Fang Zhang

List of Publications by Year
in descending order

54 papers	2,951 citations	236925 25 h-index	168389 53 g-index
62 all docs	62 docs citations	62 times ranked	3119 citing authors

#	Article	IF	Citations
1	Persistent sulfate formation from London Fog to Chinese haze. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13630-13635.	7.1	1,044
2	East Asian Study of Tropospheric Aerosols and their Impact on Regional Clouds, Precipitation, and Climate (EASTâ€AIR_{CPC}). Journal of Geophysical Research D: Atmospheres, 2019, 124, 13026-13054.	3.3	175
3	Reassessing the atmospheric oxidation mechanism of toluene. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8169-8174.	7.1	151
4	An unexpected catalyst dominates formation and radiative forcing of regional haze. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3960-3966.	7.1	132
5	Remarkable nucleation and growth of ultrafine particles from vehicular exhaust. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3427-3432.	7.1	122
6	Explosive Secondary Aerosol Formation during Severe Haze in the North China Plain. Environmental Science & Technology, 2021, 55, 2189-2207.	10.0	96
7	Particle acidity and sulfate production during severe haze events in China cannot be reliably inferred by assuming a mixture of inorganic salts. Atmospheric Chemistry and Physics, 2018, 18, 10123-10132.	4.9	90
8	The characteristics of atmospheric CO2 concentration variation of four national background stations in China. Science in China Series D: Earth Sciences, 2009, 52, 1857-1863.	0.9	55
9	Facile One-Pot Direct Arylation and Alkylation of Nitropyridine <i>N</i>-Oxides with Grignard Reagents. Organic Letters, 2011, 13, 6102-6105.	4.6	55
10	Enhanced hydrophobicity and volatility of submicron aerosols under severe emission control conditions in Beijing. Atmospheric Chemistry and Physics, 2017, 17, 5239-5251.	4.9	55
11	Simultaneous measurements of particle number size distributions at ground level and 260â€‾m on a meteorological tower in urban Beijing, China. Atmospheric Chemistry and Physics, 2017, 17, 6797-6811.	4.9	52
12	Using different assumptions of aerosol mixing state and chemical composition to predict CCN concentrations based on field measurements in urban Beijing. Atmospheric Chemistry and Physics, 2018, 18, 6907-6921.	4.9	49
13	Characterization of aerosol hygroscopicity, mixing state, and CCN activity at a suburban site in the central North China Plain. Atmospheric Chemistry and Physics, 2018, 18, 11739-11752.	4.9	48
14	Growth rates of fine aerosol particles at a site near Beijing in June 2013. Advances in Atmospheric Sciences, 2018, 35, 209-217.	4.3	45
15	Impacts of organic aerosols and its oxidation level on CCN activity from measurement at a suburban site in China. Atmospheric Chemistry and Physics, 2016, 16, 5413-5425.	4.9	42
16	Uncertainty in Predicting CCN Activity of Aged and Primary Aerosols. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,723.	3.3	39
17	Significant contribution of organics to aerosol liquid water content in winter in Beijing, China. Atmospheric Chemistry and Physics, 2020, 20, 901-914.	4.9	39
18	Characterization of submicron aerosols at a suburban site in central China. Atmospheric Environment, 2016, 131, 115-123.	4.1	37

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19	Aircraft measurements of the vertical distribution and activation property of aerosol particles over the Loess Plateau in China. Atmospheric Research, 2015, 155, 73-86.	4.1	35
20	Chemical and optical properties of aerosols and their interrelationship in winter in the megacity Shanghai of China. Journal of Environmental Sciences, 2015, 27, 59-69.	6.1	33
21	Contrasting size-resolved hygroscopicity of fine particles derived by HTDMA and HR-ToF-AMS measurements between summer and winter in Beijing: the impacts of aerosol aging and local emissions. Atmospheric Chemistry and Physics, 2020, 20, 915-929.	4.9	33
22	Emission or atmospheric processes? An attempt to attribute the source of large bias of aerosols in eastern China simulated by global climate models. Atmospheric Chemistry and Physics, 2018, 18, 1395-1417.	4.9	32
23	Unexpected Oligomerization of Small Î±-Dicarbonyls for Secondary Organic Aerosol and Brown Carbon Formation. Environmental Science & Technology, 2021, 55, 4430-4439.	10.0	31
24	Influences of aerosol physiochemical properties and new particle formation on CCN activity from observation at a suburban site of China. Atmospheric Research, 2017, 188, 80-89.	4.1	30
25	Temporal variation of atmospheric CH4 and the potential source regions at Waliguan, China. Science China Earth Sciences, 2013, 56, 727-736.	5.2	29
26	Carbenium ion-mediated oligomerization of methylglyoxal for secondary organic aerosol formation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13294-13299.	7.1	28
27	Distinct weekly cycles of thunderstorms and a potential connection with aerosol type in China. Geophysical Research Letters, 2016, 43, 8760-8768.	4.0	26
28	Analysis of patterns in the concentrations of atmospheric greenhouse gases measured in two typical urban clusters in China. Atmospheric Environment, 2018, 173, 343-354.	4.1	24
29	Measurement report: Aircraft observations of ozone, nitrogen oxides, and volatile organic compounds over Hebei Province, China. Atmospheric Chemistry and Physics, 2020, 20, 14523-14545.	4.9	23
30	Substitution of the Nitro Group with Grignard Reagents: Facile Arylation and Alkenylation of PyridineN-Oxides. Organic Letters, 2012, 14, 5618-5620.	4.6	20
31	Short-term variations of atmospheric CO2 and dominant causes in summer and winter: Analysis of 14-year continuous observational data at Waliguan, China. Atmospheric Environment, 2013, 77, 140-148.	4.1	20
32	Characterizing the ratio of nitrate to sulfate in ambient fine particles of urban Beijing during 2018â€“2019. Atmospheric Environment, 2020, 237, 117662.	4.1	20
33	Aerosol chemistry and particle growth events at an urban downwind site in North China Plain. Atmospheric Chemistry and Physics, 2018, 18, 14637-14651.	4.9	19
34	An improved algorithm for retrieving the fine-mode fraction of aerosol optical thickness. Part 2: Application and validation in Asia. Remote Sensing of Environment, 2019, 222, 90-103.	11.0	19
35	The large proportion of black carbon (BC)-containing aerosols in the urban atmosphere. Environmental Pollution, 2020, 263, 114507.	7.5	19
36	Quantify contribution of aerosol errors to cloud fraction biases in CMIP5 Atmospheric Model Intercomparison Project simulations. International Journal of Climatology, 2018, 38, 3140-3156.	3.5	17

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37	Significantly Enhanced Aerosol CCN Activity and Number Concentrations by Nucleationâ€Initiated Haze Events: A Case Study in Urban Beijing. Journal of Geophysical Research D: Atmospheres, 2019, 124, 14102-14113.	3.3	17
38	Retrieval of Cloud Condensation Nuclei Number Concentration Profiles From Lidar Extinction and Backscatter Data. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6082-6098.	3.3	16
39	The impact of the atmospheric turbulence-development tendency on new particle formation: a common finding on three continents. National Science Review, 2021, 8, nwaa157.	9.5	16
40	Background Characteristics of Atmospheric CO2 and the Potential Source Regions in the Pearl River Delta Region of China. Advances in Atmospheric Sciences, 2020, 37, 557-568.	4.3	13
41	Hygroscopicity of Organic Aerosols Linked to Formation Mechanisms. Geophysical Research Letters, 2021, 48, e2020GL091683.	4.0	13
42	Distinct Ultrafineâ€•and Accumulationâ€Mode Particle Properties in Clean and Polluted Urban Environments. Geophysical Research Letters, 2019, 46, 10918-10925.	4.0	12
43	The NPF Effect on CCN Number Concentrations: A Review and Reâ€Evaluation of Observations From 35 Sites Worldwide. Geophysical Research Letters, 2021, 48, e2021GL095190.	4.0	12
44	1,2â€Addition of Alkyl Grignard Reagents to the Nitro Group: Simple Access to 2â€[Alkyl(hydroxy)amino]pyridine <i>N</i>â€Oxides and 2â€Alkylaminopyridine <i>N</i>â€Oxides. European Journal of Organic Chemistry, 2013, 2013, 6152-6157.	2.4	8
45	Detection and attribution of regional CO2 concentration anomalies using surface observations. Atmospheric Environment, 2015, 123, 88-101.	4.1	8
46	Comparison of Atmospheric CO 2 , CH 4 , and CO at Two Stations in the Tibetan Plateau of China. Earth and Space Science, 2020, 7, e2019EA001051.	2.6	8
47	Rapid narrowing of the urbanâ€“suburban gap in air pollutant concentrations in Beijing from 2014 to 2019. Environmental Pollution, 2022, 304, 119146.	7.5	8
48	Measurement report: Hygroscopic growth of ambient fine particles measured at five sites in China. Atmospheric Chemistry and Physics, 2022, 22, 6773-6786.	4.9	8
49	The effect of black carbon aging from NO2 oxidation of SO2 on its morphology, optical and hygroscopic properties. Environmental Research, 2022, 212, 113238.	7.5	7
50	Vertical Characteristics of Pollution Transport in Hong Kong and Beijing, China. Atmosphere, 2021, 12, 457.	2.3	5
51	Evaluation of the contribution of new particle formation to cloud droplet number concentration in the urban atmosphere. Atmospheric Chemistry and Physics, 2021, 21, 14293-14308.	4.9	5
52	A Large Impact of Cooking Organic Aerosol (COA) on Particle Hygroscopicity and CCN Activity in Urban Atmosphere. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033628.	3.3	4
53	Characterizing the volatility and mixing state of ambient fine particles in the summer and winter of urban Beijing. Atmospheric Chemistry and Physics, 2022, 22, 2293-2307.	4.9	2
54	Overview of Persistent Haze Events in China. , 2017, , 3-25.		1