

# Bin Zhu

## List of Publications by Year in descending order

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106  
papers

3,092  
citations

186265

28  
h-index

189892

50  
g-index

120  
all docs

120  
docs citations

120  
times ranked

3066  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lithium-plasmon-based low-powered dynamic color display. <i>National Science Review</i> , 2023, 10, .	9.5	8
2	The Seesaw Pattern of PM <sub>2.5</sub> Interannual Anomalies Between Beijing-Tianjin-Hebei and Yangtze River Delta Across Eastern China in Winter. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
3	DOCK2 regulates antifungal immunity by regulating RAC GTPase activity. <i>Cellular and Molecular Immunology</i> , 2022, 19, 602-618.	10.5	9
4	Gene-Based Methods for Estimating the Degree of the Skewness of X Chromosome Inactivation. <i>Genes</i> , 2022, 13, 827.	2.4	0
5	Effects of different types of heat wave days on ozone pollution over Beijing-Tianjin-Hebei and its future projection. <i>Science of the Total Environment</i> , 2022, 837, 155762.	8.0	10
6	Study of Cyclozaprid Co-crystals: Characterization, Theory Calculation, Solubility, and Stability. <i>Crystal Growth and Design</i> , 2022, 22, 4437-4452.	3.0	8
7	Source apportionments of black carbon induced by local and regional transport in the atmospheric boundary layer of the Yangtze River Delta under stable weather conditions. <i>Science of the Total Environment</i> , 2022, 840, 156517.	8.0	2
8	Stable and transport indices applied to winter air pollution over the Yangtze River Delta, China. <i>Environmental Pollution</i> , 2021, 272, 115954.	7.5	18
9	Inconsistent urbanization effects on summer precipitation over the typical climate regions in central and eastern China. <i>Theoretical and Applied Climatology</i> , 2021, 143, 73-85.	2.8	9
10	Slow-Release Drug-Drug Cocrystals of Oxaliplatin with Flavonoids: Delaying Hydrolysis and Reducing Toxicity. <i>Crystal Growth and Design</i> , 2021, 21, 75-85.	3.0	22
11	The Effect of Aerosols on Fog Lifetime: Observational Evidence and Model Simulations. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL61803.	4.0	6
12	Five novel MOFs with various dimensions as efficient catalysts for oxygen evolution reactions. <i>CrystEngComm</i> , 2021, 23, 5475-5480.	2.6	6
13	A series of novel Co( <i>scp</i> )-based MOFs: syntheses, structural diversity, and various properties. <i>CrystEngComm</i> , 2021, 23, 6376-6387.	2.6	6
14	Estimation of radiative forcing and heating rate based on vertical observation of black carbon in Nanjing, China. <i>Science of the Total Environment</i> , 2021, 756, 144135.	8.0	17
15	Simulation study on the indirect effect of sulfate on the summer climate over the eastern China monsoon region. <i>Scientific Reports</i> , 2021, 11, 8295.	3.3	5
16	A nucleotide-sensing endonuclease from the Gabija bacterial defense system. <i>Nucleic Acids Research</i> , 2021, 49, 5216-5229.	14.5	50
17	The Fast Response of the Atmospheric Water Cycle to Anthropogenic Black Carbon Aerosols during Summer in East Asia. <i>Journal of Climate</i> , 2021, 34, 3049-3065.	3.2	1
18	Insight into the Formation of Cocrystals of Flavonoids and 4,4'-Vinylendipyridine: Heteromolecular Hydrogen Bonds, Molar Ratio, and Structural Analysis. <i>Crystal Growth and Design</i> , 2021, 21, 2720-2733.	3.0	12

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19	Observational Signal of the Interaction Between Mountainâ€‘Plain Wind and Urban Breeze Under Weak Synoptic Systems. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032809.	3.3	1
20	Threeâ€‘Dimensional Distribution of PM <sub>2.5</sub> over the Yangtze River Delta as Cold Fronts Moving Through. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034035.	3.3	15
21	Analysis of the Effect of Optical Properties of Black Carbon on Ozone in an Urban Environment at the Yangtze River Delta, China. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 1153-1164.	4.3	7
22	High-Efficiency Organic Contaminants Remover Based on Modulated Self-Assembly of Cobalt Metalâ€‘Organic Frameworks. <i>Crystal Growth and Design</i> , 2021, 21, 4305-4317.	3.0	8
23	A single mutation attenuates both the transcription termination and RNA-dependent RNA polymerase activity of T7 RNA polymerase. <i>RNA Biology</i> , 2021, 18, 451-466.	3.1	8
24	SMINBR: An Integrated Network and Chemoinformatics Tool Specialized for Prediction of Two-Component Crystal Formation. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 4290-4302.	5.4	5
25	A New Approach for Simultaneous Estimation of Entrainment and Detrainment Rates in Nonâ€‘Precipitating Shallow Cumulus. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093817.	4.0	10
26	A Bifunctional â€‘Offâ€‘Onâ€‘Fluorescence Probe Based on Naphthalene for the Detection of Ag <sup>+</sup> and Al <sup>3+</sup> and Its Application in Practical Water Samples, as a Logic gate and as Test Paper. <i>ChemistrySelect</i> , 2021, 6, 8830-8838.	1.5	4
27	A black carbon peak and its sources in the free troposphere of Beijing induced by cyclone lifting and transport from central China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15555-15567.	4.9	2
28	Longâ€‘Term Variation and Source Apportionment of Black Carbon at Mt. Waliguan, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035273.	3.3	5
29	Molecular Dissection of the Primase and Polymerase Activities of Deep-Sea Phage NrS-1 Primase-Polymerase. <i>Frontiers in Microbiology</i> , 2021, 12, 766612.	3.5	2
30	Characterization and Source Apportionment of Fine Particles during a Heavy Pollution Episode over the Yangtze River Delta, China. <i>Atmosphere</i> , 2020, 11, 720.	2.3	4
31	Strategy for Efficient Discovery of Cocrystals via a Network-Based Recommendation Model. <i>Crystal Growth and Design</i> , 2020, 20, 6820-6830.	3.0	17
32	One water-stable magnetic coordination polymer material (Fe <sub>3</sub> O <sub>4</sub> @PmPDâ€‘[Co-BT]) as an efficient adsorbent for rapid dye removal. <i>New Journal of Chemistry</i> , 2020, 44, 20626-20633.	2.8	4
33	Regional and Sectoral Sources for Black Carbon Over South China in Spring and Their Sensitivity to East Asian Summer Monsoon Onset. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033219.	3.3	9
34	Ozone pollution over China and India: seasonality and sources. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4399-4414.	4.9	79
35	Annual variations of black carbon over the Yangtze River Delta from 2015 to 2018. <i>Journal of Environmental Sciences</i> , 2020, 96, 72-84.	6.1	22
36	Real-time geochemistry of urban aerosol during a heavy dust episode by single-particle aerosol mass spectrometer: Spatio-temporal variability, mixing state and spectral distribution. <i>Particulogy</i> , 2020, 53, 197-207.	3.6	4

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37	To what extents do urbanization and air pollution affect fog?. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5559-5572.	4.9	25
38	Zn-MOFs based luminescent sensors for selective and highly sensitive detection of Fe <sup>3+</sup> and tetracycline antibiotic. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 188, 113444.	2.8	32
39	Atmospheric heating rate due to black carbon aerosols: Uncertainties and impact factors. <i>Atmospheric Research</i> , 2020, 240, 104891.	4.1	26
40	Optical Properties of Aerosols and Chemical Composition Apportionment under Different Pollution Levels in Wuhan during January 2018. <i>Atmosphere</i> , 2020, 11, 17.	2.3	6
41	Characteristics of Aerosol during a Severe Haze-Fog Episode in the Yangtze River Delta: Particle Size Distribution, Chemical Composition, and Optical Properties. <i>Atmosphere</i> , 2020, 11, 56.	2.3	12
42	Characteristics of Volatile Organic Compounds in Nanjing and Suzhou, Two Urban Sites in the Yangtze River Delta, China. <i>Archives of Environmental Contamination and Toxicology</i> , 2020, 78, 416-429.	4.1	6
43	The Cyclic Oligoadenylate Signaling Pathway of Type III CRISPR-Cas Systems. <i>Frontiers in Microbiology</i> , 2020, 11, 602789.	3.5	9
44	Establishment of Conceptual Schemas of Surface Synoptic Meteorological Situations Affecting Fine Particulate Pollution Across Eastern China in the Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033153.	3.3	24
45	What have we missed when studying the impact of aerosols on surface ozone via changing photolysis rates?. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10831-10844.	4.9	38
46	The Observation Path Problems and the Formation Conditions of the Elevated Layer of Black Carbon Aerosol. <i>Atmosphere</i> , 2020, 11, 481.	2.3	0
47	Inter-annual variability in fine particulate matter pollution over China during 2013–2018: Role of meteorology. <i>Atmospheric Environment</i> , 2019, 214, 116842.	4.1	46
48	Enhancing the solubility of natural compound xanthotoxin by modulating stability via cocrystallization engineering. <i>International Journal of Pharmaceutics</i> , 2019, 572, 118776.	5.2	12
49	Klebsiella Phage KP34 RNA Polymerase and Its Use in RNA Synthesis. <i>Frontiers in Microbiology</i> , 2019, 10, 2487.	3.5	9
50	Potential impacts of cold frontal passage on air quality over the Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3673-3685.	4.9	78
51	Chemical composition of dew water at a suburban site in Nanjing, China, during the 2016–2017 winter. <i>Atmospheric Environment</i> , 2019, 211, 226-233.	4.1	15
52	PM <sub>2.5</sub> vertical variation during a fog episode in a rural area of the Yangtze River Delta, China. <i>Science of the Total Environment</i> , 2019, 685, 555-563.	8.0	19
53	Intercomparison of Soil Moisture Retrieved from GNSS-R and from Passive L-Band Radiometry at the Valencia Anchor Station. <i>Sensors</i> , 2019, 19, 1900.	3.8	8
54	Optical Properties and Radiative Forcing of Aged BC due to Hygroscopic Growth: Effects of the Aggregate Structure. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4620-4633.	3.3	27

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55	Two Inversion Layers and Their Impacts on PM <sub>2.5</sub> Concentration over the Yangtze River Delta, China. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 2349-2362.	1.5	14
56	Crystal structure and physical stability of ginsenoside compound-K solvates. <i>CrystEngComm</i> , 2019, 21, 7313-7321.	2.6	6
57	Study on pollution behavior and sulfate formation during the typical haze event in Nanjing with water soluble inorganic ions and sulfur isotopes. <i>Atmospheric Research</i> , 2019, 217, 198-207.	4.1	29
58	Long-Term Fog Variation and Its Impact Factors Over Polluted Regions of East China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1741-1754.	3.3	14
59	Vertical distributions of black carbon aerosols over rural areas of the Yangtze River Delta in winter. <i>Science of the Total Environment</i> , 2019, 661, 1-9.	8.0	29
60	Natural and anthropogenic contributions to long-term variations of SO <sub>2</sub> , NO <sub>2</sub> , CO, and AOD over East China. <i>Atmospheric Research</i> , 2019, 215, 284-293.	4.1	55
61	Quantitative identification of moisture sources over the Tibetan Plateau and the relationship between thermal forcing and moisture transport. <i>Climate Dynamics</i> , 2019, 52, 181-196.	3.8	36
62	On Which Microphysical Time Scales to Use in Studies of Entrainment-Mixing Mechanisms in Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3740-3756.	3.3	23
63	Comparison of parameterizations for the atmospheric extinction coefficient in Lin'an, China. <i>Science of the Total Environment</i> , 2018, 621, 507-515.	8.0	14
64	Measurement of ambient aerosols by single particle mass spectrometry in the Yangtze River Delta, China: Seasonal variations, mixing state and meteorological effects. <i>Atmospheric Research</i> , 2018, 213, 562-575.	4.1	14
65	Quantifying Arctic lower stratospheric ozone sources in winter and spring. <i>Scientific Reports</i> , 2018, 8, 8934.	3.3	1
66	Effects of black carbon and boundary layer interaction on surface ozone in Nanjing, China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7081-7094.	4.9	58
67	Deep-sea vent phage DNA polymerase specifically initiates DNA synthesis in the absence of primers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2310-E2318.	7.1	26
68	Source Apportionment of Volatile Organic Compounds in an Urban Environment at the Yangtze River Delta, China. <i>Archives of Environmental Contamination and Toxicology</i> , 2017, 72, 335-348.	4.1	69
69	Phosphorus removal from aqueous solution in parent and aluminum-modified eggshells: thermodynamics and kinetics, adsorption mechanism, and diffusion process. <i>Environmental Science and Pollution Research</i> , 2017, 24, 14525-14536.	5.3	31
70	Spatial and Temporal Distributions of Air Pollutants and Size Distribution of Aerosols over Central and Eastern China. <i>Archives of Environmental Contamination and Toxicology</i> , 2017, 72, 481-495.	4.1	8
71	Optical properties of black carbon aggregates with non-absorptive coating. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 187, 443-452.	2.3	45
72	Source Apportionment of Tropospheric Ozone by Chemical Transport Model: From Global to City Cluster. , 2017, , 191-217.		0

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73	Impact of Taihu Lake on city ozone in the Yangtze River Delta. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 226-234.	4.3	13
74	Seasonal variation of columnar aerosol optical properties and radiative forcing over Beijing, China. <i>Atmospheric Environment</i> , 2017, 166, 340-350.	4.1	38
75	Aerosol and boundary-layer interactions and impact on air quality. <i>National Science Review</i> , 2017, 4, 810-833.	9.5	524
76	Analysis of extinction properties as a function of relative humidity using a &lt;i>EC-Mie model in Nanjing. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4147-4157.	4.9	16
77	Characteristics of Carbonaceous Aerosol in a Typical Industrial Cityâ€”Nanjing in Yangtze River Delta, China: Size Distributions, Seasonal Variations, and Sources. <i>Atmosphere</i> , 2017, 8, 73.	2.3	15
78	Source apportionment of atmospheric water over East Asia â€” a source tracer study in CAM5.1. <i>Geoscientific Model Development</i> , 2017, 10, 673-688.	3.6	24
79	Simulation of tropical tropospheric ozone variation from 1982 to 2010: The meteorological impact of two types of ENSO event. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9220-9236.	3.3	6
80	Analysis of the seasonal ozone budget and the impact of the summer monsoon on the northeastern Qinghaiâ€”Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2029-2042.	3.3	17
81	The impact of the direct effects of sulfate and black carbon aerosols on the subseasonal march of the East Asian subtropical summer monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2610-2625.	3.3	6
82	One year online measurements of water-soluble ions at the industrially polluted town of Nanjing, China: Sources, seasonal and diurnal variations. <i>Chemosphere</i> , 2016, 148, 526-536.	8.2	69
83	Temporal Variations of O <sub>3</sub> and NO <sub>x</sub> in the Urban Background Atmosphere of Nanjing, East China. <i>Archives of Environmental Contamination and Toxicology</i> , 2016, 71, 224-234.	4.1	21
84	A case study of surface ozone source apportionment during a high concentration episode, under frequent shifting wind conditions over the Yangtze River Delta, China. <i>Science of the Total Environment</i> , 2016, 544, 853-863.	8.0	97
85	Measurement and analysis of surface aerosol optical properties over urban Nanjing in the Chinese Yangtze River Delta. <i>Science of the Total Environment</i> , 2016, 542, 277-291.	8.0	37
86	Impact of Shanghai urban land surface forcing on downstream city ozone chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4340-4351.	3.3	49
87	Differences in ozone photochemical characteristics between the megacity Nanjing and its suburban surroundings, Yangtze River Delta, China. <i>Environmental Science and Pollution Research</i> , 2015, 22, 19607-19617.	5.3	68
88	Characteristics of new particle formation events in Nanjing, China: Effect of water-soluble ions. <i>Atmospheric Environment</i> , 2015, 108, 32-40.	4.1	34
89	Water-soluble ions in atmospheric aerosols measured in five sites in the Yangtze River Delta, China: Size-fractionated, seasonal variations and sources. <i>Atmospheric Environment</i> , 2015, 123, 370-379.	4.1	69
90	Mixing state of individual carbonaceous particles during a severe haze episode in January 2013, Nanjing, China. <i>Particuology</i> , 2015, 20, 16-23.	3.6	23

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91	The impacts of summer monsoons on the ozone budget of the atmospheric boundary layer of the Asia-Pacific region. <i>Science of the Total Environment</i> , 2015, 502, 641-649.	8.0	20
92	Source apportionment of VOCs in a suburb of Nanjing, China, in autumn and winter. <i>Journal of Atmospheric Chemistry</i> , 2014, 71, 175-193.	3.2	32
93	Number size distribution of aerosols at Mt. Huang and Nanjing in the Yangtze River Delta, China: Effects of air masses and characteristics of new particle formation. <i>Atmospheric Research</i> , 2014, 150, 42-56.	4.1	50
94	Impact of Megacity Shanghai on the Urban Heat-Island Effects over the Downstream City Kunshan. <i>Boundary-Layer Meteorology</i> , 2014, 152, 411-426.	2.3	25
95	Analysis of seasonal ozone budget and spring ozone latitudinal gradient variation in the boundary layer of the Asia-Pacific region. <i>Atmospheric Environment</i> , 2014, 94, 734-741.	4.1	16
96	Mechanism for the formation and microphysical characteristics of submicron aerosol during heavy haze pollution episode in the Yangtze River Delta, China. <i>Science of the Total Environment</i> , 2014, 490, 501-508.	8.0	89
97	Analysis of a long-lasting haze episode in Nanjing, China. <i>Atmospheric Research</i> , 2013, 120-121, 78-87.	4.1	146
98	Aerosol spectra and new particle formation observed in various seasons in Nanjing. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 1632-1644.	4.3	26
99	Diagnostics for a Linear Model with First-Order Autoregressive Symmetrical Errors. <i>Communications in Statistics - Theory and Methods</i> , 2013, 42, 2335-2350.	1.0	1
100	Size distributions of aerosol and water-soluble ions in Nanjing during a crop residual burning event. <i>Journal of Environmental Sciences</i> , 2012, 24, 1457-1465.	6.1	20
101	Investigation on the direct radiative effect of fossil fuel black-carbon aerosol over China. <i>Theoretical and Applied Climatology</i> , 2011, 104, 301-312.	2.8	39
102	Seasonal variation of columnar aerosol optical properties in Yangtze River Delta in China. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 1326-1335.	4.3	29
103	Seasonal variability of aerosol optical properties over Beijing. <i>Atmospheric Environment</i> , 2009, 43, 4095-4101.	4.1	75
104	Ground-based observation of aerosol optical properties in Lanzhou, China. <i>Journal of Environmental Sciences</i> , 2009, 21, 1519-1524.	6.1	18
105	Applying fuzzy multiple attributes decision making for product configuration. <i>Journal of Intelligent Manufacturing</i> , 2008, 19, 591-598.	7.3	38
106	Why does surface ozone peak in summertime at Waliguan?. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	69