

Junfeng Wang

List of Publications by Year in descending order

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62
papers

2,167
citations

201575

27
h-index

233338

45
g-index

81
all docs

81
docs citations

81
times ranked

2228
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of regional emission controls on the chemical composition, sources, and size distributions of submicron aerosols: Insights from the 2014 Nanjing Youth Olympic Games. <i>Science of the Total Environment</i> , 2022, 807, 150869.	3.9	10
2	Source identification and characterization of organic nitrogen in atmospheric aerosols at a suburban site in China. <i>Science of the Total Environment</i> , 2022, 818, 151800.	3.9	3
3	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. <i>Science of the Total Environment</i> , 2022, 819, 153069.	3.9	3
4	Assessing the Nonlinear Effect of Atmospheric Variables on Primary and Oxygenated Organic Aerosol Concentration Using Machine Learning. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1059-1066.	1.2	8
5	Prediction of water quality based on SVR by fluorescence excitation-emission matrix and UV-Vis absorption spectrum. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 273, 121059.	2.0	11
6	Secondary organic aerosol formation from photooxidation of C ₃ H ₆ under the presence of NH ₃ : Effects of seed particles. <i>Environmental Research</i> , 2022, 211, 113064.	3.7	5
7	Partitioning of Organonitrates in the Production of Secondary Organic Aerosols from α -Pinene Photo-Oxidation. <i>Environmental Science & Technology</i> , 2022, 56, 5421-5429.	4.6	4
8	Seasonal variations and potential sources of biomass burning tracers in particulate matter in Nanjing aerosols during 2017–2018. <i>Chemosphere</i> , 2022, 303, 135015.	4.2	5
9	Characteristics, formation, and sources of PM _{2.5} in 2020 in Suzhou, Yangtze River Delta, China. <i>Environmental Research</i> , 2022, 212, 113545.	3.7	6
10	Chemical properties, sources and size-resolved hygroscopicity of submicron black-carbon-containing aerosols in urban Shanghai. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8073-8096.	1.9	7
11	Disentangling drivers of air pollutant and health risk changes during the COVID-19 lockdown in China. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	2.6	6
12	Changes of air quality and its associated health and economic burden in 31 provincial capital cities in China during COVID-19 pandemic. <i>Atmospheric Research</i> , 2021, 249, 105328.	1.8	60
13	Aqueous production of secondary organic aerosol from fossil-fuel emissions in winter Beijing haze. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	75
14	Gain-type optomechanically induced absorption and precise mass sensor in a hybrid optomechanical system. <i>Journal of Applied Physics</i> , 2021, 129, 084504.	1.1	4
15	Elemental analysis of oxygenated organic coating on black carbon particles using a soot-particle aerosol mass spectrometer. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 2799-2812.	1.2	5
16	Enhancement of Upper Second-Order Sidebands Based on Optomechanically Induced Absorption in a Double-Cavity Optomechanical System. <i>IEEE Photonics Journal</i> , 2021, 13, 1-11.	1.0	1
17	Fluorescence Aerosol Flow Tube Spectroscopy to Detect Liquid–Liquid Phase Separation. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1223-1232.	1.2	18
18	Comparison of air pollutants and their health effects in two developed regions in China during the COVID-19 pandemic. <i>Journal of Environmental Management</i> , 2021, 287, 112296.	3.8	15

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19	Humidity Dependence of the Condensational Growth of $\hat{\alpha}$ -Pinene Secondary Organic Aerosol Particles. <i>Environmental Science & Technology</i> , 2021, 55, 14360-14369.	4.6	15
20	A preliminary study on wind tunnel simulations of the explosive growth and dissipation of fine particulate matter in ambient air. <i>Atmospheric Research</i> , 2020, 235, 104635.	1.8	4
21	Evolution of Aerosol Under Moist and Fog Conditions in a Rural Forest Environment: Insights From High-Resolution Aerosol Mass Spectrometry. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089714.	1.5	7
22	Molecular characterization of biomass burning tracer compounds in fine particles in Nanjing, China. <i>Atmospheric Environment</i> , 2020, 240, 117837.	1.9	7
23	Optical fiber temperature sensor with insensitive refractive index and strain based on phase demodulation. <i>Microwave and Optical Technology Letters</i> , 2020, 62, 3733-3738.	0.9	7
24	Estimation of aerosol liquid water from optical scattering instruments using ambient and dried sample streams. <i>Atmospheric Environment</i> , 2020, 239, 117787.	1.9	5
25	Aerosol Measurements by Soot Particle Aerosol Mass Spectrometer: a Review. <i>Current Pollution Reports</i> , 2020, 6, 440-451.	3.1	12
26	Synergistic Uptake by Acidic Sulfate Particles of Gaseous Mixtures of Glyoxal and Pinanediol. <i>Environmental Science & Technology</i> , 2020, 54, 11762-11770.	4.6	5
27	Brown carbon in atmospheric fine particles in Yangzhou, China: Light absorption properties and source apportionment. <i>Atmospheric Research</i> , 2020, 244, 105028.	1.8	42
28	Chemical characteristics, sources and evolution processes of fine particles in Lin'an, Yangtze River Delta, China. <i>Chemosphere</i> , 2020, 254, 126851.	4.2	11
29	Fast sulfate formation from oxidation of SO ₂ by NO ₂ and HONO observed in Beijing haze. <i>Nature Communications</i> , 2020, 11, 2844.	5.8	161
30	Characteristics of Black Carbon Particle-Bound Polycyclic Aromatic Hydrocarbons in Two Sites of Nanjing and Shanghai, China. <i>Atmosphere</i> , 2020, 11, 202.	1.0	13
31	Characteristics and potential sources of black carbon particles in suburban Nanjing, China. <i>Atmospheric Pollution Research</i> , 2020, 11, 981-991.	1.8	18
32	Characterization of submicron organic particles in Beijing during summertime: comparison between SP-AMS and HR-AMS. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14091-14102.	1.9	19
33	Evolution in physiochemical and cloud condensation nuclei activation properties of crop residue burning particles during photochemical aging. <i>Journal of Environmental Sciences</i> , 2019, 77, 43-53.	3.2	2
34	Investigation of formation mechanism of particulate matter in a laboratory-scale simulated cement kiln co-processing municipal sewage sludge. <i>Journal of Cleaner Production</i> , 2019, 234, 822-831.	4.6	15
35	Organic Aerosol Processing During Winter Severe Haze Episodes in Beijing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10248-10263.	1.2	56
36	Characterization of Size-Resolved Hygroscopicity of Black Carbon-Containing Particle in Urban Environment. <i>Environmental Science & Technology</i> , 2019, 53, 14212-14221.	4.6	27

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37	Summertime aerosol volatility measurements in Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10205-10216.	1.9	45
38	Characterization of black carbon-containing fine particles in Beijing during wintertime. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 447-458.	1.9	84
39	Vertical characterization of aerosol optical properties and brown carbon in winter in urban Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 165-179.	1.9	73
40	Light absorption enhancement of black carbon in urban Beijing in summer. <i>Atmospheric Environment</i> , 2019, 213, 499-504.	1.9	49
41	Contrasting physical properties of black carbon in urban Beijing between winter and summer. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6749-6769.	1.9	89
42	Impacts of relative humidity on fine aerosol properties via environmental wind tunnel experiments. <i>Atmospheric Environment</i> , 2019, 206, 21-29.	1.9	6
43	Changes in Aerosol Chemistry From 2014 to 2016 in Winter in Beijing: Insights From High-Resolution Aerosol Mass Spectrometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1132-1147.	1.2	155
44	Vertical Characterization and Source Apportionment of Water-Soluble Organic Aerosol with High-resolution Aerosol Mass Spectrometry in Beijing, China. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 273-284.	1.2	28
45	Chemical characteristics of submicron particles at the central Tibetan Plateau: insights from aerosol mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 427-443.	1.9	42
46	Responses of secondary aerosols to relative humidity and photochemical activities in an industrialized environment during late winter. <i>Atmospheric Environment</i> , 2018, 193, 66-78.	1.9	49
47	Production of N ₂ O ₅ and ClNO ₂ in summer in urban Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11581-11597.	1.9	57
48	Characteristics and sources of ambient refractory black carbon aerosols: Insights from soot particle aerosol mass spectrometer. <i>Atmospheric Environment</i> , 2018, 185, 147-152.	1.9	16
49	Seasonal light absorption properties of water-soluble brown carbon in atmospheric fine particles in Nanjing, China. <i>Atmospheric Environment</i> , 2018, 187, 230-240.	1.9	80
50	Aerosol characteristics and sources in Yangzhou, China resolved by offline aerosol mass spectrometry and other techniques. <i>Environmental Pollution</i> , 2017, 225, 74-85.	3.7	82
51	Light absorption by water-soluble organic carbon in atmospheric fine particles in the central Tibetan Plateau. <i>Environmental Science and Pollution Research</i> , 2017, 24, 21386-21397.	2.7	28
52	First Chemical Characterization of Refractory Black Carbon Aerosols and Associated Coatings over the Tibetan Plateau (4730 m a.s.l.). <i>Environmental Science & Technology</i> , 2017, 51, 14072-14082.	4.6	55
53	Summertime Day-Night Differences of PM _{2.5} Components (Inorganic Ions, OC, EC, WSOC, WSON, HULIS,) Tj ETQq1.1 0.784314 rgB / 1.0 31	1.0	31
54	Characteristics and Formation Mechanisms of Fine Particulate Nitrate in Typical Urban Areas in China. <i>Atmosphere</i> , 2017, 8, 62.	1.0	52

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55	By-products recycling for syngas cleanup in biomass pyrolysis – An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 1246-1268.	8.2	109
56	Highly time-resolved urban aerosol characteristics during springtime in Yangtze River Delta, China: insights from soot particle aerosol mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9109-9127.	1.9	96
57	Toxicological effects of chlorpyrifos on growth, enzyme activity and chlorophyll a synthesis of freshwater microalgae. <i>Environmental Toxicology and Pharmacology</i> , 2016, 45, 179-186.	2.0	59
58	Oil sludge recycling by ash-catalyzed pyrolysis-reforming processes. <i>Fuel</i> , 2016, 182, 871-878.	3.4	47
59	Observation of Fullerene Soot in Eastern China. <i>Environmental Science and Technology Letters</i> , 2016, 3, 121-126.	3.9	67
60	Waste-to-energy: Dehalogenation of plastic-containing wastes. <i>Waste Management</i> , 2016, 49, 287-303.	3.7	86
61	Thermodynamic modeling of electrolyte solutions by a hybrid ion-interaction and solvation (HIS) model. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2015, 48, 79-88.	0.7	5
62	Crystal structure of N-propynoyl-(5R)-3-methyl- 5-phenylmorpholin-2-one, C ₁₄ H ₁₃ NO ₃ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2012, 227, .	0.1	0