John H Seinfeld

List of Publications by Citations

449 papers	52,803 citations	123 h-index	219 g-index
511 ext. papers	58,964 ext. citations	7.5 avg, IF	7.46 L-index

#	Paper	IF	Citations
449	The formation, properties and impact of secondary organic aerosol: current and emerging issues. *Atmospheric Chemistry and Physics*, **2009**, 9, 5155-5236	6.8	2861
448	Organic aerosol and global climate modelling: a review. *Atmospheric Chemistry and Physics*, **2005**, 5, 1053-1123	6.8	2482
447	Gas/Particle Partitioning and Secondary Organic Aerosol Yields. *Environmental Science & Technology*, **1996**, 30, 2580-2585	10.3	1186
446	Chemistry of secondary organic aerosol: Formation and evolution of low-volatility organics in the atmosphere. *Atmospheric Environment*, **2008**, 42, 3593-3624	5.3	1146
445	Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. *Nature*, **2011**, 476, 429-33	50.4	863
444	Organic aerosol components observed in Northern Hemispheric datasets from Aerosol Mass Spectrometry. *Atmospheric Chemistry and Physics*, **2010**, 10, 4625-4641	6.8	749
443	Unexpected epoxide formation in the gas-phase photooxidation of isoprene. *Science*, **2009**, 325, 730-3	33.3	726
442	Reactive intermediates revealed in secondary organic aerosol formation from isoprene. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 6640-5	11.5	718
441	Ambient aerosol sampling using the Aerodyne Aerosol Mass Spectrometer. *Journal of Geophysical Research*, **2003**, 108,		694
440	Secondary organic aerosol formation from isoprene photooxidation. *Environmental Science & Technology*, **2006**, 40, 1869-77	10.3	630
439	Marine aerosol formation from biogenic iodine emissions. *Nature*, **2002**, 417, 632-6	50.4	611
438	Formation of Organic Aerosols from the Oxidation of Biogenic Hydrocarbons. *Journal of Atmospheric Chemistry*, **1997**, 26, 189-222	3.2	608
437	Secondary organic aerosol formation from <i>m</i>-xylene, toluene, and benzene. *Atmospheric Chemistry and Physics*, **2007**, 7, 3909-3922	6.8	580
436	Global distribution and climate forcing of carbonaceous aerosols. *Journal of Geophysical Research*, **2002**, 107, AAC 14-1		578
435	Organic aerosol formation from the oxidation of biogenic hydrocarbons. *Journal of Geophysical Research*, **1999**, 104, 3555-3567		570
434	Chemical composition of secondary organic aerosol formed from the photooxidation of isoprene. *Journal of Physical Chemistry A*, **2006**, 110, 9665-90	2.8	533
433	A large organic aerosol source in the free troposphere missing from current models. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	515

432	Evidence for organosulfates in secondary organic aerosol. *Environmental Science & Technology*, **2007**, 41, 517-27	10.3	508
431	Organosulfate formation in biogenic secondary organic aerosol. *Journal of Physical Chemistry A*, **2008**, 112, 8345-78	2.8	487
430	Organic atmospheric particulate material. *Annual Review of Physical Chemistry*, **2003**, 54, 121-40	15.7	466
429	Organics alter hygroscopic behavior of atmospheric particles. *Journal of Geophysical Research*, **1995**, 100, 18755		461
428	The atmospheric aerosol-forming potential of whole gasoline vapor. *Science*, **1997**, 276, 96-9	33.3	457
427	Gas-Phase Ozone Oxidation of Monoterpenes: Gaseous and Particulate Products. *Journal of Atmospheric Chemistry*, **1999**, 34, 207-258	3.2	414
426	Effect of acidity on secondary organic aerosol formation from isoprene. *Environmental Science & Technology*, **2007**, 41, 5363-9	10.3	398
425	Isoprene photooxidation: new insights into the production of acids and organic nitrates. *Atmospheric Chemistry and Physics*, **2009**, 9, 1479-1501	6.8	391
424	Changes in organic aerosol composition with aging inferred from aerosol mass spectra. *Atmospheric Chemistry and Physics*, **2011**, 11, 6465-6474	6.8	377
423	Ion-induced nucleation of pure biogenic particles. *Nature*, **2016**, 533, 521-6	50.4	377
422	Oxidation products of biogenic emissions contribute to nucleation of atmospheric particles. *Science*, **2014**, 344, 717-21	33.3	375
421	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, 6670-5	11.5	366
420	Global secondary organic aerosol from isoprene oxidation. *Geophysical Research Letters*, **2006**, 33,	4.9	360
419	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. *Reviews of Geophysics*, **2017**, 55, 509-559	23.1	359
418	Unexpected air pollution with marked emission reductions during the COVID-19 outbreak in China. *Science*, **2020**, 369, 702-706	33.3	344
417	Effect of NO_x level on secondary organic aerosol (SOA) formation from the photooxidation of terpenes. *Atmospheric Chemistry and Physics*, **2007**, 7, 5159-5174	6.8	340
416	Secondary Organic Aerosol from the Photooxidation of Aromatic Hydrocarbons: Molecular Composition. *Environmental Science & Technology*, **1997**, 31, 1345-1358	10.3	330
415	Particle phase acidity and oligomer formation in secondary organic aerosol. *Environmental Science & Technology*, **2004**, 38, 6582-9	10.3	323

414	Sensitivity analysis of a chemical mechanism for aqueous-phase atmospheric chemistry. *Journal of Geophysical Research*, **1989**, 94, 1105		323
413	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, 5802-7	11.5	319
412	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, 5781-90	11.5	314
411	Global modeling of secondary organic aerosol formation from aromatic hydrocarbons: high- vs. low-yield pathways. *Atmospheric Chemistry and Physics*, **2008**, 8, 2405-2420	6.8	312
410	Aromatics, Reformulated Gasoline, and Atmospheric Organic Aerosol Formation. *Environmental Science & Technology*, **1997**, 31, 1890-1897	10.3	308
409	Atmospheric Gas-Aerosol Equilibrium I. Thermodynamic Model. *Aerosol Science and Technology*, **1993**, 19, 157-181	3.4	304
408	Contribution of first- versus second-generation products to secondary organic aerosols formed in the oxidation of biogenic hydrocarbons. *Environmental Science & Technology*, **2006**, 40, 2283-97	10.3	302
407	Predicted change in global secondary organic aerosol concentrations in response to future climate, emissions, and land use change. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		291
406	Chamber studies of secondary organic aerosol growth by reactive uptake of simple carbonyl compounds. *Journal of Geophysical Research*, **2005**, 110,		289
405	Predicting global aerosol size distributions in general circulation models. *Journal of Geophysical Research*, **2002**, 107, AAC 4-1		283
404	Gas-phase products and secondary aerosol yields from the photooxidation of 16 different terpenes. *Journal of Geophysical Research*, **2006**, 111,		280
403	Low-Molecular-Weight and Oligomeric Components in Secondary Organic Aerosol from the Ozonolysis of Cycloalkenes and ⊞Pinene. *Journal of Physical Chemistry A*, **2004**, 108, 10147-10164	2.8	278
402	Estimate of global atmospheric organic aerosol from oxidation of biogenic hydrocarbons. *Geophysical Research Letters*, **1999**, 26, 2721-2724	4.9	271
401	Secondary organic aerosol formation from isoprene photooxidation under high-NOx conditions. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	269
400	Effect of changes in climate and emissions on future sulfate-nitrate-ammonium aerosol levels in the United States. *Journal of Geophysical Research*, **2009**, 114,		259
399	Measurements of secondary organic aerosol from oxidation of cycloalkenes, terpenes, and m-xylene using an Aerodyne aerosol mass spectrometer. *Environmental Science & Technology*, **2005**, 39, 5674-88	10.3	259
398	Secondary organic aerosol (SOA) formation from reaction of isoprene with nitrate radicals (NO₃). *Atmospheric Chemistry and Physics*, **2008**, 8, 4117-4140	6.8	255
397	Parameterization of cloud droplet formation in global climate models. *Journal of Geophysical Research*, **2003**, 108,		248

396	Evolution of trace gases and particles emitted by a chaparral fire in California. *Atmospheric Chemistry and Physics*, **2012**, 12, 1397-1421	6.8	247
395	Secondary organic aerosol formation from photooxidation of naphthalene and alkylnaphthalenes: implications for oxidation of intermediate volatility organic compounds (IVOCs). *Atmospheric Chemistry and Physics*, **2009**, 9, 3049-3060	6.8	245
394	Apportionment of primary and secondary organic aerosols in southern California during the 2005 study of organic aerosols in riverside (SOAR-1). *Environmental Science & Technology*, **2008**, 42, 7655-62	10.3	244
393	Aerosol formation in the photooxidation of isoprene and ╫pinene. *Atmospheric Environment Part A General Topics*, **1991**, 25, 997-1008		241
392	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. *Atmospheric Chemistry and Physics*, **2011**, 11, 9155-9206	6.8	240
391	State-of-the-art chamber facility for studying atmospheric aerosol chemistry. *Environmental Science & Technology*, **2001**, 35, 2594-601	10.3	230
390	3-methyl-1,2,3-butanetricarboxylic acid: An atmospheric tracer for terpene secondary organic aerosol. *Geophysical Research Letters*, **2007**, 34,	4.9	228
389	Development and evaluation of a photooxidation mechanism for isoprene. *Journal of Geophysical Research*, **1992**, 97, 20703		226
388	Climate response of direct radiative forcing of anthropogenic black carbon. *Journal of Geophysical Research*, **2005**, 110,		220
387	Thermodynamic modelling of aqueous aerosols containing electrolytes and dissolved organic compounds. *Journal of Aerosol Science*, **2001**, 32, 713-738	4.3	213
386	Chemical Coupling Between Atmospheric Ozone and Particulate Matter. *Science*, **1997**, 277, 116-119	33.3	212
385	Gas-Phase Reactions of Isoprene and Its Major Oxidation Products. *Chemical Reviews*, **2018**, 118, 3337-3390	60.1	211
384	Aerosol absorption and radiative forcing. *Atmospheric Chemistry and Physics*, **2007**, 7, 5237-5261	6.8	211
383	A global perspective on aerosol from low-volatility organic compounds. *Atmospheric Chemistry and Physics*, **2010**, 10, 4377-4401	6.8	209
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381	Role of climate change in global predictions of future tropospheric ozone and aerosols. *Journal of Geophysical Research*, **2006**, 111,		201
380	Global impacts of gas-phase chemistry-aerosol interactions on direct radiative forcing by anthropogenic aerosols and ozone. *Journal of Geophysical Research*, **2005**, 110,		193
379	Biogenic secondary organic aerosol over the United States: Comparison of climatological simulations with observations. *Journal of Geophysical Research*, **2007**, 112,		189

378	Formation and evolution of molecular products in □pinene secondary organic aerosol. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 14168-73	11.5	183
377	Atmospheric Gas-Aerosol Equilibrium II. Analysis of Common Approximations and Activity Coefficient Calculation Methods. *Aerosol Science and Technology*, **1993**, 19, 182-198	3.4	183
376	Gas-phase products and secondary aerosol yields from the ozonolysis of ten different terpenes. *Journal of Geophysical Research*, **2006**, 111,		182
375	Modeling the gas-particle partitioning of secondary organic aerosol: the importance of liquid-liquid phase separation. *Atmospheric Chemistry and Physics*, **2012**, 12, 3857-3882	6.8	179
374	Atmospheric photooxidation of isoprene part I: The hydroxyl radical and ground state atomic oxygen reactions. *International Journal of Chemical Kinetics*, **1992**, 24, 79-101	1.4	179
373	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	4.4	178
372	Global modeling of organic aerosol: the importance of reactive nitrogen (NO_x and NO₃). *Atmospheric Chemistry and Physics*, **2010**, 10, 11261-11276	6.8	178
371	Gas-particle partitioning of atmospheric aerosols: interplay of physical state, non-ideal mixing and morphology. *Physical Chemistry Chemical Physics*, **2013**, 15, 11441-53	3.6	173
370	Organic aerosol formation from the reactive uptake of isoprene epoxydiols (IEPOX) onto non-acidified inorganic seeds. *Atmospheric Chemistry and Physics*, **2014**, 14, 3497-3510	6.8	172
369	On the Source of the Submicrometer Droplet Mode of Urban and Regional Aerosols. *Aerosol Science and Technology*, **1994**, 20, 253-265	3.4	172
368	The effect of water on gas□particle partitioning of secondary organic aerosol. Part I: □pinene/ozone system. *Atmospheric Environment*, **2001**, 35, 6049-6072	5.3	169
367	Equilibration timescale of atmospheric secondary organic aerosol partitioning. *Geophysical Research Letters*, **2012**, 39,	4.9	167
366	New particle formation from photooxidation of diiodomethane (CH2I2). *Journal of Geophysical Research*, **2003**, 108,		164
365	Production of ultrafine metal oxide aerosol particles by thermal decomposition of metal alkoxide vapors. *AICHE Journal*, **1986**, 32, 2010-2019	3.6	164
364	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,		163
363	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. *Nature*, **2017**, 546, 637-641	50.4	162
362	Comprehensive simultaneous shipboard and airborne characterization of exhaust from a modern container ship at sea. *Environmental Science & Technology*, **2009**, 43, 4626-40	10.3	162
361	Role of aldehyde chemistry and NO_x concentrations in secondary organic aerosol formation. *Atmospheric Chemistry and Physics*, **2010**, 10, 7169-7188	6.8	162

360	Development and application of the Model of Aerosol Dynamics, Reaction, Ionization, and Dissolution (MADRID). *Journal of Geophysical Research*, **2004**, 109,		158
359	Elemental composition and oxidation of chamber organic aerosol. *Atmospheric Chemistry and Physics*, **2011**, 11, 8827-8845	6.8	156
358	Can chemical effects on cloud droplet number rival the first indirect effect?. *Geophysical Research Letters*, **2002**, 29, 29-1-29-4	4.9	156
357	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, 15019-24	11.5	155
356	Kinetic limitations on droplet formation in clouds. *Nature*, **1997**, 390, 594-596	50.4	155
355	Atmospheric Gas□Aerosol Equilibrium: III. Thermodynamics of Crustal Elements Ca2+, K+, and Mg2+. *Aerosol Science and Technology*, **1995**, 22, 93-110	3.4	154
354	Computation of liquid-liquid equilibria and phase stabilities: implications for RH-dependent gas/particle partitioning of organic-inorganic aerosols. *Atmospheric Chemistry and Physics*, **2010**, 10, 7795-7820	6.8	152
353	Secondary organic aerosol 1. Atmospheric chemical mechanism for production of molecular constituents. *Journal of Geophysical Research*, **2002**, 107, AAC 3-1-AAC 3-26		150
352	Atmospheric photooxidation of isoprene part II: The ozone-isoprene reaction. *International Journal of Chemical Kinetics*, **1992**, 24, 103-125	1.4	149
351	On the source of organic acid aerosol layers above clouds. *Environmental Science & Technology*, **2007**, 41, 4647-54	10.3	148
350	Modeling the formation of secondary organic aerosol (SOA). 2. The predicted effects of relative humidity on aerosol formation in the alpha-pinene-, beta-pinene-, sabinene-, delta 3-carene-, and cyclohexene-ozone systems. *Environmental Science & Technology*, **2001**, 35, 1806-17	10.3	148
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348	Characterization and quantification of isoprene-derived epoxydiols in ambient aerosol in the southeastern United States. *Environmental Science & Technology*, **2010**, 44, 4590-6	10.3	142
347	Terpenylic acid and related compounds from the oxidation of alpha-pinene: implications for new particle formation and growth above forests. *Environmental Science & Technology*, **2009**, 43, 6976-82	10.3	142
346	Mechanism of Atmospheric Photooxidation of Aromatics: A Theoretical Study. *The Journal of Physical Chemistry*, **1996**, 100, 10967-10980		141
345	Mathematical model for gas-particle partitioning of secondary organic aerosols. *Atmospheric Environment*, **1997**, 31, 3921-3931	5.3	140
344	Inversion of aerosol size distribution data. *Journal of Aerosol Science*, **1990**, 21, 227-247	4.3	140
343	Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. *Environmental Science & Technology*, **2015**, 49, 10330-9	10.3	139

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340	Aerosol Formation in the Cyclohexene-Ozone System. *Environmental Science & Technology*, **2000**, 34, 4894-4901	10.3	138
339	Interactions between tropospheric chemistry and aerosols in a unified general circulation model. *Journal of Geophysical Research*, **2003**, 108, AAC 1-1		137
338	Radial Differential Mobility Analyzer. *Aerosol Science and Technology*, **1995**, 23, 357-372	3.4	136
337	Aerosol production and growth in the marine boundary layer. *Journal of Geophysical Research*, **1994** , 99, 20989		136
336	Observation of gaseous and particulate products of monoterpene oxidation in forest atmospheres. *Geophysical Research Letters*, **1999**, 26, 1145-1148	4.9	135
335	Secondary organic aerosol formation from biomass burning intermediates: phenol and methoxyphenols. *Atmospheric Chemistry and Physics*, **2013**, 13, 8019-8043	6.8	134
334	Atmospheric fates of Criegee intermediates in the ozonolysis of isoprene. *Physical Chemistry Chemical Physics*, **2016**, 18, 10241-54	3.6	130
333	Size distribution dynamics reveal particle-phase chemistry in organic aerosol formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 11746-50	11.5	126
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328	Natural convection in a shallow cavity with differentially heated end walls. Part 2. Numerical solutions. *Journal of Fluid Mechanics*, **1974**, 65, 231-246	3.7	124
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322	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. *Journal of Mass Spectrometry*, **2007**, 42, 101-16	2.2	112
321	Dynamics of aerosol coagulation and condensation. *AICHE Journal*, **1976**, 22, 840-851	3.6	112
320	Characterization of polar organic components in fine aerosols in the southeastern United States: Identity, origin, and evolution. *Journal of Geophysical Research*, **2006**, 111,		108
319	Reactions of semivolatile organics and their effects on secondary organic aerosol formation. *Environmental Science & Technology*, **2007**, 41, 3545-50	10.3	106
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317	Modification of aerosol mass and size distribution due to aqueous-phase SO2 oxidation in clouds: Comparisons of several models. *Journal of Geophysical Research*, **2003**, 108,		104
316	The Marine Stratus/Stratocumulus Experiment (MASE): Aerosol-cloud relationships in marine stratocumulus. *Journal of Geophysical Research*, **2007**, 112,		102
315	Particulate organic acids and overall water-soluble aerosol composition measurements from the 2006 Gulf of Mexico Atmospheric Composition and Climate Study (GoMACCS). *Journal of Geophysical Research*, **2007**, 112,		102
314	Thermodynamic models of aqueous solutions containing inorganic electrolytes and dicarboxylic acids at 298.15 K. 2. Systems including dissociation equilibria. *Journal of Physical Chemistry A*, **2006**, 110, 5718-34	2.8	102
313	Secondary organic aerosol formation from the ozonolysis of cycloalkenes and related compounds. *Environmental Science & Technology*, **2004**, 38, 4157-64	10.3	102
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311	pinene photooxidation under controlled chemical conditions Part 2: SOA yield and composition in low- and high-NO_x environments. *Atmospheric Chemistry and Physics*, **2012**, 12, 7413-7427	6.8	98
310	On the link between ocean biota emissions, aerosol, and maritime clouds: Airborne, ground, and satellite measurements off the coast of California. *Global Biogeochemical Cycles*, **2009**, 23, n/a-n/a	5.9	98
309	Modeling and Characterization of a Particle-into-Liquid Sampler (PILS). *Aerosol Science and Technology*, **2006**, 40, 396-409	3.4	98
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304	Vapor wall deposition in Teflon chambers. *Atmospheric Chemistry and Physics*, **2015**, 15, 4197-4214	6.8	94
303	Adjoint inverse modeling of black carbon during the Asian Pacific Regional Aerosol Characterization Experiment. *Journal of Geophysical Research*, **2005**, 110, n/a-n/a		94
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293	Aircraft-based aerosol size and composition measurements during ACE-Asia using an Aerodyne aerosol mass spectrometer. *Journal of Geophysical Research*, **2003**, 108,		88
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288	Regional variation of organic functional groups in aerosol particles on four U.S. east coast platforms during the International Consortium for Atmospheric Research on Transport and Transformation 2004 campaign. *Journal of Geophysical Research*, **2007**, 112,		85
287	Automatic sensitivity analysis of kinetic mechanisms. *International Journal of Chemical Kinetics*, **1979**, 11, 427-444	1.4	85
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283	Electron tomography of nanoparticle clusters: Implications for atmospheric lifetimes and radiative forcing of soot. *Geophysical Research Letters*, **2005**, 32,	4.9	83
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