# John G Watson

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11557949/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 206 papers | 20,242 citations | 10389 72 h-index | 11607 135 g-index |
| 210 all docs | 210 docs citations | 210 times ranked | 10198 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The dri thermal/optical reflectance carbon analysis system: description, evaluation and applications in U.S. Air quality studies. Atmospheric Environment Part A General Topics, 1993, 27, 1185-1201. | 1.3 | 1,008 |
| 2 | Visibility: Science and Regulation. Journal of the Air and Waste Management Association, 2002, 52, 628-713. | 1.9 | 844 |
| 3 | Comparison of IMPROVE and NIOSH Carbon Measurements. Aerosol Science and Technology, 2001, 34, 23-34. | 3.1 | 810 |
| 4 | The IMPROVE_A Temperature Protocol for Thermal/Optical Carbon Analysis: Maintaining Consistency with a Long-Term Database. Journal of the Air and Waste Management Association, 2007, 57, 1014-1023. | 1.9 | 656 |
| 5 | Equivalence of Elemental Carbon by Thermal/Optical Reflectance and Transmittance with Different Temperature Protocols. Environmental Science & Technology, 2004, 38, 4414-4422. | 10.0 | 604 |
| 6 | Fine Particle and Gaseous Emission Rates from Residential Wood Combustion. Environmental Science & Technology, 2000, 34, 2080-2091. | 10.0 | 519 |
| 7 | PM2.5 chemical source profiles for vehicle exhaust, vegetative burning, geological material, and coal burning in Northwestern Colorado during 1995. Chemosphere, 2001, 43, 1141-1151. | 8.2 | 519 |
| 8 | Descriptive analysis of PM2.5 and PM10 at regionally representative locations during SJVAQS/AUSPEX. Atmospheric Environment, 1996, 30, 2079-2112. | 4.1 | 517 |
| 9 | Source profiles for industrial, mobile, and area sources in the Big Bend Regional Aerosol Visibility and Observational study. Chemosphere, 2004, 54, 185-208. | 8.2 | 447 |
| 10 | Review of volatile organic compound source apportionment by chemical mass balance. Atmospheric Environment, 2001, 35, 1567-1584. | 4.1 | 443 |
| 11 | Temporal and spatial variations of PM2.5 and PM10 aerosol in the Southern California air quality study. Atmospheric Environment, 1994, 28, 2061-2080. | 4.1 | 417 |
| 12 | Spatial and seasonal variations of atmospheric organic carbon and elemental carbon in Pearl River Delta Region, China. Atmospheric Environment, 2004, 38, 4447-4456. | 4.1 | 390 |
| 13 | Winter and Summer PM<sub>2.5</sub> Chemical Compositions in Fourteen Chinese Cities. Journal of the Air and Waste Management Association, 2012, 62, 1214-1226. | 1.9 | 350 |
| 14 | The effective variance weighting for least squares calculations applied to the mass balance receptor model. Atmospheric Environment, 1984, 18, 1347-1355. | 1.0 | 315 |
| 15 | Summary of Organic and Elemental Carbon/Black Carbon Analysis Methods and Intercomparisons. Aerosol and Air Quality Research, 2005, 5, 65-102. | 2.1 | 304 |
| 16 | Impacts of aerosol compositions on visibility impairment in Xi'an, China. Atmospheric Environment, 2012, 59, 559-566. | 4.1 | 271 |
| 17 | Evaluation of the thermal/optical reflectance method for discrimination between char- and soot-EC. Chemosphere, 2007, 69, 569-574. | 8.2 | 249 |
| 18 | Mass reconstruction methods for PM2.5: a review. Air Quality, Atmosphere and Health, 2015, 8, 243-263. | 3.3 | 245 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Review of PM2.5 and PM10 Apportionment for Fossil Fuel Combustion and Other Sources by the Chemical Mass Balance Receptor Model. Energy & Fuels, 2002, 16, 222-260. | 5.1 | 240 |
| 20 | Receptor modeling application framework for particle source apportionment. Chemosphere, 2002, 49, 1093-1136. | 8.2 | 238 |
| 21 | Health Effects of Fine Particulate Air Pollution: Lines that Connect. Journal of the Air and Waste Management Association, 2006, 56, 1368-1380. | 1.9 | 227 |
| 22 | Characterization of ambient PM2.5 at a pollution hotspot in New Delhi, India and inference of sources. Atmospheric Environment, 2015, 109, 178-189. | 4.1 | 217 |
| 23 | Source characterization of major emission sources in the Imperial and Mexicali Valleys along the US/Mexico border. Science of the Total Environment, 2001, 276, 33-47. | 8.0 | 205 |
| 24 | Source Apportionment: Findings from the U.S. Supersites Program. Journal of the Air and Waste Management Association, 2008, 58, 265-288. | 1.9 | 202 |
| 25 | Characterization of PM10 and PM2.5 source profiles for fugitive dust in Hong Kong. Atmospheric Environment, 2003, 37, 1023-1032. | 4.1 | 194 |
| 26 | Chemical Mass Balance Source Apportionment of PM10during the Southern California Air Quality Study. Aerosol Science and Technology, 1994, 21, 1-36. | 3.1 | 192 |
| 27 | Emissions from Laboratory Combustion of Wildland Fuels:Â Emission Factors and Source Profiles. Environmental Science & Technology, 2007, 41, 4317-4325. | 10.0 | 192 |
| 28 | Chemical composition of PM2.5 and PM10 in Mexico City during winter 1997. Science of the Total Environment, 2002, 287, 177-201. | 8.0 | 191 |
| 29 | PM10and PM2.5Compositions in California's San Joaquin Valley. Aerosol Science and Technology, 1993, 18, 105-128. | 3.1 | 181 |
| 30 | Monitoring of particulate matter outdoors. Chemosphere, 2002, 49, 1009-1043. | 8.2 | 179 |
| 31 | Black carbon relationships with emissions and meteorology in Xi'an, China. Atmospheric Research, 2009, 94, 194-202. | 4.1 | 172 |
| 32 | PM10 source apportionment in California's San Joaquin valley. Atmospheric Environment Part A General Topics, 1992, 26, 3335-3354. | 1.3 | 150 |
| 33 | A laboratory resuspension chamber to measure fugitive dust size distributions and chemical compositions. Atmospheric Environment, 1994, 28, 3463-3481. | 4.1 | 149 |
| 34 | Stable carbon isotopes in aerosols from Chinese cities: Influence of fossil fuels. Atmospheric Environment, 2011, 45, 1359-1363. | 4.1 | 149 |
| 35 | Fossil and contemporary fine particulate carbon fractions at 12 rural and urban sites in the United States. Journal of Geophysical Research, 2008, 113, . | 3.3 | 147 |
| 36 | Characterization of heavy-duty diesel vehicle emissions. Atmospheric Environment, 1994, 28, 731-743. | 4.1 | 144 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Dicarboxylic acids, ketocarboxylic acids, and dicarbonyls in the urban atmosphere of China. Journal of Geophysical Research, 2007, 112, . | 3.3 | 144 |
| 38 | Emissions of gas- and particle-phase polycyclic aromatic hydrocarbons (PAHs) in the Shing Mun Tunnel, Hong Kong. Atmospheric Environment, 2009, 43, 6343-6351. | 4.1 | 139 |
| 39 | Evaluation of an in-injection port thermal desorption-gas chromatography/mass spectrometry method for analysis of non-polar organic compounds in ambient aerosol samples. Journal of Chromatography A, 2008, 1200, 217-227. | 3.7 | 133 |
| 40 | Quality assurance and quality control for thermal/optical analysis of aerosol samples for organic and elemental carbon. Analytical and Bioanalytical Chemistry, 2011, 401, 3141-3152. | 3.7 | 133 |
| 41 | Similarities and differences in PM10 chemical source profiles for geological dust from the San Joaquin Valley, California. Atmospheric Environment, 2003, 37, 1317-1340. | 4.1 | 131 |
| 42 | The application of thermal methods for determining chemical composition of carbonaceous aerosols: A review. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 1521-1541. | 1.7 | 131 |
| 43 | PM2.5chemical composition and spatiotemporal variability during the California Regional PM10/PM2.5Air Quality Study (CRPAQS). Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 129 |
| 44 | Quantifying PM2.5Source Contributions for the San Joaquin Valley with Multivariate Receptor Models. Environmental Science & Technology, 2007, 41, 2818-2826. | 10.0 | 129 |
| 45 | Seasonal characteristics and regional transport of PM in Hong Kong. Atmospheric Environment, 2005, 39, 1695-1695. | 4.1 | 124 |
| 46 | Seasonal variations and sources of mass and chemical composition for PM10 aerosol in Hangzhou, China. Particuology, 2009, 7, 161-168. | 3.6 | 124 |
| 47 | Aerosol light absorption, black carbon, and elemental carbon at the Fresno Supersite, California. Atmospheric Research, 2009, 93, 874-887. | 4.1 | 123 |
| 48 | Inter-annual variability of wintertime PM 2.5 chemical composition in Xi'an, China: Evidences of changing source emissions. Science of the Total Environment, 2016, 545-546, 546-555. | 8.0 | 118 |
| 49 | Characterization of airborne carbonate over a site near Asian dust source regions during spring 2002 and its climatic and environmental significance. Journal of Geophysical Research, 2005, 110, . | 3.3 | 117 |
| 50 | Emissions from Charbroiling and Grilling of Chicken and Beef. Journal of the Air and Waste Management Association, 2003, 53, 185-194. | 1.9 | 116 |
| 51 | Emission characteristics of carbonaceous particles and trace gases from open burning of crop residues in China. Atmospheric Environment, 2015, 123, 399-406. | 4.1 | 114 |
| 52 | A wintertime PM2.5 episode at the Fresno, CA, supersite. Atmospheric Environment, 2002, 36, 465-475. | 4.1 | 113 |
| 53 | Methods to Assess Carbonaceous Aerosol Sampling Artifacts for IMPROVE and Other Long-Term Networks. Journal of the Air and Waste Management Association, 2009, 59, 898-911. | 1.9 | 112 |
| 54 | PM2.5 source profiles for black and organic carbon emission inventories. Atmospheric Environment, 2011, 45, 5407-5414. | 4.1 | 111 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | PM2.5 carbonate concentrations at regionally representative Interagency Monitoring of Protected Visual Environment sites. Journal of Geophysical Research, 2002, 107, ICC 6-1-ICC 6-9. | 3.3 | 109 |
| 56 | PM2.5 and PM10-2.5 chemical composition and source apportionment near a Hong Kong roadway. Particuology, 2015, 18, 96-104. | 3.6 | 109 |
| 57 | PM2.5 chemical composition in Hong Kong: urban and regional variations. Science of the Total Environment, 2005, 338, 267-281. | 8.0 | 108 |
| 58 | Seasonal variations and mass closure analysis of particulate matter in Hong Kong. Science of the Total Environment, 2006, 355, 276-287. | 8.0 | 102 |
| 59 | Evaluation of OC/EC Speciation by Thermal Manganese Dioxide Oxidation and the IMPROVE Method. Journal of the Air and Waste Management Association, 2002, 52, 1333-1341. | 1.9 | 101 |
| 60 | Will the Circle Be Unbroken: A History of the U.S. National Ambient Air Quality Standards. Journal of the Air and Waste Management Association, 2007, 57, 1151-1163. | 1.9 | 100 |
| 61 | Loss of PM<sub>2.5</sub> Nitrate from Filter Samples in Central California. Journal of the Air and Waste Management Association, 2005, 55, 1158-1168. | 1.9 | 99 |
| 62 | Remote sensing of PM, NO, CO and HC emission factors for on-road gasoline and diesel engine vehicles in Las Vegas, NV. Science of the Total Environment, 2004, 322, 123-137. | 8.0 | 93 |
| 63 | Correlation ofin VitroCytokine Responses with the Chemical Composition of Soil-Derived Particulate Matter. Environmental Health Perspectives, 2006, 114, 341-349. | 6.0 | 93 |
| 64 | Evaluation of the thermal/optical reflectance method for quantification of elemental carbon in sediments. Chemosphere, 2007, 69, 526-533. | 8.2 | 93 |
| 65 | Characterization of Roadside Fine Particulate Carbon and its Eight Fractions in Hong Kong. Aerosol and Air Quality Research, 2006, 6, 106-122. | 2.1 | 93 |
| 66 | Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition. Journal of the Air and Waste Management Association, 2008, 58, 141-163. | 1.9 | 91 |
| 67 | Receptor model and emissions inventory source apportionments of nonmethane organic gases in California's San Joaquin valley and San Francisco bay area. Atmospheric Environment, 1995, 29, 3019-3035. | 4.1 | 88 |
| 68 | Comparison of Continuous and Filter-Based Carbon Measurements at the Fresno Supersite. Journal of the Air and Waste Management Association, 2006, 56, 474-491. | 1.9 | 86 |
| 69 | Sources and chemistry of PM10 aerosol in Santa Barbara County, CA. Atmospheric Environment, 1996, 30, 1489-1499. | 4.1 | 85 |
| 70 | Validation of the Chemical Mass Balance Receptor Model Applied to Hydrocarbon Source Apportionment in the Southern California Air Quality Study. Environmental Science & Technology, 1994, 28, 1633-1649. | 10.0 | 84 |
| 71 | Designing monitoring networks to represent outdoor human exposure. Chemosphere, 2002, 49, 961-978. | 8.2 | 82 |
| 72 | Sensitivity of estimated light extinction coefficients to model assumptions and measurement errors. Atmospheric Environment, 1995, 29, 751-766. | 4.1 | 76 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Comparison and evaluation of in situ and filter carbon measurements at the Fresno Supersite. Journal of Geophysical Research, 2002, 107, ICC 3-1-ICC 3-15. | 3.3 | 74 |
| 74 | Precautions for in-injection port thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) as applied to aerosol filter samples. Atmospheric Environment, 2011, 45, 1491-1496. | 4.1 | 74 |
| 75 | Black and Organic Carbon Emission Inventories: Review and Application to California. Journal of the Air and Waste Management Association, 2010, 60, 497-507. | 1.9 | 72 |
| 76 | Air Quality Measurements from the Fresno Supersite. Journal of the Air and Waste Management Association, 2000, 50, 1321-1334. | 1.9 | 71 |
| 77 | PM10 measurements at McMurdo Station, Antarctica. Atmospheric Environment, 2001, 35, 1891-1902. | 4.1 | 71 |
| 78 | Modeling reflectance and transmittance of quartz-fiber filter samples containing elemental carbon particles: Implications for thermal/optical analysis. Journal of Aerosol Science, 2004, 35, 765-780. | 3.8 | 70 |
| 79 | Ammonium Nitrate, Nitric Acid, and Ammonia Equilibrium in Wintertime Phoenix, Arizona. Journal of the Air and Waste Management Association, 1994, 44, 405-412. | 0.6 | 66 |
| 80 | Comparison of PM2.5 carbon measurement methods in Hong Kong, China. Environmental Pollution, 2005, 137, 334-344. | 7.5 | 64 |
| 81 | Analysis of PM<sub>2.5</sub>and PM<sub>10</sub> in the Atmosphere of Mexico City during 2000-2002. Journal of the Air and Waste Management Association, 2004, 54, 786-798. | 1.9 | 63 |
| 82 | Chemical mass balance source apportionment for combined PM2.5 measurements from U.S. non-urban and urban long-term networksâ˜†. Atmospheric Environment, 2010, 44, 4908-4918. | 4.1 | 61 |
| 83 | Characteristics of fine particulate non-polar organic compounds in Guangzhou during the 16th Asian Games: Effectiveness of air pollution controls. Atmospheric Environment, 2013, 76, 94-101. | 4.1 | 61 |
| 84 | Evaluation of filter-based aerosol measurements during the 1987 Southern California Air Quality Study. Environmental Monitoring and Assessment, 1994, 30, 49-80. | 2.7 | 60 |
| 85 | Visibility: Science and Regulation. Journal of the Air and Waste Management Association, 2002, 52, 973-999. | 1.9 | 60 |
| 86 | Multi-year trend in fine and coarse particle mass, carbon, and ions in downtown Tokyo, Japan. Atmospheric Environment, 2006, 40, 2478-2487. | 4.1 | 58 |
| 87 | Characteristics of carbonaceous particles from residential coal combustion and agricultural biomass burning in China. Atmospheric Pollution Research, 2017, 8, 521-527. | 3.8 | 58 |
| 88 | Funeral Pyres in South Asia: Brown Carbon Aerosol Emissions and Climate Impacts. Environmental Science and Technology Letters, 2014, 1, 44-48. | 8.7 | 57 |
| 89 | Characterization of PM<sub>2.5</sub> and PM<sub>10</sub> fugitive dust source profiles in the Athabasca Oil Sands Region. Journal of the Air and Waste Management Association, 2015, 65, 1421-1433. | 1.9 | 57 |
| 90 | Cross-border transport and spatial variability of suspended particles in Mexicali and California's Imperial Valley. Atmospheric Environment, 2000, 34, 1833-1843. | 4.1 | 55 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Characterization and seasonal variations of levoglucosan in fine particulate matter in Xiâ€™an, China. Journal of the Air and Waste Management Association, 2014, 64, 1317-1327. | 1.9 | 55 |
| 92 | Separation of brown carbon from black carbon for IMPROVE and Chemical Speciation Network PM<sub>2.5</sub> samples. Journal of the Air and Waste Management Association, 2018, 68, 494-510. | 1.9 | 54 |
| 93 | Evaluation of 1047-nm Photoacoustic Instruments and Photoelectric Aerosol Sensors in Source-Sampling of Black Carbon Aerosol and Particle-Bound PAHs from Gasoline and Diesel Powered Vehicles. Environmental Science & Technology, 2005, 39, 5398-5406. | 10.0 | 53 |
| 94 | A neighborhood-scale study of PM10 source contributions in Rubidoux, California. Atmospheric Environment Part A General Topics, 1992, 26, 693-706. | 1.3 | 51 |
| 95 | Air pollution effects on fetal and child development: A cohort comparison in China. Environmental Pollution, 2014, 185, 90-96. | 7.5 | 51 |
| 96 | Determination of real-world emission factors of trace metals, EC, OC, BTEX, and semivolatile organic compounds (PAHs, PCBs and PCNs) in a rural tunnel in Bilecik, Turkey. Science of the Total Environment, 2018, 643, 1285-1296. | 8.0 | 51 |
| 97 | Spatial Differences in Outdoor PM<sub>10</sub> Mass and Aerosol Composition in Mexico City. Journal of the Air and Waste Management Association, 2002, 52, 423-434. | 1.9 | 50 |
| 98 | PM2.5 emissions and source profiles from open burning of crop residues. Atmospheric Environment, 2017, 169, 229-237. | 4.1 | 50 |
| 99 | Hyphenation of a carbon analyzer to photo-ionization mass spectrometry to unravel the organic composition of particulate matter on a molecular level. Analytical and Bioanalytical Chemistry, 2011, 401, 3153-3164. | 3.7 | 49 |
| 100 | Particle emissions from laboratory combustion of wildland fuels: In situ optical and mass measurements. Geophysical Research Letters, 2006, 33, . | 4.0 | 48 |
| 101 | Nanoparticle and Ultrafine Particle Events at the Fresno Supersite. Journal of the Air and Waste Management Association, 2006, 56, 417-430. | 1.9 | 48 |
| 102 | PM2.5and PM10Mass Measurements in California's San Joaquin Valley. Aerosol Science and Technology, 2006, 40, 796-810. | 3.1 | 48 |
| 103 | Effects of Snow Cover and Atmospheric Stability on Winter PM2.5 Concentrations in Western U.S. Valleys. Journal of Applied Meteorology and Climatology, 2015, 54, 1191-1201. | 1.5 | 48 |
| 104 | Soil sample collection and analysis for the Fugitive Dust Characterization Study. Atmospheric Environment, 2003, 37, 1163-1173. | 4.1 | 46 |
| 105 | Chemical Mass Balance. Data Handling in Science and Technology, 1991, , 83-116. | 3.1 | 45 |
| 106 | Comparability between PM2.5 and particle light scattering measurements. Environmental Monitoring and Assessment, 2002, 79, 29-45. | 2.7 | 45 |
| 107 | Particulate carbon measurements in Californiaâ€™s San Joaquin Valley. Chemosphere, 2006, 62, 337-348. | 8.2 | 45 |
| 108 | Toward Effective Source Apportionment Using Positive Matrix Factorization: Experiments with Simulated PM<sub>2.5</sub>Data. Journal of the Air and Waste Management Association, 2010, 60, 43-54. | 1.9 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Filter Processing and Gravimetric Analysis for Suspended Particulate Matter Samples. Aerosol Science and Engineering, 2017, 1, 93-105. | 1.9 | 45 |
| 110 | Reference Material 8785: Air Particulate Matter on Filter Media. Aerosol Science and Technology, 2005, 39, 173-183. | 3.1 | 44 |
| 111 | Multi-wavelength light absorption of black and brown carbon at a high-altitude site on the Southeastern margin of the Tibetan Plateau, China. Atmospheric Environment, 2019, 212, 54-64. | 4.1 | 43 |
| 112 | Temporal Variations of PM<sub>2.5</sub>, PM<sub>10</sub>, and Gaseous Precursors during the 1995 Integrated Monitoring Study in Central California. Journal of the Air and Waste Management Association, 1999, 49, 16-24. | 1.9 | 42 |
| 113 | Chapter one: exposure measurements. Chemosphere, 2002, 49, 873-901. | 8.2 | 41 |
| 114 | Exposure to PM2.5 and PAHs from the Tong Liang, China Epidemiological Study. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2006, 41, 517-542. | 1.7 | 41 |
| 115 | Coarse particle (PM10â€“2.5) source profiles for emissions from domestic cooking and industrial process in Central India. Science of the Total Environment, 2018, 627, 1137-1145. | 8.0 | 41 |
| 116 | Estimating Middle-, Neighborhood-, and Urban-Scale Contributions to Elemental Carbon in Mexico City with a Rapid Response Aethalometer. Journal of the Air and Waste Management Association, 2001, 51, 1522-1528. | 1.9 | 40 |
| 117 | Correlation between automotive CO, HC, NO, and PM emission factors from on-road remote sensing: implications for inspection and maintenance programs. Transportation Research, Part D: Transport and Environment, 2004, 9, 477-496. | 6.8 | 40 |
| 118 | Sources of PM10 and sulfate aerosol at McMurdo station, Antarctica. Chemosphere, 2001, 45, 347-356. | 8.2 | 39 |
| 119 | On-Road Measurement of Automotive Particle Emissions by Ultraviolet Lidar and Transmissometer:Â Instrument. Environmental Science & Technology, 2003, 37, 4971-4978. | 10.0 | 39 |
| 120 | PM2.5 and PM10 concentrations from the Qalabotjha low-smoke fuels macro-scale experiment in South Africa. Environmental Monitoring and Assessment, 2001, 69, 1-15. | 2.7 | 36 |
| 121 | The comparison of source contributions from residential coal and low-smoke fuels, using CMB modeling, in South Africa. Environmental Science and Policy, 2002, 5, 157-167. | 4.9 | 35 |
| 122 | Season and size of urban particulate matter differentially affect cytotoxicity and human immune responses to Mycobacterium tuberculosis. PLoS ONE, 2019, 14, e0219122. | 2.5 | 35 |
| 123 | Comparison of four scanning mobility particle sizers at the Fresno Supersite. Particuology, 2011, 9, 204-209. | 3.6 | 34 |
| 124 | Variations of nanoparticle concentrations at the Fresno Supersite. Science of the Total Environment, 2006, 358, 178-187. | 8.0 | 33 |
| 125 | Comparison of Particle Light Scattering and Fine Particulate Matter Mass in Central California. Journal of the Air and Waste Management Association, 2006, 56, 398-410. | 1.9 | 33 |
| 126 | Size-resolved aerosol chemical concentrations at rural and urban sites in Central California, USA. Atmospheric Research, 2008, 90, 243-252. | 4.1 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | PM<sub>2.5</sub> Source Apportionment: Reconciling Receptor Models for U.S. Nonurban and Urban Long-Term Networks. Journal of the Air and Waste Management Association, 2011, 61, 1204-1217. | 1.9 | 33 |
| 128 | Chemical speciation of aerosols and air quality degradation during the festival of lights (Diwali). Atmospheric Pollution Research, 2016, 7, 92-99. | 3.8 | 33 |
| 129 | Aerosol emissions factors from traditional biomass cookstoves in India: insights from field measurements. Atmospheric Chemistry and Physics, 2017, 17, 13721-13729. | 4.9 | 33 |
| 130 | Spatial and temporal variations of particulate precursor gases and photochemical reaction products during SJVAQS/AUSPEX ozone episodes. Atmospheric Environment, 1998, 32, 2835-2844. | 4.1 | 32 |
| 131 | Particulate emission factors for mobile fossil fuel and biomass combustion sources. Science of the Total Environment, 2011, 409, 2384-2396. | 8.0 | 32 |
| 132 | Considerations for design of source apportionment studies. Atmospheric Environment, 1984, 18, 1567-1582. | 1.0 | 31 |
| 133 | Particle Size Relationships at the Fresno Supersite. Journal of the Air and Waste Management Association, 2002, 52, 822-827. | 1.9 | 29 |
| 134 | Chemical characterization and source apportionment of size-resolved particles in Hong Kong sub-urban area. Atmospheric Research, 2016, 170, 112-122. | 4.1 | 29 |
| 135 | Cytotoxicity of PM2.5 vehicular emissions in the Shing Mun Tunnel, Hong Kong. Environmental Pollution, 2020, 263, 114386. | 7.5 | 29 |
| 136 | Dilution-Based Emissions Sampling from Stationary Sources: Part 2â€”Gas-Fired Combustors Compared with Other Fuel-Fired Systems. Journal of the Air and Waste Management Association, 2007, 57, 79-93. | 1.9 | 27 |
| 137 | PM<sub>2.5</sub> source apportionment with organic markers in the Southeastern Aerosol Research and Characterization (SEARCH) study. Journal of the Air and Waste Management Association, 2015, 65, 1104-1118. | 1.9 | 27 |
| 138 | Source apportionment of urban air pollutants using constrained receptor models with a priori profile information. Environmental Pollution, 2017, 227, 323-333. | 7.5 | 27 |
| 139 | Zones of representation for PM10 measurements along the US/Mexico border. Science of the Total Environment, 2001, 276, 49-68. | 8.0 | 26 |
| 140 | Filter Light Attenuation as a Surrogate for Elemental Carbon. Journal of the Air and Waste Management Association, 2010, 60, 1365-1375. | 1.9 | 26 |
| 141 | Gaseous, PM<sub>2.5</sub> mass, and speciated emission factors from laboratory chamber peat combustion. Atmospheric Chemistry and Physics, 2019, 19, 14173-14193. | 4.9 | 26 |
| 142 | The Effect of Sampling Inlets on the PM-10 and PM-15 to TSP Concentration Ratios. Journal of the Air Pollution Control Association, 1983, 33, 114-119. | 0.5 | 25 |
| 143 | Simulating Changes in Source Profiles from Coal-Fired Power Stations:â€‰ Use in Chemical Mass Balance of PM2.5 in the Mount Zirkel Wilderness. Energy & Fuels, 2002, 16, 311-324. | 5.1 | 25 |
| 144 | Characterization of Fine Particulate Emissions from Casting Processes. Aerosol Science and Technology, 2005, 39, 947-959. | 3.1 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Aerosol chemical composition and light scattering in Portland, Oregon: The role of carbon. Atmospheric Environment, 1984, 18, 235-240. | 1.0 | 24 |
| 146 | Hong Kong vehicle emission changes from 2003 to 2015 in the Shing Mun Tunnel. Aerosol Science and Technology, 2018, 52, 1085-1098. | 3.1 | 24 |
| 147 | The effects of collinearity on the ability to determine aerosol contributions from diesel- and gasoline-powered vehicles using the Chemical Mass Balance model. Atmospheric Environment Part A General Topics, 1992, 26, 2341-2351. | 1.3 | 23 |
| 148 | Continuous and filter-based measurements of PM2.5 nitrate and sulfate at the Fresno Supersite. Environmental Monitoring and Assessment, 2008, 144, 179-189. | 2.7 | 23 |
| 149 | The optical properties of urban aerosol in northern China: A case study at Xi'an. Atmospheric Research, 2015, 160, 59-67. | 4.1 | 22 |
| 150 | Public health and components of particulate matter: The changing assessment of black carbon. Journal of the Air and Waste Management Association, 2014, 64, 1221-1231. | 1.9 | 21 |
| 151 | Enhanced Ion Chromatographic Speciation of Water-Soluble PM$$_{2.5}$$ to Improve Aerosol Source Apportionment. Aerosol Science and Engineering, 2017, 1, 7-24. | 1.9 | 21 |
| 152 | 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 |
| 153 | Size and Geographical Variation in PM1, PM2.5and PM10: Source Profiles from Soils in the Western United States. Water, Air, and Soil Pollution, 2004, 157, 13-31. | 2.4 | 20 |
| 154 | Polycyclic aromatic compounds (PAHs, oxygenated PAHs, nitrated PAHs, and azaarenes) in air from four climate zones of China: Occurrence, gas/particle partitioning, and health risks. Science of the Total Environment, 2021, 786, 147234. | 8.0 | 20 |
| 155 | Contributions to light extinction during project MOHAVE. Atmospheric Environment, 2000, 34, 2351-2359. | 4.1 | 19 |
| 156 | Estimating aerosol light scattering at the Fresno Supersite. Atmospheric Environment, 2008, 42, 1186-1196. | 4.1 | 19 |
| 157 | Ambient Particulate Matter Air Pollution in Mpererwe District, Kampala, Uganda: A Pilot Study. Journal of Environmental and Public Health, 2014, 2014, 1-7. | 0.9 | 19 |
| 158 | Brownness of Organic Aerosol over the United States: Evidence for Seasonal Biomass Burning and Photobleaching Effects. Environmental Science & Technology, 2021, 55, 8561-8572. | 10.0 | 19 |
| 159 | Size-Differentiated Chemical Characteristics of Asian Paleo Dust: Records from Aeolian Deposition on Chinese Loess Plateau. Journal of the Air and Waste Management Association, 2011, 61, 180-189. | 1.9 | 18 |
| 160 | Elemental and morphological analyses of filter tape deposits from a beta attenuation monitor. Atmospheric Research, 2012, 106, 181-189. | 4.1 | 18 |
| 161 | Source apportionment of atmospheric particulate carbon in Las Vegas, Nevada, USA. Particuology, 2013, 11, 110-118. | 3.6 | 18 |
| 162 | Temporal and spatial variations of PM2.5 organic and elemental carbon in Central India. Environmental Geochemistry and Health, 2018, 40, 2205-2222. | 3.4 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Source Apportionment of Wintertime PM10at San Jose, Calif.. Journal of Environmental Engineering, ASCE, 1995, 121, 378-387. | 1.4 | 17 |
| 164 | Quantification of oxygenated polycyclic aromatic hydrocarbons in ambient aerosol samples using in-injection port thermal desorption-gas chromatography/mass spectrometry: Method exploration and validation. International Journal of Mass Spectrometry, 2018, 433, 25-30. | 1.5 | 17 |
| 165 | Household solid fuel burning emission characterization and activity levels in India. Science of the Total Environment, 2019, 654, 493-504. | 8.0 | 17 |
| 166 | Aerosol Chemical and Optical Properties during the Mt. Zirkel Visibility Study. Journal of Environmental Quality, 2001, 30, 1118-1125. | 2.0 | 16 |
| 167 | Changes in PM<sub>2.5</sub> peat combustion source profiles with atmospheric aging in an oxidation flow reactor. Atmospheric Measurement Techniques, 2019, 12, 5475-5501. | 3.1 | 16 |
| 168 | PM<sub>10</sub>Standards and Nontraditional Particulate Source Controls: A Summary of the A&WMA/EPA International Specialty Conference. Journal of the Air and Waste Management Association, 1993, 43, 74-84. | 0.6 | 14 |
| 169 | Seasonal and Spatial Variation of Solvent Extractable Organic Compounds in Fine Suspended Particulate Matter in Hong Kong. Journal of the Air and Waste Management Association, 2005, 55, 291-301. | 1.9 | 14 |
| 170 | Elemental composition of airborne aerosols at a traffic site and a suburban site in Hong Kong. International Journal of Environment and Pollution, 2009, 36, 166. | 0.2 | 14 |
| 171 | Biases in ketone measurements using DNPH-coated solid sorbent cartridges. Analytical Methods, 2014, 6, 967-974. | 2.7 | 14 |
| 172 | Characterization of smoke for spacecraft fire safety. Journal of Aerosol Science, 2019, 136, 36-47. | 3.8 | 14 |
| 173 | Fine Particle Receptor Modeling in the Atmosphere of Mexico City. Journal of the Air and Waste Management Association, 2009, 59, 1417-1428. | 1.9 | 13 |
| 174 | Quantification of nitrated-polycyclic aromatic hydrocarbons in atmospheric aerosol samples with in-injection port thermal desorption-gas chromatography/ negative chemical ionization mass spectrometry method. Atmospheric Environment, 2018, 192, 84-93. | 4.1 | 13 |
| 175 | Receptor Models in Air Resources Management: A Summary of the APCA International Specialty Conference. Japca, 1989, 39, 419-426. | 0.3 | 12 |
| 176 | Study of carbonaceous fractions associated with indoor PM2.5/PM10 during Asian cultural and ritual burning practices. Building and Environment, 2016, 106, 229-236. | 6.9 | 12 |
| 177 | Characterization and health risk assessment of PM2.5-bound organics inside and outside of Chinese smoking lounges. Chemosphere, 2017, 186, 438-445. | 8.2 | 12 |
| 178 | Air quality measurementsâ€"From rubber bands to tapping the rainbow. Journal of the Air and Waste Management Association, 2017, 67, 637-668. | 1.9 | 11 |
| 179 | Black carbon, organic carbon, and co-pollutant emissions and energy efficiency from artisanal brick production in Mexico. Atmospheric Chemistry and Physics, 2018, 18, 6023-6037. | 4.9 | 11 |
| 180 | Inter-comparison of elemental and organic carbon mass measurements from three North American national long-term monitoring networks at a co-located site. Atmospheric Measurement Techniques, 2019, 12, 4543-4560. | 3.1 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Results of a Receptor Modeling Feasibility Study. Japca, 1988, 38, 661-667. | 0.3 | 10 |
| 182 | Dilution sampling and analysis of particulate matter in biomass-derived syngas. Frontiers of Environmental Science and Engineering in China, 2011, 5, 320-330. | 0.8 | 10 |
| 183 | Constraining aerosol optical models using ground-based, collocated particle size and mass measurements in variable air mass regimes during the 7-SEAS/Dongsha experiment. Atmospheric Environment, 2013, 78, 163-173. | 4.1 | 10 |
| 184 | Emissions and Partitioning of Intermediate-Volatility and Semi-Volatile Polar Organic Compounds (I/SV-POCs) During Laboratory Combustion of Boreal and Sub-Tropical Peat. Aerosol Science and Engineering, 2017, 1, 25-32. | 1.9 | 10 |
| 185 | Volatility Distribution of Organic Compounds in Sewage Incineration Emissions. Environmental Science & Technology, 2020, 54, 14235-14245. | 10.0 | 10 |
| 186 | Improved estimation of PM2.5 brown carbon contributions to filter light attenuation. Particuology, 2021, 56, 1-9. | 3.6 | 10 |
| 187 | Review of Respirable Coal Mine Dust Characterization for Mass Concentration, Size Distribution and Chemical Composition. Minerals (Basel, Switzerland), 2021, 11, 426. | 2.0 | 9 |
| 188 | Receptor Models and Measurements for Identifying and Quantifying Air Pollution Sources. , 2015, , 677-706. | | 8 |
| 189 | Decreasing concentrations of carbonaceous aerosols in China from 2003 to 2013. Scientific Reports, 2021, 11, 5352. | 3.3 | 8 |
| 190 | Ambient Air Quality at Barton Flats and Other California Forests. Ecological Studies, 1999, , 81-105. | 1.2 | 8 |
| 191 | Feasibility of Soil Dust Source Apportionment by the Pyrolysis-Gas Chromatography/Mass Spectrometry Method. Journal of the Air and Waste Management Association, 2006, 56, 1230-1242. | 1.9 | 7 |
| 192 | Prescribed burn smoke impact in the Lake Tahoe Basin: model simulation and field verification. International Journal of Environment and Pollution, 2013, 52, 225. | 0.2 | 6 |
| 193 | Spatial distribution of PM2.5-bound elements in eighteen cities over China: policy implication and health risk assessment. Environmental Geochemistry and Health, 2021, 43, 4771-4788. | 3.4 | 6 |
| 194 | Apportionment of Vehicle Fleet Emissions by Linear Regression, Positive Matrix Factorization, and Emission Modeling. Atmosphere, 2022, 13, 1066. | 2.3 | 6 |
| 195 | Light absorption by black sand dust. Applied Optics, 2000, 39, 4232. | 2.1 | 5 |
| 196 | Feasibility of coupling a thermal/optical carbon analyzer to a quadrupole mass spectrometer for enhanced PM2.5 speciation. Journal of the Air and Waste Management Association, 2018, 68, 463-476. | 1.9 | 5 |
| 197 | PM<sub>2.5</sub> pollution in Chinaâ€™s Guanzhong Basin and the USAâ€™s San Joaquin Valley mega-regions. Faraday Discussions, 2021, 226, 255-289. | 3.2 | 5 |
| 198 | Assessing the magnitude of PM2.5 polycyclic aromatic hydrocarbon emissions from residential solid fuel combustion and associated health hazards in South Asia. Atmospheric Pollution Research, 2021, 12, 101142. | 3.8 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes. Journal of the Air and Waste Management Association, 2008, 58, 553-561. | 1.9 | 4 |
| 200 | Air quality measurementsâ€"From rubber bands to tapping the rainbow. Journal of the Air and Waste Management Association, 2017, 67, 1159-1168. | 1.9 | 4 |
| 201 | RECEPTOR MODELS FOR SOURCE APPORTIONMENT OF SUSPENDED PARTICLES. , 2007, , 273-310. | | 3 |
| 202 | Measuring the Organic Carbon to Organic Matter Multiplier with Thermal/Optical Carbon-Quadrupole Mass Spectrometer Analyses. Aerosol Science and Engineering, 2018, 2, 165-172. | 1.9 | 3 |
| 203 | Public Health and Components of Particulate Matter: The Changing Assessment of Black Carbon. Journal of the Air and Waste Management Association, 2014, 64, 617-619. | 1.9 | 2 |
| 204 | Winter Urban Particulate Chemistry and Denverâ€™s â€œBrown Cloudâ€• Part II. Air Chemistry and Meteorology. Aerosol Science and Engineering, 2020, 4, 80-100. | 1.9 | 2 |
| 205 | Methodology to Create Reproducible Validation/Reference Materials for Comparison of Filter-Based Measurements of Carbonaceous Aerosols That Measure BC, BrC, EC, OC, and TC. Metrology, 2021, 1, 142-165. | 1.5 | 2 |
| 206 | Quantification of carboxylâ€functionalized multiwall carbon nanotubes in plant tissues with programmed thermal analysis. Journal of Environmental Quality, 2021, 50, 278-285. | 2.0 | 0 |