

# Quan-Fu He

## List of Publications by Year in descending order

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46  
papers

2,470  
citations

126708

33  
h-index

223531

46  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2671  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracer-based estimation of secondary organic carbon in the Pearl River Delta, south China. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	149
2	Source Apportionment Using Radiocarbon and Organic Tracers for PM <sub>2.5</sub> Carbonaceous Aerosols in Guangzhou, South China: Contrasting Local- and Regional-Scale Haze Events. <i>Environmental Science &amp; Technology</i> , 2014, 48, 12002-12011.	4.6	132
3	Source attributions of hazardous aromatic hydrocarbons in urban, suburban and rural areas in the Pearl River Delta (PRD) region. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 403-411.	6.5	120
4	Secondary organic aerosols over oceans via oxidation of isoprene and monoterpenes from Arctic to Antarctic. <i>Scientific Reports</i> , 2013, 3, 2280.	1.6	98
5	Formation of Secondary Brown Carbon in Biomass Burning Aerosol Proxies through NO <sub>3</sub> Radical Reactions. <i>Environmental Science &amp; Technology</i> , 2020, 54, 1395-1405.	4.6	96
6	Spatial distributions of secondary organic aerosols from isoprene, monoterpenes, <i>l</i> -caryophyllene, and aromatics over China during summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,877-11,891.	1.2	91
7	Secondary organic aerosol formation from photochemical aging of light-duty gasoline vehicle exhausts in a smog chamber. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9049-9062.	1.9	90
8	Design and characterization of a smog chamber for studying gas-phase chemical mechanisms and aerosol formation. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 301-313.	1.2	89
9	Organosulfates from Pinene and Isoprene over the Pearl River Delta, South China: Seasonal Variation and Implication in Formation Mechanisms. <i>Environmental Science &amp; Technology</i> , 2014, 48, 9236-9245.	4.6	89
10	Exposure of Lung Epithelial Cells to Photochemically Aged Secondary Organic Aerosol Shows Increased Toxic Effects. <i>Environmental Science and Technology Letters</i> , 2018, 5, 424-430.	3.9	83
11	Dynamic changes in optical and chemical properties of tar ball aerosols by atmospheric photochemical aging. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 139-163.	1.9	81
12	Formation of secondary aerosols from gasoline vehicle exhaust when mixing with SO <sub>2</sub> . <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 675-689.	1.9	70
13	Aerosol scattering coefficients and major chemical compositions of fine particles observed at a rural site in the central Pearl River Delta, South China. <i>Journal of Environmental Sciences</i> , 2012, 24, 72-77.	3.2	69
14	Seasonal variation of secondary organic aerosol tracers in Central Tibetan Plateau. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8781-8793.	1.9	68
15	Composition profiles of organic aerosols from Chinese residential cooking: case study in urban Guangzhou, south China. <i>Journal of Atmospheric Chemistry</i> , 2015, 72, 1-18.	1.4	65
16	Source apportionment of atmospheric PAHs and their toxicity using PMF: Impact of gas/particle partitioning. <i>Atmospheric Environment</i> , 2015, 103, 114-120.	1.9	65
17	Chemical Composition and Molecular-Specific Optical Properties of Atmospheric Brown Carbon Associated with Biomass Burning. <i>Environmental Science &amp; Technology</i> , 2021, 55, 2511-2521.	4.6	58
18	Connecting the Oxidative Potential of Secondary Organic Aerosols with Reactive Oxygen Species in Exposed Lung Cells. <i>Environmental Science &amp; Technology</i> , 2019, 53, 13949-13958.	4.6	55

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19	Roadside and rooftop measurements of polycyclic aromatic hydrocarbons in PM <sub>2.5</sub> in urban Guangzhou: Evaluation of vehicular and regional combustion source contributions. <i>Atmospheric Environment</i> , 2011, 45, 7184-7191.	1.9	53
20	Changes in visibility with PM <sub>2.5</sub> composition and relative humidity at a background site in the Pearl River Delta region. <i>Journal of Environmental Sciences</i> , 2016, 40, 10-19.	3.2	53
21	Primary particulate emissions and secondary organic aerosol (SOA) formation from idling diesel vehicle exhaust in China. <i>Science of the Total Environment</i> , 2017, 593-594, 462-469.	3.9	53
22	Significant Increase of Aromatics-Derived Secondary Organic Aerosol during Fall to Winter in China. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7432-7441.	4.6	52
23	Spatial and seasonal variations of isoprene secondary organic aerosol in China: Significant impact of biomass burning during winter. <i>Scientific Reports</i> , 2016, 6, 20411.	1.6	49
24	Compositions and sources of organic acids in fine particles (PM <sub>2.5</sub> ) over the Pearl River Delta region, south China. <i>Journal of Environmental Sciences</i> , 2014, 26, 110-121.	3.2	48
25	Trends of ambient fine particles and major chemical components in the Pearl River Delta region: Observation at a regional background site in fall and winter. <i>Science of the Total Environment</i> , 2014, 497-498, 274-281.	3.9	44
26	Attributing risk burden of PM <sub>2.5</sub> -bound polycyclic aromatic hydrocarbons to major emission sources: Case study in Guangzhou, south China. <i>Atmospheric Environment</i> , 2016, 142, 313-323.	1.9	44
27	Evolution of the Complex Refractive Index of Secondary Organic Aerosols during Atmospheric Aging. <i>Environmental Science &amp; Technology</i> , 2018, 52, 3456-3465.	4.6	40
28	Mechanisms of lung toxicity induced by biomass burning aerosols. <i>Particle and Fibre Toxicology</i> , 2020, 17, 4.	2.8	39
29	On-road vehicle emissions of glyoxal and methylglyoxal from tunnel tests in urban Guangzhou, China. <i>Atmospheric Environment</i> , 2016, 127, 55-60.	1.9	38
30	Calibration of a multi-pass photoacoustic spectrometer cell using light-absorbing aerosols. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1203-1213.	1.2	37
31	Secondary organic aerosol formation from photo-oxidation of toluene with NO <sub>x</sub> and SO <sub>2</sub> : Chamber simulation with purified air versus urban ambient air as matrix. <i>Atmospheric Environment</i> , 2017, 150, 67-76.	1.9	36
32	PM <sub>2.5</sub> acidity at a background site in the Pearl River Delta region in fall-winter of 2007-2012. <i>Journal of Hazardous Materials</i> , 2015, 286, 484-492.	6.5	35
33	Optical Properties of Secondary Organic Aerosol Produced by Nitrate Radical Oxidation of Biogenic Volatile Organic Compounds. <i>Environmental Science &amp; Technology</i> , 2021, 55, 2878-2889.	4.6	35
34	Spatial and seasonal variations of secondary organic aerosol from terpenoids over China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,661.	1.2	29
35	The importance of non-fossil sources in carbonaceous aerosols in a megacity of central China during the 2013 winter haze episode: A source apportionment constrained by radiocarbon and organic tracers. <i>Atmospheric Environment</i> , 2016, 144, 60-68.	1.9	29
36	Laboratory Insights into the Diel Cycle of Optical and Chemical Transformations of Biomass Burning Brown Carbon Aerosols. <i>Environmental Science &amp; Technology</i> , 2020, 54, 11827-11837.	4.6	28

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37	Secondary Organic Aerosol Formation From Isoprene Epoxides in the Pearl River Delta, South China: IEPOX and HMML Derived Tracers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6999-7012.	1.2	27
38	Effect of traffic restriction on reducing ambient volatile organic compounds (VOCs): Observation-based evaluation during a traffic restriction drill in Guangzhou, China. <i>Atmospheric Environment</i> , 2017, 161, 61-70.	1.9	25
39	Molecular Analysis of Secondary Brown Carbon Produced from the Photooxidation of Naphthalene. <i>Environmental Science &amp; Technology</i> , 2022, 56, 3340-3353.	4.6	22
40	Optical Properties of Secondary Organic Aerosol Produced by Photooxidation of Naphthalene under NOx Condition. <i>Environmental Science &amp; Technology</i> , 2022, 56, 4816-4827.	4.6	20
41	Nationwide increase of polycyclic aromatic hydrocarbons in ultrafine particles during winter over China revealed by size-segregated measurements. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14581-14595.	1.9	19
42	Scattering and absorption cross sections of atmospheric gases in the ultraviolet-visible wavelength range (307-725 nm). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14927-14940.	1.9	13
43	Secondary organic aerosols produced from photochemical oxidation of secondarily evaporated biomass burning organic gases: Chemical composition, toxicity, optical properties, and climate effect. <i>Environment International</i> , 2021, 157, 106801.	4.8	11
44	Observational Insights into Isoprene Secondary Organic Aerosol Formation through the Epoxide Pathway at Three Urban Sites from Northern to Southern China. <i>Environmental Science &amp; Technology</i> , 2022, , .	4.6	6
45	Evolution of light absorption properties during photochemical aging of straw open burning aerosols. <i>Science of the Total Environment</i> , 2022, 838, 156431.	3.9	4
46	Chemical composition and morphological analysis of atmospheric particles from an intensive bonfire burning festival. <i>Environmental Science Atmospheres</i> , 2022, 2, 616-633.	0.9	1