Junfeng Wang

List of Publications by Year
in descending order

62	2,167	201575	233338
papers	citations	27 h-index	45 g-index

81	81	81	2228
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast sulfate formation from oxidation of SO2 by NO2 and HONO observed in Beijing haze. Nature Communications, 2020, 11, 2844.	5.8	161
2	Changes in Aerosol Chemistry From 2014 to 2016 in Winter in Beijing: Insights From Highâ€Resolution Aerosol Mass Spectrometry. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1132-1147.	1.2	155
3	By-products recycling for syngas cleanup in biomass pyrolysis â€“ An overview. Renewable and Sustainable Energy Reviews, 2016, 59, 1246-1268.	8.2	109
4	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.	1.9	96
5	Contrasting physical properties of black carbon in urban Beijing between winter and summer. Atmospheric Chemistry and Physics, 2019, 19, 6749-6769.	1.9	89
6	Waste-to-energy: Dehalogenation of plastic-containing wastes. Waste Management, 2016, 49, 287-303.	3.7	86
7	Characterization of black carbon-containing fine particles in Beijing during wintertime. Atmospheric Chemistry and Physics, 2019, 19, 447-458.	1.9	84
8	Aerosol characteristics and sources in Yangzhou, China resolved by offline aerosol mass spectrometry and other techniques. Environmental Pollution, 2017, 225, 74-85.	3.7	82
9	Seasonal light absorption properties of water-soluble brown carbon in atmospheric fine particles in Nanjing, China. Atmospheric Environment, 2018, 187, 230-240.	1.9	80
10	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, .	3.3	75
11	Vertical characterization of aerosol optical properties and brown carbon in winter in urban Beijing, China. Atmospheric Chemistry and Physics, 2019, 19, 165-179.	1.9	73
12	Observation of Fullerene Soot in Eastern China. Environmental Science and Technology Letters, 2016, 3, 121-126.	3.9	67
13	Changes of air quality and its associated health and economic burden in 31 provincial capital cities in China during COVID-19 pandemic. Atmospheric Research, 2021, 249, 105328.	1.8	60
14	Toxicological effects of chlorpyrifos on growth, enzyme activity and chlorophyll a synthesis of freshwater microalgae. Environmental Toxicology and Pharmacology, 2016, 45, 179-186.	2.0	59
15	Production of N₂O₅ and ClNO₂ in summer in urban Beijing, China. Atmospheric Chemistry and Physics, 2018, 18, 11581-11597.	1.9	57
16	Organic Aerosol Processing During Winter Severe Haze Episodes in Beijing. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10248-10263.	1.2	56
17	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.	4.6	55
18	Characteristics and Formation Mechanisms of Fine Particulate Nitrate in Typical Urban Areas in China. Atmosphere, 2017, 8, 62.	1.0	52

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19	Responses of secondary aerosols to relative humidity and photochemical activities in an industrialized environment during late winter. Atmospheric Environment, 2018, 193, 66-78.	1.9	49
20	Light absorption enhancement of black carbon in urban Beijing in summer. Atmospheric Environment, 2019, 213, 499-504.	1.9	49
21	Oil sludge recycling by ash-catalyzed pyrolysis-reforming processes. Fuel, 2016, 182, 871-878.	3.4	47
22	Summertime aerosol volatility measurements in Beijing, China. Atmospheric Chemistry and Physics, 2019, 19, 10205-10216.	1.9	45
23	Chemical characteristics of submicron particles at the central Tibetan Plateau: insights from aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2018, 18, 427-443.	1.9	42
24	Brown carbon in atmospheric fine particles in Yangzhou, China: Light absorption properties and source apportionment. Atmospheric Research, 2020, 244, 105028.	1.8	42
25	Summertime Day-Night Differences of PM2.5 Components (Inorganic Ions, OC, EC, WSOC, WSON, HULIS,) Tj ETQq1 1 0.784314 rgB	1.0	31
26	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.	2.7	28
27	Vertical Characterization and Source Apportionment of Water-Soluble Organic Aerosol with High-resolution Aerosol Mass Spectrometry in Beijing, China. ACS Earth and Space Chemistry, 2019, 3, 273-284.	1.2	28
28	Characterization of Size-Resolved Hygroscopicity of Black Carbon-Containing Particle in Urban Environment. Environmental Science & Technology, 2019, 53, 14212-14221.	4.6	27
29	Characterization of submicron organic particles in Beijing during summertime: comparison between SP-AMS and HR-AMS. Atmospheric Chemistry and Physics, 2020, 20, 14091-14102.	1.9	19
30	Characteristics and potential sources of black carbon particles in suburban Nanjing, China. Atmospheric Pollution Research, 2020, 11, 981-991.	1.8	18
31	Fluorescence Aerosol Flow Tube Spectroscopy to Detect Liquidâ€“Liquid Phase Separation. ACS Earth and Space Chemistry, 2021, 5, 1223-1232.	1.2	18
32	Characteristics and sources of ambient refractory black carbon aerosols: Insights from soot particle aerosol mass spectrometer. Atmospheric Environment, 2018, 185, 147-152.	1.9	16
33	Investigation of formation mechanism of particulate matter in a laboratory-scale simulated cement kiln co-processing municipal sewage sludge. Journal of Cleaner Production, 2019, 234, 822-831.	4.6	15
34	Comparison of air pollutants and their health effects in two developed regions in China during the COVID-19 pandemic. Journal of Environmental Management, 2021, 287, 112296.	3.8	15
35	Humidity Dependence of the Condensational Growth of Î±-Pinene Secondary Organic Aerosol Particles. Environmental Science & Technology, 2021, 55, 14360-14369.	4.6	15
36	Characteristics of Black Carbon Particle-Bound Polycyclic Aromatic Hydrocarbons in Two Sites of Nanjing and Shanghai, China. Atmosphere, 2020, 11, 202.	1.0	13

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37	Aerosol Measurements by Soot Particle Aerosol Mass Spectrometer: a Review. Current Pollution Reports, 2020, 6, 440-451.	3.1	12
38	Chemical characteristics, sources and evolution processes of fine particles in Linâ€™an, Yangtze River Delta, China. Chemosphere, 2020, 254, 126851.	4.2	11
39	Prediction of water quality based on SVR by fluorescence excitation-emission matrix and UVâ€“Vis absorption spectrum. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 273, 121059.	2.0	11
40	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.	3.9	10
41	Assessing the Nonlinear Effect of Atmospheric Variables on Primary and Oxygenated Organic Aerosol Concentration Using Machine Learning. ACS Earth and Space Chemistry, 2022, 6, 1059-1066.	1.2	8
42	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.	1.5	7
43	Molecular characterization of biomass burning tracer compounds in fine particles in Nanjing, China. Atmospheric Environment, 2020, 240, 117837.	1.9	7
44	Optical fiber temperature sensor with insensitive refractive index and strain based on phase demodulation. Microwave and Optical Technology Letters, 2020, 62, 3733-3738.	0.9	7
45	Chemical properties, sources and size-resolved hygroscopicity of submicron black-carbon-containing aerosols in urban Shanghai. Atmospheric Chemistry and Physics, 2022, 22, 8073-8096.	1.9	7
46	Impacts of relative humidity on fine aerosol properties via environmental wind tunnel experiments. Atmospheric Environment, 2019, 206, 21-29.	1.9	6
47	Characteristics, formation, and sources of PM2.5 in 2020 in Suzhou, Yangtze River Delta, China. Environmental Research, 2022, 212, 113545.	3.7	6
48	Disentangling drivers of air pollutant and health risk changes during the COVID-19 lockdown in China. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	6
49	Thermodynamic modeling of electrolyte solutions by a hybrid ion-interaction and solvation (HIS) model. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2015, 48, 79-88.	0.7	5
50	Estimation of aerosol liquid water from optical scattering instruments using ambient and dried sample streams. Atmospheric Environment, 2020, 239, 117787.	1.9	5
51	Synergistic Uptake by Acidic Sulfate Particles of Gaseous Mixtures of Glyoxal and Pinanediol. Environmental Science & Technology, 2020, 54, 11762-11770.	4.6	5
52	Elemental analysis of oxygenated organic coating on black carbon particles using a soot-particle aerosol mass spectrometer. Atmospheric Measurement Techniques, 2021, 14, 2799-2812.	1.2	5
53	Secondary organic aerosol formation from photooxidation of C3H6 under the presence of NH3: Effects of seed particles. Environmental Research, 2022, 211, 113064.	3.7	5
54	Seasonal variations and potential sources of biomass burning tracers in particulate matter in Nanjing aerosols during 2017â€“2018. Chemosphere, 2022, 303, 135015.	4.2	5

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55	A preliminary study on wind tunnel simulations of the explosive growth and dissipation of fine particulate matter in ambient air. Atmospheric Research, 2020, 235, 104635.	1.8	4
56	Gain-type optomechanically induced absorption and precise mass sensor in a hybrid optomechanical system. Journal of Applied Physics, 2021, 129, 084504.	1.1	4
57	Partitioning of Organonitrates in the Production of Secondary Organic Aerosols from Î±-Pinene Photo-Oxidation. Environmental Science & Technology, 2022, 56, 5421-5429.	4.6	4
58	Source identification and characterization of organic nitrogen in atmospheric aerosols at a suburban site in China. Science of the Total Environment, 2022, 818, 151800.	3.9	3
59	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.	3.9	3
60	Evolution in physiochemical and cloud condensation nuclei activation properties of crop residue burning particles during photochemical aging. Journal of Environmental Sciences, 2019, 77, 43-53.	3.2	2
61	Enhancement of Upper Second-Order Sidebands Based on Optomechanically Induced Absorption in a Double-Cavity Optomechanical System. IEEE Photonics Journal, 2021, 13, 1-11.	1.0	1
62	Crystal structure of N-propynoyl-(5R)-3-methyl- 5-phenylmorpholin-2-one, C14H13NO3. Zeitschrift Fur Kristallographie - New Crystal Structures, 2012, 227, .	0.1	0