Nga Lee Ng

List of Publications by Year
in descending order

110 papers	12,785 citations	29994 54 h-index	28224 105 g-index
149 all docs	149 docs citations	149 times ranked	6557 citing authors

#	Article	IF	Citations
1	Understanding atmospheric organic aerosols via factor analysis of aerosol mass spectrometry: a review. Analytical and Bioanalytical Chemistry, 2011, 401, 3045-3067.	1.9	764
2	Secondary Organic Aerosol Formation from Isoprene Photooxidation. Environmental Science & Technology, 2006, 40, 1869-1877.	4.6	734
3	Chemical Composition of Secondary Organic Aerosol Formed from the Photooxidation of Isoprene. Journal of Physical Chemistry A, 2006, 110, 9665-9690.	1.1	611
4	Evidence for Organosulfates in Secondary Organic Aerosol. Environmental Science & Technology, 2007, 41, 517-527.	4.6	591
5	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. Reviews of Geophysics, 2017, 55, 509-559.	9.0	548
6	Effects of anthropogenic emissions on aerosol formation from isoprene and monoterpenes in the southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 37-42.	3.3	496
7	Fine-particle water and pH in the southeastern United States. Atmospheric Chemistry and Physics, 2015, 15, 5211-5228.	1.9	413
8	Particle Phase Acidity and Oligomer Formation in Secondary Organic Aerosol. Environmental Science & Technology, 2004, 38, 6582-6589.	4.6	359
9	Contribution of First- versus Second-Generation Products to Secondary Organic Aerosols Formed in the Oxidation of Biogenic Hydrocarbons. Environmental Science & Technology, 2006, 40, 2283-2297.	4.6	341
10	Gas-phase products and secondary aerosol yields from the photooxidation of 16 different terpenes. Journal of Geophysical Research, 2006, 111, .	3.3	332
11	Chamber studies of secondary organic aerosol growth by reactive uptake of simple carbonyl compounds. Journal of Geophysical Research, 2005, 110, .	3.3	316
12	Low-Molecular-Weight and Oligomeric Components in Secondary Organic Aerosol from the Ozonolysis of Cycloalkenes and Î±-Pinene. Journal of Physical Chemistry A, 2004, 108, 10147-10164.	1.1	308
13	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. Atmospheric Chemistry and Physics, 2017, 17, 2103-2162.	1.9	307
14	Contribution of Nitrated Phenols to Wood Burning Brown Carbon Light Absorption in Detling, United Kingdom during Winter Time. Environmental Science & Technology, 2013, 47, 6316-6324.	4.6	304
15	Secondary organic aerosol formation from isoprene photooxidation under high-NOxconditions. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	297
16	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1516-1521.	3.3	269
17	Enhanced light absorption by mixed source black and brown carbon particles in UK winter. Nature Communications, 2015, 6, 8435.	5.8	266
18	Aerosol characterization over the southeastern United States using high-resolution aerosol mass spectrometry: spatial and seasonal variation of aerosol composition and sources with a focus on organic nitrates. Atmospheric Chemistry and Physics, 2015, 15, 7307-7336.	1.9	259

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19	Organic Aerosols Associated with the Generation of Reactive Oxygen Species (ROS) by Water-Soluble PM_{2.5}. Environmental Science & Technology, 2015, 49, 4646-4656.	4.6	259
20	Gas-phase products and secondary aerosol yields from the ozonolysis of ten different terpenes. Journal of Geophysical Research, 2006, 111, .	3.3	237
21	Secondary organic aerosol formation from the Î²-pinene+NO₃ system: effect of humidity and peroxy radical fate. Atmospheric Chemistry and Physics, 2015, 15, 7497-7522.	1.9	203
22	On the implications of aerosol liquid water and phase separation for organic aerosol mass. Atmospheric Chemistry and Physics, 2017, 17, 343-369.	1.9	189
23	Hygroscopicity of Water-Soluble Organic Compounds in Atmospheric Aerosols:â€‰ Amino Acids and Biomass Burning Derived Organic Species. Environmental Science & Technology, 2005, 39, 1555-1562.	4.6	182
24	Modeling the Current and Future Roles of Particulate Organic Nitrates in the Southeastern United States. Environmental Science & Technology, 2015, 49, 14195-14203.	4.6	147
25	Chemical oxidative potential of secondary organic aerosol (SOA) generated from the photooxidation of biogenic and anthropogenic volatile organic compounds. Atmospheric Chemistry and Physics, 2017, 17, 839-853.	1.9	135
26	Reactions of Semivolatile Organics and Their Effects on Secondary Organic Aerosol Formation. Environmental Science & Technology, 2007, 41, 3545-3550.	4.6	129
27	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, 101-116.	0.7	125
28	Particulate organic acids and overall waterâ€soluble aerosol composition measurements from the 2006 Gulf of Mexico Atmospheric Composition and Climate Study (GoMACCS). Journal of Geophysical Research, 2007, 112, .	3.3	121
29	Cloud condensation nucleus activation properties of biogenic secondary organic aerosol. Journal of Geophysical Research, 2005, 110, .	3.3	110
30	Semivolatile POA and parameterized total combustion SOA in CMAQv5.2: impacts on source strength and partitioning. Atmospheric Chemistry and Physics, 2017, 17, 11107-11133.	1.9	109
31	Secondary organic aerosol yields of 12-carbon alkanes. Atmospheric Chemistry and Physics, 2014, 14, 1423-1439.	1.9	100
32	Effects of NO_xon the Volatility of Secondary Organic Aerosol from Isoprene Photooxidation. Environmental Science & Technology, 2014, 48, 2253-2262.	4.6	99
33	On the link between hygroscopicity, volatility, and oxidation state of ambient and water-soluble aerosols in the southeastern United States. Atmospheric Chemistry and Physics, 2015, 15, 8679-8694.	1.9	98
34	Photochemical Aging of Î±-pinene and Î²-pinene Secondary Organic Aerosol formed from Nitrate Radical Oxidation. Environmental Science & Technology, 2016, 50, 222-231.	4.6	95
35	Characteristics, sources and water-solubility of ambient submicron organic aerosol in springtime in Helsinki, Finland. Journal of Aerosol Science, 2013, 56, 61-77.	1.8	89
36	Aerosol optical properties in the southeastern United States in summer â€“ PartÂ1: Hygroscopic growth. Atmospheric Chemistry and Physics, 2016, 16, 4987-5007.	1.9	88

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37	Characterization of aerosol composition, aerosol acidity, and organic acid partitioning at an agriculturally intensive rural southeastern US site. Atmospheric Chemistry and Physics, 2018, 18, 11471-11491.	1.9	88
38	Reactive uptake of N₂O₅ to internally mixed inorganic and organic particles: the role of organic carbon oxidation state and inferred organic phase separations. Atmospheric Chemistry and Physics, 2014, 14, 5693-5707.	1.9	84
39	Chemical composition, main sources and temporal variability of PM₁ aerosols in southern African grassland. Atmospheric Chemistry and Physics, 2014, 14, 1909-1927.	1.9	81
40	Secondary Organic Aerosol Formation from Low-NO_x Photooxidation of Dodecane: Evolution of Multigeneration Gas-Phase Chemistry and Aerosol Composition. Journal of Physical Chemistry A, 2012, 116, 6211-6230.	1.1	79
41	Experimental and model estimates of the contributions from biogenic monoterpenes and sesquiterpenes to secondary organic aerosol in the southeastern United States. Atmospheric Chemistry and Physics, 2018, 18, 12613-12637.	1.9	78
42	Molecular-Size-Separated Brown Carbon Absorption for Biomass-Burning Aerosol at Multiple Field Sites. Environmental Science & Technology, 2017, 51, 3128-3137.	4.6	77
43	Chemical Characterization of Water-Soluble Organic Aerosol in Contrasting Rural and Urban Environments in the Southeastern United States. Environmental Science & Technology, 2017, 51, 78-88.	4.6	77
44	Influence of seed aerosol surface area and oxidation rate on vapor wall deposition and SOA mass yields: a case study with <i>Î±</i>-pinene ozonolysis. Atmospheric Chemistry and Physics, 2016, 16, 9361-9379.	1.9	75
45	The Essential Role for Laboratory Studies in Atmospheric Chemistry. Environmental Science & Technology, 2017, 51, 2519-2528.	4.6	75
46	Advanced source apportionment of size-resolved trace elements at multiple sites in London during winter. Atmospheric Chemistry and Physics, 2015, 15, 11291-11309.	1.9	71
47	Secondary Organic Aerosol (SOA) from Nitrate Radical Oxidation of Monoterpenes: Effects of Temperature, Dilution, and Humidity on Aerosol Formation, Mixing, and Evaporation. Environmental Science & Technology, 2017, 51, 7831-7841.	4.6	71
48	CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: seasonal and diel variations and impact of anthropogenic emissions. Atmospheric Chemistry and Physics, 2017, 17, 11779-11801.	1.9	71
49	Intercomparison of an Aerosol Chemical Speciation Monitor (ACSM) with ambient fine aerosol measurements in downtown Atlanta, Georgia. Atmospheric Measurement Techniques, 2014, 7, 1929-1941.	1.2	70
50	Inflammatory responses to secondary organic aerosolsÂ(SOA) generated from biogenic and anthropogenic precursors. Atmospheric Chemistry and Physics, 2017, 17, 11423-11440.	1.9	67
51	Evaluating the degree of oxygenation of organic aerosol during foggy and hazy days in Hong Kong using high-resolution time-of-flight aerosol mass spectrometry (HR-ToF-AMS). Atmospheric Chemistry and Physics, 2013, 13, 8739-8753.	1.9	66
52	Coupling of organic and inorganic aerosol systems and the effect on gasâ€“particle partitioning in the southeastern US. Atmospheric Chemistry and Physics, 2018, 18, 357-370.	1.9	66
53	Chemical composition and hydrolysis of organic nitrate aerosol formed from hydroxyl and nitrate radical oxidation of <i>Î±</i>-pinene and <i>Î²</i>-pinene. Atmospheric Chemistry and Physics, 2019, 19, 12749-12766.	1.9	66
54	Dose-dependent intracellular reactive oxygen and nitrogen species (ROS/RNS) production from particulate matter exposure: comparison to oxidative potential and chemical composition. Atmospheric Environment, 2016, 144, 335-344.	1.9	62

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55	Simulating secondary organic aerosol from missing diesel-related intermediate-volatility organic compound emissions during the Clean Air for LondonÂ(ClearfLo) campaign. Atmospheric Chemistry and Physics, 2016, 16, 6453-6473.	1.9	60
56	Ambient Measurements of Highly Oxidized Gas-Phase Molecules during the Southern Oxidant and Aerosol Study (SOAS) 2013. ACS Earth and Space Chemistry, 2018, 2, 653-672.	1.2	56
57	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, 2245-2254.	4.6	53
58	Enhanced formation of isopreneâ€derived organic aerosol in sulfurâ€rich power plant plumes during Southeast Nexus. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,137.	1.2	50
59	Constraining uncertainties in particle-wall deposition correction during SOA formation in chamber experiments. Atmospheric Chemistry and Physics, 2017, 17, 2297-2310.	1.9	50
60	Effect of chemical structure on secondary organic aerosol formation from C₁₂ alkanes. Atmospheric Chemistry and Physics, 2013, 13, 11121-11140.	1.9	48
61	Kerb and urban increment of highly time-resolved trace elements in PM₁₀, PM_{2.5} and PM_{1.0} winter aerosol in London during ClearfLo 2012. Atmospheric Chemistry and Physics, 2015, 15, 2367-2386.	1.9	46
62	Estimating the contribution of organic acids to northern hemispheric continental organic aerosol. Geophysical Research Letters, 2015, 42, 6084-6090.	1.5	43
63	Analysis of secondary organic aerosol formation and aging using positive matrix factorization of high-resolution aerosol mass spectra: application to the dodecane low-NO_x system. Atmospheric Chemistry and Physics, 2012, 12, 11795-11817.	1.9	42
64	Chemical characterization of secondary organic aerosol at a rural site in the southeastern US: insights from simultaneous high-resolution time-of-flight aerosol mass spectrometer (HR-ToF-AMS) and FIGAERO chemical ionization mass spectrometer (CIMS) measurements. Atmospheric Chemistry and Physics, 2020, 20, 8421-8440.	1.9	42
65	Response of the Aerodyne Aerosol Mass Spectrometer to Inorganic Sulfates and Organosulfur Compounds: Applications in Field and Laboratory Measurements. Environmental Science & Technology, 2019, 53, 5176-5186.	4.6	41
66	Isoprene suppression of new particle formation: Potential mechanisms and implications. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,621.	1.2	37
67	Chemical and cellular oxidant production induced by naphthalene secondary organic aerosol (SOA): effect of redox-active metals and photochemical aging. Scientific Reports, 2017, 7, 15157.	1.6	37
68	Southeast Atmosphere Studies: learning from model-observation syntheses. Atmospheric Chemistry and Physics, 2018, 18, 2615-2651.	1.9	36
69	Chemical Oxidative Potential and Cellular Oxidative Stress from Open Biomass Burning Aerosol. Environmental Science and Technology Letters, 2019, 6, 126-132.	3.9	36
70	Secondary Organic Aerosol Formation from Reaction of 3-Methylfuran with Nitrate Radicals. ACS Earth and Space Chemistry, 2019, 3, 922-934.	1.2	33
71	Nontargeted Tandem Mass Spectrometry Analysis Reveals Diversity and Variability in Aerosol Functional Groups across Multiple Sites, Seasons, and Times of Day. Environmental Science and Technology Letters, 2020, 7, 60-69.	3.9	33
72	Wintertime aerosol chemical composition, volatility, and spatial variability in the greater London area. Atmospheric Chemistry and Physics, 2016, 16, 1139-1160.	1.9	32

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73	Quantifying the volatility of organic aerosol in the southeastern US. Atmospheric Chemistry and Physics, 2017, 17, 501-520.	1.9	32
74	A new technique for the direct detection of HO₂ radicals using bromide chemical ionization mass spectrometry (Br-CIMS): initial characterization. Atmospheric Measurement Techniques, 2016, 9, 3851-3861.	1.2	31
75	Low-Molecular-Weight Carboxylic Acids in the Southeastern U.S.: Formation, Partitioning, and Implications for Organic Aerosol Aging. Environmental Science & Technology, 2021, 55, 6688-6699.	4.6	30
76	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. Atmospheric Chemistry and Physics, 2013, 13, 8991-9019.	1.9	27
77	An omnipresent diversity and variability in the chemical composition of atmospheric functionalized organic aerosol. Communications Chemistry, 2018, 1, .	2.0	25
78	Source apportionment of organic carbon in Centreville, AL using organosulfates in organic tracer-based positive matrix factorization. Atmospheric Environment, 2018, 186, 74-88.	1.9	24
79	Evaluation of particle filtration efficiency of commercially available materials for homemade face mask usage. Aerosol Science and Technology, 2021, 55, 930-942.	1.5	24
80	Composition and Sources of the Organic Particle Emissions from Aircraft Engines. Aerosol Science and Technology, 2014, 48, 61-73.	1.5	23
81	Organic aerosol in the summertime southeastern United States: components and their link to volatility distribution, oxidation stateÂandÂhygroscopicity. Atmospheric Chemistry and Physics, 2018, 18, 5799-5819.	1.9	22
82	Effects of Molecular-Level Compositional Variability in Organic Aerosol on Phase State and Thermodynamic Mixing Behavior. Environmental Science & Technology, 2019, 53, 13009-13018.	4.6	22
83	Prominent Contribution of Hydrogen Peroxide to Intracellular Reactive Oxygen Species Generated upon Exposure to Naphthalene Secondary Organic Aerosols. Environmental Science and Technology Letters, 2020, 7, 171-177.	3.9	22
84	Organic aerosol volatility and viscosity in the North China Plain: contrast between summer and winter. Atmospheric Chemistry and Physics, 2021, 21, 5463-5476.	1.9	22
85	Particle Size Distribution Dynamics Can Help Constrain the Phase State of Secondary Organic Aerosol. Environmental Science & Technology, 2021, 55, 1466-1476.	4.6	22
86	Modeling biogenic secondary organic aerosol (BSOA) formation from monoterpene reactions with NO3: A case study of the SOAS campaign using CMAQ. Atmospheric Environment, 2018, 184, 146-155.	1.9	21
87	Critical Role of Simultaneous Reduction of Atmospheric Odd Oxygen for Winter Haze Mitigation. Environmental Science & Technology, 2021, 55, 11557-11567.	4.6	21
88	Room-level ventilation in schools and universities. Atmospheric Environment: X, 2022, 13, 100152.	0.8	21
89	Synthesis and Hydrolysis of Atmospherically Relevant Monoterpene-Derived Organic Nitrates. Environmental Science & Technology, 2021, 55, 14595-14606.	4.6	20
90	Formation of Oxidized Gases and Secondary Organic Aerosol from a Commercial Oxidant-Generating Electronic Air Cleaner. Environmental Science and Technology Letters, 2021, 8, 691-698.	3.9	17

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91	Real-time measurements of gas-phase organic acids using SF₆^{â^'} chemical ionization mass spectrometry. Atmospheric Measurement Techniques, 2018, 11, 5087-5104.	1.2	16
92	Characterization of thermal decomposition of oxygenated organic compounds in FIGAERO-CIMS. Aerosol Science and Technology, 2021, 55, 1321-1342.	1.5	16
93	Evaluation of a New Aerosol Chemical Speciation Monitor (ACSM) System at an Urban Site in Atlanta, GA: The Use of Capture Vaporizer and PM_{2.5} Inlet. ACS Earth and Space Chemistry, 2021, 5, 2565-2576.	1.2	16
94	Regional Similarities and NO x â€Related Increases in Biogenic Secondary Organic Aerosol in Summertime Southeastern United States. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10620-10636.	1.2	14
95	Long-term observational constraints of organic aerosol dependence on inorganic species in the southeast US. Atmospheric Chemistry and Physics, 2020, 20, 13091-13107.	1.9	14
96	Kinetic modeling of formation and evaporation of secondary organic aerosol from NO₃ oxidation of pure and mixed monoterpenes. Atmospheric Chemistry and Physics, 2020, 20, 15513-15535.	1.9	14
97	Mixing order of sulfate aerosols and isoprene epoxydiols affects secondary organic aerosol formation in chamber experiments. Atmospheric Environment, 2019, 217, 116953.	1.9	12
98	Estimation of particulate organic nitrates from thermodenuderâ€“aerosol mass spectrometer measurements in the North China Plain. Atmospheric Measurement Techniques, 2021, 14, 3693-3705.	1.2	12
99	Modelling carbonaceous aerosol from residential solid fuel burning with different assumptions for emissions. Atmospheric Chemistry and Physics, 2018, 18, 4497-4518.	1.9	11
100	Time-Resolved Single-Cell Assay for Measuring Intracellular Reactive Oxygen Species upon Exposure to Ambient Particulate Matter. Environmental Science & Technology, 2020, 54, 13121-13130.	4.6	10
101	Size-resolved characterization of organic aerosol in the North China Plain: new insights from high resolution spectral analysis. Environmental Science Atmospheres, 2021, 1, 346-358.	0.9	8
102	Quantifying organic matter and functional groups in particulate matter filter samples from the southeastern United States â€“ Part 2: Spatiotemporal trends. Atmospheric Measurement Techniques, 2021, 14, 4355-4374.	1.2	6
103	Novel Application of Machine Learning Techniques for Rapid Source Apportionment of Aerosol Mass Spectrometer Datasets. ACS Earth and Space Chemistry, 2022, 6, 932-942.	1.2	6
104	Emerging applications of microfluidic techniques for inÂvitro toxicity studies of atmospheric particulate matter. Aerosol Science and Technology, 2021, 55, 623-639.	1.5	5
105	Emissions, chemistry or bidirectional surface transfer? Gas phase formic acid dynamics in the atmosphere. Atmospheric Environment, 2022, 274, 118995.	1.9	5
106	Aerosol Vacuum-Assisted Plasma Ionization (Aero-VaPI) Coupled to Ion Mobility-Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2018, 29, 635-639.	1.2	4
107	Parameterized Yields of Semivolatile Products from Isoprene Oxidation under Different NO_x Levels: Impacts of Chemical Aging and Wall-Loss of Reactive Gases. Environmental Science & Technology, 2018, 52, 9225-9234.	4.6	3
108	Inâ€flight particulate matter concentrations in commercial flights are likely lower than other indoor environments. Indoor Air, 2021, 31, 1484-1494.	2.0	3

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109	Derivation of Hydroperoxyl Radical Levels at an Urban Site via Measurement of Pernitric Acid by Iodide Chemical Ionization Mass Spectrometry. Environmental Science & Technology, 2017, 51, 3355-3363.	4.6	2
110	Investigating the Sources of Urban Air Pollution Using Low-Cost Air Quality Sensors at an Urban Atlanta Site. Environmental Science & Technology, 2022, 56, 7063-7073.	4.6	2