Spyros N Pandis

List of Publications by Year
in descending order

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302	32,134	4388 86	6471 157
papers	citations	h-index	g-index

323	323	323	12048
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rethinking Organic Aerosols: Semivolatile Emissions and Photochemical Aging. Science, 2007, 315, 1259-1262.	12.6	1,679
2	Coupled Partitioning, Dilution, and Chemical Aging of Semivolatile Organics. Environmental Science & Technology, 2006, 40, 2635-2643.	10.0	1,301
3	ISORROPIA: A New Thermodynamic Equilibrium Model for Multiphase Multicomponent Inorganic Aerosols. Aquatic Geochemistry, 1998, 4, 123-152.	1.3	1,146
4	Particulate matter, air quality and climate: lessons learned and future needs. Atmospheric Chemistry and Physics, 2015, 15, 8217-8299.	4.9	641
5	A two-dimensional volatility basis set: 1. organic-aerosol mixing thermodynamics. Atmospheric Chemistry and Physics, 2011, 11, 3303-3318.	4.9	596
6	A two-dimensional volatility basis set â€“ Part 2: Diagnostics of organic-aerosol evolution. Atmospheric Chemistry and Physics, 2012, 12, 615-634.	4.9	491
7	Secondary organic aerosol formation and transport. Atmospheric Environment Part A General Topics, 1992, 26, 2269-2282.	1.3	485
8	Evaluation of secondary organic aerosol formation in winter. Atmospheric Environment, 1999, 33, 4849-4863.	4.1	429
9	Organic condensation: a vital link connecting aerosol formation to cloud condensation nuclei (CCN) concentrations. Atmospheric Chemistry and Physics, 2011, 11, 3865-3878.	4.9	392
10	Sensitivity analysis of a chemical mechanism for aqueousâ€phase atmospheric chemistry. Journal of Geophysical Research, 1989, 94, 1105-1126.	3.3	374
11	Deliquescence and Hygroscopic Growth of Mixed Inorganicâ^'Organic Atmospheric Aerosol. Environmental Science & Technology, 2000, 34, 4313-4319.	10.0	373
12	Atmospheric organic particulate matter: From smoke to secondary organic aerosol. Atmospheric Environment, 2009, 43, 94-106.	4.1	348
13	Sensitivity of direct climate forcing by atmospheric aerosols to aerosol size and composition. Journal of Geophysical Research, 1995, 100, 18739.	3.3	319
14	Continued development and testing of a new thermodynamic aerosol module for urban and regional air quality models. Atmospheric Environment, 1999, 33, 1553-1560.	4.1	314
15	Organic aerosol components derived from 25 AMS data sets across Europe using a consistent ME-2 based source apportionment approach. Atmospheric Chemistry and Physics, 2014, 14, 6159-6176.	4.9	308
16	Global nitrogen and sulfur inventories for oceangoing ships. Journal of Geophysical Research, 1999, 104, 3457-3470.	3.3	304
17	Effects of ship emissions on sulphur cycling and radiative climate forcing over the ocean. Nature, 1999, 400, 743-746.	27.8	300
18	Global distribution of particle phase state in atmospheric secondary organic aerosols. Nature Communications, 2017, 8, 15002.	12.8	295

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19	Cloud condensation nuclei production associated with atmospheric nucleation: a synthesis based on existing literature and new results. Atmospheric Chemistry and Physics, 2012, 12, 12037-12059.	4.9	285
20	Simulating secondary organic aerosol formation using the volatility basis-set approach in a chemical transport model. Atmospheric Environment, 2008, 42, 7439-7451.	4.1	284
21	Aerosol formation in the photooxidation of isoprene and Î²-pinene. Atmospheric Environment Part A General Topics, 1991, 25, 997-1008.	1.3	278
22	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	4.9	278
23	A study of the ability of pure secondary organic aerosol to act as cloud condensation nuclei. Atmospheric Environment, 1997, 31, 2205-2214.	4.1	277
24	Sensitivity of PM_{2.5} to climate in the Eastern US: a modeling case study. Atmospheric Chemistry and Physics, 2007, 7, 4295-4309.	4.9	273
25	Nucleation Events During the Pittsburgh Air Quality Study: Description and Relation to Key Meteorological, Gas Phase, and Aerosol Parameters Special Issue ofAerosol Science and Technologyon Findings from the Fine Particulate Matter Supersites Program. Aerosol Science and Technology, 2004, 38, 253-264.	3.1	263
26	High formation of secondary organic aerosol from the photo-oxidation of toluene. Atmospheric Chemistry and Physics, 2009, 9, 2973-2986.	4.9	261
27	Insights into the Chemistry of New Particle Formation and Growth Events in Pittsburgh Based on Aerosol Mass Spectrometry. Environmental Science & Technology, 2004, 38, 4797-4809.	10.0	259
28	Ammonia Emission Controls as a Cost-Effective Strategy for Reducing Atmospheric Particulate Matter in the Eastern United States. Environmental Science & Technology, 2007, 41, 380-386.	10.0	251
29	Estimating the Secondary Organic Aerosol Contribution to PM2.5Using the EC Tracer Method Special Issue ofAerosol Science and Technologyon Findings from the Fine Particulate Matter Supersites Program. Aerosol Science and Technology, 2004, 38, 140-155.	3.1	245
30	Response of Inorganic PM to Precursor Concentrations. Environmental Science & Technology, 1998, 32, 2706-2714.	10.0	234
31	Ambient aerosol size distributions and number concentrations measured during the Pittsburgh Air Quality Study (PAQS). Atmospheric Environment, 2004, 38, 3275-3284.	4.1	232
32	Effects of gas particle partitioning and aging of primary emissions on urban and regional organic aerosol concentrations. Journal of Geophysical Research, 2008, 113, .	3.3	220
33	Simulating the Formation of Semivolatile Primary and Secondary Organic Aerosol in a Regional Chemical Transport Model. Environmental Science & Technology, 2009, 43, 4722-4728.	10.0	212
34	Aerosol volatility measurement using an improved thermodenuder: Application to secondary organic aerosol. Journal of Aerosol Science, 2007, 38, 305-314.	3.8	201
35	An Algorithm for Combining Electrical Mobility and Aerodynamic Size Distributions Data when Measuring Ambient Aerosol Special Issue ofAerosol Science and Technologyon Findings from the Fine Particulate Matter Supersites Program. Aerosol Science and Technology, 2004, 38, 229-238.	3.1	200
36	Introduction: European Integrated Project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2009, 9, 2825-2841.	4.9	196

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37	Particulate emissions from residential wood combustion in Europe â€“ revised estimates and an evaluation. Atmospheric Chemistry and Physics, 2015, 15, 6503-6519.	4.9	193
38	Cloud activation of single-component organic aerosol particles. Journal of Geophysical Research, 2002, 107, AAC 16-1.	3.3	187
39	The effect of organic coatings on the cloud condensation nuclei activation of inorganic atmospheric aerosol. Journal of Geophysical Research, 1998, 103, 13111-13123.	3.3	186
40	Gas/aerosol partitioning: 1. A computationally efficient model. Journal of Geophysical Research, 2002, 107, ACH 16-1.	3.3	185
41	Development and application of the Model of Aerosol Dynamics, Reaction, Ionization, and Dissolution (MADRID). Journal of Geophysical Research, 2004, 109, .	3.3	184
42	Sensitivity of ozone to summertime climate in the eastern USA: A modeling case study. Atmospheric Environment, 2007, 41, 1494-1511.	4.1	182
43	Ubiquity of organic nitrates from nighttime chemistry in the European submicron aerosol. Geophysical Research Letters, 2016, 43, 7735-7744.	4.0	182
44	Ozonolysis ofÎ±-pinene at atmospherically relevant concentrations: Temperature dependence of aerosol mass fractions (yields). Journal of Geophysical Research, 2007, 112, .	3.3	175
45	A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. Bulletin of the American Meteorological Society, 2009, 90, 1843-1864.	3.3	175
46	Dynamics of Tropospheric Aerosols. The Journal of Physical Chemistry, 1995, 99, 9646-9659.	2.9	170
47	Atmospheric volatile organic compound measurements during the Pittsburgh Air Quality Study: Results, interpretation, and quantification of primary and secondary contributions. Journal of Geophysical Research, 2005, 110, .	3.3	168
48	Development and application of a computationally efficient particulate matter apportionment algorithm in a three-dimensional chemical transport model. Atmospheric Environment, 2008, 42, 5650-5659.	4.1	164
49	Mass size distributions and size resolved chemical composition of fine particulate matter at the Pittsburgh supersite. Atmospheric Environment, 2004, 38, 3127-3141.	4.1	159
50	Simulations of organic aerosol concentrations in Mexico City using the WRF-CHEM model during the MCMA-2006/MILAGRO campaign. Atmospheric Chemistry and Physics, 2011, 11, 3789-3809.	4.9	159
51	Optimizing model performance: variable size resolution in cloud chemistry modeling. Atmospheric Environment, 2001, 35, 4471-4478.	4.1	158
52	An Algorithm for the Calculation of Secondary Organic Aerosol Density Combining AMS and SMPS Data. Aerosol Science and Technology, 2007, 41, 1002-1010.	3.1	158
53	Mathematical model for gas-particle partitioning of secondary organic aerosols. Atmospheric Environment, 1997, 31, 3921-3931.	4.1	157
54	Evaporation Rates and Vapor Pressures of Individual Aerosol Species Formed in the Atmospheric Oxidation of Î±- and Î²-Pinene. Environmental Science & Technology, 2001, 35, 3344-3349.	10.0	157

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55	The relationship between DMS flux and CCN concentration in remote marine regions. Journal of Geophysical Research, 1994, 99, 16945.	3.3	155
56	Aerosol production and growth in the marine boundary layer. Journal of Geophysical Research, 1994, 99, 20989.	3.3	152
57	Equilibration time scales of organic aerosol inside thermodenuders: Evaporation kinetics versus thermodynamics. Atmospheric Environment, 2010, 44, 597-607.	4.1	152
58	A computationally efficient hybrid approach for dynamic gas/aerosol transfer in air quality models. Atmospheric Environment, 2000, 34, 3617-3627.	4.1	148
59	Secondary Organic Aerosol Formation from Limonene Ozonolysis:Â Homogeneous and Heterogeneous Influences as a Function of NOx. Journal of Physical Chemistry A, 2006, 110, 11053-11063.	2.5	146
60	Modeling global secondary organic aerosol formation and processing with the volatility basis set: Implications for anthropogenic secondary organic aerosol. Journal of Geophysical Research, 2010, 115, .	3.3	145
61	Prediction of multicomponent inorganic atmospheric aerosol behavior. Atmospheric Environment, 1999, 33, 745-757.	4.1	144
62	Secondary organic aerosol formation and transport â€" II. Predicting the ambient secondary organic aerosol size distribution. Atmospheric Environment Part A General Topics, 1993, 27, 2403-2416.	1.3	143
63	Modelling urban and regional aerosolsâ€"II. Application to California's South Coast Air Basin. Atmospheric Environment, 1997, 31, 2695-2715.	4.1	140
64	Effect of NO_x on Secondary Organic Aerosol Concentrations. Environmental Science & Technology, 2008, 42, 6022-6027.	10.0	135
65	Processing of biomass-burning aerosol in the eastern Mediterranean during summertime. Atmospheric Chemistry and Physics, 2014, 14, 4793-4807.	4.9	133
66	Aged organic aerosol in the Eastern Mediterranean: the Finokalia Aerosol Measurement Experiment â€" 2008. Atmospheric Chemistry and Physics, 2010, 10, 4167-4186.	4.9	132
67	Integrated approaches to modeling the organic and inorganic atmospheric aerosol components. Atmospheric Environment, 2003, 37, 4757-4768.	4.1	129
68	Formation of cloud droplets by multicomponent organic particles. Journal of Geophysical Research, 2003, 108, .	3.3	127
69	Cloud condensation nuclei activation of limited solubility organic aerosol. Atmospheric Environment, 2006, 40, 605-617.	4.1	123
70	From low-cost sensors to high-quality data: A summary of challenges and best practices for effectively calibrating low-cost particulate matter mass sensors. Journal of Aerosol Science, 2021, 158, 105833.	3.8	120
71	Response of fine particulate matter concentrations to changes of emissions and temperature in Europe. Atmospheric Chemistry and Physics, 2013, 13, 3423-3443.	4.9	119
72	MADM-A New Multicomponent Aerosol Dynamics Model. Aerosol Science and Technology, 2000, 32, 482-502.	3.1	118

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73	Pittsburgh air quality study overview. Atmospheric Environment, 2004, 38, 3107-3125.	4.1	117
74	Water Absorption by Secondary Organic Aerosol and Its Effect on Inorganic Aerosol Behavior. Environmental Science & Technology, 2000, 34, 71-77.	10.0	116
75	Uncertainties in Modeling Secondary Organic Aerosols:Â Three-Dimensional Modeling Studies in Nashville/Western Tennessee. Environmental Science & Technology, 2003, 37, 3647-3661.	10.0	116
76	Water content of aged aerosol. Atmospheric Chemistry and Physics, 2011, 11, 911-920.	4.9	116
77	Cloud condensation nuclei activity of fresh primary and aged biomass burning aerosol. Atmospheric Chemistry and Physics, 2012, 12, 7285-7293.	4.9	115
78	Measurements of the Volatility of Aerosols from Î±-Pinene Ozonolysis. Environmental Science & Technology, 2007, 41, 2756-2763.	10.0	114
79	Evaluation of a three-dimensional chemical transport model (PMCAMx) in the European domain during the EUCAARI May 2008 campaign. Atmospheric Chemistry and Physics, 2011, 11, 10331-10347.	4.9	111
80	Advanced Factor Analysis on Pittsburgh Particle Size-Distribution Data Special Issue ofAerosol Science and Technologyon Findings from the Fine Particulate Matter Supersites Program. Aerosol Science and Technology, 2004, 38, 118-132.	3.1	107
81	Development and application of a three-dimensional aerosol chemical transport model, PMCAMx. Atmospheric Environment, 2007, 41, 2594-2611.	4.1	105
82	Formation of organic aerosol in the Paris region during the MEGAPOLI summer campaign: evaluation of the volatility-basis-set approach within the CHIMERE model. Atmospheric Chemistry and Physics, 2013, 13, 5767-5790.	4.9	105
83	Local and Regional Secondary Organic Aerosol: Insights from a Year of Semi-Continuous Carbon Measurements at Pittsburgh. Aerosol Science and Technology, 2006, 40, 861-872.	3.1	104
84	Cloud condensation nuclei activation of monoterpene and sesquiterpene secondary organic aerosol. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	103
85	Why do organic aerosols exist? Understanding aerosol lifetimes using the two-dimensional volatility basis set. Environmental Chemistry, 2013, 10, 151.	1.5	103
86	Mass balance closure and the Federal Reference Method for PM2.5 in Pittsburgh, Pennsylvania. Atmospheric Environment, 2004, 38, 3305-3318.	4.1	98
87	Critical factors determining the variation in SOA yields from terpene ozonolysis: A combined experimental and computational study. Faraday Discussions, 2005, 130, 295.	3.2	97
88	Marginal PM₂₅: Nonlinear Aerosol Mass Response to Sulfate Reductions in the Eastern United States. Journal of the Air and Waste Management Association, 1999, 49, 1415-1424.	1.9	96
89	Chemical composition differences in fog and cloud droplets of different sizes. Atmospheric Environment Part A General Topics, 1990, 24, 1957-1969.	1.3	95
90	Temporally resolved ammonia emission inventories: Current estimates, evaluation tools, and measurement needs. Journal of Geophysical Research, 2006, 111, .	3.3	95

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91	In situ, satellite measurement and model evidence on the dominant regional contribution to fine particulate matter levels in the Paris megacity. Atmospheric Chemistry and Physics, 2015, 15, 9577-9591.	4.9	92
92	Constraining Particle Evolution from Wall Losses, Coagulation, and Condensation-Evaporation in Smog-Chamber Experiments: Optimal Estimation Based on Size Distribution Measurements. Aerosol Science and Technology, 2008, 42, 1001-1015.	3.1	90
93	A naming convention for atmospheric organic aerosol. Atmospheric Chemistry and Physics, 2014, 14, 5825-5839.	4.9	88
94	The contribution of wood burning and other pollution sources to wintertime organic aerosol levels in two Greek cities. Atmospheric Chemistry and Physics, 2017, 17, 3145-3163.	4.9	87
95	Water content of ambient aerosol during the Pittsburgh Air Quality Study. Journal of Geophysical Research, 2005, 110, .	3.3	85
96	Linking climate and air quality over Europe: effects of meteorology on PM_{2.5} concentrations. Atmospheric Chemistry and Physics, 2014, 14, 10283-10298.	4.9	85
97	Sources of Atmospheric Carbonaceous Particulate Matter in Pittsburgh, Pennsylvania. Journal of the Air and Waste Management Association, 2002, 52, 732-741.	1.9	84
98	Mass Spectra Deconvolution of Low, Medium, and High Volatility Biogenic Secondary Organic Aerosol. Environmental Science & Technology, 2009, 43, 4884-4889.	10.0	84
99	Size-resolved CCN distributions and activation kinetics of aged continental and marine aerosol. Atmospheric Chemistry and Physics, 2011, 11, 8791-8808.	4.9	83
100	Development and application of an efficient moving sectional approach for the solution of the atmospheric aerosol condensation/evaporation equations. Atmospheric Environment, 2003, 37, 3303-3316.	4.1	82
101	Response of Inorganic Fine Particulate Matter to Emission Changes of Sulfur Dioxide and Ammonia: The Eastern United States as a Case Study. Journal of the Air and Waste Management Association, 2007, 57, 1489-1498.	1.9	81
102	Measurement of the ambient organic aerosol volatility distribution: application during the Finokalia Aerosol Measurement Experiment (FAME-2008). Atmospheric Chemistry and Physics, 2010, 10, 12149-12160.	4.9	81
103	Simulating the oxygen content of ambient organic aerosol with the 2D volatility basis set. Atmospheric Chemistry and Physics, 2011, 11, 7859-7873.	4.9	80
104	The mass accommodation coefficient of ammonium nitrate aerosol. Atmospheric Environment, 1999, 33, 2993-3003.	4.1	79
105	Is the size distribution of urban aerosols determined by thermodynamic equilibrium?. Atmospheric Environment, 2002, 36, 2349-2365.	4.1	79
106	Parameterization of secondary organic aerosol mass fractions from smog chamber data. Atmospheric Environment, 2008, 42, 2276-2299.	4.1	79
107	Functionalization and fragmentation during ambient organic aerosol aging: application of the 2-D volatility basis set to field studies. Atmospheric Chemistry and Physics, 2012, 12, 10797-10816.	4.9	79
108	The effect of metastable equilibrium states on the partitioning of nitrate between the gas and aerosol phases. Atmospheric Environment, 2000, 34, 157-168.	4.1	78

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109	An Analysis of Four Models Predicting the Partitioning of Semivolatile Inorganic Aerosol Components. Aerosol Science and Technology, 1999, 31, 129-153.	3.1	75
110	Do emissions from ships have a significant impact on concentrations of nitrogen oxides in the marine boundary layer?. Geophysical Research Letters, 2000, 27, 2229-2232.	4.0	75
111	Fourier transform infrared analysis of aerosol formed in the photo-oxidation of isoprene and Î²-pinene. Atmospheric Environment Part A General Topics, 1992, 26, 1239-1251.	1.3	74
112	Simulating the size distribution and chemical composition of ultrafine particles during nucleation events. Atmospheric Environment, 2006, 40, 2248-2259.	4.1	73
113	Cloud condensation nuclei activity of isoprene secondary organic aerosol. Journal of Geophysical Research, 2011, 116, .	3.3	73
114	Volatility of secondary organic aerosol from the ozonolysis of monoterpenes. Atmospheric Environment, 2011, 45, 2443-2452.	4.1	73
115	Partitioning of nitrate and ammonium between the gas and particulate phases during the 1997 IMADA-AVER study in Mexico City. Atmospheric Environment, 2001, 35, 1791-1804.	4.1	72
116	Aerosol pH and liquid water content determine when particulate matter is sensitive to ammonia and nitrate availability. Atmospheric Chemistry and Physics, 2020, 20, 3249-3258.	4.9	72
117	Contributions of local and regional sources to fine PM in the megacity of Paris. Atmospheric Chemistry and Physics, 2014, 14, 2343-2352.	4.9	71
118	Mathematical modeling of acid deposition due to radiation fog. Journal of Geophysical Research, 1989, 94, 12911-12923.	3.3	70
119	Air qualityâ€“related health damages of food. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	70
120	Modeling of in situ ultrafine atmospheric particle formation in the eastern United States. Journal of Geophysical Research, 2005, 110, .	3.3	68
121	Impact of grid resolution on the predicted fine PM by a regional 3-D chemical transport model. Atmospheric Environment, 2013, 68, 24-32.	4.1	68
122	Organic aerosol concentration and composition over Europe: insights from comparison of regional model predictions with aerosol mass spectrometer factor analysis. Atmospheric Chemistry and Physics, 2014, 14, 9061-9076.	4.9	68
123	Sources and chemical characterization of organic aerosol during the summer in the eastern Mediterranean. Atmospheric Chemistry and Physics, 2015, 15, 11355-11371.	4.9	68
124	The influence of drop size-dependent fog chemistry on aerosol processing by San Joaquin Valley fogs. Atmospheric Environment, 1999, 33, 4817-4832.	4.1	67
125	Evaluation of a threeâ€dimensional chemical transport model (PMCAMx) in the eastern United States for all four seasons. Journal of Geophysical Research, 2007, 112, .	3.3	66
126	Modeling the meteorological and chemical effects of secondary organic aerosols during an EUCAARI campaign. Atmospheric Chemistry and Physics, 2013, 13, 625-645.	4.9	66

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127	Characterization of atmospheric black carbon and co-pollutants in urban and rural areas of Spain. Atmospheric Environment, 2017, 169, 36-53.	4.1	65
128	Heterogeneous sulfate production in an urban fog. Atmospheric Environment Part A General Topics, 1992, 26, 2509-2522.	1.3	64
129	Reducing Mortality from Air Pollution in the United States by Targeting Specific Emission Sources. Environmental Science and Technology Letters, 2020, 7, 639-645.	8.7	64
130	Inversion of aerosol data from the epiphaniometer. Journal of Aerosol Science, 1991, 22, 417-428.	3.8	63
131	Semi-continuous PM2.5 inorganic composition measurements during the Pittsburgh Air Quality Study. Atmospheric Environment, 2004, 38, 3201-3213.	4.1	63
132	Simulating the fine and coarse inorganic particulate matter concentrations in a polluted megacity. Atmospheric Environment, 2010, 44, 608-620.	4.1	63
133	Rapid dark aging of biomass burning as an overlooked source of oxidized organic aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33028-33033.	7.1	63
134	A Method for the In Situ Measurement of Fine Aerosol Water Content of Ambient Aerosols: The Dry-Ambient Aerosol Size Spectrometer (DAASS) Special Issue ofAerosol Science and Technologyon Findings from the Fine Particulate Matter Supersites Program. Aerosol Science and Technology, 2004, 38, 215-228.	3.1	61
135	Modeling the diurnal variation of nitrate during the Pittsburgh Air Quality Study. Journal of Geophysical Research, 2004, 109, .	3.3	61
136	The Finokalia Aerosol Measurement Experiment â€“ 2008 (FAME-08): an overview. Atmospheric Chemistry and Physics, 2010, 10, 6793-6806.	4.9	61
137	Diffusion-Limited Versus Quasi-Equilibrium Aerosol Growth. Aerosol Science and Technology, 2012, 46, 874-885.	3.1	61
138	Simulation of in situ ultrafine particle formation in the eastern United States using PMCAMxâ€UF. Journal of Geophysical Research, 2010, 115, .	3.3	60
139	ORACLE (v1.0): module to simulate the organic aerosol composition and evolution in the atmosphere. Geoscientific Model Development, 2014, 7, 3153-3172.	3.6	60
140	Dimethylsulfide chemistry in the remote marine atmosphere: Evaluation and sensitivity analysis of available mechanisms. Journal of Geophysical Research, 1997, 102, 23251-23267.	3.3	59
141	Characterization of fresh and aged organic aerosol emissions fromÂmeat charbroiling. Atmospheric Chemistry and Physics, 2017, 17, 7143-7155.	4.9	58
142	Should bulk cloudwater or fogwater samples obey Henry's law?. Journal of Geophysical Research, 1991, 96, 10791-10798.	3.3	57
143	Effect of Ammonia on the Volatility of Organic Diacids. Environmental Science & Technology, 2014, 48, 13769-13775.	10.0	57
144	The smogâ€fogâ€smog cycle and acid deposition. Journal of Geophysical Research, 1990, 95, 18489-18500.	3.3	55

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145	Inversion of ultrafine condensation nucleus counter pulse height distributions to obtain nanoparticle (â¹¼3â€“10nm) size distributions. Journal of Aerosol Science, 1998, 29, 601-615.	3.8	55
146	Effects of Sampling Conditions on the Size Distribution of Fine Particulate Matter Emitted from a Pilot-Scale Pulverized-Coal Combustor. Energy & Fuels, 2002, 16, 302-310.	5.1	54
147	New particle formation and growth in biomass burning plumes: An important source of cloud condensation nuclei. Geophysical Research Letters, 2012, 39, .	4.0	54
148	Impacts of climate change on regional and urban air quality in the eastern United States: Role of meteorology. Journal of Geophysical Research, 2009, 114, .	3.3	53
149	Exploring summertime organic aerosol formation in the eastern United States using a regionalâ€scale budget approach and ambient measurements. Journal of Geophysical Research, 2010, 115, .	3.3	53
150	Characterization of fine primary biogenic organic aerosol in an urban area in the northeastern United States. Atmospheric Environment, 2010, 44, 3952-3962.	4.1	51
151	Global combustion sources of organic aerosols: model comparison with 84ÂAMS factor-analysis data sets. Atmospheric Chemistry and Physics, 2016, 16, 8939-8962.	4.9	51
152	New particle formation at a remote site in the eastern Mediterranean. Journal of Geophysical Research, 2012, 117, .	3.3	50
153	Particle wall-loss correction methods in smog chamber experiments. Atmospheric Measurement Techniques, 2018, 11, 6577-6588.	3.1	50
154	The influence of size-dependent droplet composition on pollutant processing by fogs. Atmospheric Environment, 2005, 39, 4561-4574.	4.1	49
155	Effect of composition variations in cloud droplet populations on aqueous-phase chemistry. Journal of Geophysical Research, 1997, 102, 9375-9385.	3.3	48
156	Semicontinuous Measurements of Organic Carbon and Acidity during the Pittsburgh Air Quality Study:Â Implications for Acid-Catalyzed Organic Aerosol Formation. Environmental Science & Technology, 2006, 40, 2191-2199.	10.0	48
157	Sources and production of organic aerosol in Mexico City: insights from the combination of a chemical transport model (PMCAMx-2008) and measurements during MILAGRO. Atmospheric Chemistry and Physics, 2011, 11, 5153-5168.	4.9	48
158	Temporal variability and sources of VOCs in urban areas of the eastern Mediterranean. Atmospheric Chemistry and Physics, 2016, 16, 14825-14842.	4.9	48
159	Is aerosol production within the remote marine boundary layer sufficient to maintain observed concentrations?. Journal of Geophysical Research, 1999, 104, 3483-3500.	3.3	47
160	Light scattering by fine particles during the Pittsburgh Air Quality Study: Measurements and modeling. Journal of Geophysical Research, 2004, 109, .	3.3	47
161	Evaluation of Nucleation Theories in a Sulfur-Rich Environment. Aerosol Science and Technology, 2008, 42, 495-504.	3.1	47
162	Simulation of the thermodynamics and removal processes in the sulfate-ammonia-nitric acid system during winter: Implications for PM2.5control strategies. Journal of Geophysical Research, 2005, 110, .	3.3	46

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163	Source contributions to primary organic aerosol: Comparison of the results of a source-resolved model and the chemical mass balance approach. Atmospheric Environment, 2007, 41, 3758-3776.	4.1	46
164	Formation of highly oxygenated organic aerosol in the atmosphere: Insights from the Finokalia Aerosol Measurement Experiments. Geophysical Research Letters, 2010, 37, .	4.0	46
165	Measuring the atmospheric organic aerosol volatility distribution: a theoretical analysis. Atmospheric Measurement Techniques, 2014, 7, 2953-2965.	3.1	46
166	Formation and chemical aging of secondary organic aerosol during the Î²-caryophyllene oxidation. Atmospheric Chemistry and Physics, 2015, 15, 6035-6046.	4.9	46
167	Spatial Variations of PM2.5During the Pittsburgh Air Quality Study. Aerosol Science and Technology, 2004, 38, 80-90.	3.1	45
168	In situ concentration of semi-volatile aerosol using water-condensation technology. Journal of Aerosol Science, 2005, 36, 866-880.	3.8	45
169	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.	4.9	45
170	Atmospheric Aerosol Water-Soluble Organic Carbon Measurement: A Theoretical Analysis. Environmental Science & Technology, 2013, 47, 9791-9798.	10.0	45
171	Burning of olive tree branches: a major organic aerosol source in the Mediterranean. Atmospheric Chemistry and Physics, 2013, 13, 8797-8811.	4.9	45
172	Summertime aerosol volatility measurements in Beijing, China. Atmospheric Chemistry and Physics, 2019, 19, 10205-10216.	4.9	45
173	Evaluating the Mixing of Organic Aerosol Components Using High-Resolution Aerosol Mass Spectrometry. Environmental Science & Technology, 2011, 45, 6329-6335.	10.0	44
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