# Qi Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/260991/publications.pdf

Version: 2024-02-01

| | | 8755 | 4774 |
|---|---|---|---|
| 194 | 34,075 | 75 | 169 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 294 | 294 | 294 | 11214 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Evolution of Organic Aerosols in the Atmosphere. Science, 2009, 326, 1525-1529. | 12.6 | 3,374 |
| 2 | Asian emissions in 2006 for the NASA INTEX-B mission. Atmospheric Chemistry and Physics, 2009, 9, 5131-5153. | 4.9 | 1,982 |
| 3 | Ubiquity and dominance of oxygenated species in organic aerosols in anthropogenicallyâ€influenced Northern Hemisphere midlatitudes. Geophysical Research Letters, 2007, 34, . | 4.0 | 1,773 |
| 4 | Chemical and microphysical characterization of ambient aerosols with the aerodyne aerosol mass spectrometer. Mass Spectrometry Reviews, 2007, 26, 185-222. | 5.4 | 1,708 |
| 5 | O/C and OM/OC Ratios of Primary, Secondary, and Ambient Organic Aerosols with High-Resolution Time-of-Flight Aerosol Mass Spectrometry. Environmental Science & Technology, 2008, 42, 4478-4485. | 10.0 | 1,524 |
| 6 | Interpretation of organic components from Positive Matrix Factorization of aerosol mass spectrometric data. Atmospheric Chemistry and Physics, 2009, 9, 2891-2918. | 4.9 | 1,276 |
| 7 | Secondary organic aerosol formation from anthropogenic air pollution: Rapid and higher than expected. Geophysical Research Letters, 2006, 33, . | 4.0 | 1,027 |
| 8 | Organic aerosol components observed in Northern Hemispheric datasets from Aerosol Mass Spectrometry. Atmospheric Chemistry and Physics, 2010, 10, 4625-4641. | 4.9 | 908 |
| 9 | Exploring the severe winter haze in Beijing: the impact of synoptic weather, regional transport and heterogeneous reactions. Atmospheric Chemistry and Physics, 2015, 15, 2969-2983. | 4.9 | 843 |
| 10 | Understanding atmospheric organic aerosols via factor analysis of aerosol mass spectrometry: a review. Analytical and Bioanalytical Chemistry, 2011, 401, 3045-3067. | 3.7 | 764 |
| 11 | An Aerosol Chemical Speciation Monitor (ACSM) for Routine Monitoring of the Composition and Mass Concentrations of Ambient Aerosol. Aerosol Science and Technology, 2011, 45, 780-794. | 3.1 | 675 |
| 12 | Sulfur dioxide and primary carbonaceous aerosol emissions in China and India, 1996â€“2010. Atmospheric Chemistry and Physics, 2011, 11, 9839-9864. | 4.9 | 668 |
| 13 | Deconvolution and Quantification of Hydrocarbon-like and Oxygenated Organic Aerosols Based on Aerosol Mass Spectrometry. Environmental Science & Technology, 2005, 39, 4938-4952. | 10.0 | 617 |
| 14 | Hydrocarbon-like and oxygenated organic aerosols in Pittsburgh: insights into sources and processes of organic aerosols. Atmospheric Chemistry and Physics, 2005, 5, 3289-3311. | 4.9 | 572 |
| 15 | Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. Reviews of Geophysics, 2017, 55, 509-559. | 23.0 | 548 |
| 16 | Heterogeneous chemistry: a mechanism missing in current models to explain secondary inorganic aerosol formation during the January 2013 haze episode in North China. Atmospheric Chemistry and Physics, 2015, 15, 2031-2049. | 4.9 | 481 |
| 17 | Aerosol mass spectrometer constraint on the global secondary organic aerosol budget. Atmospheric Chemistry and Physics, 2011, 11, 12109-12136. | 4.9 | 421 |
| 18 | Characterization of the sources and processes of organic and inorganic aerosols in New York city with a high-resolution time-of-flight aerosol mass apectrometer. Atmospheric Chemistry and Physics, 2011, 11, 1581-1602. | 4.9 | 378 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The AeroCom evaluation and intercomparison of organic aerosol in global models. Atmospheric Chemistry and Physics, 2014, 14, 10845-10895. | 4.9 | 363 |
| 20 | Sources, Composition and Absorption Ã…ngstrÃ¶m Exponent of Light-absorbing Organic Components in Aerosol Extracts from the Los Angeles Basin. Environmental Science & Technology, 2013, 47, 3685-3693. | 10.0 | 344 |
| 21 | Characterization of ambient aerosols in Mexico City during the MCMA-2003 campaign with Aerosol Mass Spectrometry: results from the CENICA Supersite. Atmospheric Chemistry and Physics, 2006, 6, 925-946. | 4.9 | 341 |
| 22 | A Case Study of Urban Particle Acidity and Its Influence on Secondary Organic Aerosol. Environmental Science & Technology, 2007, 41, 3213-3219. | 10.0 | 341 |
| 23 | Real-Time Methods for Estimating Organic Component Mass Concentrations from Aerosol Mass Spectrometer Data. Environmental Science & Technology, 2011, 45, 910-916. | 10.0 | 336 |
| 24 | Long-term real-time measurements of aerosol particle composition in Beijing, China: seasonal variations, meteorological effects, and source analysis. Atmospheric Chemistry and Physics, 2015, 15, 10149-10165. | 4.9 | 324 |
| 25 | Highly time-resolved chemical characterization of atmospheric submicron particles during 2008 Beijing Olympic Games using an Aerodyne High-Resolution Aerosol Mass Spectrometer. Atmospheric Chemistry and Physics, 2010, 10, 8933-8945. | 4.9 | 322 |
| 26 | The 2013 severe haze over southern Hebei, China: model evaluation, source apportionment, and policy implications. Atmospheric Chemistry and Physics, 2014, 14, 3151-3173. | 4.9 | 319 |
| 27 | Sulfate-nitrate-ammonium aerosols over China: response to 2000â€“2015 emission changes of sulfur dioxide, nitrogen oxides, and ammonia. Atmospheric Chemistry and Physics, 2013, 13, 2635-2652. | 4.9 | 313 |
| 28 | Primary and secondary aerosols in Beijing in winter: sources, variations and processes. Atmospheric Chemistry and Physics, 2016, 16, 8309-8329. | 4.9 | 288 |
| 29 | Evaluation of recently-proposed secondary organic aerosol models for a case study in Mexico City. Atmospheric Chemistry and Physics, 2009, 9, 5681-5709. | 4.9 | 261 |
| 30 | Insights into the Chemistry of New Particle Formation and Growth Events in Pittsburgh Based on Aerosol Mass Spectrometry. Environmental Science & Technology, 2004, 38, 4797-4809. | 10.0 | 259 |
| 31 | Oxygenated and water-soluble organic aerosols in Tokyo. Journal of Geophysical Research, 2007, 112, . | 3.3 | 256 |
| 32 | Highly time- and size-resolved characterization of submicron aerosol particles in Beijing using an Aerodyne Aerosol Mass Spectrometer. Atmospheric Environment, 2010, 44, 131-140. | 4.1 | 242 |
| 33 | Time- and size-resolved chemical composition of submicron particles in Pittsburgh: Implications for aerosol sources and processes. Journal of Geophysical Research, 2005, 110, . | 3.3 | 229 |
| 34 | Free and combined amino compounds in atmospheric fine particles (PM2.5) and fog waters from Northern California. Atmospheric Environment, 2003, 37, 2247-2258. | 4.1 | 218 |
| 35 | Analysis of the formation of fog and haze in North China Plain (NCP). Atmospheric Chemistry and Physics, 2011, 11, 8205-8214. | 4.9 | 206 |
| 36 | Insights into secondary organic aerosol formed via aqueous-phase reactions of phenolic compounds based on high resolution mass spectrometry. Atmospheric Chemistry and Physics, 2010, 10, 4809-4822. | 4.9 | 205 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Real-time chemical characterization of atmospheric particulate matter in China: A review. Atmospheric Environment, 2017, 158, 270-304. | 4.1 | 203 |
| 38 | Light-absorbing soluble organic aerosol in Los Angeles and Atlanta: A contrast in secondary organic aerosol. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 190 |
| 39 | Chemical characterization of SOA formed from aqueous-phase reactions of phenols with the triplet excited state of carbonyl and hydroxyl radical. Atmospheric Chemistry and Physics, 2014, 14, 13801-13816. | 4.9 | 187 |
| 40 | Wintertime aerosol chemistry and haze evolution in an extremely polluted city of the North China Plain: significant contribution fromÂcoal and biomass combustion. Atmospheric Chemistry and Physics, 2017, 17, 4751-4768. | 4.9 | 172 |
| 41 | Detection of particle-phase polycyclic aromatic hydrocarbons in Mexico City using an aerosol mass spectrometer. International Journal of Mass Spectrometry, 2007, 263, 152-170. | 1.5 | 167 |
| 42 | Simulation of semi-explicit mechanisms of SOA formation from glyoxal in aerosol in a 3-D model. Atmospheric Chemistry and Physics, 2014, 14, 6213-6239. | 4.9 | 166 |
| 43 | A global simulation of brown carbon: implications for photochemistry and direct radiative effect. Atmospheric Chemistry and Physics, 2016, 16, 3413-3432. | 4.9 | 165 |
| 44 | Effect of aqueous-phase processing on aerosol chemistry and size distributions in Fresno, California, during wintertime. Environmental Chemistry, 2012, 9, 221. | 1.5 | 159 |
| 45 | â€œAPEC Blueâ€• Secondary Aerosol Reductions from Emission Controls in Beijing. Scientific Reports, 2016, 6, 20668. | 3.3 | 155 |
| 46 | Seasonal and diurnal variations of submicron organic aerosol in Tokyo observed using the Aerodyne aerosol mass spectrometer. Journal of Geophysical Research, 2006, 111, . | 3.3 | 149 |
| 47 | Characterization of submicron particles influenced by mixed biogenic and anthropogenic emissions using high-resolution aerosol mass spectrometry: results from CARES. Atmospheric Chemistry and Physics, 2012, 12, 8131-8156. | 4.9 | 146 |
| 48 | Enhanced SOA formation from mixed anthropogenic and biogenic emissions during the CARES campaign. Atmospheric Chemistry and Physics, 2013, 13, 2091-2113. | 4.9 | 146 |
| 49 | Carbonaceous aerosols in China: top-down constraints on primary sources and estimation of secondary contribution. Atmospheric Chemistry and Physics, 2012, 12, 2725-2746. | 4.9 | 137 |
| 50 | Primary and secondary organic aerosols in Fresno, California during wintertime: Results from high resolution aerosol mass spectrometry. Journal of Geophysical Research, 2012, 117, . | 3.3 | 133 |
| 51 | Chemical composition, sources, and processes of urban aerosols during summertime in northwest China: insights from high-resolution aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2014, 14, 12593-12611. | 4.9 | 132 |
| 52 | Chemistry of fog waters in California's Central Valleyâ€”Part 3: concentrations and speciation of organic and inorganic nitrogen. Atmospheric Environment, 2001, 35, 5629-5643. | 4.1 | 131 |
| 53 | Secondary Organic Aerosol Production from Aqueous Reactions of Atmospheric Phenols with an Organic Triplet Excited State. Environmental Science & Technology, 2014, 48, 1049-1057. | 10.0 | 130 |
| 54 | Measurement of atmospheric amines and ammonia using the high resolution time-of-flight chemical ionization mass spectrometry. Atmospheric Environment, 2015, 102, 249-259. | 4.1 | 130 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Water-soluble organic nitrogen in atmospheric fine particles (PM2.5) from northern California. Journal of Geophysical Research, 2002, 107, AAC 3-1-AAC 3-9. | 3.3 | 128 |
| 56 | CCN predictions using simplified assumptions of organic aerosol composition and mixing state: a synthesis from six different locations. Atmospheric Chemistry and Physics, 2010, 10, 4795-4807. | 4.9 | 124 |
| 57 | Real-Time Characterization of Aerosol Particle Composition above the Urban Canopy in Beijing: Insights into the Interactions between the Atmospheric Boundary Layer and Aerosol Chemistry. Environmental Science & Technology, 2015, 49, 11340-11347. | 10.0 | 124 |
| 58 | Global transformation and fate of SOA: Implications of lowâ€volatility SOA and gasâ€phase fragmentation reactions. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4169-4195. | 3.3 | 123 |
| 59 | A yearlong study of water-soluble organic carbon in Beijing I: Sources and its primary vs. secondary nature. Atmospheric Environment, 2014, 92, 514-521. | 4.1 | 122 |
| 60 | Liquid Water: Ubiquitous Contributor to Aerosol Mass. Environmental Science and Technology Letters, 2016, 3, 257-263. | 8.7 | 121 |
| 61 | Size-resolved aerosol chemistry on Whistler Mountain, Canada with a high-resolution aerosol mass spectrometer during INTEX-B. Atmospheric Chemistry and Physics, 2009, 9, 3095-3111. | 4.9 | 119 |
| 62 | Characterization and Source Apportionment of Water-Soluble Organic Matter in Atmospheric Fine Particles (PM<sub>2.5</sub>) with High-Resolution Aerosol Mass Spectrometry and GCâ€“MS. Environmental Science & Technology, 2011, 45, 4854-4861. | 10.0 | 114 |
| 63 | Factor analysis of combined organic and inorganic aerosol mass spectra from high resolution aerosol mass spectrometer measurements. Atmospheric Chemistry and Physics, 2012, 12, 8537-8551. | 4.9 | 112 |
| 64 | Source apportionment of organic aerosol from 2-year highly time-resolved measurements by an aerosol chemical speciation monitor in Beijing, China. Atmospheric Chemistry and Physics, 2018, 18, 8469-8489. | 4.9 | 110 |
| 65 | Intense secondary aerosol formation due to strong atmospheric photochemical reactions in summer: observations at a rural site in eastern Yangtze River Delta of China. Science of the Total Environment, 2016, 571, 1454-1466. | 8.0 | 109 |
| 66 | Semivolatile POA and parameterized total combustion SOA in CMAQv5.2: impacts on source strength and partitioning. Atmospheric Chemistry and Physics, 2017, 17, 11107-11133. | 4.9 | 109 |
| 67 | Regional influence of wildfires on aerosol chemistry in the western US and insights into atmospheric aging of biomass burning organic aerosol. Atmospheric Chemistry and Physics, 2017, 17, 2477-2493. | 4.9 | 107 |
| 68 | Influence of intense secondary aerosol formation and long-range transport on aerosol chemistry and properties in the Seoul Metropolitan Area during spring time: results from KORUS-AQ. Atmospheric Chemistry and Physics, 2018, 18, 7149-7168. | 4.9 | 105 |
| 69 | Pollution Gradients and Chemical Characterization ofÂParticulateÂMatter from Vehicular Traffic near Major Roadways: Results from the 2009 Queens College Air Quality Study in NYC. Aerosol Science and Technology, 2012, 46, 1201-1218. | 3.1 | 102 |
| 70 | Characteristics and sources of submicron aerosols above the urban canopy (260 m) in Beijing, China, during the 2014 APEC summit. Atmospheric Chemistry and Physics, 2015, 15, 12879-12895. | 4.9 | 100 |
| 71 | Light Absorption by Ambient Black and Brown Carbon and its Dependence on Black Carbon Coating State for Two California, USA, Cities in Winter and Summer. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1550-1577. | 3.3 | 99 |
| 72 | Highly time-resolved urban aerosol characteristics during springtime in Yangtze River Delta, China: insights from soot particle aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2016, 16, 9109-9127. | 4.9 | 96 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). Atmospheric Chemistry and Physics, 2012, 12, 7647-7687. | 4.9 | 94 |
| 74 | Long-term measurements of submicrometer aerosol chemistry at the Southern Great Plains (SGP) using an Aerosol Chemical Speciation Monitor (ACSM). Atmospheric Environment, 2015, 106, 43-55. | 4.1 | 92 |
| 75 | Molecular transformations of phenolic SOA during photochemical aging in the aqueous phase: competition among oligomerization, functionalization, and fragmentation. Atmospheric Chemistry and Physics, 2016, 16, 4511-4527. | 4.9 | 92 |
| 76 | Regional Influence of Aerosol Emissions from Wildfires Driven by Combustion Efficiency: Insights from the BBOP Campaign. Environmental Science & Technology, 2016, 50, 8613-8622. | 10.0 | 89 |
| 77 | CCN activity of organic aerosols observed downwind of urban emissions during CARES. Atmospheric Chemistry and Physics, 2013, 13, 12155-12169. | 4.9 | 88 |
| 78 | Determination of and evidence for nonâ€coreâ€shell structure of particles containing black carbon using the Singleâ€Particle Soot Photometer (SP2). Geophysical Research Letters, 2012, 39, . | 4.0 | 87 |
| 79 | Elemental composition of organic aerosol: The gap between ambient and laboratory measurements. Geophysical Research Letters, 2015, 42, 4182-4189. | 4.0 | 84 |
| 80 | Wintertime organic and inorganic aerosols in Lanzhou, China: sources, processes, and comparison with the results during summer. Atmospheric Chemistry and Physics, 2016, 16, 14937-14957. | 4.9 | 83 |
| 81 | Influences of emission sources and meteorology on aerosol chemistry in a polluted urban environment: results from DISCOVER-AQ California. Atmospheric Chemistry and Physics, 2016, 16, 5427-5451. | 4.9 | 80 |
| 82 | Source apportionment of PM2.5 across China using LOTOS-EUROS. Atmospheric Environment, 2017, 164, 370-386. | 4.1 | 79 |
| 83 | Chemical composition and size distribution of summertime PM<sub>2.5</sub> at a high altitude remote location in the northeast of the Qinghaiâ€“Xizang (Tibet) Plateau: insights into aerosol sources and processing in free troposphere. Atmospheric Chemistry and Physics, 2015, 15, 5069-5081. | 4.9 | 77 |
| 84 | Spatially and seasonally resolved estimate of the ratio of organic mass to organic carbon. Atmospheric Environment, 2014, 87, 34-40. | 4.1 | 76 |
| 85 | Aerosol Mass Spectrometric Features of Biogenic SOA: Observations from a Plant Chamber and in Rural Atmospheric Environments. Environmental Science & Technology, 2009, 43, 8166-8172. | 10.0 | 75 |
| 86 | Aqueous production of secondary organic aerosol from fossil-fuel emissions in winter Beijing haze. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 75 |
| 87 | Understanding the optical properties of ambient sub- and supermicron particulate matter: results from the CARESÂ2010 field study in northern California. Atmospheric Chemistry and Physics, 2016, 16, 6511-6535. | 4.9 | 70 |
| 88 | Formation and Evolution of aqSOA from Aqueous-Phase Reactions of Phenolic Carbonyls: Comparison between Ammonium Sulfate and Ammonium Nitrate Solutions. Environmental Science & Technology, 2018, 52, 9215-9224. | 10.0 | 68 |
| 89 | Observation of Fullerene Soot in Eastern China. Environmental Science and Technology Letters, 2016, 3, 121-126. | 8.7 | 67 |
| 90 | Chemical processing of water-soluble species and formation of secondary organic aerosol in fogs. Atmospheric Environment, 2019, 200, 158-166. | 4.1 | 66 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Impacts of transported background ozone on California air quality during the ARCTAS-CARB period â€“ a multi-scale modeling study. Atmospheric Chemistry and Physics, 2010, 10, 6947-6968. | 4.9 | 63 |
| 92 | Modeling regional aerosol and aerosol precursor variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns. Atmospheric Chemistry and Physics, 2014, 14, 10013-10060. | 4.9 | 62 |
| 93 | A review of aerosol chemistry in Asia: insights from aerosol mass spectrometer measurements. Environmental Sciences: Processes and Impacts, 2020, 22, 1616-1653. | 3.5 | 57 |
| 94 | Conversion of Fogwater and Aerosol Organic Nitrogen to Ammonium, Nitrate, and NOxduring Exposure to Simulated Sunlight and Ozone. Environmental Science & Technology, 2003, 37, 3522-3530. | 10.0 | 55 |
| 95 | The characterisation of pollution aerosol in a changing photochemical environment. Atmospheric Chemistry and Physics, 2006, 6, 5573-5588. | 4.9 | 55 |
| 96 | Characterization of near-highway submicron aerosols in New York City with a high-resolution aerosol mass spectrometer. Atmospheric Chemistry and Physics, 2012, 12, 2215-2227. | 4.9 | 55 |
| 97 | Dissolved Organic Matter and Inorganic Ions in a Central Himalayan Glacierâ€"Insights into Chemical Composition and Atmospheric Sources. Environmental Science & Technology, 2013, 47, 6181-6188. | 10.0 | 55 |
| 98 | First Chemical Characterization of Refractory Black Carbon Aerosols and Associated Coatings over the Tibetan Plateau (4730 m a.s.l). Environmental Science & Technology, 2017, 51, 14072-14082. | 10.0 | 55 |
| 99 | Effect of heterogeneous oxidative aging on light absorption by biomass burning organic aerosol. Aerosol Science and Technology, 2019, 53, 663-674. | 3.1 | 55 |
| 100 | Nitrite-Mediated Photooxidation of Vanillin in the Atmospheric Aqueous Phase. Environmental Science & Technology, 2019, 53, 14253-14263. | 10.0 | 55 |
| 101 | Optical Properties of Wintertime Aerosols from Residential Wood Burning in Fresno, CA: Results from DISCOVER-AQ 2013. Environmental Science & Technology, 2016, 50, 1681-1690. | 10.0 | 54 |
| 102 | On the effectiveness of nitrogen oxide reductions as a control over ammonium nitrate aerosol. Atmospheric Chemistry and Physics, 2016, 16, 2575-2596. | 4.9 | 53 |
| 103 | Toward Understanding Amines and Their Degradation Products from Postcombustion CO<sub>2</sub> Capture Processes with Aerosol Mass Spectrometry. Environmental Science & Technology, 2014, 48, 5066-5075. | 10.0 | 52 |
| 104 | Chemistry of new particle growth in mixed urban and biogenic emissions â€“ insights from CARES. Atmospheric Chemistry and Physics, 2014, 14, 6477-6494. | 4.9 | 52 |
| 105 | Sources and atmospheric processing of winter aerosols in Seoul, Korea: insights from real-time measurements using aÂhigh-resolution aerosol mass spectrometer. Atmospheric Chemistry and Physics, 2017, 17, 2009-2033. | 4.9 | 50 |
| 106 | Photochemical Aging of Guaiacol by Fe(III)â€"Oxalate Complexes in Atmospheric Aqueous Phase. Environmental Science & Technology, 2019, 53, 127-136. | 10.0 | 50 |
| 107 | A case study of aerosol processing and evolution in summer in New York City. Atmospheric Chemistry and Physics, 2011, 11, 12737-12750. | 4.9 | 49 |
| 108 | Chemical imaging of ambient aerosol particles: Observational constraints on mixing state parameterization. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9591-9605. | 3.3 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Light absorption enhancement of black carbon in urban Beijing in summer. Atmospheric Environment, 2019, 213, 499-504. | 4.1 | 49 |
| 110 | Photooxidants from brown carbon and other chromophores in illuminated particle extracts. Atmospheric Chemistry and Physics, 2019, 19, 6579-6594. | 4.9 | 47 |
| 111 | Two years of online measurement of fine particulate nitrate in the western Yangtze River Delta: influences of thermodynamics and N<sub>2</sub>O<sub>5</sub> hydrolysis. Atmospheric Chemistry and Physics, 2018, 18, 17177-17190. | 4.9 | 46 |
| 112 | Optical properties and molecular compositions of water-soluble and water-insoluble brown carbon (BrC) aerosols in northwest China. Atmospheric Chemistry and Physics, 2020, 20, 4889-4904. | 4.9 | 46 |
| 113 | Particulate Matter, Ozone, and Nitrogen Species in Aged Wildfire Plumes Observed at the Mount Bachelor Observatory. Aerosol and Air Quality Research, 2016, 16, 3075-3087. | 2.1 | 46 |
| 114 | FT-IR quantification of the carbonyl functional group in aqueous-phase secondary organic aerosol from phenols. Atmospheric Environment, 2015, 100, 230-237. | 4.1 | 45 |
| 115 | Observational assessment of the role of nocturnal residual-layer chemistry in determining daytime surface particulate nitrateÂconcentrations. Atmospheric Chemistry and Physics, 2017, 17, 14747-14770. | 4.9 | 45 |
| 116 | Summertime aerosol volatility measurements in Beijing, China. Atmospheric Chemistry and Physics, 2019, 19, 10205-10216. | 4.9 | 45 |
| 117 | Summertime formaldehyde observations in New York City: Ambient levels, sources and its contribution to HOx radicals. Journal of Geophysical Research, 2012, 117, . | 3.3 | 44 |
| 118 | Organic PM Emissions from Vehicles: Composition, O/C Ratio, and Dependence on PM Concentration. Aerosol Science and Technology, 2015, 49, 86-97. | 3.1 | 44 |
| 119 | Rapid evolution of aerosol particles and their optical properties downwind of wildfires in the western US. Atmospheric Chemistry and Physics, 2020, 20, 13319-13341. | 4.9 | 44 |
| 120 | A regional scale modeling analysis of aerosol and trace gas distributions over the eastern Pacific during the INTEX-B field campaign. Atmospheric Chemistry and Physics, 2010, 10, 2091-2115. | 4.9 | 43 |
| 121 | Chemical characteristics of submicron particles at the central Tibetan Plateau: insights from aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2018, 18, 427-443. | 4.9 | 42 |
| 122 | Influence of Emissions and Aqueous Processing on Particles Containing Black Carbon in a Polluted Urban Environment: Insights From a Soot Particleâ€Aerosol Mass Spectrometer. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6648-6666. | 3.3 | 41 |
| 123 | Impact of aerosol composition on cloud condensation nuclei activity. Atmospheric Chemistry and Physics, 2012, 12, 3783-3790. | 4.9 | 40 |
| 124 | Aircraft Measurements of Nitrogen and Phosphorus in and around the Lake Tahoe Basin:â€‰ Implications for Possible Sources of Atmospheric Pollutants to Lake Tahoe. Environmental Science & Technology, 2002, 36, 4981-4989. | 10.0 | 39 |
| 125 | Three-dimensional factorization of size-resolved organic aerosol mass spectra from Mexico City. Atmospheric Measurement Techniques, 2012, 5, 195-224. | 3.1 | 39 |
| 126 | Comment on â€œThe effects of molecular weight and thermal decomposition on the sensitivity of a thermal desorption aerosol mass spectrometerâ€. Aerosol Science and Technology, 2016, 50, i-xv. | 3.1 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Wintertime waterâ€soluble aerosol composition and particle water content in Fresno, California. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3155-3170. | 3.3 | 39 |
| 128 | Variations of cloud condensation nuclei (CCN) and aerosol activity during fogâ€“haze episode: a case study from Shanghai. Atmospheric Chemistry and Physics, 2014, 14, 12499-12512. | 4.9 | 38 |
| 129 | Real-Time Black Carbon Emission Factor Measurements from Light Duty Vehicles. Environmental Science & Technology, 2013, 47, 13104-13112. | 10.0 | 36 |
| 130 | Size-resolved chemical composition, effective density, and optical properties of biomass burning particles. Atmospheric Chemistry and Physics, 2017, 17, 7481-7493. | 4.9 | 36 |
| 131 | Molecular characteristics and diurnal variations of organic aerosols at a rural site in the North China Plain with implications for the influence of regional biomass burning. Atmospheric Chemistry and Physics, 2019, 19, 10481-10496. | 4.9 | 36 |
| 132 | Photosensitized Reactions of a Phenolic Carbonyl from Wood Combustion in the Aqueous Phaseâ€”Chemical Evolution and Light Absorption Properties of AqSOA. Environmental Science & Technology, 2021, 55, 5199-5211. | 10.0 | 36 |
| 133 | Interference of organic signals in highly time resolved nitrate measurements by low mass resolution aerosol mass spectrometry. Journal of Geophysical Research, 2007, 112, . | 3.3 | 35 |
| 134 | Submicron particles at Thompson Farm during ICARTT measured using aerosol mass spectrometry. Journal of Geophysical Research, 2008, 113, . | 3.3 | 35 |
| 135 | Hygroscopic growth of submicron and supermicron aerosols in the marine boundary layer. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8384-8399. | 3.3 | 35 |
| 136 | Influences of upwind emission sources and atmospheric processing on aerosol chemistry and properties at a rural location in the Northeastern U.S.. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6049-6065. | 3.3 | 35 |
| 137 | Differential pulmonary effects of wintertime California and China particulate matter in healthy young mice. Toxicology Letters, 2017, 278, 1-8. | 0.8 | 35 |
| 138 | Impact of air transport and secondary formation on haze pollution in the Yangtze River Delta: In situ online observations in Shanghai and Nanjing. Atmospheric Environment, 2020, 225, 117350. | 4.1 | 35 |
| 139 | Gas-Phase CO<sub>2</sub> Subtraction for Improved Measurements of the Organic Aerosol Mass Concentration and Oxidation Degree by an Aerosol Mass Spectrometer. Environmental Science & Technology, 2013, 47, 14324-14331. | 10.0 | 30 |
| 140 | Formation of secondary organic aerosol coating on black carbon particles near vehicular emissions. Atmospheric Chemistry and Physics, 2017, 17, 15055-15067. | 4.9 | 30 |
| 141 | Chemical characterization of long-range transport biomass burning emissions to the Himalayas: insights from high-resolution aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2018, 18, 4617-4638. | 4.9 | 29 |
| 142 | Temporal characteristics and vertical distribution of atmospheric ammonia and ammonium in winter in Beijing. Science of the Total Environment, 2019, 681, 226-234. | 8.0 | 29 |
| 143 | Light absorption by water-soluble organic carbon in atmospheric fine particles in the central Tibetan Plateau. Environmental Science and Pollution Research, 2017, 24, 21386-21397. | 5.3 | 28 |
| 144 | Insights into the formation of secondary organic carbon in the summertime in urban Shanghai. Journal of Environmental Sciences, 2018, 72, 118-132. | 6.1 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Effects of atmospheric aging processes on in vitro induced oxidative stress and chemical composition of biomass burning aerosols. Journal of Hazardous Materials, 2021, 401, 123750. | 12.4 | 27 |
| 146 | Measurement report: Characterization of severe spring haze episodes and influences of long-range transport in the Seoul metropolitan area in March 2019. Atmospheric Chemistry and Physics, 2020, 20, 11527-11550. | 4.9 | 27 |
| 147 | Modeling particle nucleation and growth over northern California during the 2010 CARES campaign. Atmospheric Chemistry and Physics, 2015, 15, 12283-12313. | 4.9 | 25 |
| 148 | Biogenic and anthropogenic sources of aerosols at the High Arctic site Villum Research Station. Atmospheric Chemistry and Physics, 2019, 19, 10239-10256. | 4.9 | 25 |
| 149 | Free tropospheric aerosols at the Mt.ÂBachelor Observatory: more oxidized and higher sulfate content compared to boundary layer aerosols. Atmospheric Chemistry and Physics, 2019, 19, 1571-1585. | 4.9 | 25 |
| 150 | Aerosol optical hygroscopicity measurements during the 2010 CARES campaign. Atmospheric Chemistry and Physics, 2015, 15, 4045-4061. | 4.9 | 24 |
| 151 | Organic Aerosol Particle Chemical Properties Associated With Residential Burning and Fog in Wintertime San Joaquin Valley (Fresno) and With Vehicle and Firework Emissions in Summertime South Coast Air Basin (Fontana). Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,707. | 3.3 | 22 |
| 152 | Volatility of Primary Organic Aerosol Emitted from Light Duty Gasoline Vehicles. Environmental Science & Technology, 2015, 49, 1569-1577. | 10.0 | 21 |
| 153 | Chemical characterization and sources of submicron aerosols in the northeastern Qinghaiâ€“Tibet Plateau: insights from high-resolution mass spectrometry. Atmospheric Chemistry and Physics, 2019, 19, 7897-7911. | 4.9 | 21 |
| 154 | Wildfire and prescribed burning impacts on air quality in the United States. Journal of the Air and Waste Management Association, 2020, 70, 961-970. | 1.9 | 21 |
| 155 | Comparative Assessment of Cooking Emission Contributions to Urban Organic Aerosol Using Online Molecular Tracers and Aerosol Mass Spectrometry Measurements. Environmental Science & Technology, 2021, 55, 14526-14535. | 10.0 | 21 |
| 156 | Comparing black and brown carbon absorption from AERONET and surface measurements at wintertime Fresno. Atmospheric Environment, 2019, 199, 164-176. | 4.1 | 20 |
| 157 | Kinetics and Mass Yields of Aqueous Secondary Organic Aerosol from Highly Substituted Phenols Reacting with a Triplet Excited State. Environmental Science & Technology, 2021, 55, 5772-5781. | 10.0 | 20 |
| 158 | Characterization of submicron organic particles in Beijing during summertime: comparison between SP-AMS and HR-AMS. Atmospheric Chemistry and Physics, 2020, 20, 14091-14102. | 4.9 | 19 |
| 159 | Modeling NH 4 NO 3 Over the San Joaquin Valley During the 2013 DISCOVERâ€AQ Campaign. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4727-4745. | 3.3 | 18 |
| 160 | Chemical characterization and source identification of submicron aerosols from a year-long real-time observation at a rural site of Shanghai using an Aerosol Chemical Speciation Monitor. Atmospheric Research, 2020, 246, 105154. | 4.1 | 18 |
| 161 | Characteristics and sources of water-soluble organic aerosol in a heavily polluted environment in Northern China. Science of the Total Environment, 2021, 758, 143970. | 8.0 | 18 |
| 162 | Influences of Primary Emission and Secondary Coating Formation on the Particle Diversity and Mixing State of Black Carbon Particles. Environmental Science & Technology, 2019, 53, 9429-9438. | 10.0 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Molecular-Level Study of the Photo-Oxidation of Aqueous-Phase Guaiacyl Acetone in the Presence of <sup>3</sup>C*: Formation of Brown Carbon Products. ACS Earth and Space Chemistry, 2021, 5, 1983-1996. | 2.7 | 15 |
| 164 | New SOA Treatments Within the Energy Exascale Earth System Model (E3SM): Strong Production and Sinks Govern Atmospheric SOA Distributions and Radiative Forcing. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002266. | 3.8 | 15 |
| 165 | Chemistry of new particle growth during springtime in the Seoul metropolitan area, Korea. Chemosphere, 2019, 225, 713-722. | 8.2 | 13 |
| 166 | New particle formation (NPF) events in China urban clusters given by sever composite pollution background. Chemosphere, 2021, 262, 127842. | 8.2 | 13 |
| 167 | Persistent Influence of Wildfire Emissions in the Western United States and Characteristics of Aged Biomass Burning Organic Aerosols under Clean Air Conditions. Environmental Science & Technology, 2022, 56, 3645-3657. | 10.0 | 13 |
| 168 | Performance of Two Bioswales on Urban Runoff Management. Infrastructures, 2017, 2, 12. | 2.8 | 12 |
| 169 | Sensitivity analysis of simulated SOA loadings using a varianceâ€based statistical approach. Journal of Advances in Modeling Earth Systems, 2016, 8, 499-519. | 3.8 | 10 |
| 170 | Understanding Composition, Formation, and Aging of Organic Aerosols in Wildfire Emissions via Combined Mountain Top and Airborne Measurements. ACS Symposium Series, 2018, , 363-385. | 0.5 | 10 |
| 171 | Larger Submicron Particles for Emissions With Residential Burning in Wintertime San Joaquin Valley (Fresno) than for Vehicle Combustion in Summertime South Coast Air Basin (Fontana). Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,526. | 3.3 | 10 |
| 172 | Impacts of secondary aerosol formation and long range transport on severe haze during the winter of 2017 in the Seoul metropolitan area. Science of the Total Environment, 2022, 804, 149984. | 8.0 | 10 |
| 173 | Influence of regional emission controls on the chemical composition, sources, and size distributions of submicron aerosols: Insights from the 2014 Nanjing Youth Olympic Games. Science of the Total Environment, 2022, 807, 150869. | 8.0 | 10 |
| 174 | Hygrosopicity measurements of aerosol particles in the San Joaquin Valley, CA, Baltimore, MD, and Golden, CO. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7344-7359. | 3.3 | 9 |
| 175 | Modeling air quality in the San Joaquin valley of California during the 2013 Discover-AQ field campaign. Atmospheric Environment: X, 2020, 5, 100067. | 1.4 | 9 |
| 176 | Hydroxymethanesulfonate (HMS) Formation during Summertime Fog in an Arctic Oil Field. Environmental Science and Technology Letters, 2021, 8, 511-518. | 8.7 | 9 |
| 177 | Evolution of Multispectral Aerosol Absorption Properties in a Biogenically-Influenced Urban Environment during the CARES Campaign. Atmosphere, 2017, 8, 217. | 2.3 | 8 |
| 178 | Characterization of aerosol associated with enhanced small particle number concentrations in a suburban forested environment. Journal of Geophysical Research, 2010, 115, . | 3.3 | 7 |
| 179 | Diesel Soot and Amine-Containing Organic Sulfate Aerosols in an Arctic Oil Field. Environmental Science & Technology, 2020, 54, 92-101. | 10.0 | 7 |
| 180 | Evolution of Aerosol Under Moist and Fog Conditions in a Rural Forest Environment: Insights From Highâ€Resolution Aerosol Mass Spectrometry. Geophysical Research Letters, 2020, 47, e2020GL089714. | 4.0 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Differential inflammatory potential of particulate matter (PM) size fractions from imperial valley, CA. Atmospheric Environment, 2021, 244, 117992. | 4.1 | 7 |
| 182 | Aqueous <sup>Â·</sup>OH Oxidation of Highly Substituted Phenols as a Source of Secondary Organic Aerosol. Environmental Science & Technology, 2022, 56, 9959-9967. | 10.0 | 7 |
| 183 | Aerosol Transport and Source Attribution Using Sunphotometers, Models and In-Situ Chemical Composition Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3803-3811. | 6.3 | 6 |
| 184 | What do correlations tell us about anthropogenicâ€“biogenic interactions and SOA formation in the Sacramento plume during CARES?. Atmospheric Chemistry and Physics, 2016, 16, 1729-1746. | 4.9 | 6 |
| 185 | Novel Application of Machine Learning Techniques for Rapid Source Apportionment of Aerosol Mass Spectrometer Datasets. ACS Earth and Space Chemistry, 2022, 6, 932-942. | 2.7 | 6 |
| 186 | Using spectral methods to obtain particle size information from optical data: applications to measurements from CARES 2010. Atmospheric Chemistry and Physics, 2018, 18, 5499-5514. | 4.9 | 5 |
| 187 | PM2.5 composition and sources in the San Joaquin Valley of California: A long-term study using ToF-ACSM with the capture vaporizer. Environmental Pollution, 2022, 292, 118254. | 7.5 | 5 |
| 188 | Aircraft Study of Secondary Aerosols in Longâ€Range Transported Air Masses From the North China Plain by a Midâ€Latitude Cyclone. Journal of Geophysical Research D: Atmospheres, 2022, 127, . | 3.3 | 4 |
| 189 | Regional Differences in the Light Absorption Properties of Fine Particulate Matter Over the Tibetan Plateau: Insights From HRâ€ToFâ€AMS and Aethalometer Measurements. Journal of Geophysical Research D: Atmospheres, 2021, 126, . | 3.3 | 4 |
| 190 | Measurement report: Cloud condensation nuclei activity and its variation with organic oxidation level and volatility observed during an aerosol life cycle intensive operational period (ALC-IOP). Atmospheric Chemistry and Physics, 2021, 21, 13019-13029. | 4.9 | 3 |
| 191 | High-spatial-resolution distributions of aerosol chemical characteristics in urban Lanzhou, western China, during wintertime: Insights from an on-road mobile aerosol mass spectrometry measurement experiment. Science of the Total Environment, 2022, 819, 153069. | 8.0 | 3 |
| 192 | Aerosol Total Volume Estimation From Wavelengthâ€and Sizeâ€Resolved Scattering Coefficient Data: A New Method. Earth and Space Science, 2020, 7, e2019EA000863. | 2.6 | 1 |
| 193 | Deposition of ambient particles in the human respiratory system based on single particle analysis: A case study in the Pearl River Delta, China. Environmental Pollution, 2021, 283, 117056. | 7.5 | 0 |
| 194 | Novel Pathways to Form Secondary Organic Aerosols: Glyoxal SOA in WRF/Chem. Springer Proceedings in Complexity, 2014, , 149-154. | 0.3 | 0 |