

Nga Lee Ng

List of Publications by Year in descending order

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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	Room-level ventilation in schools and universities. <i>Atmospheric Environment: X</i> , 2022, 13, 100152.	0.8	21
2	Emissions, chemistry or bidirectional surface transfer? Gas phase formic acid dynamics in the atmosphere. <i>Atmospheric Environment</i> , 2022, 274, 118995.	1.9	5
3	Investigating the Sources of Urban Air Pollution Using Low-Cost Air Quality Sensors at an Urban Atlanta Site. <i>Environmental Science & Technology</i> , 2022, 56, 7063-7073.	4.6	2
4	Novel Application of Machine Learning Techniques for Rapid Source Apportionment of Aerosol Mass Spectrometer Datasets. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 932-942.	1.2	6
5	Size-resolved characterization of organic aerosol in the North China Plain: new insights from high resolution spectral analysis. <i>Environmental Science Atmospheres</i> , 2021, 1, 346-358.	0.9	8
6	In-flight particulate matter concentrations in commercial flights are likely lower than other indoor environments. <i>Indoor Air</i> , 2021, 31, 1484-1494.	2.0	3
7	Emerging applications of microfluidic techniques for <i>in vitro</i> toxicity studies of atmospheric particulate matter. <i>Aerosol Science and Technology</i> , 2021, 55, 623-639.	1.5	5
8	Low-Molecular-Weight Carboxylic Acids in the Southeastern U.S.: Formation, Partitioning, and Implications for Organic Aerosol Aging. <i>Environmental Science & Technology</i> , 2021, 55, 6688-6699.	4.6	30
9	Organic aerosol volatility and viscosity in the North China Plain: contrast between summer and winter. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5463-5476.	1.9	22
10	Evaluation of particle filtration efficiency of commercially available materials for homemade face mask usage. <i>Aerosol Science and Technology</i> , 2021, 55, 930-942.	1.5	24
11	Estimation of particulate organic nitrates from thermodynamic aerosol mass spectrometer measurements in the North China Plain. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3693-3705.	1.2	12
12	Quantifying organic matter and functional groups in particulate matter filter samples from the southeastern United States – Part 2: Spatiotemporal trends. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4355-4374.	1.2	6
13	Characterization of thermal decomposition of oxygenated organic compounds in FIGAERO-CIMS. <i>Aerosol Science and Technology</i> , 2021, 55, 1321-1342.	1.5	16
14	Formation of Oxidized Gases and Secondary Organic Aerosol from a Commercial Oxidant-Generating Electronic Air Cleaner. <i>Environmental Science and Technology Letters</i> , 2021, 8, 691-698.	3.9	17
15	Critical Role of Simultaneous Reduction of Atmospheric Odd Oxygen for Winter Haze Mitigation. <i>Environmental Science & Technology</i> , 2021, 55, 11557-11567.	4.6	21
16	Particle Size Distribution Dynamics Can Help Constrain the Phase State of Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2021, 55, 1466-1476.	4.6	22
17	Synthesis and Hydrolysis of Atmospherically Relevant Monoterpene-Derived Organic Nitrates. <i>Environmental Science & Technology</i> , 2021, 55, 14595-14606.	4.6	20
18	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. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2565-2576.	1.2	16

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19	Time-Resolved Single-Cell Assay for Measuring Intracellular Reactive Oxygen Species upon Exposure to Ambient Particulate Matter. <i>Environmental Science & Technology</i> , 2020, 54, 13121-13130.	4.6	10
20	Nontargeted Tandem Mass Spectrometry Analysis Reveals Diversity and Variability in Aerosol Functional Groups across Multiple Sites, Seasons, and Times of Day. <i>Environmental Science and Technology Letters</i> , 2020, 7, 60-69.	3.9	33
21	Prominent Contribution of Hydrogen Peroxide to Intracellular Reactive Oxygen Species Generated upon Exposure to Naphthalene Secondary Organic Aerosols. <i>Environmental Science and Technology Letters</i> , 2020, 7, 171-177.	3.9	22
22	Long-term observational constraints of organic aerosol dependence on inorganic species in the southeast US. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13091-13107.	1.9	14
23	Kinetic modeling of formation and evaporation of secondary organic aerosol from NO ₂ oxidation of pure and mixed monoterpenes. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15513-15535.	1.9	14
24	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. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8421-8440.	1.9	42
25	Effects of Molecular-Level Compositional Variability in Organic Aerosol on Phase State and Thermodynamic Mixing Behavior. <i>Environmental Science & Technology</i> , 2019, 53, 13009-13018.	4.6	22
26	Secondary Organic Aerosol Formation from Reaction of 3-Methylfuran with Nitrate Radicals. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 922-934.	1.2	33
27	Response of the Aerodyne Aerosol Mass Spectrometer to Inorganic Sulfates and Organosulfur Compounds: Applications in Field and Laboratory Measurements. <i>Environmental Science & Technology</i> , 2019, 53, 5176-5186.	4.6	41
28	Chemical Oxidative Potential and Cellular Oxidative Stress from Open Biomass Burning Aerosol. <i>Environmental Science and Technology Letters</i> , 2019, 6, 126-132.	3.9	36
29	Mixing order of sulfate aerosols and isoprene epoxydiols affects secondary organic aerosol formation in chamber experiments. <i>Atmospheric Environment</i> , 2019, 217, 116953.	1.9	12
30	Chemical composition and hydrolysis of organic nitrate aerosol formed from hydroxyl and nitrate radical oxidation of α -pinene and β -pinene. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12749-12766.	1.9	66
31	Modeling biogenic secondary organic aerosol (BSOA) formation from monoterpene reactions with NO ₃ : A case study of the SOAS campaign using CMAQ. <i>Atmospheric Environment</i> , 2018, 184, 146-155.	1.9	21
32	Aerosol Vacuum-Assisted Plasma Ionization (Aero-VaPI) Coupled to Ion Mobility-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 635-639.	1.2	4
33	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2615-2651.	1.9	36
34	Coupling of organic and inorganic aerosol systems and the effect on gas-particle partitioning in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 357-370.	1.9	66
35	Modelling carbonaceous aerosol from residential solid fuel burning with different assumptions for emissions. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4497-4518.	1.9	11
36	Organic aerosol in the summertime southeastern United States: components and their link to volatility distribution, oxidation state and hygroscopicity. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5799-5819.	1.9	22

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37	Real-time measurements of gas-phase organic acids using SF ₆ chemical ionization mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5087-5104.	1.2	16
38	An omnipresent diversity and variability in the chemical composition of atmospheric functionalized organic aerosol. <i>Communications Chemistry</i> , 2018, 1, .	2.0	25
39	Experimental and model estimates of the contributions from biogenic monoterpenes and sesquiterpenes to secondary organic aerosol in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12613-12637.	1.9	78
40	Source apportionment of organic carbon in Centreville, AL using organosulfates in organic tracer-based positive matrix factorization. <i>Atmospheric Environment</i> , 2018, 186, 74-88.	1.9	24
41	Parameterized Yields of Semivolatile Products from Isoprene Oxidation under Different NO _x Levels: Impacts of Chemical Aging and Wall-Loss of Reactive Gases. <i>Environmental Science & Technology</i> , 2018, 52, 9225-9234.	4.6	3
42	Ambient Measurements of Highly Oxidized Gas-Phase Molecules during the Southern Oxidant and Aerosol Study (SOAS) 2013. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 653-672.	1.2	56
43	Regional Similarities and NO _x -Related Increases in Biogenic Secondary Organic Aerosol in Summertime Southeastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 10620-10636.	1.2	14
44	Characterization of aerosol composition, aerosol acidity, and organic acid partitioning at an agriculturally intensive rural southeastern US site. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11471-11491.	1.9	88
45	Molecular-Size-Separated Brown Carbon Absorption for Biomass-Burning Aerosol at Multiple Field Sites. <i>Environmental Science & Technology</i> , 2017, 51, 3128-3137.	4.6	77
46	Derivation of Hydroperoxyl Radical Levels at an Urban Site via Measurement of Pernitric Acid by Iodide Chemical Ionization Mass Spectrometry. <i>Environmental Science & Technology</i> , 2017, 51, 3355-3363.	4.6	2
47	The Essential Role for Laboratory Studies in Atmospheric Chemistry. <i>Environmental Science & Technology</i> , 2017, 51, 2519-2528.	4.6	75
48	Secondary Organic Aerosol (SOA) from Nitrate Radical Oxidation of Monoterpenes: Effects of Temperature, Dilution, and Humidity on Aerosol Formation, Mixing, and Evaporation. <i>Environmental Science & Technology</i> , 2017, 51, 7831-7841.	4.6	71
49	Chemical Characterization of Water-Soluble Organic Aerosol in Contrasting Rural and Urban Environments in the Southeastern United States. <i>Environmental Science & Technology</i> , 2017, 51, 78-88.	4.6	77
50	Chemical and cellular oxidant production induced by naphthalene secondary organic aerosol (SOA): effect of redox-active metals and photochemical aging. <i>Scientific Reports</i> , 2017, 7, 15157.	1.6	37
51	On the implications of aerosol liquid water and phase separation for organic aerosol mass. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 343-369.	1.9	189
52	Inflammatory responses to secondary organic aerosols (SOA) generated from biogenic and anthropogenic precursors. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11423-11440.	1.9	67
53	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2103-2162.	1.9	307
54	Chemical oxidative potential of secondary organic aerosol (SOA) generated from the photooxidation of biogenic and anthropogenic volatile organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 839-853.	1.9	135

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55	Semivolatile POA and parameterized total combustion SOA in CMAQv5.2: impacts on source strength and partitioning. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11107-11133.	1.9	109
56	CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: seasonal and diel variations and impact of anthropogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11779-11801.	1.9	71
57	Constraining uncertainties in particle-wall deposition correction during SOA formation in chamber experiments. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2297-2310.	1.9	50
58	Quantifying the volatility of organic aerosol in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 501-520.	1.9	32
59	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. <i>Reviews of Geophysics</i> , 2017, 55, 509-559.	9.0	548
60	A new technique for the direct detection of HO ₂ radicals using bromide chemical ionization mass spectrometry (Br-CIMS): initial characterization. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3851-3861.	1.2	31
61	Isoprene suppression of new particle formation: Potential mechanisms and implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,621.	1.2	37
62	Dose-dependent intracellular reactive oxygen and nitrogen species (ROS/RNS) production from particulate matter exposure: comparison to oxidative potential and chemical composition. <i>Atmospheric Environment</i> , 2016, 144, 335-344.	1.9	62
63	Enhanced formation of isoprene-derived organic aerosol in sulfur-rich power plant plumes during Southeast Nexus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,137.	1.2	50
64	Wintertime aerosol chemical composition, volatility, and spatial variability in the greater London area. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1139-1160.	1.9	32
65	Aerosol optical properties in the southeastern United States in summer – Part 1: Hygroscopic growth. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4987-5007.	1.9	88
66	Simulating secondary organic aerosol from missing diesel-related intermediate-volatility organic compound emissions during the Clean Air for London (ClearLo) campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6453-6473.	1.9	60
67	Influence of seed aerosol surface area and oxidation rate on vapor wall deposition and SOA mass yields: a case study with α -pinene ozonolysis. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9361-9379.	1.9	75
68	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1516-1521.	3.3	269
69	Photochemical Aging of α -pinene and β -pinene Secondary Organic Aerosol formed from Nitrate Radical Oxidation. <i>Environmental Science & Technology</i> , 2016, 50, 222-231.	4.6	95
70	Estimating the contribution of organic acids to northern hemispheric continental organic aerosol. <i>Geophysical Research Letters</i> , 2015, 42, 6084-6090.	1.5	43
71	Fine-particle water and pH in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5211-5228.	1.9	413
72	Secondary organic aerosol formation from the β -pinene+NO ₃ system: effect of humidity and peroxy radical fate. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7497-7522.	1.9	203

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73	On the link between hygroscopicity, volatility, and oxidation state of ambient and water-soluble aerosols in the southeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8679-8694.	1.9	98
74	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. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7307-7336.	1.9	259
75	Advanced source apportionment of size-resolved trace elements at multiple sites in London during winter. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11291-11309.	1.9	71
76	Kerb and urban increment of highly time-resolved trace elements in PM ₁₀ , PM _{2.5} and PM _{1.0} ; winter aerosol in London during ClearLo 2012. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2367-2386.	1.9	46
77	Modeling the Current and Future Roles of Particulate Organic Nitrates in the Southeastern United States. <i>Environmental Science & Technology</i> , 2015, 49, 14195-14203.	4.6	147
78	Effects of anthropogenic emissions on aerosol formation from isoprene and monoterpenes in the southeastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 37-42.	3.3	496
79	Evaluation of One-Dimensional and Two-Dimensional Volatility Basis Sets in Simulating the Aging of Secondary Organic Aerosol with Smog-Chamber Experiments. <i>Environmental Science & Technology</i> , 2015, 49, 2245-2254.	4.6	53
80	Organic Aerosols Associated with the Generation of Reactive Oxygen Species (ROS) by Water-Soluble PM _{2.5} . <i>Environmental Science & Technology</i> , 2015, 49, 4646-4656.	4.6	259
81	Enhanced light absorption by mixed source black and brown carbon particles in UK winter. <i>Nature Communications</i> , 2015, 6, 8435.	5.8	266
82	Intercomparison of an Aerosol Chemical Speciation Monitor (ACSM) with ambient fine aerosol measurements in downtown Atlanta, Georgia. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1929-1941.	1.2	70
83	Composition and Sources of the Organic Particle Emissions from Aircraft Engines. <i>Aerosol Science and Technology</i> , 2014, 48, 61-73.	1.5	23
84	Effects of NO _x on the Volatility of Secondary Organic Aerosol from Isoprene Photooxidation. <i>Environmental Science & Technology</i> , 2014, 48, 2253-2262.	4.6	99
85	Secondary organic aerosol yields of 12-carbon alkanes. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1423-1439.	1.9	100
86	Chemical composition, main sources and temporal variability of PM ₁ aerosols in southern African grassland. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1909-1927.	1.9	81
87	Reactive uptake of N ₂ O ₅ to internally mixed inorganic and organic particles: the role of organic carbon oxidation state and inferred organic phase separations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5693-5707.	1.9	84
88	Characteristics, sources and water-solubility of ambient submicron organic aerosol in springtime in Helsinki, Finland. <i>Journal of Aerosol Science</i> , 2013, 56, 61-77.	1.8	89
89	Contribution of Nitrated Phenols to Wood Burning Brown Carbon Light Absorption in Detling, United Kingdom during Winter Time. <i>Environmental Science & Technology</i> , 2013, 47, 6316-6324.	4.6	304
90	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). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8739-8753.	1.9	66

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91	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. Atmospheric Chemistry and Physics, 2013, 13, 8991-9019.	1.9	27
92	Effect of chemical structure on secondary organic aerosol formation from C ₁₂ alkanes. Atmospheric Chemistry and Physics, 2013, 13, 11121-11140.	1.9	48
93	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
94	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
95	Understanding atmospheric organic aerosols via factor analysis of aerosol mass spectrometry: a review. Analytical and Bioanalytical Chemistry, 2011, 401, 3045-3067.	1.9	764
96	Reactions of Semivolatile Organics and Their Effects on Secondary Organic Aerosol Formation. Environmental Science & Technology, 2007, 41, 3545-3550.	4.6	129
97	Evidence for Organosulfates in Secondary Organic Aerosol. Environmental Science & Technology, 2007, 41, 517-527.	4.6	591
98	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, .	3.3	121
99	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
100	Gas-phase products and secondary aerosol yields from the ozonolysis of ten different terpenes. Journal of Geophysical Research, 2006, 111, .	3.3	237
101	Gas-phase products and secondary aerosol yields from the photooxidation of 16 different terpenes. Journal of Geophysical Research, 2006, 111, .	3.3	332
102	Chemical Composition of Secondary Organic Aerosol Formed from the Photooxidation of Isoprene. Journal of Physical Chemistry A, 2006, 110, 9665-9690.	1.1	611
103	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
104	Secondary Organic Aerosol Formation from Isoprene Photooxidation. Environmental Science & Technology, 2006, 40, 1869-1877.	4.6	734
105	Hygroscopicity of Water-Soluble Organic Compounds in Atmospheric Aerosols: Amino Acids and Biomass Burning Derived Organic Species. Environmental Science & Technology, 2005, 39, 1555-1562.	4.6	182
106	Cloud condensation nucleus activation properties of biogenic secondary organic aerosol. Journal of Geophysical Research, 2005, 110, .	3.3	110
107	Secondary organic aerosol formation from isoprene photooxidation under high-NO _x conditions. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	297
108	Chamber studies of secondary organic aerosol growth by reactive uptake of simple carbonyl compounds. Journal of Geophysical Research, 2005, 110, .	3.3	316

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109	Particle Phase Acidity and Oligomer Formation in Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2004, 38, 6582-6589.	4.6	359
110	Low-Molecular-Weight and Oligomeric Components in Secondary Organic Aerosol from the Ozonolysis of Cycloalkenes and α -Pinene. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10147-10164.	1.1	308