Neil M. Donahue

List of Publications by Year in Descending Order

329 papers	30,493 citations	85 h-index	170 g-index
392 ext. papers	35,008 ext. citations	8.6 avg, IF	6.93 L-index

#	Paper	IF	Citations
329	Modelling the gas–particle partitioning and water uptake of isoprene-derived secondary organic aerosol at high and low relative humidity. *Atmospheric Chemistry and Physics*, **2022**, 22, 215-244	6.8	2
328	Limited Secondary Organic Aerosol Production from Acyclic Oxygenated Volatile Chemical Products.. *Environmental Science & Technology*, **2022**, 56, 4806-4815	10.3	1
327	Full-volatility emission framework corrects missing and underestimated secondary organic aerosol sources. *One Earth*, **2022**, 5, 403-412	8.1	3
326	The seasonal variation, characteristics and secondary generation of PM in Xi'an, China, especially during pollution events.. *Environmental Research*, **2022**, 212, 113388	7.9	0
325	Synergistic HNO-HSO-NH upper tropospheric particle formation.. *Nature*, **2022**, 605, 483-489	50.4	5
324	Molecular Composition of Oxygenated Organic Molecules and Their Contributions to Organic Aerosol in Beijing. *Environmental Science & Technology*, **2021**,	10.3	3
323	Chemical composition of nanoparticles from <i></i>-pinene nucleation and the influence of isoprene and relative humidity at low temperature. *Atmospheric Chemistry and Physics*, **2021**, 21, 17099-17114	6.8	1
322	Formation of condensable organic vapors from anthropogenic and biogenic volatile organic compounds (VOCs) is strongly perturbed by NO_{<i>x</i>} in eastern China. *Atmospheric Chemistry and Physics*, **2021**, 21, 14789-14814	6.8	3
321	Technical note: The enhancement limit of coagulation scavenging of small charged particles. *Atmospheric Chemistry and Physics*, **2021**, 21, 3827-3832	6.8	2
320	Impact of Urban Pollution on Organic-Mediated New-Particle Formation and Particle Number Concentration in the Amazon Rainforest. *Environmental Science & Technology*, **2021**, 55, 4357-4367	10.3	2
319	The Synergistic Role of Sulfuric Acid, Bases, and Oxidized Organics Governing New-Particle Formation in Beijing. *Geophysical Research Letters*, **2021**, 48, e2020GL091944	4.9	23
318	Atmospheric Nanoparticle Survivability Reduction Due to Charge-Induced Coagulation Scavenging Enhancement. *Geophysical Research Letters*, **2021**, 48, e2021GL092758	4.9	0
317	Measurement report: Molecular composition and volatility of gaseous organic compounds in a boreal forest – from volatile organic compounds to highly oxygenated organic molecules. *Atmospheric Chemistry and Physics*, **2021**, 21, 8961-8977	6.8	1
316	Measurement of iodine species and sulfuric acid using bromide chemical ionization mass spectrometers. *Atmospheric Measurement Techniques*, **2021**, 14, 4187-4202	4	2
315	Determination of the collision rate coefficient between charged iodic acid clusters and iodic acid using the appearance time method. *Aerosol Science and Technology*, **2021**, 55, 231-242	3.4	8
314	Molecular characterization of ultrafine particles using extractive electrospray time-of-flight mass spectrometry. *Environmental Science Atmospheres*, **2021**, 1, 434-448		2
313	Peroxy radical kinetics and new particle formation. *Environmental Science Atmospheres*, **2021**, 1, 79-92		2

312	Efficient alkane oxidation under combustion engine and atmospheric conditions. *Communications Chemistry*, **2021**, 4,	6.3	11
311	Role of iodine oxoacids in atmospheric aerosol nucleation. *Science*, **2021**, 371, 589-595	33.3	31
310	Effects of aerosol size and coating thickness on the molecular detection using extractive electrospray ionization. *Atmospheric Measurement Techniques*, **2021**, 14, 5913-5923	4	0
309	The driving factors of new particle formation and growth in the polluted boundary layer. *Atmospheric Chemistry and Physics*, **2021**, 21, 14275-14291	6.8	8
308	Contribution of Atmospheric Oxygenated Organic Compounds to Particle Growth in an Urban Environment. *Environmental Science & Technology*, **2021**, 55, 13646-13656	10.3	5
307	Primary ion diffusion charging and particle wall loss in smog chamber experiments. *Aerosol Science and Technology*, **2020**, 54, 1058-1069	3.4	2
306	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. *Nature*, **2020**, 581, 184-189	50.4	72
305	Size-dependent influence of NO on the growth rates of organic aerosol particles. *Science Advances*, **2020**, 6, eaay4945	14.3	28
304	Peroxy radical chemistry and the volatility basis set. *Atmospheric Chemistry and Physics*, **2020**, 20, 1183-1199	6.8	34
303	Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds. *Environmental Science & Technology*, **2020**, 54, 7911-7921	10.3	26
302	Molecular understanding of new-particle formation from alpha-pinene between −50 °C and 25 °C **2020**,		1
301	Enhanced growth rate of atmospheric particles from sulfuric acid. *Atmospheric Chemistry and Physics*, **2020**, 20, 7359-7372	6.8	21
300	Moving beyond Fine Particle Mass: High-Spatial Resolution Exposure to Source-Resolved Atmospheric Particle Number and Chemical Mixing State. *Environmental Health Perspectives*, **2020**, 128, 17009	8.4	10
299	Cloud–Aerosol–Turbulence Interactions: Science Priorities and Concepts for a Large-Scale Laboratory Facility. *Bulletin of the American Meteorological Society*, **2020**, 101, E1026-E1035	6.1	5
298	Molecular understanding of the suppression of new-particle formation by isoprene. *Atmospheric Chemistry and Physics*, **2020**, 20, 11809-11821	6.8	16
297	Molecular understanding of new-particle formation from <i></i>-pinene between −50 and +25 °C. *Atmospheric Chemistry and Physics*, **2020**, 20, 9183-9207	6.8	32
296	High concentration of ultrafine particles in the Amazon free troposphere produced by organic new particle formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 25344-25351	11.5	20
295	Aerosol Optical Tweezers Constrain the Morphology Evolution of Liquid-Liquid Phase-Separated Atmospheric Particles. *CheM*, **2020**, 6, 204-220	16.2	30

294	Molecular understanding of the suppression of new-particle formation by isoprene **2020**,		1
293	Quantifying errors in the aerosol mixing-state index based on limited particle sample size. *Aerosol Science and Technology*, **2020**, 54, 1527-1541	3.4	2
292	Molecular Composition and Volatility of Nucleated Particles from α-Pinene Oxidation between -50 °C and +25 °C. *Environmental Science & Technology*, **2019**, 53, 12357-12365	10.3	14
291	Molecular identification of organic vapors driving atmospheric nanoparticle growth. *Nature Communications*, **2019**, 10, 4442	17.4	37
290	Production of Secondary Organic Aerosol During Aging of Biomass Burning Smoke From Fresh Fuels and Its Relationship to VOC Precursors. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 3583-3606	4.4	39
289	Formation of Highly Oxygenated Organic Molecules from α-Pinene Ozonolysis: Chemical Characteristics, Mechanism, and Kinetic Model Development. *ACS Earth and Space Chemistry*, **2019**, 3, 873-883	3.2	23
288	Using Ionic Liquids To Study the Migration of Semivolatile Organic Vapors in Smog Chamber Experiments. *Journal of Physical Chemistry A*, **2019**, 123, 3887-3892	2.8	
287	Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. *Chemical Reviews*, **2019**, 119, 3472-3509	68.1	262
286	Organic Aerosol Processing During Winter Severe Haze Episodes in Beijing. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 10248-10263	4.4	31
285	Gas-Phase Organic Oxidation Chemistry and Atmospheric Particles **2019**, 199-317		3
284	Enhanced growth rate of atmospheric particles from sulfuric acid **2019**,		1
283	Following Particle-Particle Mixing in Atmospheric Secondary Organic Aerosols by Using Isotopically Labeled Terpenes. *CheM*, **2018**, 4, 318-333	16.2	32
282	Mass accommodation coefficients of fresh and aged biomass-burning emissions. *Aerosol Science and Technology*, **2018**, 52, 300-309	3.4	8
281	Air Pollution and Air Quality **2018**, 151-176		7
280	Measurement–model comparison of stabilized Criegee intermediate and highly oxygenated molecule production in the CLOUD chamber. *Atmospheric Chemistry and Physics*, **2018**, 18, 2363-2380	6.8	13
279	Multi-generation chemical aging of <i></i>-pinene ozonolysis products by reactions with OH. *Atmospheric Chemistry and Physics*, **2018**, 18, 3589-3601	6.8	8
278	New particle formation in the sulfuric acid–dimethylamine–water system: reevaluation of CLOUD chamber measurements and comparison to an aerosol nucleation and growth model. *Atmospheric Chemistry and Physics*, **2018**, 18, 845-863	6.8	62
277	Influence of temperature on the molecular composition of ions and charged clusters during pure biogenic nucleation. *Atmospheric Chemistry and Physics*, **2018**, 18, 65-79	6.8	39

276	Cloud condensation nuclei activity and droplet formation of primary and secondary organic aerosol mixtures. *Aerosol Science and Technology*, **2018**, 52, 242-251	3.4	7
275	Secondary organic aerosol production from pinanediol, a semi-volatile surrogate for first-generation oxidation products of monoterpenes. *Atmospheric Chemistry and Physics*, **2018**, 18, 6171-6186	6.8	7
274	Rapid growth of organic aerosol nanoparticles over a wide tropospheric temperature range. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9122-9127	11.5	73
273	Emerging investigator series: determination of biphasic core-shell droplet properties using aerosol optical tweezers. *Environmental Sciences: Processes and Impacts*, **2018**, 20, 1512-1523	4.3	10
272	Morphological transformation of soot: investigation of microphysical processes during the condensation of sulfuric acid and limonene ozonolysis product vapors. *Atmospheric Chemistry and Physics*, **2018**, 18, 9845-9860	6.8	17
271	Pressure Stabilization of Criegee Intermediates Formed from Symmetric trans-Alkene Ozonolysis. *Journal of Physical Chemistry A*, **2018**, 122, 9426-9434	2.8	5
270	Particle wall-loss correction methods in smog chamber experiments. *Atmospheric Measurement Techniques*, **2018**, 11, 6577-6588	4	29
269	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. *Science Advances*, **2018**, 4, eaau5363	14.3	105
268	Spatial Variability of Sources and Mixing State of Atmospheric Particles in a Metropolitan Area. *Environmental Science & Technology*, **2018**, 52, 6807-6815	10.3	30
267	A dual-chamber method for quantifying the effects of atmospheric perturbations on secondary organic aerosol formation from biomass burning emissions. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 6043-6058	4.4	32
266	Evaporation rate of particles in the vaporizer of the Aerodyne aerosol mass spectrometer. *Aerosol Science and Technology*, **2017**, 51, 501-508	3.4	5
265	Collection efficiency of <i></i>-pinene secondary organic aerosol particles explored via light-scattering single-particle aerosol mass spectrometry. *Atmospheric Measurement Techniques*, **2017**, 10, 1139-1154	4	13
264	Morphological transformation of soot: investigation of microphysical processes during the condensation of sulfuric acid and limonene ozonolysis product vapors **2017**,		1
263	Causes and importance of new particle formation in the present-day and preindustrial atmospheres. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 8739-8760	4.4	119
262	Unimolecular Decay of the Dimethyl-Substituted Criegee Intermediate in Alkene Ozonolysis: Decay Time Scales and the Importance of Tunneling. *Journal of Physical Chemistry A*, **2017**, 121, 6036-6045	2.8	29
261	Reducing secondary organic aerosol formation from gasoline vehicle exhaust. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 6984-6989	11.5	73
260	The role of ions in new particle formation in the CLOUD chamber. *Atmospheric Chemistry and Physics*, **2017**, 17, 15181-15197	6.8	32
259	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. *Atmospheric Chemistry and Physics*, **2017**, 17, 2103-2162	6.8	206

258	Dynamic consideration of smog chamber experiments. *Atmospheric Chemistry and Physics*, **2017**, 17, 10019-10036	6.8	6
257	Evaporation of sulfate aerosols at low relative humidity. *Atmospheric Chemistry and Physics*, **2017**, 17, 8923-8938	6.8	7
256	Influence of temperature on the molecular composition of ions and charged clusters during pure biogenic nucleation **2017**,		1
255	Multi-generation Chemical Aging of □Pinene Ozonolysis Products by Reactions with OH **2017**,		1
254	Emulsified and Liquid-Liquid Phase-Separated States of □Pinene Secondary Organic Aerosol Determined Using Aerosol Optical Tweezers. *Environmental Science & Technology*, **2017**, 51, 12154-12163	10.3	48
253	Evaporation of sulphate aerosols at low relative humidity **2016**,		1
252	Urban case studies: general discussion. *Faraday Discussions*, **2016**, 189, 473-514	3.6	1
251	Modeling the thermodynamics and kinetics of sulfuric acid-dimethylamine-water nanoparticle growth in the CLOUD chamber. *Aerosol Science and Technology*, **2016**, 50, 1017-1032	3.4	10
250	Mixing of secondary organic aerosols versus relative humidity. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12649-12654	11.5	79
249	Global atmospheric particle formation from CERN CLOUD measurements. *Science*, **2016**, 354, 1119-1124	33.3	207
248	The effect of acid-base clustering and ions on the growth of atmospheric nano-particles. *Nature Communications*, **2016**, 7, 11594	17.4	88
247	A two-dimensional volatility basis set □Part 3: Prognostic modeling and NO_{<i>x</i>} dependence. *Atmospheric Chemistry and Physics*, **2016**, 16, 123-134	6.8	20
246	Heterogeneous ice nucleation of viscous secondary organic aerosol produced from ozonolysis of <i></i>-pinene. *Atmospheric Chemistry and Physics*, **2016**, 16, 6495-6509	6.8	51
245	Aqueous phase oxidation of sulphur dioxide by ozone in cloud droplets. *Atmospheric Chemistry and Physics*, **2016**, 16, 1693-1712	6.8	35
244	Hygroscopicity of nanoparticles produced from homogeneous nucleation in the CLOUD experiments. *Atmospheric Chemistry and Physics*, **2016**, 16, 293-304	6.8	19
243	Phase transition observations and discrimination of small cloud particles by light polarization in expansion chamber experiments. *Atmospheric Chemistry and Physics*, **2016**, 16, 3651-3664	6.8	11
242	Observation of viscosity transition in <i></i>-pinene secondary organic aerosol. *Atmospheric Chemistry and Physics*, **2016**, 16, 4423-4438	6.8	47
241	Quantifying the effect of organic aerosol aging and intermediate-volatility emissions on regional-scale aerosol pollution in China. *Scientific Reports*, **2016**, 6, 28815	4.9	88

240	Vapor wall loss of semi-volatile organic compounds in a Teflon chamber. *Aerosol Science and Technology*, **2016**, 50, 822-834	3.4	69
239	Estimating ambient particulate organic carbon concentrations and partitioning using thermal optical measurements and the volatility basis set. *Aerosol Science and Technology*, **2016**, 50, 638-651	3.4	9
238	Single-particle measurements of phase partitioning between primary and secondary organic aerosols. *Faraday Discussions*, **2016**, 189, 31-49	3.6	9
237	James G. Anderson Tribute. *Journal of Physical Chemistry A*, **2016**, 120, 1317-9	2.8	
236	Uptake of Semivolatile Secondary Organic Aerosol Formed from ⊟Pinene into Nonvolatile Polyethylene Glycol Probe Particles. *Journal of Physical Chemistry A*, **2016**, 120, 1459-67	2.8	6
235	Can Highly Oxidized Organics Contribute to Atmospheric New Particle Formation?. *Journal of Physical Chemistry A*, **2016**, 120, 1452-8	2.8	30
234	Where Did This Particle Come From? Sources of Particle Number and Mass for Human Exposure Estimates. *Issues in Environmental Science and Technology*, **2016**, 35-71	0.7	5
233	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms and organic aerosol **2016**,		3
232	Effect of secondary organic aerosol coating thickness on the real-time detection and characterization of biomass-burning soot by two particle mass spectrometers. *Atmospheric Measurement Techniques*, **2016**, 9, 6117-6137	4	25
231	Timescales of mixing and of chemistry: general discussion. *Faraday Discussions*, **2016**, 189, 253-76	3.6	
230	Effect of ions on sulfuric acid-water binary particle formation: 2. Experimental data and comparison with QC-normalized classical nucleation theory. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 1752-1775	4.4	80
229	Numerical modelling strategies for the urban atmosphere: general discussion. *Faraday Discussions*, **2016**, 189, 635-60	3.6	
228	Effect of ions on sulfuric acid-water binary particle formation: 1. Theory for kinetic- and nucleation-type particle formation and atmospheric implications. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 1736-1751	4.4	28
227	Effect of dimethylamine on the gas phase sulfuric acid concentration measured by Chemical Ionization Mass Spectrometry. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 3036-3049	4.4	13
226	Experimental particle formation rates spanning tropospheric sulfuric acid and ammonia abundances, ion production rates, and temperatures. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 12,377	4.4	54
225	Pressure-Dependent Criegee Intermediate Stabilization from Alkene Ozonolysis. *Journal of Physical Chemistry A*, **2016**, 120, 2173-8	2.8	23
224	The role of low-volatility organic compounds in initial particle growth in the atmosphere. *Nature*, **2016**, 533, 527-31	50.4	388
223	Ion-induced nucleation of pure biogenic particles. *Nature*, **2016**, 533, 521-6	50.4	377

222	Reactions of Atmospheric Particulate Stabilized Criegee Intermediates Lead to High-Molecular-Weight Aerosol Components. *Environmental Science & Technology*, **2016**, 50, 5702-10	10.3	43
221	□Pinene Autoxidation Products May Not Have Extremely Low Saturation Vapor Pressures Despite High O:C Ratios. *Journal of Physical Chemistry A*, **2016**, 120, 2569-82	2.8	79
220	Reduced anthropogenic aerosol radiative forcing caused by biogenic new particle formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12053-12058	11.5	79
219	Wall effects in smog chamber experiments: A model study. *Aerosol Science and Technology*, **2016**, 50, 1180-1200	3.4	24
218	The interplay between assumed morphology and the direct radiative effect of light-absorbing organic aerosol. *Geophysical Research Letters*, **2016**, 43, 8735-8743	4.9	9
217	Probing the Evaporation Dynamics of Mixed SOA/Squalane Particles Using Size-Resolved Composition and Single-Particle Measurements. *Environmental Science & Technology*, **2015**, 49, 9724-32	10.3	19
216	Saturation vapor pressures and transition enthalpies of low-volatility organic molecules of atmospheric relevance: from dicarboxylic acids to complex mixtures. *Chemical Reviews*, **2015**, 115, 4115-56	68.1	138
215	Elemental ratio measurements of organic compounds using aerosol mass spectrometry: characterization, improved calibration, and implications. *Atmospheric Chemistry and Physics*, **2015**, 15, 253-272	6.8	563
214	Photochemical aging of secondary organic aerosols generated from the photooxidation of polycyclic aromatic hydrocarbons in the gas-phase. *Environmental Science & Technology*, **2015**, 49, 5407-16	10.3	32
213	Improvement of simulation of fine inorganic PM levels through better descriptions of coarse particle chemistry. *Atmospheric Environment*, **2015**, 102, 274-281	5.3	10
212	Contribution of brown carbon and lensing to the direct radiative effect of carbonaceous aerosols from biomass and biofuel burning emissions. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 10,285	4.4	93
211	Experimental investigation of ion□ion recombination under atmospheric conditions. *Atmospheric Chemistry and Physics*, **2015**, 15, 7203-7216	6.8	33
210	Formation and aging of secondary organic aerosol from toluene: changes in chemical composition, volatility, and hygroscopicity. *Atmospheric Chemistry and Physics*, **2015**, 15, 8301-8313	6.8	27
209	Adsorptive uptake of water by semisolid secondary organic aerosols. *Geophysical Research Letters*, **2015**, 42, 3063-3068	4.9	113
208	Thermodynamics of the formation of sulfuric acid dimers in the binary (H₂SO₄□H₂O) and ternary (H₂SO₄□H₂O□NH₃) system. *Atmospheric Chemistry and Physics*, **2015**, 15, 10701-10721	6.8	22
207	Elemental composition and clustering behaviour of □pinene oxidation products for different oxidation conditions. *Atmospheric Chemistry and Physics*, **2015**, 15, 4145-4159	6.8	14
206	On the composition of ammonia□sulfuric-acid ion clusters during aerosol particle formation. *Atmospheric Chemistry and Physics*, **2015**, 15, 55-78	6.8	68
205	Evaluation of one-dimensional and two-dimensional volatility basis sets in simulating the aging of secondary organic aerosol with smog-chamber experiments. *Environmental Science & Technology*, **2015**, 49, 2245-54	10.3	44

204	Contribution of brown carbon and lensing to the direct radiative effect of carbonaceous aerosols from biomass and biofuel burning emissions. *Journal of Geophysical Research D: Atmospheres*, **2015**, n/a-n/a	4.4	11
203	Oxidation products of biogenic emissions contribute to nucleation of atmospheric particles. *Science* , **2014**, 344, 717-21	33.3	375
202	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
201	Organosulfates from pinene and isoprene over the Pearl River Delta, South China: seasonal variation and implication in formation mechanisms. *Environmental Science & Technology*, **2014**, 48, 9236-45	10.3	70
200	Brownness of organics in aerosols from biomass burning linked to their black carbon content. *Nature Geoscience*, **2014**, 7, 647-650	18.3	314
199	Oligomer formation within secondary organic aerosols: equilibrium and dynamic considerations. *Atmospheric Chemistry and Physics*, **2014**, 14, 3691-3701	6.8	50
198	Secondary organic aerosol formation exceeds primary particulate matter emissions for light-duty gasoline vehicles. *Atmospheric Chemistry and Physics*, **2014**, 14, 4661-4678	6.8	128
197	Testing secondary organic aerosol models using smog chamber data for complex precursor mixtures: influence of precursor volatility and molecular structure. *Atmospheric Chemistry and Physics*, **2014**, 14, 5771-5780	6.8	17
196	Reactivity of stabilized Criegee intermediates (sCIs) from isoprene and monoterpene ozonolysis toward SO₂ and organic acids. *Atmospheric Chemistry and Physics*, **2014**, 14, 12143-12153	6.8	76
195	A naming convention for atmospheric organic aerosol. *Atmospheric Chemistry and Physics*, **2014**, 14, 5825-5839	6.8	68
194	Near-unity mass accommodation coefficient of organic molecules of varying structure. *Environmental Science & Technology*, **2014**, 48, 12083-9	10.3	65
193	Unspeciated organic emissions from combustion sources and their influence on the secondary organic aerosol budget in the United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10473-8	11.5	148
192	Insight into acid-base nucleation experiments by comparison of the chemical composition of positive, negative, and neutral clusters. *Environmental Science & Technology*, **2014**, 48, 13675-84	10.3	40
191	Volatility and aging of atmospheric organic aerosol. *Topics in Current Chemistry*, **2014**, 339, 97-143		56
190	Organic aerosol mixing observed by single-particle mass spectrometry. *Journal of Physical Chemistry A*, **2013**, 117, 13935-45	2.8	48
189	Atmospheric nanoparticles and climate change. *AICHE Journal*, **2013**, 59, 4006-4019	3.6	8
188	Molecular understanding of sulphuric acid-amine particle nucleation in the atmosphere. *Nature*, **2013**, 502, 359-63	50.4	585
187	Introductory lecture: atmospheric organic aerosols: insights from the combination of measurements and chemical transport models. *Faraday Discussions*, **2013**, 165, 9-24	3.6	24

186	How do organic vapors contribute to new-particle formation?. *Faraday Discussions*, **2013**, 165, 91-104	3.6	84
185	Secondary organic aerosol formation from photo-oxidation of unburned fuel: experimental results and implications for aerosol formation from combustion emissions. *Environmental Science & Technology*, **2013**, 47, 12886-93	10.3	61
184	Time scales for gas-particle partitioning equilibration of secondary organic aerosol formed from alpha-pinene ozonolysis. *Environmental Science & Technology*, **2013**, 47, 5588-94	10.3	99
183	Role of organics in particle nucleation: From the lab to global model **2013**,		1
182	Two-dimensional volatility basis set modeling of pinanediol oxidation in the CLOUD experiment **2013**,		1
181	Molecular understanding of atmospheric particle formation from sulfuric acid and large oxidized organic molecules. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 17223-8	11.5	249
180	Photo-oxidation of pinonaldehyde at low NO_x: from chemistry to organic aerosol formation. *Atmospheric Chemistry and Physics*, **2013**, 13, 3227-3236	6.8	24
179	Absorptivity of brown carbon in fresh and photo-chemically aged biomass-burning emissions. *Atmospheric Chemistry and Physics*, **2013**, 13, 7683-7693	6.8	231
178	Evolution of particle composition in CLOUD nucleation experiments. *Atmospheric Chemistry and Physics*, **2013**, 13, 5587-5600	6.8	25
177	Why do organic aerosols exist? Understanding aerosol lifetimes using the two-dimensional volatility basis set. *Environmental Chemistry*, **2013**, 10, 151	3.2	85
176	Organic aerosol yields from □pinene oxidation: bridging the gap between first-generation yields and aging chemistry. *Environmental Science & Technology*, **2012**, 46, 12347-54	10.3	27
175	Volatility of organic molecular markers used for source apportionment analysis: measurements and implications for atmospheric lifetime. *Environmental Science & Technology*, **2012**, 46, 12435-44	10.3	70
174	Simulations of smog-chamber experiments using the two-dimensional volatility basis set: linear oxygenated precursors. *Environmental Science & Technology*, **2012**, 46, 11179-86	10.3	9
173	Photochemical aging of □pinene secondary organic aerosol: effects of OH radical sources and photolysis. *Journal of Physical Chemistry A*, **2012**, 116, 5932-40	2.8	84
172	Secondary organic aerosol formation from intermediate-volatility organic compounds: cyclic, linear, and branched alkanes. *Environmental Science & Technology*, **2012**, 46, 8773-81	10.3	134
171	Nature of the chemical bond in transition: dissection of radical-molecule reactivity. *Journal of Physical Chemistry A*, **2012**, 116, 6303-11	2.8	1
170	MRCISD studies of the dissociation of vinylhydroperoxide, CH2CHOOH: there is a saddle point. *Journal of Physical Chemistry A*, **2012**, 116, 6823-30	2.8	44
169	OH clock determination by proton transfer reaction mass spectrometry at an environmental chamber. *Atmospheric Measurement Techniques*, **2012**, 5, 647-656	4	90

168	The contribution of organics to atmospheric nanoparticle growth. *Nature Geoscience*, **2012**, 5, 453-458	18.3	282
167	Aging of biogenic secondary organic aerosol via gas-phase OH radical reactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 13503-8	11.5	201
166	Formation of 3-methyl-1,2,3-butanetricarboxylic acid via gas phase oxidation of pinonic acid a mass spectrometric study of SOA aging. *Atmospheric Chemistry and Physics*, **2012**, 12, 1483-1496	6.8	162
165	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	6.8	71
164	A two-dimensional volatility basis set Part 2: Diagnostics of organic-aerosol evolution. *Atmospheric Chemistry and Physics*, **2012**, 12, 615-634	6.8	365
163	Modeling the formation and properties of traditional and non-traditional secondary organic aerosol: problem formulation and application to aircraft exhaust. *Atmospheric Chemistry and Physics* , **2012**, 12, 9025-9040	6.8	23
162	Theoretical constraints on pure vapor-pressure driven condensation of organics to ultrafine particles. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	88
161	2,3-Dimethyl-2-butene (TME) ozonolysis: pressure dependence of stabilized Criegee intermediates and evidence of stabilized vinyl hydroperoxides. *Journal of Physical Chemistry A*, **2011**, 115, 161-6	2.8	48
160	Adventures in ozoneland: down the rabbit-hole. *Physical Chemistry Chemical Physics*, **2011**, 13, 10848-57	3.6	145
159	Carbon oxidation state as a metric for describing the chemistry of atmospheric organic aerosol. *Nature Chemistry*, **2011**, 3, 133-9	17.6	689
158	Pressure dependence of stabilized Criegee intermediate formation from a sequence of alkenes. *Journal of Physical Chemistry A*, **2011**, 115, 4381-7	2.8	64
157	Understanding evolution of product composition and volatility distribution through in-situ GC GC analysis: a case study of longifolene ozonolysis. *Atmospheric Chemistry and Physics*, **2011**, 11, 5335-5346	6.8	32
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