

John H Seinfeld

List of Publications by Year in descending order

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436
papers

63,767
citations

587

125
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222
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511
times ranked

16388
citing authors

#	ARTICLE	IF	CITATIONS
1	The formation, properties and impact of secondary organic aerosol: current and emerging issues. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5155-5236.	1.9	3,486
2	Organic aerosol and global climate modelling: a review. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1053-1123.	1.9	2,947
3	Chemistry of secondary organic aerosol: Formation and evolution of low-volatility organics in the atmosphere. <i>Atmospheric Environment</i> , 2008, 42, 3593-3624.	1.9	1,416
4	Gas/Particle Partitioning and Secondary Organic Aerosol Yields. <i>Environmental Science & Technology</i> , 1996, 30, 2580-2585.	4.6	1,383
5	Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. <i>Nature</i> , 2011, 476, 429-433.	13.7	1,114
6	Organic aerosol components observed in Northern Hemispheric datasets from Aerosol Mass Spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4625-4641.	1.9	908
7	Reactive intermediates revealed in secondary organic aerosol formation from isoprene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6640-6645.	3.3	854
8	Unexpected Epoxide Formation in the Gas-Phase Photooxidation of Isoprene. <i>Science</i> , 2009, 325, 730-733.	6.0	837
9	Ambient aerosol sampling using the Aerodyne Aerosol Mass Spectrometer. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	801
10	Formation of Organic Aerosols from the Oxidation of Biogenic Hydrocarbons. <i>Journal of Atmospheric Chemistry</i> , 1997, 26, 189-222.	1.4	736
11	Secondary Organic Aerosol Formation from Isoprene Photooxidation. <i>Environmental Science & Technology</i> , 2006, 40, 1869-1877.	4.6	734
12	Secondary organic aerosol formation from α -pinene, β -pinene, xylene, toluene, and benzene. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3909-3922.	1.9	720
13	Marine aerosol formation from biogenic iodine emissions. <i>Nature</i> , 2002, 417, 632-636.	13.7	705
14	Organic aerosol formation from the oxidation of biogenic hydrocarbons. <i>Journal of Geophysical Research</i> , 1999, 104, 3555-3567.	3.3	666
15	Global distribution and climate forcing of carbonaceous aerosols. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 14-1.	3.3	665
16	Chemical Composition of Secondary Organic Aerosol Formed from the Photooxidation of Isoprene. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9665-9690.	1.1	611
17	Organosulfate Formation in Biogenic Secondary Organic Aerosol. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8345-8378.	1.1	594
18	Evidence for Organosulfates in Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2007, 41, 517-527.	4.6	591

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19	A large organic aerosol source in the free troposphere missing from current models. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	576
20	Unexpected air pollution with marked emission reductions during the COVID-19 outbreak in China. Science, 2020, 369, 702-706.	6.0	563
21	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. Reviews of Geophysics, 2017, 55, 509-559.	9.0	548
22	ORGANIC ATMOSPHERIC PARTICULATE MATERIAL. Annual Review of Physical Chemistry, 2003, 54, 121-140.	4.8	536
23	Organics alter hygroscopic behavior of atmospheric particles. Journal of Geophysical Research, 1995, 100, 18755.	3.3	533
24	Ion-induced nucleation of pure biogenic particles. Nature, 2016, 533, 521-526.	13.7	528
25	The Atmospheric Aerosol-Forming Potential of Whole Gasoline Vapor. Science, 1997, 276, 96-99.	6.0	516
26	Gas-Phase Ozone Oxidation of Monoterpenes: Gaseous and Particulate Products. Journal of Atmospheric Chemistry, 1999, 34, 207-258.	1.4	495
27	Changes in organic aerosol composition with aging inferred from aerosol mass spectra. Atmospheric Chemistry and Physics, 2011, 11, 6465-6474.	1.9	493
28	Improving our fundamental understanding of the role of aerosol-cloud interactions in the climate system. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5781-5790.	3.3	479
29	Effect of Acidity on Secondary Organic Aerosol Formation from Isoprene. Environmental Science & Technology, 2007, 41, 5363-5369.	4.6	457
30	Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. Science, 2014, 344, 717-721.	6.0	456
31	Isoprene photooxidation: new insights into the production of acids and organic nitrates. Atmospheric Chemistry and Physics, 2009, 9, 1479-1501.	1.9	450
32	Response of an aerosol mass spectrometer to organonitrates and organosulfates and implications for atmospheric chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6670-6675.	3.3	437
33	Effect of NO ₂ level on secondary organic aerosol (SOA) formation from the photooxidation of terpenes. Atmospheric Chemistry and Physics, 2007, 7, 5159-5174.	1.9	423
34	Global secondary organic aerosol from isoprene oxidation. Geophysical Research Letters, 2006, 33, .	1.5	402
35	Influence of vapor wall loss in laboratory chambers on yields of secondary organic aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5802-5807.	3.3	401
36	Secondary Organic Aerosol from the Photooxidation of Aromatic Hydrocarbons: A Molecular Composition. Environmental Science & Technology, 1997, 31, 1345-1358.	4.6	383

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37	Sensitivity analysis of a chemical mechanism for aqueous-phase atmospheric chemistry. <i>Journal of Geophysical Research</i> , 1989, 94, 1105-1126.	3.3	374
38	Global modeling of secondary organic aerosol formation from aromatic hydrocarbons: high- vs. low-yield pathways. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2405-2420.	1.9	366
39	Particle Phase Acidity and Oligomer Formation in Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2004, 38, 6582-6589.	4.6	359
40	Aromatics, Reformulated Gasoline, and Atmospheric Organic Aerosol Formation. <i>Environmental Science & Technology</i> , 1997, 31, 1890-1897.	4.6	348
41	Contribution of First- versus Second-Generation Products to Secondary Organic Aerosols Formed in the Oxidation of Biogenic Hydrocarbons. <i>Environmental Science & Technology</i> , 2006, 40, 2283-2297.	4.6	341
42	Gas-Phase Reactions of Isoprene and Its Major Oxidation Products. <i>Chemical Reviews</i> , 2018, 118, 3337-3390.	23.0	339
43	Predicting global aerosol size distributions in general circulation models. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 4-1.	3.3	335
44	Predicted change in global secondary organic aerosol concentrations in response to future climate, emissions, and land use change. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	335
45	Atmospheric Gas-Aerosol Equilibrium I. Thermodynamic Model. <i>Aerosol Science and Technology</i> , 1993, 19, 157-181.	1.5	334
46	Gas-phase products and secondary aerosol yields from the photooxidation of 16 different terpenes. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	332
47	Estimate of global atmospheric organic aerosol from oxidation of biogenic hydrocarbons. <i>Geophysical Research Letters</i> , 1999, 26, 2721-2724.	1.5	325
48	Effect of changes in climate and emissions on future sulfate-nitrate-ammonium aerosol levels in the United States. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	319
49	Secondary organic aerosol (SOA) formation from reaction of isoprene with nitrate radicals (NO ₃ and <i>γ</i> -C ₁₀ H ₁₇ O ₂). <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4117-4140.	1.9	317
50	New and extended parameterization of the thermodynamic model AIOMFAC: calculation of activity coefficients for organic-inorganic mixtures containing carboxyl, hydroxyl, carbonyl, ether, ester, alkenyl, alkyl, and aromatic functional groups. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9155-9206.	1.9	317
51	Chamber studies of secondary organic aerosol growth by reactive uptake of simple carbonyl compounds. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	316
52	Low-Molecular-Weight and Oligomeric Components in Secondary Organic Aerosol from the Ozonolysis of Cycloalkenes and α -Pinene. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10147-10164.	1.1	308
53	Measurements of Secondary Organic Aerosol from Oxidation of Cycloalkenes, Terpenes, and <i>m</i> -Xylene Using an Aerodyne Aerosol Mass Spectrometer. <i>Environmental Science & Technology</i> , 2005, 39, 5674-5688.	4.6	307
54	Secondary organic aerosol formation from photooxidation of naphthalene and alkylnaphthalenes: implications for oxidation of intermediate volatility organic compounds (IVOCs). <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3049-3060.	1.9	300

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55	Evolution of trace gases and particles emitted by a chaparral fire in California. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1397-1421.	1.9	300
56	Secondary organic aerosol formation from isoprene photooxidation under high-NO _x conditions. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	297
57	Parameterization of cloud droplet formation in global climate models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	288
58	Aerosol formation in the photooxidation of isoprene and β -pinene. <i>Atmospheric Environment Part A General Topics</i> , 1991, 25, 997-1008.	1.3	278
59	Apportionment of Primary and Secondary Organic Aerosols in Southern California during the 2005 Study of Organic Aerosols in Riverside (SOAR-1). <i>Environmental Science & Technology</i> , 2008, 42, 7655-7662.	4.6	273
60	3-methyl-2-butenedioic acid: An atmospheric tracer for terpene secondary organic aerosol. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	268
61	State-of-the-Art Chamber Facility for Studying Atmospheric Aerosol Chemistry. <i>Environmental Science & Technology</i> , 2001, 35, 2594-2601.	4.6	263
62	Chemical Coupling Between Atmospheric Ozone and Particulate Matter. <i>Science</i> , 1997, 277, 116-119.	6.0	256
63	Development and evaluation of a photooxidation mechanism for isoprene. <i>Journal of Geophysical Research</i> , 1992, 97, 20703-20715.	3.3	254
64	Climate response of direct radiative forcing of anthropogenic black carbon. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	250
65	A global perspective on aerosol from low-volatility organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4377-4401.	1.9	250
66	Aerosol absorption and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5237-5261.	1.9	245
67	Global modeling of organic aerosol: the importance of reactive nitrogen (NO _x and NO ₃). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11261-11276.	1.9	242
68	Thermodynamic modelling of aqueous aerosols containing electrolytes and dissolved organic compounds. <i>Journal of Aerosol Science</i> , 2001, 32, 713-738.	1.8	241
69	Turbulent deposition and gravitational sedimentation of an aerosol in a vessel of arbitrary shape. <i>Journal of Aerosol Science</i> , 1981, 12, 405-415.	1.8	238
70	Gas-phase products and secondary aerosol yields from the ozonolysis of ten different terpenes. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	237
71	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. <i>Nature</i> , 2017, 546, 637-641.	13.7	232
72	Role of climate change in global predictions of future tropospheric ozone and aerosols. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	230

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73	Formation and evolution of molecular products in α -pinene secondary organic aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14168-14173.	3.3	225
74	Gas-particle partitioning of atmospheric aerosols: interplay of physical state, non-ideal mixing and morphology. Physical Chemistry Chemical Physics, 2013, 15, 11441.	1.3	222
75	Global impacts of gas-phase chemistry-aerosol interactions on direct radiative forcing by anthropogenic aerosols and ozone. Journal of Geophysical Research, 2005, 110, .	3.3	217
76	The effect of water on gas-particle partitioning of secondary organic aerosol. Part I: α -pinene/ozone system. Atmospheric Environment, 2001, 35, 6049-6072.	1.9	214
77	Modeling the gas-particle partitioning of secondary organic aerosol: the importance of liquid-liquid phase separation. Atmospheric Chemistry and Physics, 2012, 12, 3857-3882.	1.9	213
78	Biogenic secondary organic aerosol over the United States: Comparison of climatological simulations with observations. Journal of Geophysical Research, 2007, 112, .	3.3	210
79	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
80	Equilibration timescale of atmospheric secondary organic aerosol partitioning. Geophysical Research Letters, 2012, 39, .	1.5	202
81	Atmospheric photooxidation of isoprene part I: The hydroxyl radical and ground state atomic oxygen reactions. International Journal of Chemical Kinetics, 1992, 24, 79-101.	1.0	201
82	Organic aerosol formation from the reactive uptake of isoprene epoxydiols (IEPOX) onto non-acidified inorganic seeds. Atmospheric Chemistry and Physics, 2014, 14, 3497-3510.	1.9	201
83	New particle formation from photooxidation of diiodomethane (CH ₂ I ₂). Journal of Geophysical Research, 2003, 108, .	3.3	200
84	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
85	Atmospheric Gas-Aerosol Equilibrium II. Analysis of Common Approximations and Activity Coefficient Calculation Methods. Aerosol Science and Technology, 1993, 19, 182-198.	1.5	196
86	Production of ultrafine metal oxide aerosol particles by thermal decomposition of metal alkoxide vapors. AIChE Journal, 1986, 32, 2010-2019.	1.8	195
87	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
88	Role of aldehyde chemistry and NO _x concentrations in secondary organic aerosol formation. Atmospheric Chemistry and Physics, 2010, 10, 7169-7188.	1.9	190
89	Elemental composition and oxidation of chamber organic aerosol. Atmospheric Chemistry and Physics, 2011, 11, 8827-8845.	1.9	190
90	Oxalic acid in clear and cloudy atmospheres: Analysis of data from International Consortium for Atmospheric Research on Transport and Transformation 2004. Journal of Geophysical Research, 2006, 111, .	3.3	187

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91	On the Source of the Submicrometer Droplet Mode of Urban and Regional Aerosols. <i>Aerosol Science and Technology</i> , 1994, 20, 253-265.	1.5	186
92	Development and application of the Model of Aerosol Dynamics, Reaction, Ionization, and Dissolution (MADRID). <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	184
93	Secondary organic aerosol 1. Atmospheric chemical mechanism for production of molecular constituents. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 3-1-AAC 3-26.	3.3	183
94	On the Source of Organic Acid Aerosol Layers above Clouds. <i>Environmental Science & Technology</i> , 2007, 41, 4647-4654.	4.6	182
95	Secondary organic aerosol formation from biomass burning intermediates: phenol and methoxyphenols. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8019-8043.	1.9	181
96	Modeling the Formation of Secondary Organic Aerosol (SOA). 2. The Predicted Effects of Relative Humidity on Aerosol Formation in the α -Pinene-, β -Pinene-, Sabinene-, β -Caryophyllene-, and Cyclohexene-Ozone Systems. <i>Environmental Science & Technology</i> , 2001, 35, 1806-1817.	4.6	180
97	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10241-10254.	1.3	179
98	Computation of liquid-liquid equilibria and phase stabilities: implications for RH-dependent gas/particle partitioning of organic-inorganic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7795-7820.	1.9	177
99	Can chemical effects on cloud droplet number rival the first indirect effect?. <i>Geophysical Research Letters</i> , 2002, 29, 29-1-29-4.	1.5	176
100	Terpenylic Acid and Related Compounds from the Oxidation of α -Pinene: Implications for New Particle Formation and Growth above Forests. <i>Environmental Science & Technology</i> , 2009, 43, 6976-6982.	4.6	175
101	Atmospheric Gas-Aerosol Equilibrium: III. Thermodynamics of Crustal Elements Ca ²⁺ , K ⁺ , and Mg ²⁺ . <i>Aerosol Science and Technology</i> , 1995, 22, 93-110.	1.5	173
102	Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. <i>Environmental Science & Technology</i> , 2015, 49, 10330-10339.	4.6	172
103	ATMOSPHERIC SCIENCE: Reshaping the Theory of Cloud Formation. <i>Science</i> , 2001, 292, 2025-2026.	6.0	172
104	Kinetic limitations on droplet formation in clouds. <i>Nature</i> , 1997, 390, 594-596.	13.7	170
105	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. <i>Nature</i> , 2020, 581, 184-189.	13.7	169
106	Atmospheric photooxidation of isoprene part II: The ozone-isoprene reaction. <i>International Journal of Chemical Kinetics</i> , 1992, 24, 103-125.	1.0	166
107	Elemental analysis of chamber organic aerosol using an aerodyne high-resolution aerosol mass spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4111-4131.	1.9	165
108	Characterization and Quantification of Isoprene-Derived Epoxydiols in Ambient Aerosol in the Southeastern United States. <i>Environmental Science & Technology</i> , 2010, 44, 4590-4596.	4.6	165

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109	Observation of gaseous and particulate products of monoterpene oxidation in forest atmospheres. <i>Geophysical Research Letters</i> , 1999, 26, 1145-1148.	1.5	164
110	Overview of the Second Texas Air Quality Study (TexAQS II) and the Gulf of Mexico Atmospheric Composition and Climate Study (GoMACCS). <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	162
111	Mathematical model for gas-particle partitioning of secondary organic aerosols. <i>Atmospheric Environment</i> , 1997, 31, 3921-3931.	1.9	157
112	Mechanism of Atmospheric Photooxidation of Aromatics: A Theoretical Study. <i>The Journal of Physical Chemistry</i> , 1996, 100, 10967-10980.	2.9	156
113	Inversion of aerosol size distribution data. <i>Journal of Aerosol Science</i> , 1990, 21, 227-247.	1.8	152
114	Aerosol production and growth in the marine boundary layer. <i>Journal of Geophysical Research</i> , 1994, 99, 20989.	3.3	152
115	Secondary organic aerosol 2. Thermodynamic model for gas/particle partitioning of molecular constituents. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 4-1-AAC 4-15.	3.3	152
116	Interactions between tropospheric chemistry and aerosols in a unified general circulation model. <i>Journal of Geophysical Research</i> , 2003, 108, AAC 1-1.	3.3	152
117	Radial Differential Mobility Analyzer. <i>Aerosol Science and Technology</i> , 1995, 23, 357-372.	1.5	150
118	Aerosol Formation in the Cyclohexene-Ozone System. <i>Environmental Science & Technology</i> , 2000, 34, 4894-4901.	4.6	150
119	Gas Phase Production and Loss of Isoprene Epoxydiols. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1237-1246.	1.1	149
120	Size distribution dynamics reveal particle-phase chemistry in organic aerosol formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11746-11750.	3.3	147
121	The general dynamic equation for aerosols. Theory and application to aerosol formation and growth. <i>Journal of Colloid and Interface Science</i> , 1979, 68, 363-382.	5.0	144
122	Simulation of Aerosol Dynamics: A Comparative Review of Mathematical Models. <i>Aerosol Science and Technology</i> , 1986, 5, 205-222.	1.5	140
123	Dynamics of aerosol coagulation and condensation. <i>AIChE Journal</i> , 1976, 22, 840-851.	1.8	139
124	Simulation of Aerosol Size Distribution Evolution in Systems with Simultaneous Nucleation, Condensation, and Coagulation. <i>Aerosol Science and Technology</i> , 1985, 4, 31-43.	1.5	139
125	Improved Inversion of Scanning DMA Data. <i>Aerosol Science and Technology</i> , 2002, 36, 1-9.	1.5	139
126	Thermodynamic Models of Aqueous Solutions Containing Inorganic Electrolytes and Dicarboxylic Acids at 298.15 K. 1. The Acids as Nondissociating Components. <i>Journal of Physical Chemistry A</i> , 2006, 110, 5692-5717.	1.1	139

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127	Influence of aerosol acidity on the chemical composition of secondary organic aerosol from β -caryophyllene. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1735-1751.	1.9	139
128	Modeling kinetic partitioning of secondary organic aerosol and size distribution dynamics: representing effects of volatility, phase state, and particle-phase reaction. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5153-5181.	1.9	137
129	Natural convection in a shallow cavity with differentially heated end walls. Part 2. Numerical solutions. <i>Journal of Fluid Mechanics</i> , 1974, 65, 231-246.	1.4	133
130	β -pinene photooxidation under controlled chemical conditions – Part 2: SOA yield and composition in low- and high-NO _x environments. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7413-7427.	1.9	133
131	Reactions of Semivolatile Organics and Their Effects on Secondary Organic Aerosol Formation. <i>Environmental Science & Technology</i> , 2007, 41, 3545-3550.	4.6	129
132	Global radiative forcing of coupled tropospheric ozone and aerosols in a unified general circulation model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	128
133	Characterization of 2-methylglyceric acid oligomers in secondary organic aerosol formed from the photooxidation of isoprene using trimethylsilylation and gas chromatography/ion trap mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2007, 42, 101-116.	0.7	125
134	Vapor wall deposition in Teflon chambers. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4197-4214.	1.9	125
135	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
136	Particulate organic acids and overall water-soluble aerosol composition measurements from the 2006 Gulf of Mexico Atmospheric Composition and Climate Study (GoMACCS). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	121
137	Modification of aerosol mass and size distribution due to aqueous-phase SO ₂ oxidation in clouds: Comparisons of several models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	120
138	Characterization of polar organic components in fine aerosols in the southeastern United States: Identity, origin, and evolution. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	120
139	A Coupled Hydrophobic-Hydrophilic Model for Predicting Secondary Organic Aerosol Formation. <i>Journal of Atmospheric Chemistry</i> , 2003, 44, 171-190.	1.4	118
140	The Marine Stratus/Stratocumulus Experiment (MASE): Aerosol-cloud relationships in marine stratocumulus. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	118
141	Modeling and Characterization of a Particle-into-Liquid Sampler (PILS). <i>Aerosol Science and Technology</i> , 2006, 40, 396-409.	1.5	117
142	Secondary Organic Aerosol Formation from the Ozonolysis of Cycloalkenes and Related Compounds. <i>Environmental Science & Technology</i> , 2004, 38, 4157-4164.	4.6	116
143	Explicit modelling of SOA formation from β -pinene photooxidation: sensitivity to vapour pressure estimation. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6895-6910.	1.9	116
144	Aerosol emissions from prescribed fires in the United States: A synthesis of laboratory and aircraft measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,826-11,849.	1.2	116

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145	Thermodynamic Models of Aqueous Solutions Containing Inorganic Electrolytes and Dicarboxylic Acids at 298.15 K. 2. Systems Including Dissociation Equilibria. <i>Journal of Physical Chemistry A</i> , 2006, 110, 5718-5734.	1.1	113
146	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
147	Observational Insights into Aerosol Formation from Isoprene. <i>Environmental Science & Technology</i> , 2013, 47, 11403-11413.	4.6	113
148	Yields of oxidized volatile organic compounds during the OH radical initiated oxidation of isoprene, methyl vinyl ketone, and methacrolein under high-NO ₂ conditions. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10779-10790.	1.9	112
149	Concentrations and sources of organic carbon aerosols in the free troposphere over North America. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	111
150	Cloud condensation nucleus activation properties of biogenic secondary organic aerosol. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	110
151	Adjoint inverse modeling of black carbon during the Asian Pacific Regional Aerosol Characterization Experiment. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	110
152	Aerosol-cloud drop concentration closure in warm cumulus. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	109
153	Observability and optimal measurement location in linear distributed parameter systems. <i>International Journal of Control</i> , 1973, 18, 785-799.	1.2	108
154	Formation of secondary organic aerosol from irradiated α -pinene/toluene/NO _x mixtures and the effect of isoprene and sulfur dioxide. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	108
155	Mechanism of the hydroxyl radical oxidation of methacryloyl peroxyxynitrate (MPAN) and its pathway toward secondary organic aerosol formation in the atmosphere. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17914-17926.	1.3	108
156	Aircraft-based aerosol size and composition measurements during ACE-Asia using an Aerodyne aerosol mass spectrometer. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	107
157	Reduced anthropogenic aerosol radiative forcing caused by biogenic new particle formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12053-12058.	3.3	107
158	Occurrence of lower cloud albedo in ship tracks. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8223-8235.	1.9	103
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