

# Athanasios Nenes

## List of Publications by Year in descending order

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335  
papers

30,622  
citations

5569

82  
h-index

7944

149  
g-index

579  
all docs

579  
docs citations

579  
times ranked

13904  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic aerosol and global climate modelling: a review. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1053-1123.	1.9	2,947
2	ISORROPIA II: a computationally efficient thermodynamic equilibrium model for $\text{Ca}^{2+}$ and $\text{Mg}^{2+}$ . <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4639-4659.	2.8	236
3	ISORROPIA: A New Thermodynamic Equilibrium Model for Multiphase Multicomponent Inorganic Aerosols. <i>Aquatic Geochemistry</i> , 1998, 4, 123-152.	1.5	1,146
4	A Continuous-Flow Streamwise Thermal-Gradient CCN Chamber for Atmospheric Measurements. <i>Aerosol Science and Technology</i> , 2005, 39, 206-221.	1.5	789
5	Effects of anthropogenic emissions on aerosol formation from isoprene and monoterpenes in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 37-42.	3.3	496
6	Improving our fundamental understanding of the role of aerosol-cloud interactions in the climate system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5781-5790.	3.3	479
7	Fine-particle water and pH in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5211-5228.	1.9	413
8	Microbiome of the upper troposphere: Species composition and prevalence, effects of tropical storms, and atmospheric implications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2575-2580.	3.3	377
9	Particle Phase Acidity and Oligomer Formation in Secondary Organic Aerosol. <i>Environmental Science &amp; Technology</i> , 2004, 38, 6582-6589.	4.6	359
10	High aerosol acidity despite declining atmospheric sulfate concentrations over the past 15 years. <i>Nature Geoscience</i> , 2016, 9, 282-285.	5.4	327
11	The acidity of atmospheric particles and clouds. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4809-4888.	1.9	327
12	Highly Acidic Ambient Particles, Soluble Metals, and Oxidative Potential: A Link between Sulfate and Aerosol Toxicity. <i>Environmental Science &amp; Technology</i> , 2017, 51, 2611-2620.	4.6	323
13	Continued development and testing of a new thermodynamic aerosol module for urban and regional air quality models. <i>Atmospheric Environment</i> , 1999, 33, 1553-1560.	1.9	314
14	Phytoplankton and Cloudiness in the Southern Ocean. <i>Science</i> , 2006, 314, 1419-1423.	6.0	308
15	Mapping the Operation of the DMT Continuous Flow CCN Counter. <i>Aerosol Science and Technology</i> , 2006, 40, 242-254.	1.5	295
16	Global atmospheric particle formation from CERN CLOUD measurements. <i>Science</i> , 2016, 354, 1119-1124.	6.0	289
17	Parameterization of cloud droplet formation in global climate models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	288
18	Evolution of brown carbon in wildfire plumes. <i>Geophysical Research Letters</i> , 2015, 42, 4623-4630.	1.5	284

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19	Iron mobilization in mineral dust: Can anthropogenic SO <sub>2</sub> emissions affect ocean productivity?. Geophysical Research Letters, 2003, 30, .	1.5	267
20	A critical evaluation of proxy methods used to estimate the acidity of atmospheric particles. Atmospheric Chemistry and Physics, 2015, 15, 2775-2790.	1.9	266
21	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. Atmospheric Chemistry and Physics, 2011, 11, 2423-2453.	1.9	259
22	Continued development of a cloud droplet formation parameterization for global climate models. Journal of Geophysical Research, 2005, 110, .	3.3	232
23	Past, Present, and Future Atmospheric Nitrogen Deposition. Journals of the Atmospheric Sciences, 2016, 73, 2039-2047.	0.6	222
24	In-cloud oxalate formation in the global troposphere: a 3-D modeling study. Atmospheric Chemistry and Physics, 2011, 11, 5761-5782.	1.9	218
25	Examining the effects of anthropogenic emissions on isoprene-derived secondary organic aerosol formation during the 2013 Southern Oxidant and Aerosol Study (SOAS) at the Look Rock, Tennessee ground site. Atmospheric Chemistry and Physics, 2015, 15, 8871-8888.	1.9	213
26	Dust and pollution: A recipe for enhanced ocean fertilization?. Journal of Geophysical Research, 2005, 110, .	3.3	208
27	CCN activity and droplet growth kinetics of fresh and aged monoterpene secondary organic aerosol. Atmospheric Chemistry and Physics, 2008, 8, 3937-3949.	1.9	199
28	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5830-5866.	1.2	199
29	Comprehensive Simultaneous Shipboard and Airborne Characterization of Exhaust from a Modern Container Ship at Sea. Environmental Science & Technology, 2009, 43, 4626-4640.	4.6	192
30	On the implications of aerosol liquid water and phase separation for organic aerosol mass. Atmospheric Chemistry and Physics, 2017, 17, 343-369.	1.9	189
31	Development and application of the Model of Aerosol Dynamics, Reaction, Ionization, and Dissolution (MADRID). Journal of Geophysical Research, 2004, 109, .	3.3	184
32	Air pollutionâ€“aerosol interactions produce more bioavailable iron for ocean ecosystems. Science Advances, 2017, 3, e1601749.	4.7	182
33	Description and evaluation of GMX: a new aerosol submodel for global simulations (v1). Geoscientific Model Development, 2010, 3, 391-412.	1.3	178
34	Can chemical effects on cloud droplet number rival the first indirect effect?. Geophysical Research Letters, 2002, 29, 291-294.	1.5	176
35	Fine particle pH and the partitioning of nitric acid during winter in the northeastern United States. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,355.	1.2	176
36	Revising the hygroscopicity of inorganic sea salt particles. Nature Communications, 2017, 8, 15883.	5.8	173

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37	ATMOSPHERIC SCIENCE: Reshaping the Theory of Cloud Formation. <i>Science</i> , 2001, 292, 2025-2026.	6.0	172
38	Relating CCN activity, volatility, and droplet growth kinetics of $\beta$ -caryophyllene secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 795-812.	1.9	170
39	Top-of-atmosphere radiative forcing affected by brown carbon in the upper troposphere. <i>Nature Geoscience</i> , 2017, 10, 486-489.	5.4	168
40	Fine particle pH and gas-particle phase partitioning of inorganic species in Pasadena, California, during the 2010 CalNex campaign. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5703-5719.	1.9	168
41	Climatic effects of 1950-2050 changes in US anthropogenic aerosols - Part 1: Aerosol trends and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3333-3348.	1.9	157
42	Atmospheric acidification of mineral aerosols: a source of bioavailable phosphorus for the oceans. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6265-6272.	1.9	156
43	Changes in Light Absorptivity of Molecular Weight Separated Brown Carbon Due to Photolytic Aging. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8414-8421.	4.6	153
44	Cloud condensation nuclei measurements in the marine boundary layer of the Eastern Mediterranean: CCN closure and droplet growth kinetics. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7053-7066.	1.9	150
45	pH of Aerosols in a Polluted Atmosphere: Source Contributions to Highly Acidic Aerosol. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4289-4296.	4.6	147
46	Scanning Mobility CCN Analysis - A Method for Fast Measurements of Size-Resolved CCN Distributions and Activation Kinetics. <i>Aerosol Science and Technology</i> , 2010, 44, 861-871.	1.5	146
47	On the effect of dust particles on global cloud condensation nuclei and cloud droplet number. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	146
48	Saharan dust event impacts on cloud formation and radiation over Western Europe. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4045-4063.	1.9	146
49	Gas/particle partitioning of water-soluble organic aerosol in Atlanta. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3613-3628.	1.9	144
50	High levels of ammonia do not raise fine particle pH sufficiently to yield nitrogen oxide-dominated sulfate production. <i>Scientific Reports</i> , 2017, 7, 12109.	1.6	144
51	Comprehensive airborne characterization of aerosol from a major bovine source. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5489-5520.	1.9	143
52	Particle water and pH in the eastern Mediterranean: source variability and implications for nutrient availability. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4579-4591.	1.9	142
53	Investigation of molar volume and surfactant characteristics of water-soluble organic compounds in biomass burning aerosol. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 799-812.	1.9	136
54	Climatic effects of 1950-2050 changes in US anthropogenic aerosols - Part 2: Climate response. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3349-3362.	1.9	136

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55	Processing of biomass-burning aerosol in the eastern Mediterranean during summertime. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4793-4807.	1.9	133
56	Pyrogenic iron: The missing link to high iron solubility in aerosols. <i>Science Advances</i> , 2019, 5, eaau7671.	4.7	128
57	An integrated modeling study on the effects of mineral dust and sea salt particles on clouds and precipitation. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 873-892.	1.9	123
58	Droplet nucleation: Physically-based parameterizations and comparative evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, .	1.3	123
59	Differences between downscaling with spectral and grid nudging using WRF. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3601-3610.	1.9	123
60	Kinetic limitations on cloud droplet formation and impact on cloud albedo. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001, 53, 133-149.	0.8	122
61	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12181-12194.	1.9	121
62	Modification of aerosol mass and size distribution due to aqueous-phase SO <sub>2</sub> oxidation in clouds: Comparisons of several models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	120
63	Measurements of cloud condensation nuclei activity and droplet activation kinetics of fresh unprocessed regional dust samples and minerals. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3527-3541.	1.9	120
64	Effectiveness of ammonia reduction on control of fine particle nitrate. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12241-12256.	1.9	120
65	Prediction of cloud condensation nucleus number concentration using measurements of aerosol size distributions and composition and light scattering enhancement due to humidity. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	119
66	MADM-A New Multicomponent Aerosol Dynamics Model. <i>Aerosol Science and Technology</i> , 2000, 32, 482-502.	1.5	118
67	Analysis of CCN activity of Arctic aerosol and Canadian biomass burning during summer 2008. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2735-2756.	1.9	117
68	Chapter 7. Secondary Ice Production - current state of the science and recommendations for the future. <i>Meteorological Monographs</i> , 0, , .	5.0	116
69	Corrections and Clarifications. <i>Science</i> , 2007, 317, 43-43.	6.0	115
70	Impact of Fuel Quality Regulation and Speed Reductions on Shipping Emissions: Implications for Climate and Air Quality. <i>Environmental Science &amp; Technology</i> , 2011, 45, 9052-9060.	4.6	115
71	An assessment of the ability of three-dimensional air quality models with current thermodynamic equilibrium models to predict aerosol NO <sub>3</sub> <sup>-</sup> . <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	113
72	Cloud condensation nuclei closure during the International Consortium for Atmospheric Research on Transport and Transformation 2004 campaign: Effects of size-resolved composition. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	113

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73	On the link between ocean biota emissions, aerosol, and maritime clouds: Airborne, ground, and satellite measurements off the coast of California. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	113
74	Aerosol hygroscopicity and CCN activation kinetics in a boreal forest environment during the 2007 EUCAARI campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12369-12386.	1.9	110
75	Aerosol-cloud drop concentration closure in warm cumulus. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	109
76	Thermodynamic characterization of Mexico City aerosol during MILAGRO 2006. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2141-2156.	1.9	108
77	Parameterization of cloud droplet formation for global and regional models: including adsorption activation from insoluble CCN. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2517-2532.	1.9	108
78	Long-term cloud condensation nuclei number concentration, particle number size distribution and chemical composition measurements at regionally representative observatories. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2853-2881.	1.9	108
79	Atmospheric evolution of molecular-weight-separated brown carbon from biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7319-7334.	1.9	107
80	Parameterizing the competition between homogeneous and heterogeneous freezing in ice cloud formation – polydisperse ice nuclei. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5933-5948.	1.9	106
81	Comprehensively accounting for the effect of giant CCN in cloud activation parameterizations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2467-2473.	1.9	106
82	Implementation of dust emission and chemistry into the Community Multiscale Air Quality modeling system and initial application to an Asian dust storm episode. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10209-10237.	1.9	104
83	Surfactants from the gas phase may promote cloud droplet formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2723-2728.	3.3	102
84	A STUDY OF PROCESSES THAT GOVERN THE MAINTENANCE OF AEROSOLS IN THE MARINE BOUNDARY LAYER. <i>Journal of Aerosol Science</i> , 1999, 30, 503-532.	1.8	98
85	On the link between hygroscopicity, volatility, and oxidation state of ambient and water-soluble aerosols in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8679-8694.	1.9	98
86	Aerosol-cloud drop concentration closure for clouds sampled during the International Consortium for Atmospheric Research on Transport and Transformation 2004 campaign. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	97
87	An overview of the ORACLES (ObseRvations of Aerosols above CLouds and their intEractionS) project: aerosol–cloud–radiation interactions in the southeast Atlantic basin. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1507-1563.	1.9	97
88	Analysis of urban gas phase ammonia measurements from the 2002 Atlanta Aerosol Nucleation and Real-Time Characterization Experiment (ANARChE). <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	95
89	Airborne cloud condensation nuclei measurements during the 2006 Texas Air Quality Study. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	91
90	Water Vapor Depletion in the DMT Continuous-Flow CCN Chamber: Effects on Supersaturation and Droplet Growth. <i>Aerosol Science and Technology</i> , 2011, 45, 604-615.	1.5	90

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91	Eastern Pacific Emitted Aerosol Cloud Experiment. Bulletin of the American Meteorological Society, 2013, 94, 709-729.	1.7	89
92	Characterization of aerosol composition, aerosol acidity, and organic acid partitioning at an agriculturally intensive rural southeastern US site. Atmospheric Chemistry and Physics, 2018, 18, 11471-11491.	1.9	88
93	On the volatility and production mechanisms of newly formed nitrate and water soluble organic aerosol in Mexico City. Atmospheric Chemistry and Physics, 2008, 8, 3761-3768.	1.9	87
94	Global distribution and climate forcing of marine organic aerosol: 1. Model improvements and evaluation. Atmospheric Chemistry and Physics, 2011, 11, 11689-11705.	1.9	87
95	Evaluation of a new cloud droplet activation parameterization with in situ data from CRYSTAL-FACE and CSTRIFE. Journal of Geophysical Research, 2005, 110, .	3.3	86
96	Water-soluble SOA from Alkene ozonolysis: composition and droplet activation kinetics inferences from analysis of CCN activity. Atmospheric Chemistry and Physics, 2010, 10, 1585-1597.	1.9	86
97	Will black carbon mitigation dampen aerosol indirect forcing?. Geophysical Research Letters, 2010, 37, .	1.5	86
98	Simulating Aqueous-Phase Isoprene-Epoxydiol (IEPOX) Secondary Organic Aerosol Production During the 2013 Southern Oxidant and Aerosol Study (SOAS). Environmental Science & Technology, 2017, 51, 5026-5034.	4.6	86
99	Inorganic chemistry calculations using HETV as a vectorized solver for the SO <sub>4</sub> <sup>2-</sup> -NO <sub>3</sub> <sup>-</sup> -NH <sub>4</sub> <sup>+</sup> system based on the ISORROPIA algorithms. Atmospheric Environment, 2003, 37, 2279-2294.	1.9	85
100	How quickly do cloud droplets form on atmospheric particles?. Atmospheric Chemistry and Physics, 2008, 8, 1043-1055.	1.9	85
101	Cloud condensation nuclei activity, closure, and droplet growth kinetics of Houston aerosol during the Gulf of Mexico Atmospheric Composition and Climate Study (GoMACCS). Journal of Geophysical Research, 2009, 114, .	3.3	85
102	Hygroscopicity and composition of Alaskan Arctic CCN during April 2008. Atmospheric Chemistry and Physics, 2011, 11, 11807-11825.	1.9	85
103	Cloud condensation nuclei as a modulator of ice processes in Arctic mixed-phase clouds. Atmospheric Chemistry and Physics, 2011, 11, 8003-8015.	1.9	84
104	Size-resolved CCN distributions and activation kinetics of aged continental and marine aerosol. Atmospheric Chemistry and Physics, 2011, 11, 8791-8808.	1.9	83
105	Sensitivity studies of dust ice nuclei effect on cirrus clouds with the Community Atmosphere Model CAM5. Atmospheric Chemistry and Physics, 2012, 12, 12061-12079.	1.9	83
106	Primary marine aerosol-cloud interactions off the coast of California. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4282-4303.	1.2	83
107	Kinetic limitations on cloud droplet formation and impact on cloud albedo. Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 133.	0.8	81
108	Impact of biomass burning on cloud properties in the Amazon Basin. Journal of Geophysical Research, 2003, 108, .	3.3	81

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109	Cloud Activating Properties of Aerosol Observed during CELTIC. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 441-459.	0.6	81
110	Parameterization of cirrus cloud formation in large-scale models: Homogeneous nucleation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	81
111	Importance of adsorption for CCN activity and hygroscopic properties of mineral dust aerosol. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	80
112	Investigation of cloud condensation nuclei properties and droplet growth kinetics of the water-soluble aerosol fraction in Mexico City. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	80
113	Cloud condensation nuclei activity and droplet activation kinetics of wet processed regional dust samples and minerals. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8661-8676.	1.9	79
114	Composition and hygroscopicity of the Los Angeles Aerosol: CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3016-3036.	1.2	79
115	Chemical Amplification (or Dampening) of the Twomey Effect: Conditions Derived from Droplet Activation Theory. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 919-930.	0.6	78
116	Development of two-moment cloud microphysics for liquid and ice within the NASA Goddard Earth Observing System Model (GEOS-5). <i>Geoscientific Model Development</i> , 2014, 7, 1733-1766.	1.3	78
117	Chemical and dynamical effects on cloud droplet number: Implications for estimates of the aerosol indirect effect. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	77
118	Parameterizing the competition between homogeneous and heterogeneous freezing in cirrus cloud formation – monodisperse ice nuclei. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 369-381.	1.9	76
119	Biomass-burning impact on CCN number, hygroscopicity and cloud formation during summertime in the eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7389-7409.	1.9	76
120	Ship impacts on the marine atmosphere: insights into the contribution of shipping emissions to the properties of marine aerosol and clouds. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8439-8458.	1.9	75
121	Microphysical explanation of the RH-dependent water affinity of biogenic organic aerosol and its importance for climate. <i>Geophysical Research Letters</i> , 2017, 44, 5167-5177.	1.5	74
122	Cloud condensation nuclei activity of isoprene secondary organic aerosol. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	73
123	Aerosol pH and liquid water content determine when particulate matter is sensitive to ammonia and nitrate availability. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3249-3258.	1.9	72
124	Hygroscopicity and composition of California CCN during summer 2010. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	70
125	The relationship between cloud condensation nuclei (CCN) concentration and light extinction of dried particles: indications of underlying aerosol processes and implications for satellite-based CCN estimates. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7585-7604.	1.9	70
126	Changes in dissolved iron deposition to the oceans driven by human activity: a 3-D global modelling study. <i>Biogeosciences</i> , 2015, 12, 3973-3992.	1.3	69



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127	Molar mass, surface tension, and droplet growth kinetics of marine organics from measurements of CCN activity. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	68
128	Scanning Flow CCN Analysis—A Method for Fast Measurements of CCN Spectra. <i>Aerosol Science and Technology</i> , 2009, 43, 1192-1207.	1.5	68
129	Understanding the nature of atmospheric acid processing of mineral dusts in supplying bioavailable phosphorus to the oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14639-14644.	3.3	68
130	Effects of Atmospheric Processing on the Oxidative Potential of Biomass Burning Organic Aerosols. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6747-6756.	4.6	68
131	Acceleration of oxygen decline in the tropical Pacific over the past decades by aerosol pollutants. <i>Nature Geoscience</i> , 2016, 9, 443-447.	5.4	67
132	Influence of Atmospheric Processes on the Solubility and Composition of Iron in Saharan Dust. <i>Environmental Science &amp; Technology</i> , 2016, 50, 6912-6920.	4.6	67
133	Black carbon radiative heating effects on cloud microphysics and implications for the aerosol indirect effect 1. Extended Köhler theory. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 23-1-AAC 23-9.	3.3	65
134	Inferring thermodynamic properties from CCN activation experiments: single-component and binary aerosols. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5263-5274.	1.9	64
135	Cirrus cloud seeding has potential to cool climate. <i>Geophysical Research Letters</i> , 2013, 40, 178-182.	1.5	64
136	Simulating the fine and coarse inorganic particulate matter concentrations in a polluted megacity. <i>Atmospheric Environment</i> , 2010, 44, 608-620.	1.9	63
137	Development and initial application of the global-through-urban weather research and forecasting model with chemistry (GU-WRF/Chem). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	63
138	Reviews and syntheses: the GESAMP atmospheric iron deposition model intercomparison study. <i>Biogeosciences</i> , 2018, 15, 6659-6684.	1.3	63
139	Understanding nitrate formation in a world with less sulfate. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12765-12775.	1.9	63
140	Rapid dark aging of biomass burning as an overlooked source of oxidized organic aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33028-33033.	3.3	63
141	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 547-567.	1.7	62
142	Aerosol mixing state, hygroscopic growth and cloud activation efficiency during MIRAGE 2006. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5049-5062.	1.9	60
143	Bioavailable atmospheric phosphorous supply to the global ocean: a 3-D global modeling study. <i>Biogeosciences</i> , 2016, 13, 6519-6543.	1.3	60
144	Evaluation of global simulations of aerosol particle and cloud condensation nuclei number, with implications for cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8591-8617.	1.9	60

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145	Global impact of mineral dust on cloud droplet number concentration. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5601-5621.	1.9	59
146	Acidity and the multiphase chemistry of atmospheric aqueous particles and clouds. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13483-13536.	1.9	59
147	Parameterization of cloud droplet formation in large-scale models: Including effects of entrainment. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	58
148	Characteristic updrafts for computing distribution-averaged cloud droplet number and stratocumulus cloud properties. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
149	Droplet number uncertainties associated with CCN: an assessment using observations and a global model adjoint. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4235-4251.	1.9	58
150	A synthesis of cloud condensation nuclei counter (CCNC) measurements within the EUCAARI network. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12211-12229.	1.9	58
151	Instrumentation and measurement strategy for the NOAA SENEX aircraft campaign as part of the Southeast Atmosphere Study 2013. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3063-3093.	1.2	58
152	Effect of primary organic sea spray emissions on cloud condensation nuclei concentrations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 89-101.	1.9	57
153	Inorganic salts interact with oxalic acid in submicron particles to form material with low hygroscopicity and volatility. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5205-5215.	1.9	57
154	Thermodynamic Modeling Suggests Declines in Water Uptake and Acidity of Inorganic Aerosols in Beijing Winter Haze Events during 2014/2015–2018/2019. <i>Environmental Science and Technology Letters</i> , 2019, 6, 752-760.	3.9	56
155	Hygroscopic properties of volcanic ash. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	55
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