# Neil M. Donahue

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

329 papers

30,493 citations

85 h-index

170 g-index

392 ext. papers

35,008 ext. citations

avg, IF

8.6

6.93 L-index

#	Paper	IF	Citations
329	The formation, properties and impact of secondary organic aerosol: current and emerging issues. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 5155-5236	6.8	2861
328	Evolution of organic aerosols in the atmosphere. <i>Science</i> , <b>2009</b> , 326, 1525-9	33.3	2767
327	Rethinking organic aerosols: semivolatile emissions and photochemical aging. <i>Science</i> , <b>2007</b> , 315, 1259.	- <b>63</b> 3.3	1452
326	Coupled partitioning, dilution, and chemical aging of semivolatile organics. <i>Environmental Science &amp; Environmental Science</i> & Environmental Science & Environmental &	10.3	1073
325	Organic aerosol components observed in Northern Hemispheric datasets from Aerosol Mass Spectrometry. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 4625-4641	6.8	749
324	Carbon oxidation state as a metric for describing the chemistry of atmospheric organic aerosol. <i>Nature Chemistry</i> , <b>2011</b> , 3, 133-9	17.6	689
323	Molecular understanding of sulphuric acid-amine particle nucleation in the atmosphere. <i>Nature</i> , <b>2013</b> , 502, 359-63	50.4	585
322	Elemental ratio measurements of organic compounds using aerosol mass spectrometry: characterization, improved calibration, and implications. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 253-272	6.8	563
321	Aging of organic aerosol: bridging the gap between laboratory and field studies. <i>Annual Review of Physical Chemistry</i> , <b>2007</b> , 58, 321-52	15.7	427
320	A two-dimensional volatility basis set: 1. organic-aerosol mixing thermodynamics. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 3303-3318	6.8	421
319	The role of low-volatility organic compounds in initial particle growth in the atmosphere. <i>Nature</i> , <b>2016</b> , 533, 527-31	50.4	388
318	Laboratory investigation of photochemical oxidation of organic aerosol from wood fires 1: measurement and simulation of organic aerosol evolution. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 1263-1277	6.8	381
317	Ion-induced nucleation of pure biogenic particles. <i>Nature</i> , <b>2016</b> , 533, 521-6	50.4	377
316	Oxidation products of biogenic emissions contribute to nucleation of atmospheric particles. <i>Science</i> , <b>2014</b> , 344, 717-21	33.3	375
315	A two-dimensional volatility basis set IPart 2: Diagnostics of organic-aerosol evolution. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 615-634	6.8	365
314	Organic condensation: a vital link connecting aerosol formation to cloud condensation nuclei (CCN) concentrations. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 3865-3878	6.8	319
313	Brownness of organics in aerosols from biomass burning linked to their black carbon content. <i>Nature Geoscience</i> , <b>2014</b> , 7, 647-650	18.3	314

312	Atmospheric organic particulate matter: From smoke to secondary organic aerosol. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 94-106	5.3	292
311	The contribution of organics to atmospheric nanoparticle growth. <i>Nature Geoscience</i> , <b>2012</b> , 5, 453-458	18.3	282
310	Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. <i>Chemical Reviews</i> , <b>2019</b> , 119, 3472-3509	68.1	262
309	Secondary organic aerosol production from terpene ozonolysis. 2. Effect of NOx concentration. <i>Environmental Science &amp; Environmental Science &amp; Environ</i>	10.3	261
308	Molecular understanding of atmospheric particle formation from sulfuric acid and large oxidized organic molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 17223-8	11.5	249
307	A review of the anthropogenic influence on biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 321-343	6.8	246
306	Simulating secondary organic aerosol formation using the volatility basis-set approach in a chemical transport model. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 7439-7451	5.3	241
305	Absorptivity of brown carbon in fresh and photo-chemically aged biomass-burning emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 7683-7693	6.8	231
304	High formation of secondary organic aerosol from the photo-oxidation of toluene. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 2973-2986	6.8	221
303	Global atmospheric particle formation from CERN CLOUD measurements. <i>Science</i> , <b>2016</b> , 354, 1119-112	433.3	207
302	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 2103-2162	6.8	206
301	Aging of biogenic secondary organic aerosol via gas-phase OH radical reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 13503-8	11.5	201
300	Effects of gas particle partitioning and aging of primary emissions on urban and regional organic aerosol concentrations. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		196
299	Mechanism of HOx Formation in the Gas-Phase Ozone-Alkene Reaction. 2. Prompt versus Thermal Dissociation of Carbonyl Oxides to Form OH. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 4446-4457	2.8	192
298	Organic aerosol formation from photochemical oxidation of diesel exhaust in a smog chamber. <i>Environmental Science &amp; Environmental Science &amp; Environme</i>	10.3	181
297	Investigation of alpha-pinene + ozone secondary organic aerosol formation at low total aerosol mass. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 3536-43	10.3	178
296	Laboratory investigation of photochemical oxidation of organic aerosol from wood fires 2: analysis of aerosol mass spectrometer data. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 2227-2240	6.8	168
295	Formation of 3-methyl-1,2,3-butanetricarboxylic acid via gas phase oxidation of pinonic acid hamass spectrometric study of SOA aging. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1483-1496	6.8	162

294	Fourier Transform Ultraviolet Spectroscopy of the A 2B/2 <- X 2B/2 Transition of BrO Journal of Physical Chemistry A, <b>1999</b> , 103, 8935-8945	2.8	160
293	Secondary organic aerosol formation from high-NO(x) photo-oxidation of low volatility precursors: n-alkanes. <i>Environmental Science &amp; Environmental Sc</i>	10.3	156
292	Neutral molecular cluster formation of sulfuric acid-dimethylamine observed in real time under atmospheric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 15019-24	11.5	155
291	Mechanism of HO Formation in the Gas-Phase Ozone-Alkene Reaction. 1. Direct, Pressure-Dependent Measurements of Prompt OH Yields. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 1554-1560	2.8	154
290	Source apportionment of molecular markers and organic aerosol. 3. Food cooking emissions. <i>Environmental Science &amp; Environmental Science &amp; Environment</i>	10.3	153
289	Secondary organic aerosol production from terpene ozonolysis. 1. Effect of UV radiation. <i>Environmental Science &amp; Environmental Science &amp; Environmenta</i>	10.3	150
288	Unspeciated organic emissions from combustion sources and their influence on the secondary organic aerosol budget in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 10473-8	11.5	148
287	Adventures in ozoneland: down the rabbit-hole. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 10848-57	3.6	145
286	Ozonolysis of pinene: parameterization of secondary organic aerosol mass fraction. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 3811-3821	6.8	139
285	Saturation vapor pressures and transition enthalpies of low-volatility organic molecules of atmospheric relevance: from dicarboxylic acids to complex mixtures. <i>Chemical Reviews</i> , <b>2015</b> , 115, 4115	- <u>68</u> .1	138
284	Particle-phase chemistry of secondary organic material: modeled compared to measured O:C and H:C elemental ratios provide constraints. <i>Environmental Science &amp; Environmental </i>	10.3	138
283	Ozonolysis of pinene at atmospherically relevant concentrations: Temperature dependence of aerosol mass fractions (yields). <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		138
282	Product analysis of the OH oxidation of isoprene and 1,3-butadiene in the presence of NO. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACH 8-1		137
281	Secondary organic aerosol formation from intermediate-volatility organic compounds: cyclic, linear, and branched alkanes. <i>Environmental Science &amp; Environmental Science &amp; Env</i>	10.3	134
280	Quantification of the volatility of secondary organic compounds in ultrafine particles during nucleation events. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 9019-9036	6.8	132
279	Direct observation of OH production from the ozonolysis of olefins. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 59-62	4.9	132
278	Atmospheric volatile organic compound measurements during the Pittsburgh Air Quality Study: Results, interpretation, and quantification of primary and secondary contributions. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		131
277	Secondary organic aerosol formation from limonene ozonolysis: homogeneous and heterogeneous influences as a function of NO(x). <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 11053-63	2.8	131

#### (2013-1997)

276	Isotope Specific Kinetics of Hydroxyl Radical (OH) with Water (H2O): Testing Models of Reactivity and Atmospheric Fractionation. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 1494-1500	2.8	129
275	Secondary organic aerosol formation exceeds primary particulate matter emissions for light-duty gasoline vehicles. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 4661-4678	6.8	128
274	Source apportionment of molecular markers and organic aerosol1. Polycyclic aromatic hydrocarbons and methodology for data visualization. <i>Environmental Science &amp; Environmental Science &amp; Environmen</i>	10.3	123
273	Equilibration time scales of organic aerosol inside thermodenuders: Evaporation kinetics versus thermodynamics. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 597-607	5.3	122
272	Effect of NOx on secondary organic aerosol concentrations. <i>Environmental Science &amp; Environmental Scie</i>	10.3	121
271	A semiempirical correlation between enthalpy of vaporization and saturation concentration for organic aerosol. <i>Environmental Science &amp; Environmental </i>	10.3	120
270	Causes and importance of new particle formation in the present-day and preindustrial atmospheres. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 8739-8760	4.4	119
269	Adsorptive uptake of water by semisolid secondary organic aerosols. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 3063-3068	4.9	113
268	Constraining the volatility distribution and gas-particle partitioning of combustion aerosols using isothermal dilution and thermodenuder measurements. <i>Environmental Science &amp; Environmental Science</i>	10.3	113
267	Aged organic aerosol in the Eastern Mediterranean: the Finokalia Aerosol Measurement Experiment 12008. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 4167-4186	6.8	109
266	Cloud condensation nuclei activation of limited solubility organic aerosol. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 605-617	5.3	109
265	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , <b>2018</b> , 4, eaau5363	14.3	105
264	Updating the conceptual model for fine particle mass emissions from combustion systems. <i>Journal of the Air and Waste Management Association</i> , <b>2010</b> , 60, 1204-22	2.4	103
263	Is the gas-particle partitioning in alpha-pinene secondary organic aerosol reversible?. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	101
262	Ozone observations and a model of marine boundary layer photochemistry during SAGA 3. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 16955		101
261	Volatility and hygroscopicity of aging secondary organic aerosol in a smog chamber. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 11477-11496	6.8	100
260	Gas-phase ozonolysis of alkenes: formation of OH from anti carbonyl oxides. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 8518-9	16.4	100
259	Time scales for gas-particle partitioning equilibration of secondary organic aerosol formed from alpha-pinene ozonolysis. <i>Environmental Science &amp; Environmental Science &amp; Env</i>	10.3	99

258	Photochemical oxidation and changes in molecular composition of organic aerosol in the regional context. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		98
257	Water content of aged aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 911-920	6.8	97
256	Relationship between peroxyacetyl nitrate and nitrogen oxides in the clean troposphere. <i>Nature</i> , <b>1985</b> , 318, 347-349	50.4	97
255	Evolving mass spectra of the oxidized component of organic aerosol: results from aerosol mass spectrometer analyses of aged diesel emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 1139-1152	6.8	95
254	Source apportionment of molecular markers and organic aerosol. 2. Biomass smoke. <i>Environmental Science &amp; Environmental Scienc</i>	10.3	94
253	Contribution of brown carbon and lensing to the direct radiative effect of carbonaceous aerosols from biomass and biofuel burning emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 10,285	4.4	93
252	OH clock determination by proton transfer reaction mass spectrometry at an environmental chamber. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 647-656	4	90
251	Cloud condensation nuclei activation of monoterpene and sesquiterpene secondary organic aerosol. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110, n/a-n/a		89
250	The effect of acid-base clustering and ions on the growth of atmospheric nano-particles. <i>Nature Communications</i> , <b>2016</b> , 7, 11594	17.4	88
249	Quantifying the effect of organic aerosol aging and intermediate-volatility emissions on regional-scale aerosol pollution in China. <i>Scientific Reports</i> , <b>2016</b> , 6, 28815	4.9	88
248	Theoretical constraints on pure vapor-pressure driven condensation of organics to ultrafine particles. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	88
247	Intermediate-volatility organic compounds: a potential source of ambient oxidized organic aerosol. <i>Environmental Science &amp; Environmental Science &amp; En</i>	10.3	88
246	The temperature-dependence of rapid low temperature reactions: experiment, understanding and prediction. <i>Faraday Discussions</i> , <b>2006</b> , 133, 137-56; discussion 191-230, 449-52	3.6	87
245	Why do organic aerosols exist? Understanding aerosol lifetimes using the two-dimensional volatility basis set. <i>Environmental Chemistry</i> , <b>2013</b> , 10, 151	3.2	85
244	How do organic vapors contribute to new-particle formation?. Faraday Discussions, 2013, 165, 91-104	3.6	84
243	Photochemical aging of pinene secondary organic aerosol: effects of OH radical sources and photolysis. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 5932-40	2.8	84
242	High-pressure flow study of the reactions OH + NOx -HONOx: Errors in the falloff region. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 6159-6168		84
241	Critical factors determining the variation in SOA yields from terpene ozonolysis: a combined experimental and computational study. <i>Faraday Discussions</i> , <b>2005</b> , 130, 295-309; discussion 363-86, 519	-24	83

## (2020-2009)

240	Effective rate constants and uptake coefficients for the reactions of organic molecular markers (n-alkanes, hopanes, and steranes) in motor oil and diesel primary organic aerosols with hydroxyl radicals. <i>Environmental Science &amp; Environmental Sci</i>	10.3	82
239	Nonmethane hydrocarbon chemistry in the remote marine boundary layer. <i>Journal of Geophysical Research</i> , <b>1990</b> , 95, 18387		82
238	Effect of ions on sulfuric acid-water binary particle formation: 2. Experimental data and comparison with QC-normalized classical nucleation theory. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 1752-1775	4.4	80
237	Mixing of secondary organic aerosols versus relative humidity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 12649-12654	11.5	79
236	Predicting Radical Molecule Barrier Heights: The Role of the Ionic Surface. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 3923-3933	2.8	79
235	⊕inene Autoxidation Products May Not Have Extremely Low Saturation Vapor Pressures Despite High O:C Ratios. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 2569-82	2.8	79
234	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
233	Contribution of motor vehicle emissions to organic carbon and fine particle mass in Pittsburgh, Pennsylvania: Effects of varying source profiles and seasonal trends in ambient marker concentrations. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 8002-8019	5.3	78
232	Aerosol analysis using a Thermal-Desorption Proton-Transfer-Reaction Mass Spectrometer (TD-PTR-MS): a new approach to study processing of organic aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 2257-2267	6.8	77
231	Constraining Particle Evolution from Wall Losses, Coagulation, and Condensation-Evaporation in Smog-Chamber Experiments: Optimal Estimation Based on Size Distribution Measurements. <i>Aerosol Science and Technology</i> , <b>2008</b> , 42, 1001-1015	3.4	77
230	Reactivity of stabilized Criegee intermediates (sCIs) from isoprene and monoterpene ozonolysis toward SO<sub>2</sub> and organic acids. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 1214	1 <del>3:</del> 921	1536
229	Fragmentation vs. functionalization: chemical aging and organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 10553-10563	6.8	75
228	On the Mechanism for Nitrate Formation via the Peroxy Radical + NO Reaction. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 9082-9095	2.8	75
227	Controlled OH radical production via ozone-alkene reactions for use in aerosol aging studies. <i>Environmental Science &amp; Environmental Science &amp; Environ</i>	10.3	74
226	In situ nonmethane hydrocarbon measurements on SAGA 3. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 16915		74
225	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
224	Reducing secondary organic aerosol formation from gasoline vehicle exhaust. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 6984-6989	11.5	73
223	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. <i>Nature</i> , <b>2020</b> , 581, 184-189	50.4	7 <sup>2</sup>

222	Simulating the oxygen content of ambient organic aerosol with the 2D volatility basis set. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 7859-7873	6.8	71
221	Photo-oxidation of low-volatility organics found in motor vehicle emissions: production and chemical evolution of organic aerosol mass. <i>Environmental Science &amp; Environmental Science &amp; Environmental</i>	10.3	71
220	Functionalization and fragmentation during ambient organic aerosol aging: application of the 2-D volatility basis set to field studies. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 10797-10816	6.8	71
219	Organosulfates from pinene and isoprene over the Pearl River Delta, South China: seasonal variation and implication in formation mechanisms. <i>Environmental Science &amp; Environmental Science &amp; Environm</i>	10.3	70
218	Volatility of organic molecular markers used for source apportionment analysis: measurements and implications for atmospheric lifetime. <i>Environmental Science &amp; Environmental Science &amp; Environmental</i>	10.3	70
217	Insights into the primaryBecondary and regionalDocal contributions to organic aerosol and PM2.5 mass in Pittsburgh, Pennsylvania. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 7414-7433	5.3	70
216	Cycloalkene ozonolysis: collisionally mediated mechanistic branching. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 12363-73	16.4	70
215	Vapor wall loss of semi-volatile organic compounds in a Teflon chamber. <i>Aerosol Science and Technology</i> , <b>2016</b> , 50, 822-834	3.4	69
214	New Rate Constants for Ten OH Alkane Reactions from 300 to 400 K: An Assessment of Accuracy. Journal of Physical Chemistry A, <b>1998</b> , 102, 3121-3126	2.8	69
213	A naming convention for atmospheric organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 582	5 <del>558</del> 39	9 68
213	A naming convention for atmospheric organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 582  On the composition of ammonia ulfuric-acid ion clusters during aerosol particle formation. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 55-78	<b>56.5</b> 839	9 68 68
	On the composition of ammoniaBulfuric-acid ion clusters during aerosol particle formation.		
212	On the composition of ammonia ulfuric-acid ion clusters during aerosol particle formation.  Atmospheric Chemistry and Physics, 2015, 15, 55-78  Parameterization of secondary organic aerosol mass fractions from smog chamber data.	6.8	68
212	On the composition of ammonia ulfuric-acid ion clusters during aerosol particle formation.  Atmospheric Chemistry and Physics, 2015, 15, 55-78  Parameterization of secondary organic aerosol mass fractions from smog chamber data.  Atmospheric Environment, 2008, 42, 2276-2299  Temperature and pressure dependent kinetics of the gas-phase reaction of the hydroxyl radical	6.8 5·3	68
212 211 210	On the composition of ammonia ulfuric-acid ion clusters during aerosol particle formation.  Atmospheric Chemistry and Physics, 2015, 15, 55-78  Parameterization of secondary organic aerosol mass fractions from smog chamber data.  Atmospheric Environment, 2008, 42, 2276-2299  Temperature and pressure dependent kinetics of the gas-phase reaction of the hydroxyl radical with nitrogen dioxide. Geophysical Research Letters, 1999, 26, 687-690  Near-unity mass accommodation coefficient of organic molecules of varying structure.	6.8 5·3 4·9	<ul><li>68</li><li>66</li><li>66</li></ul>
212 211 210 209	On the composition of ammoniaBulfuric-acid ion clusters during aerosol particle formation.  Atmospheric Chemistry and Physics, 2015, 15, 55-78  Parameterization of secondary organic aerosol mass fractions from smog chamber data.  Atmospheric Environment, 2008, 42, 2276-2299  Temperature and pressure dependent kinetics of the gas-phase reaction of the hydroxyl radical with nitrogen dioxide. Geophysical Research Letters, 1999, 26, 687-690  Near-unity mass accommodation coefficient of organic molecules of varying structure.  Environmental Science & Damp; Technology, 2014, 48, 12083-9  Pressure dependence of stabilized Criegee intermediate formation from a sequence of alkenes.	6.8 5·3 4·9	<ul><li>68</li><li>66</li><li>66</li><li>65</li></ul>
212 211 210 209 208	On the composition of ammoniaBulfuric-acid ion clusters during aerosol particle formation.  Atmospheric Chemistry and Physics, 2015, 15, 55-78  Parameterization of secondary organic aerosol mass fractions from smog chamber data.  Atmospheric Environment, 2008, 42, 2276-2299  Temperature and pressure dependent kinetics of the gas-phase reaction of the hydroxyl radical with nitrogen dioxide. Geophysical Research Letters, 1999, 26, 687-690  Near-unity mass accommodation coefficient of organic molecules of varying structure.  Environmental Science & Dependence of Stabilized Criegee intermediate formation from a sequence of alkenes.  Journal of Physical Chemistry A, 2011, 115, 4381-7  New particle formation in the sulfuric acidiimethylamine Department of CLOUD chamber measurements and comparison to an aerosol nucleation and growth model. Atmospheric	6.8 5·3 4·9 10.3	<ul><li>68</li><li>66</li><li>66</li><li>65</li><li>64</li></ul>

## (2016-2013)

204	Secondary organic aerosol formation from photo-oxidation of unburned fuel: experimental results and implications for aerosol formation from combustion emissions. <i>Environmental Science &amp; Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 12886-93	10.3	61
203	Volatility of secondary organic aerosol during OH radical induced ageing. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 11055-11067	6.8	60
202	Testing Frontier Orbital Control: Kinetics of OH with Ethane, Propane, and Cyclopropane from 180 to 360K. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 9847-9857	2.8	57
201	Volatility and aging of atmospheric organic aerosol. <i>Topics in Current Chemistry</i> , <b>2014</b> , 339, 97-143		56
200	Secondary organic aerosol formation from multiphase oxidation of limonene by ozone: mechanistic constraints via two-dimensional heteronuclear NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 7810-8	3.6	56
199	Ozonolysis Fragment Quenching by Nitrate Formation: The Pressure Dependence of Prompt OH Radical Formation. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 9096-9104	2.8	56
198	Experimental particle formation rates spanning tropospheric sulfuric acid and ammonia abundances, ion production rates, and temperatures. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 12,377	4.4	54
197	Revisiting the Hammond Postulate: The Role of Reactant and Product Ionic States in Regulating Barrier Heights, Locations, and Transition State Frequencies Journal of Physical Chemistry A, 2001, 105, 1489-1497	2.8	52
196	Heterogeneous ice nucleation of viscous secondary organic aerosol produced from ozonolysis of <i>-pinene. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 6495-6509	6.8	51
195	Functionalization vs. fragmentation: n-aldehyde oxidation mechanisms and secondary organic aerosol formation. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 13975-82	3.6	51
194	Relating cloud condensation nuclei activity and oxidation level of pinene secondary organic aerosols. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		51
193	Oligomer formation within secondary organic aerosols: equilibrium and dynamic considerations. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 3691-3701	6.8	50
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76	Uptake of Semivolatile Secondary Organic Aerosol Formed from Pinene into Nonvolatile Polyethylene Glycol Probe Particles. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 1459-67	2.8	6
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59	Gas-Phase Organic Oxidation Chemistry and Atmospheric Particles <b>2019</b> , 199-317		3
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57	Secondary aerosol formation from photochemical aging of aircraft exhaust in a smog chamber		3
56	Quantification of the volatility of secondary organic compounds in ultrafine particles during nucleation events		3
55	Photo-oxidation of pinonaldehyde at low NO <sub>x</sub> : from chemistry to organic aerosol formation		3
54	High formation of secondary organic aerosol from the photo-oxidation of toluene		3
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51	The driving factors of new particle formation and growth in the polluted boundary layer		3
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47	New particle formation in the sulfuric acid-dimethy lamine-water system: Reevaluation of CLOUD chamber measurements and comparison to an aerosol nucleation and growth model		2
46	Anthropogenic influence on biogenic secondary organic aerosol		2
45	Water content of aged aerosol		2
44	Sources and atmospheric processing of organic aerosol in the Mediterranean: insights from aerosol mass spectrometer factor analysis		2
43	Organic condensation 🗈 vital link connecting aerosol formation to climate forcing		2

42	Absorptivity of brown carbon in fresh and photo-chemically aged biomass-burning emissions		2
41	Heterogeneous ice nucleation of viscous secondary organic aerosol produced from ozonolysis of pinene	e	2
40	Experimental investigation of ion-ion recombination at atmospheric conditions		2
39	Ozonolysis of Dinene: parameterization of secondary organic aerosol mass fraction		2
38	Collection efficiency of Dinene secondary organic aerosol particles explored via light scattering single particle aerosol mass spectrometry		2
37	Aged organic aerosol in the Eastern Mediterranean: the Finokalia aerosol measurement experiment-200	)8	2
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17	Modeling the influence of precursor volatility and molecular structure on secondary organic aerosol formation using evaporated fuel experiments		1
16	Thermodynamics of the formation of sulfuric acid dimers in the binary (H <sub>2</sub> SO <sub>4</sub> -H <sub>2</sub> O) and ternary (H <sub>2</sub> SO <sub>4</sub> -H <sub>2</sub> O-NH <sub>3&amp;l</sub>	t;/sub&	1 gt;) system
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