	1.2	6
89	Role of atmospheric ammonia in particulate matter formation in Houston during summertime. <i>Atmospheric Environment</i> , 2013, 77, 893-900.	1.9	68
90	Snowball Earth events driven by starbursts of the Milky Way Galaxy. <i>New Astronomy</i> , 2013, 21, 50-62.	0.8	14
91	Ion–Aerosol Flux Coefficients and the Steady-State Charge Distribution of Aerosols in a Bipolar Ion Environment. <i>Aerosol Science and Technology</i> , 2013, 47, 688-704.	1.5	55
92	Atmospheric nanoparticles and climate change. <i>AIChE Journal</i> , 2013, 59, 4006-4019.	1.8	8
93	Laboratory Experiments on the Microphysics of Electrified Cloud Droplets. <i>Springer Atmospheric Sciences</i> , 2013, , 89-107.	0.4	2
94	Molecular understanding of sulphuric acid–amine particle nucleation in the atmosphere. <i>Nature</i> , 2013, 502, 359-363.	13.7	774
95	Quantitative and time-resolved nanoparticle composition measurements during new particle formation. <i>Faraday Discussions</i> , 2013, 165, 25.	1.6	31

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96	Regional and global impacts of Criegee intermediates on atmospheric sulphuric acid concentrations and first steps of aerosol formation. Faraday Discussions, 2013, 165, 45.	1.6	103
97	How do organic vapors contribute to new-particle formation?. Faraday Discussions, 2013, 165, 91.	1.6	105
98	Patterns, Oscillations, and Microtornadoes: Extreme Events in Vapor-to-particle Reaction Zones. Procedia IUTAM, 2013, 9, 138-164.	1.2	5
99	Nitric acid catalyzed hydrolysis of SO ₃ in the formation of sulfuric acid: A theoretical study. Chemical Physics Letters, 2013, 581, 26-29.	1.2	37
100	What Happens When the Geomagnetic Field Reverses?. Geophysical Monograph Series, 0, , 355-364.	0.1	1
101	Clouds blown by the solar wind. Environmental Research Letters, 2013, 8, 045032.	2.2	22
102	Multiphase chemistry of atmospheric amines. Physical Chemistry Chemical Physics, 2013, 15, 5738.	1.3	181
103	A new software tool for the analysis of high resolution PTR-TOF mass spectra. Chemometrics and Intelligent Laboratory Systems, 2013, 127, 158-165.	1.8	102
104	Gamma-Light: High-Energy Astrophysics above 10 MeV. Nuclear Physics, Section B, Proceedings Supplements, 2013, 239-240, 193-198.	0.5	18
105	High-resolution overtone spectra of molecular complexes. Molecular Physics, 2013, 111, 355-364.	0.8	12
106	Experimental studies of the formation of cluster ions formed by corona discharge in an atmosphere containing SO ₂ , NH ₃ , and H ₂ O. International Journal of Mass Spectrometry, 2013, 341-342, 1-6.	0.7	7
107	Vibrational Spectroscopy of Bisulfate/Sulfuric Acid/Water Clusters: Structure, Stability, and Infrared Multiple-Photon Dissociation Intensities. Journal of Physical Chemistry A, 2013, 117, 7081-7090.	1.1	55
108	COSMIC-RAY-DRIVEN REACTION AND GREENHOUSE EFFECT OF HALOGENATED MOLECULES: CULPRITS FOR ATMOSPHERIC OZONE DEPLETION AND GLOBAL CLIMATE CHANGE. International Journal of Modern Physics B, 2013, 27, 1350073.	1.0	25
109	Solar Irradiance Variability and Climate. Annual Review of Astronomy and Astrophysics, 2013, 51, 311-351.	8.1	231
110	Quantifying the importance of galactic cosmic rays in cloud microphysical processes. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 102, 243-251.	0.6	13
111	Vibrational Spectra and Fragmentation Pathways of Size-Selected, D ₂ -Tagged Ammonium/Methylammonium Bisulfate Clusters. Journal of Physical Chemistry A, 2013, 117, 13265-13274.	1.1	30
112	Observations of new aerosol particle formation in a tropical urban atmosphere. Atmospheric Environment, 2013, 71, 340-351.	1.9	37
113	Response of cloud condensation nuclei ($\text{I} \cdot \text{EtQ} \cdot \text{I} \cdot 0.784314 \text{ rgB} \cdot \text{I} \cdot \text{Overlock} \cdot 10 \text{ If} \cdot 50 \cdot 77 \cdot \text{Id}$ (xmlns:mml="http://www.w3.org/1998/Math/MathML") and Solid State Physics, 2013, 377, 2343-2347.	0.9	55

#	ARTICLE	IF	CITATIONS
114	Influence of Nucleation Precursors on the Reaction Kinetics of Methanol with the OH Radical. Journal of Physical Chemistry A, 2013, 117, 6695-6701.	1.1	51
115	Characterization of positive clusters in the CLOUD nucleation experiments. , 2013, , .		0
116	Ternary H ₂ SO ₄ -H ₂ O-NH ₃ neutral and charged nucleation rates for a wide range of atmospheric conditions. , 2013, , .		0
117	Role of organics in particle nucleation: From the lab to global model. , 2013, , .		1
118	Contribution of oxidized organic compounds to nanoparticle growth. , 2013, , .		0
119	Measurement of neutral sulfuric acid-dimethylamine clusters using CI-API-TOF-MS. , 2013, , .		0
120	Atmospheric electricity and aerosol-cloud interactions in earth's atmosphere. , 2013, , .		0
121	First-principles molecular dynamics simulations of (sulfuric acid) ₁ (dimethylamine) ₁ cluster formation. , 2013, , .		0
122	Measuring composition and growth of ion clusters of sulfuric acid, ammonia, amines and oxidized organics as first steps of nucleation in the CLOUD experiment. , 2013, , .		0
123	The radiative effect of ion-induced inorganic nucleation in the free troposphere. , 2013, , .		0
124	Aerosol nucleation and growth in a mixture of sulfuric acid/alpha-pinene oxidation products at the CERN CLOUD chamber. , 2013, , .		0
125	A double inversion: Size and time resolved growth rates for aerosol particles in the CERN CLOUD experiment. , 2013, , .		0
126	Identification and quantification of particle growth channels during new particle formation. , 2013, , .		0
127	On the benefits of comprehensive long-term observations of atmospheric nanoparticles, clusters and ions. , 2013, , .		0
128	Charged and neutral binary nucleation of sulfuric acid in free troposphere conditions. , 2013, , .		0
129	Characterization of diethylene glycol-condensation particle counters for detection of sub-3 nm particles. , 2013, , .		2
130	Is there an energy barrier in the growth of sulfuric acid clusters?. , 2013, , .		0
131	The charging properties of protonated acetone and acetone clusters. , 2013, , .		1

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132	Particle nucleation events at the high Alpine station Jungfraujoch. , 2013, , .		0
133	Atmospheric nucleation and growth in the CLOUD experiment at CERN. , 2013, , .		0
134	Measurements of cluster ions using a nano radial DMA and a particle size magnifier in CLOUD. , 2013, , .		0
135	Evolution of nanoparticle composition in CLOUD in presence of sulphuric acid, ammonia and organics. , 2013, , .		1
136	How do amines affect the growth of recently formed aerosol particles. , 2013, , .		0
137	Molecular steps of neutral sulfuric acid and dimethylamine nucleation in CLOUD. , 2013, , .		1
138	Hygroscopicity of nucleated nanoparticles in CLOUD 7 experiments. , 2013, , .		0
139	Nucleation of H[sub 2]SO[sub 4] and oxidized organics in CLOUD experiment. , 2013, , .		0
140	Multi-species nucleation rates in CLOUD. , 2013, , .		1
141	Two-dimensional volatility basis set modeling of pinanediol oxidation in the CLOUD experiment. , 2013, , .		1
142	Simulation of ion-induced nucleation in the CLOUD chamber. , 2013, , .		0
143	Linking neutral and charged sulfuric acid-ammonia and sulfuric acid-dimethylamine clusters. , 2013, , .		0
144	Evolution of α -pinene oxidation products in the presence of varying oxidizers: Negative API-TOF point of view. , 2013, , .		0
145	Evolution of alpha-pinene oxidation products in the presence of varying oxidizers: CI-API-TOF point of view. , 2013, , .		0
146	Experimental study on the influence of dimethylamine on the detection of gas phase sulfuric acid using chemical ionization mass spectrometry (CIMS). , 2013, , .		0
147	Chemistry of stabilized Criegee intermediates in the CLOUD chamber. , 2013, , .		0
148	Performance of diethylene glycol-based particle counters in the sub-3 nm size range. Atmospheric Measurement Techniques, 2013, 6, 1793-1804.	1.2	63
150	Evidence for cosmic ray modulation in temperature records from the South Atlantic Magnetic Anomaly region. Annales Geophysicae, 2013, 31, 1833-1841.	0.6	12

#	ARTICLE	IF	CITATIONS
151	COMPASS – COMparative Particle formation in the Atmosphere using portable Simulation chamber Study techniques. Atmospheric Measurement Techniques, 2013, 6, 3407-3423.	1.2	4
154	Does the diurnal temperature range respond to changes in the cosmic ray flux?. Environmental Research Letters, 2013, 8, 045018.	2.2	4
155	Are there persistent physical atmospheric responses to galactic cosmic rays?. Environmental Research Letters, 2013, 8, 035049.	2.2	11
156	A velocity map imaging photoelectron spectrometer for the study of ultrafine aerosols with a table-top VUV laser and Na-doping for particle sizing applied to dimethyl ether condensation. Journal of Chemical Physics, 2013, 138, 044202.	1.2	33
157	Development of the gas system for the CLOUD experiment at CERN. , 2013, , .		0
158	Free energy barrier in the growth of sulfuric acid–ammonia and sulfuric acid–dimethylamine clusters. Journal of Chemical Physics, 2013, 139, 084312.	1.2	164
159	Laboratory Characterization of a New Nano-Water-Based CPC 3788 and Performance Comparison to an Ultrafine Butanol-Based CPC 3776. Aerosol Science and Technology, 2013, 47, 183-191.	1.5	42
160	Cosmic rays, solar activity and the climate. Environmental Research Letters, 2013, 8, 045022.	2.2	19
161	Midlatitude cooling caused by geomagnetic field minimum during polarity reversal. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1215-1220.	3.3	49
162	Remarks on Ion Generation for CPC Detection Efficiency Studies in Sub-3-nm Size Range. Aerosol Science and Technology, 2013, 47, 556-563.	1.5	70
163	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
164	Oxidation of SO ₂ by stabilized Criegee intermediate (sCI) radicals as a crucial source for atmospheric sulfuric acid concentrations. Atmospheric Chemistry and Physics, 2013, 13, 3865-3879.	1.9	131
165	Laser filament-induced aerosol formation. Atmospheric Chemistry and Physics, 2013, 13, 4593-4604.	1.9	25
166	Semi-empirical parameterization of size-dependent atmospheric nanoparticle growth in continental environments. Atmospheric Chemistry and Physics, 2013, 13, 7665-7682.	1.9	25
167	Possible effect of extreme solar energetic particle events of September–October 1989 on polar stratospheric aerosols: a case study. Atmospheric Chemistry and Physics, 2013, 13, 8543-8550.	1.9	16
168	Identification and quantification of particle growth channels during new particle formation. Atmospheric Chemistry and Physics, 2013, 13, 10215-10225.	1.9	20
169	Particle number concentrations over Europe in 2030: the role of emissions and new particle formation. Atmospheric Chemistry and Physics, 2013, 13, 10271-10283.	1.9	12
170	Influence of aerosol lifetime on the interpretation of nucleation experiments with respect to the first nucleation theorem. Atmospheric Chemistry and Physics, 2013, 13, 11465-11471.	1.9	29

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171	Model for acid-base chemistry in nanoparticle growth (MABNAG). Atmospheric Chemistry and Physics, 2013, 13, 12507-12524.	1.9	53
172	Impact of the modal aerosol scheme GLOMAP-mode on aerosol forcing in the Hadley Centre Global Environmental Model. Atmospheric Chemistry and Physics, 2013, 13, 3027-3044.	1.9	106
173	Exploring the atmospheric chemistry of O_2^+ and assessing the maximum turnover number of ion-catalysed H_2SO_4 formation. Atmospheric Chemistry and Physics, 2013, 13, 3695-3703.	1.9	24
174	Evolution of particle composition in CLOUD nucleation experiments. Atmospheric Chemistry and Physics, 2013, 13, 5587-5600.	1.9	33
175	Dependence of particle nucleation and growth on high-molecular-weight gas-phase products during ozonolysis of α -pinene. Atmospheric Chemistry and Physics, 2013, 13, 7631-7644.	1.9	66
176	Formation and growth of nucleated particles into cloud condensation nuclei: model-measurement comparison. Atmospheric Chemistry and Physics, 2013, 13, 7645-7663.	1.9	87
177	Climate Change and Carbon Dioxide: Geological Perspective. Energy and Environment, 2013, 24, 361-380.	2.7	2
178	Cosmic Rays, Solar Activity and the Climate. Journal of Physics: Conference Series, 2013, 409, 012020.	0.3	4
180	The Diurnal Temperature Range for Europe: A Search for Cosmic Ray Forbush Decrease Manifestations and the DTR Periodicities. ISRN Atmospheric Sciences, 2013, 2013, 1-5.	0.4	3
181	Reversal of Earth's magnetic field—detailed magneto-climatostratigraphy and geomagnetic influence on climate. The Quaternary Research, 2014, 53, 1-20.	0.2	1
182	Back to basics, the chemistry of aerosol formation, viewed with velocity-map imaging of photoelectrons. , 2014, , .		0
183	Sub-3 nm particle size and composition dependent response of a nano-CPC battery. Atmospheric Measurement Techniques, 2014, 7, 689-700.	1.2	73
184	Variability of aerosol particle number concentrations observed over the western Pacific in the spring of 2009. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,474.	1.2	9
185	Effect of ions on the measurement of sulfuric acid in the CLOUD experiment at CERN. Atmospheric Measurement Techniques, 2014, 7, 3849-3859.	1.2	7
186	The global extent of the mid stratospheric CN layer: A three-dimensional modeling study. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1015-1030.	1.2	8
189	Study of the Effects of Acidic Ions on Cloud Droplet Formation Using Laboratory Experiments. APCBEE Procedia, 2014, 10, 246-250.	0.5	0
190	Resolving the anomalous infrared spectrum of the $\text{MeCN}\cdots\text{HCl}$ molecular cluster using ab Initio molecular dynamics. Physical Chemistry Chemical Physics, 2014, 16, 24685-24690.	1.3	9
191	Effect of Hydration and Base Contaminants on Sulfuric Acid Diffusion Measurement: A Computational Study. Aerosol Science and Technology, 2014, 48, 593-603.	1.5	9

#	ARTICLE	IF	CITATIONS
192	Possible effect of strong solar energetic particle events on polar stratospheric aerosol: a summary of observational results. <i>Environmental Research Letters</i> , 2014, 9, 015002.	2.2	26
193	Emission factor of ammonia (NH ₃) from on-road vehicles in China: tunnel tests in urban Guangzhou. <i>Environmental Research Letters</i> , 2014, 9, 064027.	2.2	89
194	Agricultural ammonia emissions contribute to China's urban air pollution. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 265-266.	1.9	103
195	Observations of new particle formation at two distinct Indian subcontinental urban locations. <i>Atmospheric Environment</i> , 2014, 96, 370-379.	1.9	55
196	Vertical profile measurements of lower troposphere ionisation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 119, 203-210.	0.6	31
197	Determination of alkylamines in atmospheric aerosol particles: a comparison of gas chromatography-mass spectrometry and ion chromatography approaches. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2027-2035.	1.2	36
198	Memory Vapor. <i>Leonardo</i> , 2014, 47, 70-71.	0.2	0
200	The Impact of Nonlocal Ammonia on Submicron Particulate Matter and Visibility Degradation in Urban Shanghai. <i>Advances in Meteorology</i> , 2014, 2014, 1-12.	0.6	8
201	UV polarization lidar for remote sensing new particles formation in the atmosphere. <i>Optics Express</i> , 2014, 22, A1009.	1.7	17
202	Amine-Amine Exchange in Ammonium Methanesulfonate Aerosols. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29431-29440.	1.5	31
203	Two-dimensional imaging of gas-to-particle transition in flames by laser-induced nanoplasmas. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	19
204	Experimental study of particle formation by ion-ion recombination. <i>Journal of Chemical Physics</i> , 2014, 141, 164309.	1.2	9
205	Investigating the significance of zero-point motion in small molecular clusters of sulphuric acid and water. <i>Journal of Chemical Physics</i> , 2014, 140, 024306.	1.2	2
206	Activation Barriers in the Growth of Molecular Clusters Derived from Sulfuric Acid and Ammonia. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11547-11554.	1.1	19
207	Nucleation is Second Order: An Apparent Kinetically Effective Nucleus of Two for Ir(O) _n Nanoparticle Formation from [(1,5-COD)Ir ⁺] ₂ W ₁₅ Nb ₃ O ₆₂] ⁶⁺ Plus Hydrogen. <i>Journal of the American Chemical Society</i> , 2014, 136, 17601-17615.	6.6	62
208	Positively Charged Phosphorus as a Hydrogen Bond Acceptor. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4225-4231.	2.1	91
209	Insight into Acid-Base Nucleation Experiments by Comparison of the Chemical Composition of Positive, Negative, and Neutral Clusters. <i>Environmental Science & Technology</i> , 2014, 48, 13675-13684.	4.6	51
210	What is the solar influence on climate? Overview of activities during CAWSES-II. <i>Progress in Earth and Planetary Science</i> , 2014, 1, .	1.1	59

#	ARTICLE	IF	CITATIONS
211	Characterisation of organic contaminants in the CLOUD chamber at CERN. Atmospheric Measurement Techniques, 2014, 7, 2159-2168.	1.2	41
212	Cosmic rays and terrestrial life: A brief review. Astroparticle Physics, 2014, 53, 186-190.	1.9	52
213	Recent progress on the global electrical circuit. Atmospheric Research, 2014, 135-136, 208-227.	1.8	101
214	Ocean-Atmosphere Interactions of Gases and Particles. Springer Earth System Sciences, 2014, , .	0.1	22
215	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
216	The relation between lightning and cosmic rays during ENSO with and without IOD – A statistical study. Atmospheric Research, 2014, 143, 129-141.	1.8	7
217	Estimating atmospheric nucleation rates from size distribution measurements: Analytical equations for the case of size dependent growth rates. Journal of Aerosol Science, 2014, 69, 13-20.	1.8	18
218	Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. Science, 2014, 344, 717-721.	6.0	456
219	Infrequent occurrence of new particle formation at a semi-rural location, Gadanki, in tropical Southern India. Atmospheric Environment, 2014, 94, 264-273.	1.9	26
220	Intermediate ions in the atmosphere. Atmospheric Research, 2014, 135-136, 263-273.	1.8	19
221	Infrared Studies of the Reaction of Methanesulfonic Acid with Trimethylamine on Surfaces. Environmental Science & Technology, 2014, 48, 323-330.	4.6	23
222	Theoretical Study of the Hydration of Atmospheric Nucleation Precursors with Acetic Acid. Journal of Physical Chemistry A, 2014, 118, 7959-7974.	1.1	38
223	New insights into secondary organic aerosol from the ozonolysis of α -pinene from combined infrared spectroscopy and mass spectrometry measurements. Physical Chemistry Chemical Physics, 2014, 16, 22706-22716.	1.3	24
224	Neutral molecular cluster formation of sulfuric acid–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
226	Observations on the Formation, Growth and Chemical Composition of Aerosols in an Urban Environment. Environmental Science & Technology, 2014, 48, 6588-6596.	4.6	17
227	Growth rates of atmospheric molecular clusters based on appearance times and collision–evaporation fluxes: Growth by monomers. Journal of Aerosol Science, 2014, 78, 55-70.	1.8	20
228	Critical cluster size cannot in practice be determined by slope analysis in atmospherically relevant applications. Journal of Aerosol Science, 2014, 77, 127-144.	1.8	29
229	Hydration of the Sulfuric Acid–Methylamine Complex and Implications for Aerosol Formation. Journal of Physical Chemistry A, 2014, 118, 7430-7441.	1.1	53

#	ARTICLE	IF	CITATIONS
230	Cloud cover and cosmic ray variations at Lomnický štít high altitude observing site. Atmospheric Research, 2014, 149, 166-173.	1.8	4
231	Airborne pollutant characteristics in an urban, industrial and agricultural complex metroplex with high emission loading and ammonia concentration. Science of the Total Environment, 2014, 494-495, 74-83.	3.9	14
232	Hydration of Atmospherically Relevant Molecular Clusters: Computational Chemistry and Classical Thermodynamics. Journal of Physical Chemistry A, 2014, 118, 2599-2611.	1.1	98
233	Identification and Characterization of the HCl-DMS Gas Phase Molecular Complex via Infrared Spectroscopy and Electronic Structure Calculations. Journal of Physical Chemistry A, 2014, 118, 1384-1389.	1.1	51
234	Using a new aerosol relative optical thickness concept to identify aerosol particle species. Atmospheric Research, 2014, 150, 1-11.	1.8	25
235	Nanoaerosol formation in the troposphere under the action of cosmic radiation. Izvestiya - Atmospheric and Oceanic Physics, 2014, 50, 152-159.	0.2	4
236	Blue Hill Observatory Sunshine: Assessment of Climate Signals in the Longest Continuous Meteorological Record in North America. Bulletin of the American Meteorological Society, 2014, 95, 1741-1751.	1.7	23
237	Benchmarking Ab Initio Binding Energies of Hydrogen-Bonded Molecular Clusters Based on FTIR Spectroscopy. Journal of Physical Chemistry A, 2014, 118, 5316-5322.	1.1	58
238	The effect of fluorine substitution in alcohol-amine complexes. Physical Chemistry Chemical Physics, 2014, 16, 22882-22891.	1.3	61
239	On the stability and dynamics of (sulfuric acid)(ammonia) and (sulfuric acid)(dimethylamine) clusters: A first-principles molecular dynamics investigation. Chemical Physics, 2014, 428, 164-174.	0.9	22
240	Enhancement in the production of nucleating clusters due to dimethylamine and large uncertainties in the thermochemistry of amine-enhanced nucleation. Chemical Physics Letters, 2014, 609, 42-49.	1.2	81
241	Sub-300 nm particles observed at the coastal and continental sites in the United States. Journal of Geophysical Research D: Atmospheres, 2014, 119, 860-879.	1.2	26
243	A large source of low-volatility secondary organic aerosol. Nature, 2014, 506, 476-479.	13.7	1,448
244	A theoretical study of temperature dependence of cluster formation from sulfuric acid and ammonia. Chemical Physics, 2014, 433, 60-66.	0.9	17
245	New Directions: Fundamentals of atmospheric chemistry: Keeping a three-legged stool balanced. Atmospheric Environment, 2014, 84, 390-391.	1.9	32
246	The Nebula Winter: The united view of the snowball Earth, mass extinctions, and explosive evolution in the late Neoproterozoic and Cambrian periods. Gondwana Research, 2014, 25, 1153-1163.	3.0	31
247	Anthropogenic and Natural Radiative Forcing. , 2014, , 659-740.		786
248	Suppression of new particle formation from monoterpene oxidation by NO ₂ . Atmospheric Chemistry and Physics, 2014, 14, 2789-2804.	1.9	63

#	ARTICLE	IF	CITATIONS
249	Clouds and Aerosols. , 2014, , 571-658.		629
250	Stabilization of sulfuric acid dimers by ammonia, methylamine, dimethylamine, and trimethylamine. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7502-7514.	1.2	167
251	Molecular constraints on particle growth during new particle formation. Geophysical Research Letters, 2014, 41, 6045-6054.	1.5	30
252	Chemical compositions of sulfate and chloride salts over the last termination reconstructed from the Dome Fuji ice core, inland Antarctica. Journal of Geophysical Research D: Atmospheres, 2014, 119, 14,045.	1.2	8
253	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). Atmospheric Chemistry and Physics, 2014, 14, 12181-12194.	1.9	121
254	Analysis of feedbacks between nucleation rate, survival probability and cloud condensation nuclei formation. Atmospheric Chemistry and Physics, 2014, 14, 5577-5597.	1.9	72
255	Growth of sulphuric acid nanoparticles under wet and dry conditions. Atmospheric Chemistry and Physics, 2014, 14, 6461-6475.	1.9	12
256	The link between atmospheric radicals and newly formed particles at a spruce forest site in Germany. Atmospheric Chemistry and Physics, 2014, 14, 10823-10843.	1.9	27
257	Modeling ultrafine particle growth at a pine forest site influenced by anthropogenic pollution during BEACHON-RoMBAS 2011. Atmospheric Chemistry and Physics, 2014, 14, 11011-11029.	1.9	12
258	Global and regional impacts of HONO on the chemical composition of clouds and aerosols. Atmospheric Chemistry and Physics, 2014, 14, 1167-1184.	1.9	32
259	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. Atmospheric Chemistry and Physics, 2014, 14, 6345-6367.	1.9	62
260	Enhancement of atmospheric $\text{H}_2\text{SO}_4/\text{SO}_2$ / $\text{H}_2\text{O}_2/\text{O}_3$ nucleation: organic oxidation products versus amines. Atmospheric Chemistry and Physics, 2014, 14, 751-764.	1.9	48
261	Electrical charging changes the composition of sulfuric acid-ammonia/dimethylamine clusters. Atmospheric Chemistry and Physics, 2014, 14, 7995-8007.	1.9	59
262	Influence of Relative Humidity and Clouds on the Global Mean Surface Temperature. Energy and Environment, 2014, 25, 389-399.	2.7	6
263	Dimethylamine as a major alkyl amine species in particles and cloud water: Observations in semi-arid and coastal regions. Atmospheric Environment, 2015, 122, 250-258.	1.9	71
264	Oxidation of SO ₂ and formation of water droplets under irradiation of 20 MeV protons in N ₂ /H ₂ O/SO ₂ . Nuclear Instruments & Methods in Physics Research B, 2015, 365, 616-621.	0.6	0
265	Parameterization of aerosol scavenging due to atmospheric ionization. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8389-8410.	1.2	23
266	The solar and Southern Oscillation components in the satellite altimetry data. Journal of Geophysical Research: Space Physics, 2015, 120, 3297-3306.	0.8	3

#	ARTICLE	IF	CITATIONS
267	Water droplet excess free energy determined by cluster mitosis using guided molecular dynamics. <i>Journal of Chemical Physics</i> , 2015, 143, 244709.	1.2	14
268	Organic aerosol processing in tropical deep convective clouds: Development of a new model (CRM-ORG) and implications for sources of particle number. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,441.	1.2	13
269	Space-atmospheric interactions of energetic cosmic rays. , 2015, , .		0
270	Investigating a solar influence on cloud cover using the North American Regional Reanalysis data. <i>Journal of Space Weather and Space Climate</i> , 2015, 5, A11.	1.1	3
271	Mechanism of the formation of tropospheric nanoaerosols. <i>Russian Journal of Physical Chemistry B</i> , 2015, 9, 796-806.	0.2	1
272	Sources and Impacts of Atmospheric NH ₃ : Current Understanding and Frontiers for Modeling, Measurements, and Remote Sensing in North America. <i>Current Pollution Reports</i> , 2015, 1, 95-116.	3.1	69
273	On the properties and atmospheric implication of amine-hydrated clusters. <i>RSC Advances</i> , 2015, 5, 91500-91515.	1.7	14
274	Contribution from biogenic organic compounds to particle growth during the 2010 BEACHON-ROCS campaign in a Colorado temperate needleleaf forest. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8643-8656.	1.9	15
275	Effects of global change during the 21st century on the nitrogen cycle. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13849-13893.	1.9	168
276	Major contribution of neutral clusters to new particle formation at the interface between the boundary layer and the free troposphere. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3413-3428.	1.9	42
277	Total sulfate vs. sulfuric acid monomer concentrations in nucleation studies. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3429-3443.	1.9	16
278	Exploring the chemical fate of the sulfate radical anion by reaction with sulfur dioxide in the gas phase. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 495-503.	1.9	11
279	The role of organic condensation on ultrafine particle growth during nucleation events. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6337-6350.	1.9	23
280	Formation of highly oxidized multifunctional compounds: autoxidation of peroxy radicals formed in the ozonolysis of alkenes – deduced from structure–product relationships. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6745-6765.	1.9	162
281	Experimental investigation of ion–ion recombination under atmospheric conditions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7203-7216.	1.9	46
282	Particulate matter, air quality and climate: lessons learned and future needs. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8217-8299.	1.9	641
283	Characterization of biomass burning emissions from cooking fires, peat, crop residue, and other fuels with high-resolution proton-transfer-reaction time-of-flight mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 845-865.	1.9	266
284	Thermodynamics of the formation of sulfuric acid dimers in the binary (H ₂ O) ₂ /SO ₂ and ternary (H ₂ O) ₂ /SO ₂ /H ₂ O system. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10701-10721.	1.9	27

#	ARTICLE	IF	CITATIONS
285	Modeling particle nucleation and growth over northern California during the 2010 CARES campaign. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12283-12313.	1.9	25
286	Boundary layer new particle formation over East Antarctic sea ice – possible Hg-driven nucleation?. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13339-13364.	1.9	27
287	Variability of air ion concentrations in urban Paris. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13717-13737.	1.9	19
288	On the derivation of particle nucleation rates from experimental formation rates. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4063-4075.	1.9	33
289	Elemental composition and clustering behaviour of Î±-pinene oxidation products for different oxidation conditions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4145-4159.	1.9	17
290	Iodine observed in new particle formation events in the Arctic atmosphere during ACCACIA. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5599-5609.	1.9	102
291	Technical Note: Using DEG-CPCs at upper tropospheric temperatures. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7547-7555.	1.9	11
292	Focus on high energy particles and atmospheric processes. <i>Environmental Research Letters</i> , 2015, 10, 100201.	2.2	0
293	Geographical and diurnal features of amine-enhanced boundary layer nucleation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9606-9624.	1.2	37
294	Ideas and perspectives: on the emission of amines from terrestrial vegetation in the context of new atmospheric particle formation. <i>Biogeosciences</i> , 2015, 12, 3225-3240.	1.3	20
295	Bisulfate – cluster based atmospheric pressure chemical ionization mass spectrometer for high-sensitivity (< 100 ppqV) detection of atmospheric dimethyl amine: proof-of-concept and first ambient data from boreal forest. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 4001-4011.	1.2	30
296	Analytical Model for Estimating Terrestrial Cosmic Ray Fluxes Nearly Anytime and Anywhere in the World: Extension of PARMA/EXPACS. <i>PLoS ONE</i> , 2015, 10, e0144679.	1.1	121
297	A Review of Aerosol Nanoparticle Formation from Ions. <i>KONA Powder and Particle Journal</i> , 2015, 32, 57-74.	0.9	13
298	Dynamical evidence for causality between galactic cosmic rays and interannual variation in global temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3253-3256.	3.3	80
299	On the composition of ammonia-sulfuric-acid ion clusters during aerosol particle formation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 55-78.	1.9	84
300	Role of ammonia in forming secondary aerosols from gasoline vehicle exhaust. <i>Science China Chemistry</i> , 2015, 58, 1377-1384.	4.2	35
301	Ambient and Modified Atmospheric Ion Chemistry: From Top to Bottom. <i>Chemical Reviews</i> , 2015, 115, 4542-4570.	23.0	107
302	The Molecular Identification of Organic Compounds in the Atmosphere: State of the Art and Challenges. <i>Chemical Reviews</i> , 2015, 115, 3919-3983.	23.0	417

#	ARTICLE	IF	CITATIONS
303	Solar Irradiance Changes and Photobiological Effects at Earth's Surface Following Astrophysical Ionizing Radiation Events. <i>Astrobiology</i> , 2015, 15, 207-220.	1.5	26
304	Sulfuric acid nucleation: An experimental study of the effect of seven bases. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1933-1950.	1.2	153
305	Single-taxon field measurements of bacterial gene regulation controlling DMSP fate. <i>ISME Journal</i> , 2015, 9, 1677-1686.	4.4	37
306	Field measurements of biogenic volatile organic compounds in the atmosphere by dynamic solid-phase microextraction and portable gas chromatography-mass spectrometry. <i>Atmospheric Environment</i> , 2015, 115, 214-222.	1.9	26
307	Properties and Atmospheric Implication of Methylamine–Sulfuric Acid–Water Clusters. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8657-8666.	1.1	41
308	Estimating the Lower Limit of the Impact of Amines on Nucleation in the Earth's Atmosphere. <i>Entropy</i> , 2015, 17, 2764-2780.	1.1	48
310	Roles of SO ₂ oxidation in new particle formation events. <i>Journal of Environmental Sciences</i> , 2015, 30, 90-101.	3.2	8
311	Soft X-ray-assisted detection method for airborne molecular contaminations (AMCs). <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	11
313	Gas Phase Detection of the NH–P Hydrogen Bond and Importance of Secondary Interactions. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10988-10998.	1.1	53
315	The Machinery: Mechanisms Behind Climatic Changes. <i>Advances in Global Change Research</i> , 2015, , 71-166.	1.6	1
316	Growth of Ammonium Bisulfate Clusters by Adsorption of Oxygenated Organic Molecules. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11191-11198.	1.1	11
317	Communication: Kinetics of scavenging of small, nucleating clusters: First nucleation theorem and sum rules. <i>Journal of Chemical Physics</i> , 2015, 142, 011102.	1.2	13
318	THE INTERSTELLAR MEDIUM IN THE KEPLER SEARCH VOLUME. <i>Astrophysical Journal</i> , 2015, 807, 162.	1.6	26
319	Some characteristics and effects of natural radiation. <i>Radiation Protection Dosimetry</i> , 2015, 167, 2-7.	0.4	21
320	Re-evaluating the role of solar variability on Northern Hemisphere temperature trends since the 19th century. <i>Earth-Science Reviews</i> , 2015, 150, 409-452.	4.0	57
321	Structures, Hydration, and Electrical Mobilities of Bisulfate Ion–Sulfuric Acid–Ammonia/Dimethylamine Clusters: A Computational Study. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9670-9679.	1.1	34
322	New particle formation and growth from methanesulfonic acid, trimethylamine and water. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13699-13709.	1.3	88
323	Energetic Particle Influence on the Earth's Atmosphere. <i>Space Science Reviews</i> , 2015, 194, 1-96.	3.7	183

#	ARTICLE	IF	CITATIONS
324	Mathematics of Energy and Climate Change. CIM Series in Mathematical Sciences, 2015, , .	0.4	1
325	Determination of atmospheric amines by on-fiber derivatization solid-phase microextraction with 2,3,4,5,6-pentafluorobenzyl chloroformate and 9-fluorenylmethoxycarbonyl chloride. Journal of Chromatography A, 2015, 1376, 46-52.	1.8	28
326	Connection of organics to atmospheric new particle formation and growth at an urban site of Beijing. Atmospheric Environment, 2015, 103, 7-17.	1.9	53
327	Influence of cosmic-ray variability on the monsoon rainfall and temperature. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 122, 86-96.	0.6	4
333	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
339	Detection of dimethylamine in the low pptv range using nitrate chemical ionization atmospheric pressure interface time-of-flight (CI-API-TOF) mass spectrometry. Atmospheric Measurement Techniques, 2016, 9, 2135-2145.	1.2	27
340	Can Open Science save us from a solar-driven monsoon?. Journal of Space Weather and Space Climate, 2016, 6, A11.	1.1	1
341	A laser-induced fluorescence instrument for aircraft measurements of sulfur dioxide in the upper troposphere and lower stratosphere. Atmospheric Measurement Techniques, 2016, 9, 4601-4613.	1.2	19
343	A new high-transmission inlet for the Caltech nano-RDMA for size distribution measurements of sub-300 nm ions at ambient concentrations. Atmospheric Measurement Techniques, 2016, 9, 2709-2720.	1.2	14
344	Operation of the Airmodus A11 nano Condensation Nucleus Counter at various inlet pressures and various operation temperatures, and design of a new inlet system. Atmospheric Measurement Techniques, 2016, 9, 2977-2988.	1.2	35
345	H ₂ O-mediated trimerization of H ₂ SO ₄ : A computational study and comparison with experimental data. AIP Conference Proceedings, 2016, , .	0.3	0
346	Solar Changes and the Climate. , 2016, , 263-282.		2
347	Solar irradiance observed at Summit, Greenland: Possible links to magnetic activity on short timescales. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 147, 59-70.	0.6	11
348	BAECC: A Field Campaign to Elucidate the Impact of Biogenic Aerosols on Clouds and Climate. Bulletin of the American Meteorological Society, 2016, 97, 1909-1928.	1.7	71
349	Effect of ions on sulfuric acid-water binary particle formation: 2. Experimental data and comparison with QCC-normalized classical nucleation theory. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1752-1775.	1.2	99
350	Spiers Memorial Lecture : Introductory lecture: chemistry in the urban atmosphere. Faraday Discussions, 2016, 189, 9-29.	1.6	6
351	Free energy of formation of clusters of sulphuric acid and water molecules determined by guided disassembly. Molecular Simulation, 2016, 42, 1125-1134.	0.9	1
352	Effect of ions on sulfuric acid-water binary particle formation: 1. Theory for kinetic- and nucleation-type particle formation and atmospheric implications. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1736-1751.	1.2	34

#	ARTICLE	IF	CITATIONS
353	Quantized Faraday and Kerr rotation and axion electrodynamics of a 3D topological insulator. <i>Science</i> , 2016, 354, 1124-1127.	6.0	254
354	Comparison of the SAWNUC model with CLOUD measurements of sulphuric acid-water nucleation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12401-12414.	1.2	16
355	Effect of dimethylamine on the gas phase sulfuric acid concentration measured by Chemical Ionization Mass Spectrometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3036-3049.	1.2	17
356	Experimental particle formation rates spanning tropospheric sulfuric acid and ammonia abundances, ion production rates, and temperatures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12,377.	1.2	71
357	Overview: Homogeneous nucleation from the vapor phase – The experimental science. <i>Journal of Chemical Physics</i> , 2016, 145, 211702.	1.2	113
358	Isoprene suppression of new particle formation: Potential mechanisms and implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,621.	1.2	37
360	The Effect of Water and Bases on the Clustering of a Cyclohexene Autoxidation Product $C_6H_8O_7$ with Sulfuric Acid. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2240-2249.	1.1	30
361	The role of low-volatility organic compounds in initial particle growth in the atmosphere. <i>Nature</i> , 2016, 533, 527-531.	13.7	540
362	Ion-induced nucleation of pure biogenic particles. <i>Nature</i> , 2016, 533, 521-526.	13.7	528
363	New particle formation in the free troposphere: A question of chemistry and timing. <i>Science</i> , 2016, 352, 1109-1112.	6.0	348
364	Strong Hydrogen Bonded Molecular Interactions between Atmospheric Diamines and Sulfuric Acid. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3693-3700.	1.1	70
365	Hydration of oxalic acid-ammonia complex: atmospheric implication and Rayleigh-scattering properties. <i>RSC Advances</i> , 2016, 6, 46582-46593.	1.7	18
366	Decreases in ammonia volatilization in response to greater plant diversity in microcosms of constructed wetlands. <i>Atmospheric Environment</i> , 2016, 142, 414-419.	1.9	19
367	Nanoparticle Ecotoxicology. , 2016, , 343-450.		18
368	Wall effects in smog chamber experiments: A model study. <i>Aerosol Science and Technology</i> , 2016, 50, 1180-1200.	1.5	29
369	Water-soluble ionic species of coarse and fine particulate matter and gas precursor characteristics at urban and rural sites of central Taiwan. <i>Environmental Science and Pollution Research</i> , 2016, 23, 16722-16737.	2.7	10
370	Aerosol Chemistry Resolved by Mass Spectrometry: Insights into Particle Growth after Ambient New Particle Formation. <i>Environmental Science & Technology</i> , 2016, 50, 10814-10822.	4.6	22
371	Effects of amines on particle growth observed in new particle formation events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 324-335.	1.2	56

#	ARTICLE	IF	CITATIONS
372	Theoretical Studies on Reactions of OH with H_2SO_4 and NH_3 Complex and NH_2 with H_2SO_4 in the Presence of Water. <i>ChemistrySelect</i> , 2016, 1, 1421-1430.	0.7	18
373	The Influence of the Geomagnetic Field in Climate Changes. <i>Springer Earth System Sciences</i> , 2016, , 49-80.	0.1	3
374	PM2.5 pollution is substantially affected by ammonia emissions in China. <i>Environmental Pollution</i> , 2016, 218, 86-94.	3.7	183
375	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO_3 . <i>Nature</i> , 2016, 537, 532-534.	13.7	237
376	Characteristics of dimethylammonium and trimethylammonium in atmospheric particles ranging from supermicron to nanometer sizes over eutrophic marginal seas of China and oligotrophic open oceans. <i>Science of the Total Environment</i> , 2016, 572, 813-824.	3.9	31
377	The response of clouds and aerosols to cosmic ray decreases. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8152-8181.	0.8	52
378	Marine Isotope Stage 3 in Southern South America, 60 KA B.P.-30 KA B.P.. <i>Springer Earth System Sciences</i> , 2016, , .	0.1	5
379	Hydrogen bonding in cyclic complexes of carboxylic acid-sulfuric acid and their atmospheric implications. <i>RSC Advances</i> , 2016, 6, 71733-71743.	1.7	26
380	Contribution of Arctic seabird-colony ammonia to atmospheric particles and cloud-albedo radiative effect. <i>Nature Communications</i> , 2016, 7, 13444.	5.8	81
382	Amazon boundary layer aerosol concentration sustained by vertical transport during rainfall. <i>Nature</i> , 2016, 539, 416-419.	13.7	112
383	Modeling the thermodynamics and kinetics of sulfuric acid-dimethylamine-water nanoparticle growth in the CLOUD chamber. <i>Aerosol Science and Technology</i> , 2016, 50, 1017-1032.	1.5	13
384	Global atmospheric particle formation from CERN CLOUD measurements. <i>Science</i> , 2016, 354, 1119-1124.	6.0	289
385	Contribution of new particle formation to the total aerosol concentration at the high-altitude site Jungfrauoch (3580m, Switzerland). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,692.	1.2	21
386	The effect of acid-base clustering and ions on the growth of atmospheric nano-particles. <i>Nature Communications</i> , 2016, 7, 11594.	5.8	116
387	Accurate thermodynamic properties of gas phase hydrogen bonded complexes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23831-23839.	1.3	20
388	Vertical profiles of aerosol and black carbon in the Arctic: a seasonal phenomenology along 2 years (2011-2012) of field campaigns. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12601-12629.	1.9	62
389	Ammonia in the summertime Arctic marine boundary layer: sources, sinks, and implications. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1937-1953.	1.9	57
390	In situ secondary organic aerosol formation from ambient pine forest air using an oxidation flow reactor. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2943-2970.	1.9	122

#	ARTICLE	IF	CITATIONS
391	Heterogeneous ice nucleation of viscous secondary organic aerosol produced from ozonolysis of α -pinene. Atmospheric Chemistry and Physics, 2016, 16, 6495-6509.	1.9	71
392	Multiple new-particle growth pathways observed at the US DOE Southern Great Plains field site. Atmospheric Chemistry and Physics, 2016, 16, 9321-9348.	1.9	35
393	Unexpectedly acidic nanoparticles formed in dimethylamine-ammonia-sulfuric-acid nucleation experiments at CLOUD. Atmospheric Chemistry and Physics, 2016, 16, 13601-13618.	1.9	24
394	Aqueous phase oxidation of sulphur dioxide by ozone in cloud droplets. Atmospheric Chemistry and Physics, 2016, 16, 1693-1712.	1.9	47
395	High-resolution ammonia emissions inventories in China from 1980 to 2012. Atmospheric Chemistry and Physics, 2016, 16, 2043-2058.	1.9	281
396	Using satellite-based measurements to explore spatiotemporal scales and variability of drivers of new particle formation. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12217-12235.	1.2	5
397	Chemical ionization of clusters formed from sulfuric acid and dimethylamine or diamines. Atmospheric Chemistry and Physics, 2016, 16, 12513-12529.	1.9	30
398	Observation of new particle formation and measurement of sulfuric acid, ammonia, amines and highly oxidized organic molecules at a rural site in central Germany. Atmospheric Chemistry and Physics, 2016, 16, 12793-12813.	1.9	76
399	How do air ions reflect variations in ionising radiation in the lower atmosphere in a boreal forest?. Atmospheric Chemistry and Physics, 2016, 16, 14297-14315.	1.9	14
400	First detection of ammonia (NH_3) in the Asian summer monsoon upper troposphere. Atmospheric Chemistry and Physics, 2016, 16, 14357-14369.	1.9	51
401	A Monte Carlo approach for determining cluster evaporation rates from concentration measurements. Atmospheric Chemistry and Physics, 2016, 16, 14585-14598.	1.9	9
402	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
403	Nucleation and growth of sub-3 nm particles in the polluted urban atmosphere of a megacity in China. Atmospheric Chemistry and Physics, 2016, 16, 2641-2657.	1.9	55
404	Hygroscopicity of nanoparticles produced from homogeneous nucleation in the CLOUD experiments. Atmospheric Chemistry and Physics, 2016, 16, 293-304.	1.9	29
405	Phase transition observations and discrimination of small cloud particles by light polarization in expansion chamber experiments. Atmospheric Chemistry and Physics, 2016, 16, 3651-3664.	1.9	11
406	Observation of viscosity transition in α -pinene secondary organic aerosol. Atmospheric Chemistry and Physics, 2016, 16, 4423-4438.	1.9	55
407	Modeling impacts of NH_3 on uptake of H_2SO_4 by charged nucleating nanoparticles in the Earth's atmosphere. AIP Conference Proceedings, 2016, , .	0.3	0
408	Reactions of Methanesulfonic Acid with Amines and Ammonia as a Source of New Particles in Air. Journal of Physical Chemistry B, 2016, 120, 1526-1536.	1.2	115

#	ARTICLE	IF	CITATIONS
409	On secondary new particle formation in China. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 1.	3.3	43
410	Clustering of amines and hydrazines in atmospheric nucleation. <i>Chemical Physics</i> , 2016, 472, 198-207.	0.9	16
411	Heterogeneous Nucleation onto Ions and Neutralized Ions: Insights into Sign-Preference. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7444-7450.	1.5	45
412	Solar wind-atmospheric electricity-cloud microphysics connections to weather and climate. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 149, 277-290.	0.6	59
413	A classical reactive potential for molecular clusters of sulphuric acid and water. <i>Molecular Physics</i> , 2016, 114, 172-185.	0.8	8
414	Gaseous Ammonia Emissions from Coal and Biomass Combustion in Household Stoves with Different Combustion Efficiencies. <i>Environmental Science and Technology Letters</i> , 2016, 3, 98-103.	3.9	94
415	Computational Study on the Effect of Hydration on New Particle Formation in the Sulfuric Acid/Ammonia and Sulfuric Acid/Dimethylamine Systems. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1886-1896.	1.1	68
416	Solar modulation of low energy galactic cosmic rays in the near-earth space environment. <i>Advances in Space Research</i> , 2016, 57, 1294-1306.	1.2	6
417	Can Highly Oxidized Organics Contribute to Atmospheric New Particle Formation?. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1452-1458.	1.1	32
418	Review on recent progress in observations, source identifications and countermeasures of PM2.5. <i>Environment International</i> , 2016, 86, 150-170.	4.8	262
419	The high charge fraction of flame-generated particles in the size range below 3 nm measured by enhanced particle detectors. <i>Combustion and Flame</i> , 2017, 176, 72-80.	2.8	31
420	Characteristics of ammonia gas and fine particulate ammonium from two distinct urban areas: Osaka, Japan, and Ho Chi Minh City, Vietnam. <i>Environmental Science and Pollution Research</i> , 2017, 24, 8147-8163.	2.7	14
421	Improvement of a Global High-Resolution Ammonia Emission Inventory for Combustion and Industrial Sources with New Data from the Residential and Transportation Sectors. <i>Environmental Science & Technology</i> , 2017, 51, 2821-2829.	4.6	113
422	The Role of Oxalic Acid in New Particle Formation from Methanesulfonic Acid, Methylamine, and Water. <i>Environmental Science & Technology</i> , 2017, 51, 2124-2130.	4.6	53
423	Accurate representations of the physicochemical properties of atmospheric aerosols: when are laboratory measurements of value?. <i>Faraday Discussions</i> , 2017, 200, 639-661.	1.6	23
424	Forecasting ultrafine particle concentrations from satellite and in situ observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1828-1837.	1.2	5
425	Regional and local new particle formation events observed in the Yangtze River Delta region, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2389-2402.	1.2	48
426	Reaction of SO ₂ with OH in the atmosphere. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8091-8100.	1.3	63

#	ARTICLE	IF	CITATIONS
427	Contribution of methane sulfonic acid to new particle formation in the atmosphere. <i>Chemosphere</i> , 2017, 174, 689-699.	4.2	50
428	Laboratory observations of temperature and humidity dependencies of nucleation and growth rates of sub- μm particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1919-1929.	1.2	24
429	The enhancement mechanism of glycolic acid on the formation of atmospheric sulfuric acid-ammonia molecular clusters. <i>Journal of Chemical Physics</i> , 2017, 146, .	1.2	41
430	PTR3: An Instrument for Studying the Lifecycle of Reactive Organic Carbon in the Atmosphere. <i>Analytical Chemistry</i> , 2017, 89, 5824-5831.	3.2	112
431	Computational Fluid Dynamics Studies of a Flow Reactor: Free Energies of Clusters of Sulfuric Acid with NH_3 or Dimethyl Amine. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3976-3990.	1.1	16
432	Structural and electrostatic effects at the surfaces of size- and charge-selected aqueous nanodrops. <i>Chemical Science</i> , 2017, 8, 5201-5213.	3.7	16
433	Counting individual ions in the air by tagging them with particles. <i>Chemical Physics</i> , 2017, 492, 1-4.	0.9	3
434	Introductory lecture: atmospheric chemistry in the Anthropocene. <i>Faraday Discussions</i> , 2017, 200, 11-58.	1.6	17
435	Hydrogen bond docking site competition in methyl esters. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 181, 122-130.	2.0	11
436	Nanoparticle Nucleation Is Termolecular in Metal and Involves Hydrogen: Evidence for a Kinetically Effective Nucleus of Three $\{\text{Ir}_3\text{H}_2\text{P}_2\text{W}_{15}\text{Nb}_3\text{O}_{62}\}_n$ in $\text{Ir}(0)_n$ Nanoparticle Formation From $[(1,5\text{-COD})\text{IrP}_2\text{W}_{15}\text{Nb}_3\text{O}_{62}]_n$ Plus Dihydrogen. <i>Journal of the American Chemical Society</i> , 2017, 139, 5444-5457.	6.6	46
437	Proton Transfer in Mixed Clusters of Methanesulfonic Acid, Methylamine, and Oxalic Acid: Implications for Atmospheric Particle Formation. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2377-2385.	1.1	42
438	Evidence of new particle formation during post monsoon season over a high-altitude site of the Western Ghats, India. <i>Toxicological and Environmental Chemistry</i> , 2017, 99, 652-664.	0.6	9
439	Atmospheric implication of the hydrogen bonding interaction in hydrated clusters of HONO and dimethylamine in the nighttime. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 65-77.	1.7	13
440	Phosphoric acid - a potentially elusive participant in atmospheric new particle formation. <i>Molecular Physics</i> , 2017, 115, 2168-2179.	0.8	15
441	Ammonia Emissions May Be Substantially Underestimated in China. <i>Environmental Science & Technology</i> , 2017, 51, 12089-12096.	4.6	160
442	Elucidating the Limiting Steps in Sulfuric Acid-Base New Particle Formation. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8288-8295.	1.1	60
443	Particle formation and growth from oxalic acid, methanesulfonic acid, trimethylamine and water: a combined experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28286-28301.	1.3	42
444	New Particle Formation and Growth Mechanisms in Highly Polluted Environments. <i>Current Pollution Reports</i> , 2017, 3, 245-253.	3.1	37

#	ARTICLE	IF	CITATIONS
445	Measurement of the charging state of 40–70 nm aerosols. <i>Journal of Aerosol Science</i> , 2017, 114, 13-20.	1.8	3
446	Dimethyl Sulfoxide Complexes Detected at Ambient Conditions. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6046-6053.	1.1	6
447	Diamines Can Initiate New Particle Formation in the Atmosphere. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6155-6164.	1.1	72
448	Long-term sub second-response monitoring of gaseous ammonia in ambient air by positive inhaling ion mobility spectrometry. <i>Talanta</i> , 2017, 175, 522-527.	2.9	9
449	Quantifying primary and secondary source contributions to ultrafine particles in the UK urban background. <i>Atmospheric Environment</i> , 2017, 166, 62-78.	1.9	42
450	On the sources of uncertainty in the sub-3 nm particle concentration measurement. <i>Journal of Aerosol Science</i> , 2017, 112, 34-51.	1.8	33
451	Cosmic rays, aerosols, clouds, and climate: Recent findings from the CLOUD experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8051-8055.	1.2	23
452	On-road measurement of NH ₃ emissions from gasoline and diesel passenger cars during real world driving conditions. <i>Atmospheric Environment</i> , 2017, 166, 488-497.	1.9	83
453	Chemical composition of radiolytically formed particles using single-particle mass spectrometry. <i>Journal of Aerosol Science</i> , 2017, 113, 242-249.	1.8	7
454	Cloud formation in metal-rich atmospheres of hot super-Earths like 55 Cnc e and CoRoT7b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 447-464.	1.6	45
455	Molecular understanding of the interaction of methyl hydrogen sulfate with ammonia/dimethylamine/water. <i>Chemosphere</i> , 2017, 186, 331-340.	4.2	18
456	Ion pair particles at the air–water interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12401-12406.	3.3	25
457	Exploring the chemical kinetics of partially oxidized intermediates by combining experiments, theory, and kinetic modeling. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18128-18146.	1.3	15
458	Mechanisms of Atmospherically Relevant Cluster Growth. <i>Accounts of Chemical Research</i> , 2017, 50, 1965-1975.	7.6	34
459	Aerosols in the Pre-industrial Atmosphere. <i>Current Climate Change Reports</i> , 2017, 3, 1-15.	2.8	84
460	Role identification of NH ₃ in atmospheric secondary new particle formation in haze occurrence of China. <i>Atmospheric Environment</i> , 2017, 163, 107-117.	1.9	41
461	C1-C2 alkyl aminiums in urban aerosols: Insights from ambient and fuel combustion emission measurements in the Yangtze River Delta region of China. <i>Environmental Pollution</i> , 2017, 230, 12-21.	3.7	29
462	Atmospheric Fate of Monoethanolamine: Enhancing New Particle Formation of Sulfuric Acid as an Important Removal Process. <i>Environmental Science & Technology</i> , 2017, 51, 8422-8431.	4.6	95

#	ARTICLE	IF	CITATIONS
463	New Particle Formation from Methanesulfonic Acid and Amines/Ammonia as a Function of Temperature. <i>Environmental Science & Technology</i> , 2017, 51, 243-252.	4.6	76
464	Increased ionization supports growth of aerosols into cloud condensation nuclei. <i>Nature Communications</i> , 2017, 8, 2199.	5.8	77
465	Perspective: Aerosol microphysics: From molecules to the chemical physics of aerosols. <i>Journal of Chemical Physics</i> , 2017, 147, 220901.	1.2	42
466	The role of highly oxygenated molecules (HOMs) in determining the composition of ambient ions in the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13819-13831.	1.9	66
467	The role of ions in new particle formation in the CLOUD chamber. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 15181-15197.	1.9	50
468	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.	1.9	71
469	Chemical characterization of atmospheric ions at the high altitude research station Jungfraujoch (Switzerland). <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2613-2629.	1.9	24
470	Technical note: Conversion of isoprene hydroxy hydroperoxides (ISOPOOHs) on metal environmental simulation chamber walls. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4053-4062.	1.9	13
471	Electron-induced chemistry in microhydrated sulfuric acid clusters. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14171-14180.	1.9	9
472	Pan-Arctic aerosol number size distributions: seasonality and transport patterns. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8101-8128.	1.9	99
473	Long-term analysis of clear-sky new particle formation events and nonevents in Hyytiälä. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6227-6241.	1.9	84
474	Nucleation modeling of the Antarctic stratospheric CN layer and derivation of sulfuric acid profiles. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7581-7591.	1.9	1
475	Evaporation of sulfate aerosols at low relative humidity. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8923-8938.	1.9	11
477	Studying the Seeds for Clouds at the CERN Research Labs. <i>Frontiers for Young Minds</i> , 0, 5, .	0.8	0
478	A DMA-train for precision measurement of sub-10 nm aerosol dynamics. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1639-1651.	1.2	46
479	Temperature-Dependent Diffusion of H ₂ SO ₄ in Air at Atmospherically Relevant Conditions: Laboratory Measurements Using Laminar Flow Technique. <i>Atmosphere</i> , 2017, 8, 132.	1.0	6
480	Radiation Transfer Calculations and Assessment of Global Warming by CO ₂ . <i>International Journal of Atmospheric Sciences</i> , 2017, 2017, 1-30.	0.5	8
481	Temperature uniformity in the CERN CLOUD chamber. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 5075-5088.	1.2	14

#	ARTICLE	IF	CITATIONS
484	Intercomparison study and optical asphericity measurements of small ice particles in the CERN CLOUD experiment. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3231-3248.	1.2	4
486	The Interplay Between Hydrogen Bonding and Coulombic Forces in Determining the Structure of Sulfuric Acid-Amine Clusters. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1216-1222.	2.1	30
487	Photobiological Effects at Earth's Surface Following a 50â€‰%pc Supernova. <i>Astrobiology</i> , 2018, 18, 481-490.	1.5	19
488	Hydration of the methanesulfonateâ€‰ammonia/amine complex and its atmospheric implications. <i>RSC Advances</i> , 2018, 8, 3250-3263.	1.7	16
489	Nitric Acidâ€‰Amine Chemistry in the Gas Phase and at the Airâ€‰Water Interface. <i>Journal of the American Chemical Society</i> , 2018, 140, 6456-6466.	6.6	51
490	Vertically resolved concentration and liquid water content of atmospheric nanoparticles at the US DOE Southern Great Plains site. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 311-326.	1.9	31
491	Corona Discharge-Induced Rain and Snow Formation in Air. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 1786-1792.	0.6	33
492	Evidence for Diverse Biogeochemical Drivers of Boreal Forest New Particle Formation. <i>Geophysical Research Letters</i> , 2018, 45, 2038-2046.	1.5	31
493	Systematic Characterization of Gas Phase Binary Pre-Nucleation Complexes Containing $H_2SO_4 + X$, [$X = NH_3$, $(CH_3)NH_2$, $(CH_3)_2NH$, $(CH_3)_3N$, H_2O , $(CH_3)OH$, $(CH_3)_2O$, HF , CH_3F , PH_3 , $(CH_3)PH_2$, $(CH_3)_2PH$, $(CH_3)_3P$,		

#	ARTICLE	IF	CITATIONS
503	New particle formation in the sulfuric acid–dimethylamine–water system: reevaluation of CLOUD chamber measurements and comparison to an aerosol nucleation and growth model. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 845-863.	1.9	92
504	Clustering of sulfuric acid, bisulfate ion and organonitrate C ₁₀ H ₁₅ O ₁₀ N: Thermodynamics and atmospheric implications. <i>Computational and Theoretical Chemistry</i> , 2018, 1133, 40-46.	1.1	2
505	Towards understanding the role of amines in the SO ₂ hydration and the contribution of the hydrated product to new particle formation in the Earth's atmosphere. <i>Chemosphere</i> , 2018, 205, 275-285.	4.2	19
506	Influence of temperature on the molecular composition of ions and charged clusters during pure biogenic nucleation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 65-79.	1.9	56
507	Limitation of dimethylsulfoniopropionate synthesis at high irradiance in natural phytoplankton communities of the Tropical Atlantic. <i>Limnology and Oceanography</i> , 2018, 63, 227-242.	1.6	8
508	Observations of biogenic ion-induced cluster formation in the atmosphere. <i>Science Advances</i> , 2018, 4, eaar5218.	4.7	64
509	Lightning Discharges, Cosmic Rays and Climate. <i>Surveys in Geophysics</i> , 2018, 39, 861-899.	2.1	15
510	Long-term cyclicities in Phanerozoic sea-level sedimentary record and their potential drivers. <i>Global and Planetary Change</i> , 2018, 165, 128-136.	1.6	52
511	Hybridization of Nitrogen Determines Hydrogen-Bond Acceptor Strength: Gas-Phase Comparison of Redshifts and Equilibrium Constants. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3899-3908.	1.1	8
512	The potential role of malonic acid in the atmospheric sulfuric acid - Ammonia clusters formation. <i>Chemosphere</i> , 2018, 203, 26-33.	4.2	39
513	The effect of solid particles on the evaporation and crystallization processes of the desulfurization wastewater droplet. <i>Applied Thermal Engineering</i> , 2018, 134, 141-151.	3.0	25
514	Synergistic Effect of Ammonia and Methylamine on Nucleation in the Earth's Atmosphere. A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3470-3479.	1.1	41
515	Convergent Cross Mapping: Theory and an Example. , 2018, , 587-600.		29
516	High contributions of vehicular emissions to ammonia in three European cities derived from mobile measurements. <i>Atmospheric Environment</i> , 2018, 175, 210-220.	1.9	42
517	Comment on "Identification of Major Sources of Atmospheric NH ₃ in an Urban Environment in Northern China During Wintertime". <i>Environmental Science & Technology</i> , 2018, 52, 362-363.	4.6	4
518	Mass spectrometry of aerosol particle analogues in molecular beam experiments. <i>Mass Spectrometry Reviews</i> , 2018, 37, 630-651.	2.8	47
519	New particle formation and growth at a suburban site and a background site in Hong Kong. <i>Chemosphere</i> , 2018, 193, 664-674.	4.2	14
520	Simulation of aerosol formation due to rapid cooling of multispecies vapors. <i>Journal of Engineering Mathematics</i> , 2018, 108, 171-196.	0.6	8

#	ARTICLE	IF	CITATIONS
521	Cosmic rays and climate. <i>Advances in Space Research</i> , 2018, 62, 2880-2891.	1.2	12
522	Processes That Contribute to Decreased Dimethyl Sulfide Production in Response to Ocean Acidification in Subtropical Waters. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	13
523	Two new submodels for the Modular Earth Submodel System (MESSy): New Aerosol Nucleation (NAN) and small ions (IONS) version 1.0. <i>Geoscientific Model Development</i> , 2018, 11, 4987-5001.	1.3	3
524	H ₂ O ₂ /SO ₂ /H ₂ O ternary ion-mediated nucleation (TIMN): kinetic-based model and comparison with CLOUD measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17451-17474.	1.9	52
525	The Sun Today. , 2018, , .		1
527	The Highest Geomagnetic Storms of the Solar Cycle Observed at Ground Level. , 0, , .		5
528	Galactic Cosmic Rays and Low Clouds: Possible Reasons for Correlation Reversal. , 2018, , .		2
529	New perspectives in the study of the Earth's magnetic field and climate connection: The use of transfer entropy. <i>PLoS ONE</i> , 2018, 13, e0207270.	1.1	22
530	Driving parameters of biogenic volatile organic compounds and consequences on new particle formation observed at an eastern Mediterranean background site. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14297-14325.	1.9	33
531	Theoretical Insights into the Electron Capture Behavior of H ₂ SO ₄ -N ₂ O Complex: A DFT and Molecular Dynamics Study. <i>Molecules</i> , 2018, 23, 2349.	1.7	2
533	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , 2018, 4, eaau5363.	4.7	164
534	Ion-induced sulfuric acid-ammonia nucleation drives particle formation in coastal Antarctica. <i>Science Advances</i> , 2018, 4, eaat9744.	4.7	79
535	Long-term association between the intensity of cosmic rays and mortality rates in the city of Sao Paulo. <i>Environmental Research Letters</i> , 2018, 13, 024009.	2.2	9
537	Robust metric for quantifying the importance of stochastic effects on nanoparticle growth. <i>Scientific Reports</i> , 2018, 8, 14160.	1.6	17
538	Catalytic effect of water, water dimer, HCOOH and H ₂ SO ₄ on the isomerisation of HON(O)NNO ₂ to ON(OH)NNO ₂ : a mechanism study. <i>Molecular Simulation</i> , 2018, 44, 1544-1553.	0.9	6
540	Hydration of Atmospheric Molecular Clusters II: Organic Acid-Water Clusters. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8549-8556.	1.1	36
541	Production of highly oxygenated organic molecules (HOMs) from trace contaminants during isoprene oxidation. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4763-4773.	1.2	13
542	The role of H ₂ O ₂ /SO ₂ -NH ₃ anion clusters in ion-induced aerosol nucleation mechanisms in the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13231-13243.	1.9	33

#	ARTICLE	IF	CITATIONS
543	Exploring the potential of nano-K th theory to describe the growth of atmospheric molecular clusters by organic vapors using cluster kinetics simulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13733-13754.	1.9	11
544	Global analysis of continental boundary layer new particle formation based on long-term measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14737-14756.	1.9	113
545	Size-resolved online chemical analysis of nanoaerosol particles: a thermal desorption differential mobility analyzer coupled to a chemical ionization time-of-flight mass spectrometer. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5489-5506.	1.2	16
547	Global Change, Space Weather, and Climate. , 0, , 28-39.		1
548	Processes Controlling the Composition and Abundance of Arctic Aerosol. <i>Reviews of Geophysics</i> , 2018, 56, 621-671.	9.0	106
551	Photochemistry of SO ₂ at the Air-Water Interface: A Source of OH and HOSO Radicals. <i>Journal of the American Chemical Society</i> , 2018, 140, 12341-12344.	6.6	42
552	Outlook for clean air in the context of sustainable development goals. <i>Global Environmental Change</i> , 2018, 53, 1-11.	3.6	119
553	Size resolved chemical composition of nanoparticles from reactions of sulfuric acid with ammonia and dimethylamine. <i>Aerosol Science and Technology</i> , 2018, 52, 1120-1133.	1.5	26
556	Experimental study of H ₂ O ₂ /SO ₂ aerosol nucleation at high ionization levels. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5921-5930.	1.9	11
557	Laboratory study of H ₂ SO ₄ /H ₂ O nucleation using a new technique – a laminar co-flow tube. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2018, 70, 1-11.	0.8	2
558	Stabilities of protonated water-ammonia clusters. <i>Journal of Chemical Physics</i> , 2018, 148, 184306.	1.2	4
559	New Particle Formation and Growth. , 2018, , 315-352.		12
560	From O ₂ ⁺ -Initiated SO ₂ Oxidation to Sulfate Formation in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5781-5788.	1.1	12
561	Classification of the new particle formation events observed at a tropical site, Pune, India. <i>Atmospheric Environment</i> , 2018, 190, 10-22.	1.9	12
562	Kinetic analysis of homogeneous droplet nucleation using large-scale molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2018, 149, 044504.	1.2	20
563	Zeptoampere electric current measurements with molecular tagging. <i>Chemical Physics</i> , 2018, 513, 112-115.	0.9	0
564	Photochemistry of Atmospheric Particles. , 2018, , 553-562.		3
565	Long-Term Trend of Gaseous Ammonia Over the United States: Modeling and Comparison With Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8315-8325.	1.2	38

#	ARTICLE	IF	CITATIONS
566	Revealing the Sources of Atmospheric Ammonia: a Review. <i>Current Pollution Reports</i> , 2018, 4, 189-197.	3.1	28
567	Secondary organic aerosol production from pinanediol, a semi-volatile surrogate for first-generation oxidation products of monoterpenes. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6171-6186.	1.9	8
568	Atmospheric new particle formation from sulfuric acid and amines in a Chinese megacity. <i>Science</i> , 2018, 361, 278-281.	6.0	415
569	Hydration of Atmospheric Molecular Clusters: A New Method for Systematic Configurational Sampling. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5026-5036.	1.1	53
570	Gas phase transformation from organic acid to organic sulfuric anhydride: Possibility and atmospheric fate in the initial new particle formation. <i>Chemosphere</i> , 2018, 212, 504-512.	4.2	29
571	Concentration and size distribution of water-extracted dimethylammonium and trimethylammonium in atmospheric particles during nine campaigns - Implications for sources, phase states and formation pathways. <i>Science of the Total Environment</i> , 2018, 631-632, 130-141.	3.9	26
572	Modulation of Cosmogenic Tritium in Meteoric Precipitation by the 11-year Cycle of Solar Magnetic Field Activity. <i>Scientific Reports</i> , 2018, 8, 12813.	1.6	25
573	Rapid growth of organic aerosol nanoparticles over a wide tropospheric temperature range. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9122-9127.	3.3	118
574	Self-Catalytic Reaction of SO ₃ and NH ₃ To Produce Sulfamic Acid and Its Implication to Atmospheric Particle Formation. <i>Journal of the American Chemical Society</i> , 2018, 140, 11020-11028.	6.6	86
575	Five-S-isotope evidence of two distinct mass-independent sulfur isotope effects and implications for the modern and Archean atmospheres. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8541-8546.	3.3	37
576	A diethylene glycol condensation particle counter for rapid sizing of sub-300 nm atmospheric clusters. <i>Aerosol Science and Technology</i> , 2018, 52, 1112-1119.	1.5	7
577	Clustering of highly oxidized organic acid with atmospheric NO ₃ ⁻ and HSO ₄ ⁻ ions and neutral species: Thermochemistry and implications to new particle formation. <i>Chemical Physics Letters</i> , 2018, 706, 175-181.	1.2	6
578	New particle formation leads to cloud dimming. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	2.6	17
579	Exploring atmospheric free-radical chemistry in China: the self-cleansing capacity and the formation of secondary air pollution. <i>National Science Review</i> , 2019, 6, 579-594.	4.6	123
580	Review of sub-300 nm condensation particle counters, calibrations, and cluster generation methods. <i>Aerosol Science and Technology</i> , 2019, 53, 1277-1310.	1.5	26
581	Solar activity imprints in tree ring-data from northwestern Russia. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 193, 105075.	0.6	11
582	Benchmarking sampling methodology for calculations of Rayleigh light scattering properties of atmospheric molecular clusters. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17274-17287.	1.3	4
583	The effect of water on the heterogeneous reactions of SO ₂ and NH ₃ on the surfaces of Î±-Fe ₂ O ₃ and Î³-Al ₂ O ₃ . <i>Environmental Science: Nano</i> , 2019, 6, 2749-2758.	2.2	30

#	ARTICLE	IF	CITATIONS
584	Simultaneous measurements of aerosol size distributions at three sites in the European high Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7377-7395.	1.9	26
585	Ammonium nitrate particles formed in upper troposphere from ground ammonia sources during Asian monsoons. <i>Nature Geoscience</i> , 2019, 12, 608-612.	5.4	95
586	Measurements of aerosols and charged particles on the BEXUS18 stratospheric balloon. <i>Annales Geophysicae</i> , 2019, 37, 389-403.	0.6	11
587	Computational Study of the Thermodynamics of New Particle Formation Initiated by Complexes of $\text{H}_2\text{SO}_4\text{-H}_2\text{O-NH}_x$, $\text{CH}_3\text{SO}_3\text{-H}_2\text{O-NH}_x$, and $\text{HO}_2\text{-H}_2\text{O-NH}_x$. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1415-1425.	1.2	6
588	The heterogeneous reaction of dimethylamine/ammonia with sulfuric acid to promote the growth of atmospheric nanoparticles. <i>Environmental Science: Nano</i> , 2019, 6, 2767-2776.	2.2	9
589	Remote Sensing Observation of New Particle Formation Events with a (UV, VIS) Polarization Lidar. <i>Remote Sensing</i> , 2019, 11, 1761.	1.8	10
590	Temperature effects on sulfuric acid aerosol nucleation and growth: initial results from the TANGENT study. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8915-8929.	1.9	13
592	A NO _x Emission Model Incorporating Temperature for Heavy-Duty Diesel Vehicles with Urea-SCR Systems Based on Field Operating Modes. <i>Atmosphere</i> , 2019, 10, 337.	1.0	18
593	Sulfuric acid decomposition chemistry above Junge layer in Earth's atmosphere concerning ozone depletion and healing. <i>Communications Chemistry</i> , 2019, 2, .	2.0	6
594	New Particle Formation in the Atmosphere: From Molecular Clusters to Global Climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7098-7146.	1.2	185
595	On-road emissions of passenger cars beyond the boundary conditions of the real-driving emissions test. <i>Environmental Research</i> , 2019, 176, 108572.	3.7	91
596	New Particle Formation: A Review of Ground-Based Observations at Mountain Research Stations. <i>Atmosphere</i> , 2019, 10, 493.	1.0	26
597	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.	1.9	19
598	Influence of Biogenic Organics on the Chemical Composition of Arctic Aerosols. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1238-1250.	1.9	32
599	Methanesulfonic Acid-driven New Particle Formation Enhanced by Monoethanolamine: A Computational Study. <i>Environmental Science & Technology</i> , 2019, 53, 14387-14397.	4.6	50
600	Technical note: Effects of uncertainties and number of data points on line fitting – a case study on new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12531-12543.	1.9	14
601	Nonlocal heat conduction approach in a bi-layer tissue during magnetic fluid hyperthermia with dual phase lag model. <i>Bio-Medical Materials and Engineering</i> , 2019, 30, 387-402.	0.4	12
602	An Atmospheric Cluster Database Consisting of Sulfuric Acid, Bases, Organics, and Water. <i>ACS Omega</i> , 2019, 4, 10965-10974.	1.6	58

#	ARTICLE	IF	CITATIONS
603	Bulk ultrafine grained/nanocrystalline metals via slow cooling. <i>Science Advances</i> , 2019, 5, eaaw2398.	4.7	45
604	Molecular insights into organic particulate formation. <i>Communications Chemistry</i> , 2019, 2, .	2.0	6
605	H ₂ SO ₄ and particle production in a photolytic flow reactor: chemical modeling, cluster thermodynamics and contamination issues. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8999-9015.	1.9	8
606	Revised treatment of wet scavenging processes dramatically improves GEOS-Chem 12.0.0 simulations of surface nitric acid, nitrate, and ammonium over the United States. <i>Geoscientific Model Development</i> , 2019, 12, 3439-3447.	1.3	49
608	Diurnal and seasonal variations of radon (²²² Rn) and their dependence on soil moisture and vertical stability of the lower atmosphere at Pune, India. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 195, 105118.	0.6	18
609	Molecular Composition and Volatility of Nucleated Particles from Î±-Pinene Oxidation between $\hat{\sim}50 \hat{\text{A}}^{\circ}\text{C}$ and $+25 \hat{\text{A}}^{\circ}\text{C}$. <i>Environmental Science & Technology</i> , 2019, 53, 12357-12365.	4.6	32
610	A theoretical study on the activation of insoluble particles in atmospheric conditions. <i>Atmospheric Research</i> , 2019, 218, 306-314.	1.8	4
611	Long-term spatiotemporal variations of atmospheric sulfur, nitrogen and particle pollutants in Chongqing, southwest China: implication of industrial transfer. <i>Environmental Science and Pollution Research</i> , 2019, 26, 8098-8110.	2.7	15
612	Monte Carlo simulations of homogeneous nucleation and particle growth in the presence of background particles. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 71, 1554415.	0.8	7
613	Particle Formation in a Complex Environment. <i>Atmosphere</i> , 2019, 10, 275.	1.0	7
614	New particle formation from sulfuric acid and ammonia: nucleation and growth model based on thermodynamics derived from CLOUD measurements for a wide range of conditions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5033-5050.	1.9	41
615	Characterization of aerosol growth events over Ellesmere Island during the summers of 2015 and 2016. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5589-5604.	1.9	20
616	Analysis of new particle formation (NPF) events at nearby rural, urban background and urban roadside sites. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5679-5694.	1.9	30
617	Dynamic and timing properties of new aerosol particle formation and consecutive growth events. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5835-5852.	1.9	18
618	Inversely modeling homogeneous H ₂ SO ₄ nucleation rate in exhaust-related conditions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6367-6388.	1.9	19
619	Infrared electric field sampled frequency comb spectroscopy. <i>Science Advances</i> , 2019, 5, eaaw8794.	4.7	100
620	An Experimental and Modeling Study of Nanoparticle Formation and Growth from Dimethylamine and Nitric Acid. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5640-5648.	1.1	29
621	Unexpected Growth Coordinate in Large Clusters Consisting of Sulfuric Acid and C ₈ H ₁₂ O ₆ Tricarboxylic Acid. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3170-3175.	1.1	15

#	ARTICLE	IF	CITATIONS
622	Evidence of New Particle Formation Within Etna and Stromboli Volcanic Plumes and Its Parameterization From Airborne In Situ Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5650-5668.	1.2	18
623	Chemical Composition of Aerosol over the Arctic Ocean from Summer Arctic Expedition (AREX) 2011–2012 Cruises: Ions, Amines, Elemental Carbon, Organic Matter, Polycyclic Aromatic Hydrocarbons, n-Alkanes, Metals, and Rare Earth Elements. <i>Atmosphere</i> , 2019, 10, 54.	1.0	29
624	Advances in chemical modifications of starches and their applications. <i>Carbohydrate Research</i> , 2019, 476, 12-35.	1.1	127
625	A potential source of atmospheric sulfate from SO ₂ oxidation by ozone. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 649-661.	1.9	13
626	Impact of neutral and acidic species on cycloalkenes nucleation. <i>Structural Chemistry</i> , 2019, 30, 1415-1426.	1.0	2
627	Improving new particle formation simulation by coupling a volatility-basis set (VBS) organic aerosol module in NAQPMS+APM. <i>Atmospheric Environment</i> , 2019, 204, 1-11.	1.9	28
628	Characterization of urban amine-containing particles in southwestern China: seasonal variation, source, and processing. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3245-3255.	1.9	45
629	Arctic marine secondary organic aerosol contributes significantly to summertime particle size distributions in the Canadian Arctic Archipelago. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2787-2812.	1.9	38
630	Atmospheric new particle formation in China. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 115-138.	1.9	118
631	Atmospheric Initial Nucleation Containing Carboxylic Acids. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3876-3886.	1.1	9
632	Assessing the Iterative Finite Difference Mass Balance and 4D-Var Methods to Derive Ammonia Emissions Over North America Using Synthetic Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4222-4236.	1.2	14
633	Spatioseasonal Variations of Atmospheric Ammonia Concentrations Over the United States: Comprehensive Model–Observation Comparison. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6571-6582.	1.2	10
634	A proxy for atmospheric daytime gaseous sulfuric acid concentration in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1971-1983.	1.9	46
636	Understanding Hygroscopic Nucleation of Sulfate Aerosols: Combination of Molecular Dynamics Simulation with Classical Nucleation Theory. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1126-1132.	2.1	13
637	Characterisation of the transfer of cluster ions through an atmospheric pressure interface time-of-flight mass spectrometer with hexapole ion guides. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5231-5246.	1.2	9
638	Observations of highly oxidized molecules and particle nucleation in the atmosphere of Beijing. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14933-14947.	1.9	26
639	Impact of a hydrophobic ion on the early stage of atmospheric aerosol formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22540-22544.	3.3	8
641	Validity and limitations of simple reaction kinetics to calculate concentrations of organic compounds from ion counts in PTR-MS. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6193-6208.	1.2	53

#	ARTICLE	IF	CITATIONS
642	Studying vapor-liquid transition using a generalized ensemble. <i>Journal of Chemical Physics</i> , 2019, 151, 134108.	1.2	3
643	A density functional theory study of the molecular interactions between a series of amides and sulfuric acid. <i>Chemosphere</i> , 2019, 214, 781-790.	4.2	25
644	Formation of atmospheric molecular clusters consisting of methanesulfonic acid and sulfuric acid: Insights from flow tube experiments and cluster dynamics simulations. <i>Atmospheric Environment</i> , 2019, 199, 380-390.	1.9	12
645	Can formaldehyde contribute to atmospheric new particle formation from sulfuric acid and water?. <i>Atmospheric Environment</i> , 2019, 201, 323-333.	1.9	12
646	Effects of NO _x , SO ₂ and RH on the SOA formation from cyclohexene photooxidation. <i>Chemosphere</i> , 2019, 216, 794-804.	4.2	32
647	Pollution characteristics in a dusty season based on highly time-resolved online measurements in northwest China. <i>Science of the Total Environment</i> , 2019, 650, 2545-2558.	3.9	18
648	Atmospheric Reactive Nitrogen in China. , 2020, , .		2
649	Response of PM _{2.5} pollution to land use in China. <i>Journal of Cleaner Production</i> , 2020, 244, 118741.	4.6	55
650	Energetic electron precipitation into the atmosphere. , 2020, , 279-321.		6
651	Atmospheric implications of hydration on the formation of methanesulfonic acid and methylamine clusters: A theoretical study. <i>Chemosphere</i> , 2020, 244, 125538.	4.2	18
652	Frontier molecular orbital analysis for determining the equilibrium geometries of atmospheric prenucleation complexes. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26060.	1.0	9
653	Role of glycine on sulfuric acid-ammonia clusters formation: Transporter or participator. <i>Journal of Environmental Sciences</i> , 2020, 89, 125-135.	3.2	9
654	Characteristics and potential source areas of aliphatic amines in PM _{2.5} in Yangzhou, China. <i>Atmospheric Pollution Research</i> , 2020, 11, 296-302.	1.8	16
655	Salinity-induced concomitant increases in soil ammonia volatilization and nitrous oxide emission. <i>Geoderma</i> , 2020, 361, 114053.	2.3	37
656	Sporadic increases of radioactive aerosols as a possible reason for heavy nuclides enhancements recorded with the en-detectors. <i>Journal of Environmental Radioactivity</i> , 2020, 222, 106335.	0.9	7
657	Intense Warming Will Significantly Increase Cropland Ammonia Volatilization Threatening Food Security and Ecosystem Health. <i>One Earth</i> , 2020, 3, 126-134.	3.6	26
659	Particle formation and surface processes on atmospheric aerosols: A review of applied quantum chemical calculations. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26350.	1.0	30
660	Cold, supersaturated urban air could be accelerating pollutant particle growth. <i>Physics Today</i> , 2020, 73, 16-18.	0.3	1

#	ARTICLE	IF	CITATIONS
661	The geomagnetic field's imprint on the twentieth century's climate variability. Geological Society Special Publication, 2020, 497, 205-227.	0.8	3
662	Determinant Factor for Thermodynamic Stability of Sulfuric Acid–Amine Complexes. Journal of Physical Chemistry A, 2020, 124, 10246-10257.	1.1	8
663	Sustainability of Green Tourism among International Tourists and Its Influence on the Achievement of Green Environment: Evidence from North Cyprus. Sustainability, 2020, 12, 5698.	1.6	47
664	Bacillus subtilis biofertilizer mitigating agricultural ammonia emission and shifting soil nitrogen cycling microbiomes. Environment International, 2020, 144, 105989.	4.8	90
666	Molecular Specificity and Proton Transfer Mechanisms in Aerosol Prenucleation Clusters Relevant to New Particle Formation. Accounts of Chemical Research, 2020, 53, 2816-2827.	7.6	14
667	Structural Effects of Amines in Enhancing Methanesulfonic Acid-Driven New Particle Formation. Environmental Science & Technology, 2020, 54, 13498-13508.	4.6	36
668	Always Lost but Never Forgotten: Gas-Phase Wall Losses Are Important in All Teflon Environmental Chambers. Environmental Science & Technology, 2020, 54, 12890-12897.	4.6	24
669	Frequent new particle formation over the high Arctic pack ice by enhanced iodine emissions. Nature Communications, 2020, 11, 4924.	5.8	96
670	Tracking Improvement in Simulated Marine Biogeochemistry Between CMIP5 and CMIP6. Current Climate Change Reports, 2020, 6, 95-119.	2.8	155
671	Atmospherically Relevant Hydrogen-Bonded Interactions between Methanesulfonic Acid and H ₂ SO ₄ Clusters: A Computational Study. Journal of Physical Chemistry A, 2020, 124, 11072-11085.	1.1	8
672	Application of a Small Unmanned Aerial System to Measure Ammonia Emissions from a Pilot Amine-CO ₂ Capture System. Sensors, 2020, 20, 6974.	2.1	1
673	Effect of ammonia on atmospheric pre-nucleation clusters containing the common atmospheric ion HSO ₄ ⁻ and highly oxidized organic species containing nitrogen. AIP Conference Proceedings, 2020, , .	0.3	0
674	Quantification of Atmospheric Ammonia Concentrations: A Review of Its Measurement and Modeling. Atmosphere, 2020, 11, 1092.	1.0	48
675	Ocean Ammonia Outgassing: Modulation by CO ₂ and Anthropogenic Nitrogen Deposition. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002026.	1.3	5
676	The Atmosphere. , 2020, , 51-97.		8
677	Sodium and lithium ions in aerosol: thermodynamic and rayleigh light scattering properties. Theoretical Chemistry Accounts, 2020, 139, 1.	0.5	3
678	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. Nature, 2020, 581, 184-189.	13.7	169
679	Volatile organic compounds enhancing sulfuric acid-based ternary homogeneous nucleation: The important role of synergistic effect. Atmospheric Environment, 2020, 233, 117609.	1.9	11

#	ARTICLE	IF	CITATIONS
681	Assessment of the DLPNO Binding Energies of Strongly Noncovalent Bonded Atmospheric Molecular Clusters. <i>ACS Omega</i> , 2020, 5, 7601-7612.	1.6	38
682	Infrared transmission spectra of hot ammonia in the 4800–9000 cm^{-1} region. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 246, 106911.	1.1	4
683	Overview of measurements and current instrumentation for 1×10^4 nm aerosol particle number size distributions. <i>Journal of Aerosol Science</i> , 2020, 148, 105584.	1.8	58
684	Atmospheric Escape Processes and Planetary Atmospheric Evolution. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027639.	0.8	58
685	A possible unaccounted source of atmospheric sulfate formation: amine-promoted hydrolysis and non-radical oxidation of sulfur dioxide. <i>Chemical Science</i> , 2020, 11, 2093-2102.	3.7	11
686	Evolution of Condensable Fine Particle Size Distribution in Simulated Flue Gas by External Regulation for Growth Enhancement. <i>Environmental Science & Technology</i> , 2020, 54, 3840-3848.	4.6	34
687	Online Aerosol Chemical Characterization by Extractive Electrospray Ionization–Ultrahigh-Resolution Mass Spectrometry (EESI-Orbitrap). <i>Environmental Science & Technology</i> , 2020, 54, 3871-3880.	4.6	25
688	Airborne microorganisms exacerbate the formation of atmospheric ammonium and sulfate. <i>Environmental Pollution</i> , 2020, 263, 114293.	3.7	19
689	Investigation of Airborne Molecular Contamination in Cleanroom Air Environment through Portable Soft X-Ray Radiolysis Detector. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 978.	1.3	4
690	Determination of the amine-catalyzed SO_3 hydrolysis mechanism in the gas phase and at the air-water interface. <i>Chemosphere</i> , 2020, 252, 126292.	4.2	10
691	Regulated and Non-Regulated Emissions from Euro 6 Diesel, Gasoline and CNG Vehicles under Real-World Driving Conditions. <i>Atmosphere</i> , 2020, 11, 204.	1.0	62
692	Ammonia Emissions from Mudflats of River, Lake, and Sea. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 614-619.	1.2	5
693	Measurement of ammonia, amines and iodine compounds using protonated water cluster chemical ionization mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2501-2522.	1.2	21
694	Enhanced growth rate of atmospheric particles from sulfuric acid. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7359-7372.	1.9	58
695	Formation Mechanisms of Iodine–Ammonia Clusters in Polluted Coastal Areas Unveiled by Thermodynamics and Kinetic Simulations. <i>Environmental Science & Technology</i> , 2020, 54, 9235-9242.	4.6	18
696	Mechanisms of geomagnetic influence on climate. , 2020, , 173-198.		0
697	The CARPET Ground Facility for Detecting the Charged Component of Cosmic Rays. <i>Instruments and Experimental Techniques</i> , 2020, 63, 388-395.	0.1	9
698	Modeling the formation and growth of atmospheric molecular clusters: A review. <i>Journal of Aerosol Science</i> , 2020, 149, 105621.	1.8	98

#	ARTICLE	IF	CITATIONS
699	Oxidation Enhances Aerosol Nucleation: Measurement of Kinetic Pickup Probability of Organic Molecules on Hydrated Acid Clusters. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2101-2105.	2.1	8
700	Characteristics of the ground-based "CARPET-ASTANA" instrument for detecting charged component of cosmic rays and preliminary analysis of the first experimental data. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 959, 163567.	0.7	6
701	Effect of NO _x and SO ₂ on the photooxidation of methylglyoxal: Implications in secondary aerosol formation. <i>Journal of Environmental Sciences</i> , 2020, 92, 151-162.	3.2	18
702	Hydrolysis of HNSO ₂ : A potential route for atmospheric production of H ₂ SO ₄ and NH ₃ . <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26182.	1.0	5
703	Formation and growth of sub-3-nm aerosol particles in experimental chambers. <i>Nature Protocols</i> , 2020, 15, 1013-1040.	5.5	49
704	Integrated experimental and theoretical approach to probe the synergistic effect of ammonia in methanesulfonic acid reactions with small alkylamines. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 305-328.	1.7	18
705	Delineation of possible influence of solar variability and galactic cosmic rays on terrestrial climate parameters. <i>Advances in Space Research</i> , 2020, 65, 1831-1842.	1.2	11
706	Atmospheric implication of synergy in methanesulfonic acid-base trimers: a theoretical investigation. <i>RSC Advances</i> , 2020, 10, 5173-5182.	1.7	18
707	Wintertime new particle formation and its contribution to cloud condensation nuclei in the Northeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 2591-2601.	1.9	14
708	Detailed experimental investigation of the NO _x reaction pathways of three-way catalysts with focus on intermediate reactions of NH ₃ and N ₂ O. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118937.	10.8	17
709	2-Methyltetrol sulfate ester-initiated nucleation mechanism enhanced by common nucleation precursors: A theory study. <i>Science of the Total Environment</i> , 2020, 723, 137987.	3.9	11
711	Enhanced New Particle Formation Above the Marine Boundary Layer Over the Yellow Sea: Potential Impacts on Cloud Condensation Nuclei. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031448.	1.2	12
712	Radical chemistry in oxidation flow reactors for atmospheric chemistry research. <i>Chemical Society Reviews</i> , 2020, 49, 2570-2616.	18.7	62
713	New particle formation (NPF) events in China urban clusters given by severe composite pollution background. <i>Chemosphere</i> , 2021, 262, 127842.	4.2	13
714	Contribution of methyl hydroperoxide to sulfuric acid-based new particle formation in the atmosphere. <i>Chemical Physics Letters</i> , 2021, 766, 138266.	1.2	2
715	Biogenic particles formed in the Himalaya as an important source of free tropospheric aerosols. <i>Nature Geoscience</i> , 2021, 14, 4-9.	5.4	40
716	Direct Quantification of the Effect of Ammonium on Aerosol Droplet pH. <i>Environmental Science & Technology</i> , 2021, 55, 778-787.	4.6	17
717	A global environmental crisis 42,000 years ago. <i>Science</i> , 2021, 371, 811-818.	6.0	61

#	ARTICLE	IF	CITATIONS
718	Determination of the collision rate coefficient between charged iodine acid clusters and iodine acid using the appearance time method. <i>Aerosol Science and Technology</i> , 2021, 55, 231-242.	1.5	18
719	Data Acquisition System of the CLOUD Experiment at CERN. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-13.	2.4	2
720	Long-term measurement of sub-30 nm particles and their precursor gases in the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 695-715.	1.9	14
721	Formation of atmospheric molecular clusters from organic waste products and sulfuric acid molecules: a DFT study. <i>Environmental Science Atmospheres</i> , 2021, 1, 267-275.	0.9	2
722	Reactive Nitrogen Cycling in the Atmosphere and Ocean. <i>Annual Review of Earth and Planetary Sciences</i> , 2021, 49, 523-550.	4.6	33
723	Pickup and reactions of molecules on clusters relevant for atmospheric and interstellar processes. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 3195-3213.	1.3	30
724	Molecular characterization of ultrafine particles using extractive electrospray time-of-flight mass spectrometry. <i>Environmental Science Atmospheres</i> , 2021, 1, 434-448.	0.9	10
725	New particle formation from agricultural recycling of organic waste products. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	9
726	Introductory lecture: air quality in megacities. <i>Faraday Discussions</i> , 2021, 226, 9-52.	1.6	34
727	Emissions of non-methane volatile organic compounds from combustion of domestic fuels in Delhi, India. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2383-2406.	1.9	29
728	Role of iodine oxoacids in atmospheric aerosol nucleation. <i>Science</i> , 2021, 371, 589-595.	6.0	94
729	Measurement report: Sulfuric acid nucleation and experimental conditions in a photolytic flow reactor. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1987-2001.	1.9	3
730	Sulfuric acid-amine nucleation in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2457-2468.	1.9	70
731	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.	1.9	6
732	A global model perturbed parameter ensemble study of secondary organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2693-2723.	1.9	9
733	Differing Mechanisms of New Particle Formation at Two Arctic Sites. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091334.	1.5	70
734	Emissions of intermediate-volatility and semi-volatile organic compounds from domestic fuels used in Delhi, India. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2407-2426.	1.9	33
735	The effect of meteorological conditions and atmospheric composition in the occurrence and development of new particle formation (NPF) events in Europe. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3345-3370.	1.9	21

#	ARTICLE	IF	CITATIONS
736	Investigation of several proxies to estimate sulfuric acid concentration under volcanic plume conditions. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4541-4560.	1.9	3
737	Clusteromics I: Principles, Protocols, and Applications to Sulfuric Acid-Base Cluster Formation. <i>ACS Omega</i> , 2021, 6, 7804-7814.	1.6	27
739	New Particle Formation and Growth from Dimethyl Sulfide Oxidation by Hydroxyl Radicals. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 801-811.	1.2	15
742	Influences of Recent Particle Formation on Southern Ocean Aerosol Variability and Low Cloud Properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033529.	1.2	32
745	Modeling of exhaust gas cleaning by acid pollutant conversion to aerosol particles. <i>Fuel</i> , 2021, 290, 120044.	3.4	9
746	Atmospheric Nanoparticle Survivability Reduction Due to Charge-Induced Coagulation Scavenging Enhancement. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092758.	1.5	3
747	Formation of nighttime sulfuric acid from the ozonolysis of alkenes in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5499-5511.	1.9	17
748	The simplest sulfur-nitrogen hydrogen bond: Matrix isolation spectroscopy of H ₂ S-NH ₃ . <i>Journal of Molecular Spectroscopy</i> , 2021, 378, 111440.	0.4	4
750	Competitive formation of HSO ₄ ⁻ and HSO ₅ ⁻ from ion-induced SO ₂ oxidation: Implication in atmospheric aerosol formation. <i>Atmospheric Environment</i> , 2021, 253, 118362.	1.9	0
751	An indicator for sulfuric acid-amine nucleation in atmospheric environments. <i>Aerosol Science and Technology</i> , 2021, 55, 1059-1069.	1.5	19
752	Air-Sea Ammonia Fluxes Calculated From High-Resolution Summertime Observations Across the Atlantic Southern Ocean. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091963.	1.5	6
753	The Earth-like Galactic cosmic ray intensity in the habitable zone of the M dwarf GJ436. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 1817-1826.	1.6	12
754	Molecular-Scale Mechanism of Sequential Reaction of Oxalic Acid with SO ₃ : Potential Participant in Atmospheric Aerosol Nucleation. <i>Journal of Physical Chemistry A</i> , 2021, 125, 4200-4208.	1.1	8
755	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.	4.6	20
756	Open ocean and coastal new particle formation from sulfuric acid and amines around the Antarctic Peninsula. <i>Nature Geoscience</i> , 2021, 14, 383-388.	5.4	54
758	Application of smog chambers in atmospheric process studies. <i>National Science Review</i> , 2022, 9, nwab103.	4.6	21
759	Clusteromics II: Methanesulfonic Acid-Base Cluster Formation. <i>ACS Omega</i> , 2021, 6, 17035-17044.	1.6	28
760	Multicomponent nucleation of malonic acid involved in the sulfuric acid - dimethylamine system and its atmospheric implications. <i>Atmospheric Environment</i> , 2021, 267, 118558.	1.9	8

#	ARTICLE	IF	CITATIONS
761	Chemistry of new particle formation and growth events during wintertime in suburban area of Beijing: Insights from highly polluted atmosphere. <i>Atmospheric Research</i> , 2021, 255, 105553.	1.8	16
762	Towards understanding the characteristics of new particle formation in the Eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9223-9251.	1.9	19
763	Large hemispheric difference in nucleation mode aerosol concentrations in the lowermost stratosphere at mid- and high latitudes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9065-9088.	1.9	8
764	Measurement of iodine species and sulfuric acid using bromide chemical ionization mass spectrometers. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4187-4202.	1.2	13
765	Global/regional nested simulation of particle number concentration by combing microphysical processes with an evolving organic aerosol module. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9343-9366.	1.9	16
766	Real-Time Measurements of Botanical Disinfectant Emissions, Transformations, and Multiphase Inhalation Exposures in Buildings. <i>Environmental Science and Technology Letters</i> , 2021, 8, 558-566.	3.9	15
768	Discovery of a Potent Source of Gaseous Amines in Urban China. <i>Environmental Science and Technology Letters</i> , 2021, 8, 725-731.	3.9	17
769	Valine involved sulfuric acid-dimethylamine ternary homogeneous nucleation and its atmospheric implications. <i>Atmospheric Environment</i> , 2021, 254, 118373.	1.9	4
771	MOVES-Beijing-based high spatial and temporal resolution ammonia emissions from road traffic in Beijing. <i>Atmospheric Environment</i> , 2021, 256, 118443.	1.9	6
772	Influence of cosmic weather on the Earth's atmosphere. <i>Arctic and Antarctic Research</i> , 2021, 67, 177-207.	0.1	0
773	Secondary aerosol formation from dimethyl sulfide – improved mechanistic understanding based on smog chamber experiments and modelling. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9955-9976.	1.9	24
774	Synergistic effect of glutaric acid and ammonia/amine/amide on their hydrates in the clustering: A theoretical study. <i>Chemosphere</i> , 2021, 275, 130063.	4.2	5
775	Contribution of New Particle Formation to Cloud Condensation Nuclei Activity and its Controlling Factors in a Mountain Region of Inland China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034302.	1.2	6
776	Progress in Unraveling Atmospheric New Particle Formation and Growth Across the Arctic. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094198.	1.5	14
777	Observation of sub-3nm particles and new particle formation at an urban location in India. <i>Atmospheric Environment</i> , 2021, 256, 118460.	1.9	11
778	On the Ship Particle Number Emission Index: Size-Resolved Microphysics and Key Controlling Parameters. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034427.	1.2	2
779	Carbon dioxide as a line active agent: Its impact on line tension and nucleation rate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	5
780	A predictive model for salt nanoparticle formation using heterodimer stability calculations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11637-11654.	1.9	14

#	ARTICLE	IF	CITATIONS
781	Acid-Base Clusters during Atmospheric New Particle Formation in Urban Beijing. <i>Environmental Science & Technology</i> , 2021, 55, 10994-11005.	4.6	34
782	Ground-based Transmission Spectroscopy with VLT FORS2: Evidence for Faculae and Clouds in the Optical Spectrum of the Warm Saturn WASP-110b. <i>Astronomical Journal</i> , 2021, 162, 88.	1.9	6
783	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.	1.9	9
784	In situ observation of new particle formation (NPF) in the tropical tropopause layer of the 2017 Asian monsoon anticyclone – Part 1: Summary of StratoClim results. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11689-11722.	1.9	11
785	How much has the Sun influenced Northern Hemisphere temperature trends? An ongoing debate. <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 131.	0.7	43
786	Theoretical study of the formation and nucleation mechanism of highly oxygenated multi-functional organic compounds produced by α -pinene. <i>Science of the Total Environment</i> , 2021, 780, 146422.	3.9	12
787	The nano-scanning electrical mobility spectrometer (nSEMS) and its application to size distribution measurements of 1.5-25 nm particles. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5429-5445.	1.2	5
788	Rapid sulfuric acid-dimethylamine nucleation enhanced by nitric acid in polluted regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	22
789	Aerosol formation and growth rates from chamber experiments using Kalman smoothing. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12595-12611.	1.9	8
790	Opinion: Papers that shaped tropospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12909-12948.	1.9	4
791	Effects of aerosol size and coating thickness on the molecular detection using extractive electrospray ionization. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5913-5923.	1.2	7
792	A tutorial guide on new particle formation experiments using a laminar flow reactor. <i>Journal of Aerosol Science</i> , 2021, 157, 105808.	1.8	7
793	In situ observation of new particle formation (NPF) in the tropical tropopause layer of the 2017 Asian monsoon anticyclone – Part 2: NPF inside ice clouds. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13455-13481.	1.9	5
794	Tri-Base Synergy in Sulfuric Acid-Base Clusters. <i>Atmosphere</i> , 2021, 12, 1260.	1.0	12
795	Impacts of Hydroperoxymethyl Thioformate on the Global Marine Sulfur Budget. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2577-2586.	1.2	11
796	Elucidation of some solar parameters observed during solar cycles 21-24. <i>Advances in Space Research</i> , 2021, 68, 2643-2660.	1.2	6
797	The driving factors of new particle formation and growth in the polluted boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14275-14291.	1.9	38
798	The nucleation mechanism of succinic acid involved sulfuric acid - Dimethylamine in new particle formation. <i>Atmospheric Environment</i> , 2021, 263, 118683.	1.9	9

#	ARTICLE	IF	CITATIONS
799	Characteristics and sources of amine-containing particles in the urban atmosphere of Liao Cheng, a seriously polluted city in North China during the COVID-19 outbreak. <i>Environmental Pollution</i> , 2021, 289, 117887.	3.7	10
800	Organic acid-ammonia ion-induced nucleation pathways unveiled by quantum chemical calculation and kinetics modeling: A case study of 3-methyl-1,2,3-butanetricarboxylic acid. <i>Chemosphere</i> , 2021, 284, 131354.	4.2	4
801	The influences of Ni, Ag-doped TiO ₂ and SnO ₂ , Ag-doped SnO ₂ /TiO ₂ nanocomposites on recombination reduction in dye synthesized solar cells. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161709.	2.8	33
802	Combining instrument inversions for sub-10 nm aerosol number size-distribution measurements. <i>Journal of Aerosol Science</i> , 2022, 159, 105862.	1.8	9
803	The potential mechanism of atmospheric new particle formation involving amino acids with multiple functional groups. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10184-10195.	1.3	9
804	Emerging Investigator Series: COVID-19 lockdown effects on aerosol particle size distributions in northern Italy. <i>Environmental Science Atmospheres</i> , 2021, 1, 214-227.	0.9	12
805	A computationally efficient model to represent the chemistry, thermodynamics, and microphysics of secondary organic aerosols (simpleSOM): model development and application to Î±-pinene SOA. <i>Environmental Science Atmospheres</i> , 2021, 1, 372-394.	0.9	3
806	Electromagnetic Atmosphere-Plasma Coupling: The Global Atmospheric Electric Circuit. <i>Space Sciences Series of ISSI</i> , 2011, , 363-384.	0.0	1
807	Short-Lived Trace Gases in the Surface Ocean and the Atmosphere. <i>Springer Earth System Sciences</i> , 2014, , 1-54.	0.1	17
808	Ocean-Atmosphere Interactions of Particles. <i>Springer Earth System Sciences</i> , 2014, , 171-246.	0.1	29
809	Alternative Explanations. , 2013, , 147-178.		3
810	Anthropogenic Emissions of SO ₂ , NO _x , and NH ₃ in China. , 2020, , 13-40.		6
811	Estimate of main local sources to ambient ultrafine particle number concentrations in an urban area. <i>Atmospheric Research</i> , 2017, 194, 178-189.	1.8	25
813	Observational Evidence for the Involvement of Dicarboxylic Acids in Particle Nucleation. <i>Environmental Science and Technology Letters</i> , 2020, 7, 388-394.	3.9	30
814	Airborne particles might grow fast in cities. <i>Nature</i> , 2020, 581, 145-146.	13.7	5
815	Geological support for the Umbrella Effect as a link between geomagnetic field and climate. <i>Scientific Reports</i> , 2017, 7, 40682.	1.6	19
816	Where Did This Particle Come From? Sources of Particle Number and Mass for Human Exposure Estimates. <i>Issues in Environmental Science and Technology</i> , 2016, , 35-71.	0.4	5
817	Ab initio metadynamics calculations of dimethylamine for probing pK _b variations in bulk vs. surface environments. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26265-26277.	1.3	17

#	ARTICLE	IF	CITATIONS
818	Atmospheric aerosol particles. , 0, , 213-293.		1
819	Advanced Two-Layer Climate Model for the Assessment of Global Warming by CO ₂ . Open Journal of Atmospheric and Climate Change, 2014, 2014, 1-51.	0.0	4
821	Chemical composition, concentration and source apportionment of atmospheric submicron aerosol particles at urban and background sites. Lithuanian Journal of Physics, 2015, 54, .	0.1	3
822	Molecular insights into new particle formation in Barcelona, Spain. Atmospheric Chemistry and Physics, 2020, 20, 10029-10045.	1.9	27
823	Molecular understanding of the suppression of new-particle formation by isoprene. Atmospheric Chemistry and Physics, 2020, 20, 11809-11821.	1.9	49
824	Direct contribution of ammonia to α -pinene secondary organic aerosol formation. Atmospheric Chemistry and Physics, 2020, 20, 14393-14405.	1.9	17
825	The potential role of organics in new particle formation and initial growth in the remote tropical upper troposphere. Atmospheric Chemistry and Physics, 2020, 20, 15037-15060.	1.9	11
826	Identification of molecular cluster evaporation rates, cluster formation enthalpies and entropies by Monte Carlo method. Atmospheric Chemistry and Physics, 2020, 20, 15867-15906.	1.9	7
827	Importance of gas-particle partitioning of ammonia in haze formation in the rural agricultural environment. Atmospheric Chemistry and Physics, 2020, 20, 7259-7269.	1.9	31
828	Molecular understanding of new-particle formation from α -pinene between \sim 50 and +25°C. Atmospheric Chemistry and Physics, 2020, 20, 9183-9207.	1.9	68
873	Nano-hygroscopicity tandem differential mobility analyzer (nano-HTDMA) for investigating hygroscopic properties of sub-10 nm aerosol nanoparticles. Atmospheric Measurement Techniques, 2020, 13, 5551-5567.	1.2	11
877	Binary and ternary homogeneous and ion-mediated nucleation: lookup tables version 1.0 for 3-D modeling application. Geoscientific Model Development, 2020, 13, 2663-2670.		
878	Pollutant Control by Electric Methods. Advanced Topics in Science and Technology in China, 2021, , 105-198.	0.0	0
879	Low Volatility Vapors and New Particle Formation Over the Southern Ocean During the Antarctic Circumnavigation Expedition. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035126.	1.2	14
880	Atmospheric ionization and cloud radiative forcing. Scientific Reports, 2021, 11, 19668.	1.6	11
882	Cloud formation may be linked to cosmic rays. Nature, 0, , .	13.7	3
883	Prospects of Tools from Differential Games in the Study of Macroeconomics of Climate Change. SSRN Electronic Journal, 0, , .	0.4	0
885	Solar Influence on Global and Regional Climates. Space Sciences Series of ISSI, 2012, , 171-202.	0.0	2

#	ARTICLE	IF	CITATIONS
890	Living with Water. , 2013, , 1-30.		0
891	Fair-Weather Atmospheric Electrification on Earth. SpringerBriefs in Astronomy, 2013, , 7-11.	1.6	0
899	Model Description. Springer Theses, 2014, , 35-52.	0.0	0
900	The Impact of Biogenic SOA on Particle and Cloud Condensation Nuclei Concentration. Springer Theses, 2014, , 53-73.	0.0	0
901	Conclusions, Implications and Further Work. Springer Theses, 2014, , 125-132.	0.0	0
908	The Role of Clouds, Aerosols and Galactic Cosmic Rays in Climate Change. CIM Series in Mathematical Sciences, 2015, , 339-344.	0.4	0
909	Prospects of Tools from Differential Games in the Study of Macroeconomics of Climate Change. , 2015, , .		0
910	Aerosol Modelling. , 2015, , 51-81.		0
918	Front Matter Title. Jurnal Kebijakan Sosial Ekonomi Kelautan Dan Perikanan, 2016, 3, .	0.1	0
919	Knowledge and Technology: Sharing With Society. Advanced Series on Directions in High Energy Physics, 2017, , 365-392.	0.7	1
920	Sun and Weather. , 2018, , 91-107.		0
921	Cosmic rays and aerosols in the terrestrial atmosphere. Bulletin of Taras Shevchenko National University of Kyiv Astronomy, 2018, , 15-27.	0.1	0
923	Relationship Among a Supernova, a Transition of Polarity of the Geomagnetic Field and the Pliocene-Pleistocene Boundary. Springer Earth System Sciences, 2020, , 1-39.	0.1	2
924	Contribution of Atmospheric Reactive Nitrogen to Haze Pollution in China. , 2020, , 113-134.		0
925	Galactic cosmic ray propagation through M dwarf planetary systems. Monthly Notices of the Royal Astronomical Society, 2021, 509, 2091-2101.	1.6	4
926	Large nucleating ions (H ₂ SO ₄) _n (HSO ₄ -)(NH ₃) _m : Formation mechanism and appearance in the earth's atmosphere. AIP Conference Proceedings, 2020, , .	0.3	0
928	Przyczyny zmian ziemskiego klimatu. Przegląd Geodezyjny, 2020, 1, 10-14.	0.1	0
929	Abating ammonia is more cost-effective than nitrogen oxides for mitigating PM _{2.5} air pollution. Science, 2021, 374, 758-762.	6.0	191

#	ARTICLE	IF	CITATIONS
930	Binary and multicomponent gas-liquid nucleation. , 2022, , 107-137.		0
931	Chemical composition of nanoparticles from α -pinene nucleation and the influence of isoprene and relative humidity at low temperature. Atmospheric Chemistry and Physics, 2021, 21, 17099-17114.	1.9	12
932	Wintertime subarctic new particle formation from Kola Peninsula sulfur emissions. Atmospheric Chemistry and Physics, 2021, 21, 17559-17576.	1.9	9
933	Reduction in Anthropogenic Emissions Suppressed New Particle Formation and Growth: Insights From the COVID-19 Lockdown. Journal of Geophysical Research D: Atmospheres, 2022, 127, e2021JD035392.	1.2	7
934	Evolution of size-segregated aerosol concentration in NW Spain: A two-step classification to identify new particle formation events. Journal of Environmental Management, 2022, 304, 114232.	3.8	2
935	Physical Aspects of Climate Change. Springer Atmospheric Sciences, 2021, , 261-291.	0.4	0
936	Formation mechanism of typical aromatic sulfuric anhydrides and their potential role in atmospheric nucleation process. Journal of Environmental Sciences, 2022, , .	3.2	0
937	A New Type of Quartz Smog Chamber: Design and Characterization. Environmental Science & Technology, 2022, 56, 2181-2190.	4.6	7
938	Real-time monitoring of aerosol particle formation from sulfuric acid vapor at elevated concentrations and temperatures. Physical Chemistry Chemical Physics, 2022, , .	1.3	0
939	Description and evaluation of a secondary organic aerosol and new particle formation scheme within TM5-MP v1.2. Geoscientific Model Development, 2022, 15, 683-713.	1.3	5
940	Supernova Rates and Burial of Organic Matter. Geophysical Research Letters, 2022, 49, .	1.5	7
941	Effects of the Laschamps Excursion on Geomagnetic Cutoff Rigidities. Geochemistry, Geophysics, Geosystems, 2022, 23, .	1.0	8
942	Rapid Increase in China's Industrial Ammonia Emissions: Evidence from Unit-Based Mapping. Environmental Science & Technology, 2022, 56, 3375-3385.	4.6	20
943	Activation of sub-3 nm organic particles in the particle size magnifier using humid and dry conditions. Journal of Aerosol Science, 2022, 161, 105945.	1.8	3
944	Sulphuric acid aerosols in low oxygen environments. Journal of Aerosol Science, 2022, 162, 105956.	1.8	0
945	DFT Study of the Formation of Atmospheric Aerosol Precursors from the Interaction between Sulfuric Acid and Benzenedicarboxylic Acid Molecules. Journal of Physical Chemistry A, 2022, 126, 1211-1220.	1.1	2
946	Electron collisions with dimethylamine and trimethylamine molecules and molecular ions. International Journal of Mass Spectrometry, 2022, 474, 116802.	0.7	0
948	Ester Plastic S Optimized by Acids Can Be Used to Efficiently Capture Ammonia. SSRN Electronic Journal, 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
949	Composition and Some Methodical Problems of the Ground Facility for Measuring Charged and Neutral Cosmic Ray Components. <i>Bulletin of the Lebedev Physics Institute</i> , 2022, 49, 10-17.	0.1	2
950	Measurement report: Long-term measurements of aerosol precursor concentrations in the Finnish subarctic boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2237-2254.	1.9	6
951	Chemical Defect-Driven Response on Graphene-Based Chemiresistors for Sub-ppm Ammonia Detection. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	16
952	Chemical Defect-Driven Response on Graphene-Based Chemiresistors for Sub-ppm Ammonia Detection. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
953	NH ₃ and CO Emissions from Fifteen Euro 6d and Euro 6d-TEMP Gasoline-Fuelled Vehicles. <i>Catalysts</i> , 2022, 12, 245.	1.6	10
954	Chemistry and human exposure implications of secondary organic aerosol production from indoor terpene ozonolysis. <i>Science Advances</i> , 2022, 8, eabj9156.	4.7	25
955	The role of organic acids in new particle formation from methanesulfonic acid and methylamine. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2639-2650.	1.9	20
956	Measurement of atmospheric nanoparticles: Bridging the gap between gas-phase molecules and larger particles. <i>Journal of Environmental Sciences</i> , 2023, 123, 183-202.	3.2	7
957	Technical note: Real-time diagnosis of the hygroscopic growth micro-dynamics of nanoparticles with Fourier transform infrared spectroscopy. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3097-3109.	1.9	2
959	Effect of Hydration on Electron Attachment to Methanesulfonic Acid Clusters. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1542-1550.	1.1	1
960	Occurrence and growth of sub-50-nm aerosol particles in the Amazonian boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3469-3492.	1.9	16
961	Single-particle Raman spectroscopy for studying physical and chemical processes of atmospheric particles. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3017-3044.	1.9	16
962	Recent Developments in the Determination of PM _{2.5} Chemical Composition. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, , 1.	1.3	11
963	Perspective on the Recent Measurements of Reduced Nitrogen Compounds in the Atmosphere. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	3
964	Effects of Forbush decreases on clouds determined from PATMOS-x. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2022, 230, 105845.	0.6	3
966	Observations of particle number size distributions and new particle formation in six Indian locations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4491-4508.	1.9	6
967	The striking effect of vertical mixing in the planetary boundary layer on new particle formation in the Yangtze River Delta. <i>Science of the Total Environment</i> , 2022, 829, 154607.	3.9	11
968	Sir Arnold Whittaker Wolfendale. 25 June 1927-21 December 2020. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2022, 72, 407-430.	0.1	0

#	ARTICLE	IF	CITATIONS
969	Manifestation of Solar Activity Effects in Lidar Observations of Stratospheric Aerosol. <i>Geomagnetism and Aeronomy</i> , 2021, 61, S67-S74.	0.2	2
974	The Effect of Using a New Parameterization of Nucleation in the WRF-Chem Model on New Particle Formation in a Passive Volcanic Plume. <i>Atmosphere</i> , 2022, 13, 15.	1.0	1
975	What controls the observed size-dependency of the growth rates of sub-10 nm atmospheric particles?. <i>Environmental Science Atmospheres</i> , 2022, 2, 449-468.	0.9	5
978	Microscopic Insights Into the Formation of Methanesulfonic Acidâ€“Methylamineâ€“Ammonia Particles Under Acid-Rich Conditions. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	1.1	1
979	Terpene emissions from boreal wetlands can initiate stronger atmospheric new particle formation than boreal forests. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	8
980	Clusteromics III: Acid Synergy in Sulfuric Acidâ€“Methanesulfonic Acidâ€“Base Cluster Formation. <i>ACS Omega</i> , 2022, 7, 15206-15214.	1.6	19
981	An evaluation of new particle formation events in Helsinki during a Baltic Sea cyanobacterial summer bloom. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6365-6391.	1.9	6
982	Amine-Enhanced Methanesulfonic Acid-Driven Nucleation: Predictive Model and Cluster Formation Mechanism. <i>Environmental Science & Technology</i> , 2022, 56, 7751-7760.	4.6	13
983	Synergistic HNO ₃ â€“H ₂ SO ₄ â€“NH ₃ upper tropospheric particle formation. <i>Nature</i> , 2022, 605, 483-489.	13.7	26
984	Studies on the Conformation, Thermodynamics, and Evaporation Rate Characteristics of Sulfuric Acid and Amines Molecular Clusters Jiao Chen1. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
987	Compilation of reaction kinetics parameters determined in the Key Development Project for Air Pollution Formation Mechanism and Control Technologies in China. <i>Journal of Environmental Sciences</i> , 2023, 123, 327-340.	3.2	1
988	Role of gasâ€“molecular clusterâ€“aerosol dynamics in atmospheric new-particle formation. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
989	Pushing Down the Limit of NH ₃ Detection of Graphene-Based Chemiresistive Sensors through Functionalization by Thermally Activated Tetrazoles Dimerization. <i>ACS Nano</i> , 2022, 16, 10456-10469.	7.3	8
990	Developing Nitrogen Isotopic Source Profiles of Atmospheric Ammonia for Source Apportionment of Ammonia in Urban Beijing. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	2
991	A high-transmission axial ion mobility classifier for massâ€“mobility measurements of atmospheric ions. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3705-3720.	1.2	0
992	Experimental and Theoretical Study on the Enhancement of Alkanolamines on Sulfuric Acid Nucleation. <i>Journal of Physical Chemistry A</i> , 2022, 126, 4057-4067.	1.1	4
993	Changes in the new particle formation and shrinkage events of the atmospheric ions during the COVID-19 lockdown. <i>Urban Climate</i> , 2022, 44, 101214.	2.4	2
994	Modeling the Regional Influence of Ions on Aerosol Formation in the Atmosphere. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2022, 58, 246-253.	0.2	0

#	ARTICLE	IF	CITATIONS
995	A sulfuric acid nucleation potential model for the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8287-8297.	1.9	3
996	Diurnal evolution of negative atmospheric ions above the boreal forest: from ground level to the free troposphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8547-8577.	1.9	5
997	Investigation of new particle formation mechanisms and aerosol processes at Marambio Station, Antarctic Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8417-8437.	1.9	7
998	Observation of large and all-season ozone losses over the tropics. <i>AIP Advances</i> , 2022, 12, .	0.6	5
999	The missing base molecules in atmospheric acid–base nucleation. <i>National Science Review</i> , 2022, 9, .	4.6	18
1000	Theoretical analysis of sulfuric acid–dimethylamine–oxalic acid–water clusters and implications for atmospheric cluster formation. <i>RSC Advances</i> , 2022, 12, 22425-22434.	1.7	0
1001	Aerosol processes. , 2022, , 135-185.		1
1002	Computational chemistry of cluster: Understanding the mechanism of atmospheric new particle formation at the molecular level. <i>Chemosphere</i> , 2022, 308, 136109.	4.2	7
1003	Clusteromics IV: The Role of Nitric Acid in Atmospheric Cluster Formation. <i>ACS Omega</i> , 2022, 7, 31551-31560.	1.6	10
1004	Structure and functional group regulation of plastics for efficient ammonia capture. <i>Journal of Hazardous Materials</i> , 2022, 440, 129789.	6.5	3
1005	Tutorial: Dynamic organic growth modeling with a volatility basis set. <i>Journal of Aerosol Science</i> , 2022, 166, 106063.	1.8	5
1006	Molecular-level insight into uptake of dimethylamine on hydrated nitric acid clusters. <i>Environmental Science Atmospheres</i> , 2022, 2, 1292-1302.	0.9	1
1007	Studies on the conformation, thermodynamics, and evaporation rate characteristics of sulfuric acid and amines molecular clusters. <i>Results in Chemistry</i> , 2022, 4, 100527.	0.9	0
1008	Sulfuric acid–dimethylamine particle formation enhanced by functional organic acids: an integrated experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 23540-23550.	1.3	2
1009	Review of online measurement techniques for chemical composition of atmospheric clusters and sub-20 nm particles. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	2
1010	The effectiveness of the coagulation sink of 3–10 nm atmospheric particles. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 11529-11541.	1.9	3
1011	Critical Role of Iodous Acid in Neutral Iodine Oxoacid Nucleation. <i>Environmental Science & Technology</i> , 2022, 56, 14166-14177.	4.6	12
1012	The Value of Sustainable Tourism Destinations in the Eyes of Visitors. <i>Itinerarios De Trabajo Social</i> , 2022, 1, 202-223.	0.2	0

#	ARTICLE	IF	CITATIONS
1013	15N Natural Abundance Characteristics of Ammonia Volatilization from Soils Applied by Different Types of Fertilizer. <i>Atmosphere</i> , 2022, 13, 1566.	1.0	2
1014	High Gas-Phase Methanesulfonic Acid Production in the OH-Initiated Oxidation of Dimethyl Sulfide at Low Temperatures. <i>Environmental Science & Technology</i> , 2022, 56, 13931-13944.	4.6	14
1015	Experiment–theory hybrid method for studying the formation mechanism of atmospheric new particle formation. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 27908-27914.	1.3	2
1016	Ion–Molecule Rate Constants for Reactions of Sulfuric Acid with Acetate and Nitrate Ions. <i>Journal of Physical Chemistry A</i> , 2022, 126, 8240-8248.	1.1	4
1017	The Phanerozoic climate. <i>Annals of the New York Academy of Sciences</i> , 2023, 1519, 7-19.	1.8	5
1018	The gas-phase formation mechanism of iodic acid as an atmospheric aerosol source. <i>Nature Chemistry</i> , 2023, 15, 129-135.	6.6	10
1019	Vigorous New Particle Formation Above Polluted Boundary Layer in the North China Plain. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
1020	Survival probability of new atmospheric particles: closure between theory and measurements from 1.4 to 100 nm. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 14571-14587.	1.9	3
1021	A year-round study of ambient gaseous pollutants, their atmospheric chemistry and role in secondary particle formation at an urban site in Delhi. <i>Atmospheric Environment</i> , 2023, 295, 119557.	1.9	2
1022	The importance of ammonia for springtime atmospheric new particle formation and aerosol number abundance over the United States. <i>Science of the Total Environment</i> , 2023, 863, 160756.	3.9	3
1023	Enhanced sulfur in the upper troposphere and lower stratosphere in spring 2020. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 15135-15151.	1.9	1
1024	Measurement report: Increasing trend of atmospheric ion concentrations in the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 15223-15242.	1.9	1
1025	Observation and Source Apportionment of Atmospheric Alkaline Gases in Urban Beijing. <i>Environmental Science & Technology</i> , 2022, 56, 17545-17555.	4.6	8
1026	Massive Assessment of the Binding Energies of Atmospheric Molecular Clusters. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 7373-7383.	2.3	11
1027	Response to “Comment on ‘Observation of large and all-season ozone losses over the tropics’” [AIP Adv. 12, 075006 (2022)]. <i>AIP Advances</i> , 2022, 12, 129101.	0.6	1
1028	Progress on selective catalytic oxidation of ammonia (NH ₃ –SCO) over Ag-based catalysts. <i>Catalysis Today</i> , 2022, , .	2.2	1
1029	Titanium Dioxide Promotes New Particle Formation: A Smog Chamber Study. <i>Environmental Science & Technology</i> , 2023, 57, 920-928.	4.6	4
1030	New particle formation and growth during summer in an urban environment: a dual chamber study. <i>Atmospheric Chemistry and Physics</i> , 2023, 23, 85-97.	1.9	2

#	ARTICLE	IF	CITATIONS
1031	Benchmarking general neural network potential $\langle \text{ANI} \rangle_{\text{E2x}}$ on aerosol nucleation molecular clusters. <i>International Journal of Quantum Chemistry</i> , 2023, 123, .	1.0	3
1032	A Chemiresistor Sensor Array Based on Graphene Nanostructures: From the Detection of Ammonia and Possible Interfering VOCs to Chemometric Analysis. <i>Sensors</i> , 2023, 23, 882.	2.1	7
1033	Bridging Gaps between Clusters in Molecular-Beam Experiments and Aerosol Nanoclusters. <i>Journal of Physical Chemistry Letters</i> , 2023, 14, 287-294.	2.1	6
1034	Atmospheric Oxidation and Secondary Particle Formation. <i>Advanced Topics in Science and Technology in China</i> , 2023, , 19-91.	0.0	0
1035	Spectroscopic Studies of Clusters of Atmospheric Relevance. <i>Annual Review of Physical Chemistry</i> , 2023, 74, .	4.8	0
1036	Aerosols, Clusters, Greenhouse Gases, Trace Gases and Boundary-Layer Dynamics: on Feedbacks and Interactions. <i>Boundary-Layer Meteorology</i> , 2023, 186, 475-503.	1.2	6
1037	An unexpected feasible route for the formation of organosulfates by the gas phase reaction of sulfuric acid with acetaldehyde catalyzed by dimethylamine in the atmosphere. <i>Environmental Science Atmospheres</i> , 2023, 3, 672-682.	0.9	2
1038	Molecular Understanding of the Enhancement in Organic Aerosol Mass at High Relative Humidity. <i>Environmental Science & Technology</i> , 2023, 57, 2297-2309.	4.6	8
1039	A new portable open-path instrument for ambient NH ₃ and on-road emission measurements. <i>Journal of Environmental Sciences</i> , 2024, 136, 606-614.	3.2	2
1040	Increasing net ecosystem carbon budget and mitigating global warming potential with improved irrigation and nitrogen fertilization management of a spring wheat farmland system in arid Northwest China. <i>Plant and Soil</i> , 2023, 489, 193-209.	1.8	1
1041	Observations of biogenic volatile organic compounds over a mixed temperate forest during the summer to autumn transition. <i>Atmospheric Chemistry and Physics</i> , 2023, 23, 4123-4148.	1.9	6
1042	Machine Learning Reveals the Parameters Affecting the Gaseous Sulfuric Acid Distribution in a Coastal City: Model Construction and Interpretation. <i>Environmental Science and Technology Letters</i> , 2023, 10, 1045-1051.	3.9	1
1043	Infrequent new particle formation in a coastal Mediterranean city during the summer. <i>Atmospheric Environment</i> , 2023, 302, 119732.	1.9	1
1044	Mechanistic understanding of rapid H ₂ SO ₄ -HNO ₃ -NH ₃ nucleation in the upper troposphere. <i>Science of the Total Environment</i> , 2023, 883, 163477.	3.9	0
1045	Particle number concentrations and size distributions in the stratosphere: implications of nucleation mechanisms and particle microphysics. <i>Atmospheric Chemistry and Physics</i> , 2023, 23, 1863-1877.	1.9	2
1046	Supernovae and the Earth. <i>Journal of the Geological Society of Japan</i> , 2023, 129, 125-143.	0.2	0
1047	Atmospheric Sulfuric Acidâ€“Multi-Base New Particle Formation Revealed through Quantum Chemistry Enhanced by Machine Learning. <i>Journal of Physical Chemistry A</i> , 2023, 127, 2091-2103.	1.1	9
1048	Clusteromics V: Organic Enhanced Atmospheric Cluster Formation. <i>ACS Omega</i> , 2023, 8, 9621-9629.	1.6	8

#	ARTICLE	IF	CITATIONS
1049	Role of Methanesulfonic Acid in Sulfuric Acid–Amine and Ammonia New Particle Formation. ACS Earth and Space Chemistry, 2023, 7, 653-660.	1.2	4
1050	On the relation between rain, clouds, and cosmic rays. Remote Sensing Letters, 2023, 14, 301-312.	0.6	3
1051	A persistent influence of supernovae on biodiversity over the Phanerozoic. Ecology and Evolution, 2023, 13, .	0.8	0
1052	The neglected autoxidation pathways for the formation of highly oxygenated organic molecules (HOMs) and the nucleation of the HOMs generated by limonene. Atmospheric Environment, 2023, 304, 119727.	1.9	2
1053	Autoxidation Mechanism and Kinetics of Methacrolein in the Atmosphere. Journal of Physical Chemistry A, 2023, 127, 2819-2829.	1.1	1
1054	Measurement report: Molecular-level investigation of atmospheric cluster ions at the tropical high-altitude research station Chacaltaya (5240 m a.s.l.) in the Bolivian Andes. Atmospheric Chemistry and Physics, 2023, 23, 4559-4576.	1.9	4
1055	Contribution of regional aerosol nucleation to low-level CCN in an Amazonian deep convective environment: results from a regionally nested global model. Atmospheric Chemistry and Physics, 2023, 23, 4431-4461.	1.9	2
1056	Enhancement of Atmospheric Nucleation Precursors on Iodic Acid-Induced Nucleation: Predictive Model and Mechanism. Environmental Science & Technology, 2023, 57, 6944-6954.	4.6	6
1057	Introduction to Atmospheric Simulation Chambers and Their Applications. , 2023, , 1-72.		0
1096	Atmospheric new particle formation from the CERN CLOUD experiment. Nature Geoscience, 2023, 16, 948-957.	5.4	2