

# Guoshun Zhuang

## List of Publications by Year in descending order

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68  
papers

4,009  
citations

136950

32  
h-index

123424

61  
g-index

72  
all docs

72  
docs citations

72  
times ranked

4740  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Characteristics of PM <sub>2.5</sub> and PM <sub>10</sub> in Haze~Fog Episodes in Beijing. <i>Environmental Science &amp; Technology</i> , 2006, 40, 3148-3155.	10.0	727
2	Link between iron and sulphur cycles suggested by detection of Fe(n) in remote marine aerosols. <i>Nature</i> , 1992, 355, 537-539.	27.8	358
3	The chemistry of the severe acidic precipitation in Shanghai, China. <i>Atmospheric Research</i> , 2008, 89, 149-160.	4.1	174
4	Long-term monitoring and source apportionment of PM <sub>2.5</sub> /PM <sub>10</sub> in Beijing, China. <i>Journal of Environmental Sciences</i> , 2008, 20, 1323-1327.	6.1	153
5	Synchronous role of coupled adsorption and photocatalytic oxidation on ordered mesoporous anatase TiO <sub>2</sub> @SiO <sub>2</sub> nanocomposites generating excellent degradation activity of RhB dye. <i>Applied Catalysis B: Environmental</i> , 2010, 95, 197-207.	20.2	152
6	The importance of vehicle emissions as a source of atmospheric ammonia in the megacity of Shanghai. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3577-3594.	4.9	152
7	Chemical composition of dust storms in Beijing and implications for the mixing of mineral aerosol with pollution aerosol on the pathway. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	135
8	Heterogeneous Reactions of Sulfur Dioxide on Typical Mineral Particles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12588-12596.	2.6	129
9	Source apportionment of atmospheric ammonia before, during, and after the 2014 APEC summit in Beijing using stable nitrogen isotope signatures. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11635-11647.	4.9	116
10	Airborne Fine Particulate Matter Induces Oxidative Stress and Inflammation in Human Nasal Epithelial Cells. <i>Tohoku Journal of Experimental Medicine</i> , 2016, 239, 117-125.	1.2	110
11	Evidence for High Molecular Weight Nitrogen-Containing Organic Salts in Urban Aerosols. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4441-4446.	10.0	99
12	Mixing of Asian dust with pollution aerosol and the transformation of aerosol components during the dust storm over China in spring 2007. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	87
13	Characteristics and sources of formic, acetic and oxalic acids in PM <sub>2.5</sub> and PM <sub>10</sub> aerosols in Beijing, China. <i>Atmospheric Research</i> , 2007, 84, 169-181.	4.1	85
14	Nasal epithelial barrier disruption by particulate matter $\hat{a}\%2.5 \hat{1}\%4\text{m}$ via tight junction protein degradation. <i>Journal of Applied Toxicology</i> , 2018, 38, 678-687.	2.8	78
15	PM <sub>2.5</sub> -Induced Oxidative Stress and Mitochondrial Damage in the Nasal Mucosa of Rats. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 134.	2.6	76
16	The implication of carbonaceous aerosol to the formation of haze: Revealed from the characteristics and sources of OC/EC over a mega-city in China. <i>Journal of Hazardous Materials</i> , 2011, 190, 529-536.	12.4	74
17	High-performance liquid chromatographic method for the determination of ultratrace amounts of iron(II) in aerosols, rainwater, and seawater. <i>Analytical Chemistry</i> , 1992, 64, 2826-2830.	6.5	65
18	Iron(II) in rainwater, snow, and surface seawater from a coastal environment. <i>Marine Chemistry</i> , 1995, 50, 41-50.	2.3	64

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19	Asian dust over northern China and its impact on the downstream aerosol chemistry in 2004. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	61
20	Source, long-range transport, and characteristics of a heavy dust pollution event in Shanghai. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
21	Risk-Based Prioritization among Air Pollution Control Strategies in the Yangtze River Delta, China. <i>Environmental Health Perspectives</i> , 2010, 118, 1204-1210.	6.0	54
22	Sources of aerosol as determined from elemental composition and size distributions in Beijing. <i>Atmospheric Research</i> , 2010, 95, 197-209.	4.1	52
23	Effects of Asian dust on the atmospheric input of trace elements to the East China Sea. <i>Marine Chemistry</i> , 2014, 163, 19-27.	2.3	51
24	Model development of dust emission and heterogeneous chemistry within the Community Multiscale Air Quality modeling system and its application over East Asia. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8157-8180.	4.9	51
25	Mixing of dust with pollution on the transport path of Asian dust – Revealed from the aerosol over Yulin, the north edge of Loess Plateau. <i>Science of the Total Environment</i> , 2011, 409, 573-581.	8.0	47
26	Evolution of particulate sulfate and nitrate along the Asian dust pathway: Secondary transformation and primary pollutants via long-range transport. <i>Atmospheric Research</i> , 2016, 169, 86-95.	4.1	46
27	Three-dimensional interconnected mesoporous anatase TiO <sub>2</sub> exhibiting unique photocatalytic performances. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 293-302.	20.2	45
28	Signal Transductions of BEAS-2B Cells in Response to Carcinogenic PM <sub>2.5</sub> Exposure Based on a Microfluidic System. <i>Analytical Chemistry</i> , 2017, 89, 5413-5421.	6.5	42
29	Inorganic aerosols responses to emission changes in Yangtze River Delta, China. <i>Science of the Total Environment</i> , 2014, 481, 522-532.	8.0	39
30	Variation of sources and mixing mechanism of mineral dust with pollution aerosol – revealed by the two peaks of a super dust storm in Beijing. <i>Atmospheric Research</i> , 2007, 84, 265-279.	4.1	37
31	Insights into the characteristics and sources of primary and secondary organic carbon: High time resolution observation in urban Shanghai. <i>Environmental Pollution</i> , 2018, 233, 1177-1187.	7.5	35
32	Human Excreta as a Stable and Important Source of Atmospheric Ammonia in the Megacity of Shanghai. <i>PLoS ONE</i> , 2015, 10, e0144661.	2.5	34
33	The adsorption of dissolved iron on marine aerosol particles in surface waters of the open ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1993, 40, 1413-1429.	1.4	31
34	Relation between optical and chemical properties of dust aerosol over Beijing, China. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
35	Preparation of Secondary Mesopores in Mesoporous Anatase – Silica Nanocomposites with Unprecedented High Photocatalytic Degradation Performances. <i>Advanced Functional Materials</i> , 2016, 26, 964-976.	14.9	31
36	Combined effects of iron and copper from atmospheric dry deposition on ocean productivity. <i>Geophysical Research Letters</i> , 2017, 44, 2546-2555.	4.0	31

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37	Composition and mixing of individual particles in dust and nondust conditions of north China, spring 2002. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	29
38	Emission of fine organic aerosol from traditional charcoal broiling in China. <i>Journal of Atmospheric Chemistry</i> , 2008, 61, 119-131.	3.2	28
39	The sources and seasonal variations of organic compounds in PM <sub>2.5</sub> in Beijing and Shanghai. <i>Journal of Atmospheric Chemistry</i> , 2009, 62, 175-192.	3.2	27
40	Environmentally dependent dust chemistry of a super Asian dust storm in March 2010: observation and simulation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3505-3521.	4.9	24
41	Effects of PM <sub>2.5</sub> on mucus secretion and tissue remodeling in a rabbit model of chronic rhinosinusitis. <i>International Forum of Allergy and Rhinology</i> , 2018, 8, 1349-1355.	2.8	23
42	A Pilot Study on Using Urinary 1-Hydroxypyrene Biomarker for Exposure to PAHs in Beijing. <i>Environmental Monitoring and Assessment</i> , 2007, 131, 387-394.	2.7	21
43	Mesoporous anatase crystal-silica nanocomposites with large intrawall mesopores presenting quite excellent photocatalytic performances. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 284-295.	20.2	21
44	Preparation of mesoporous anatase titania with large secondary mesopores and extraordinarily high photocatalytic performances. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118756.	20.2	17
45	Air Quality over the Yangtze River Delta during the 2010 Shanghai Expo. <i>Aerosol and Air Quality Research</i> , 2013, 13, 1655-1666.	2.1	17
46	Effects of Ursolic Acid on the Expression of Th1&Th2-related Cytokines in a Rat Model of Allergic Rhinitis After PM <sub>2.5</sub> Exposure. <i>American Journal of Rhinology and Allergy</i> , 2020, 34, 587-596.	2.0	16
47	Ursolic Acid Alleviates Mucus Secretion and Tissue Remodeling in Rat Model of Allergic Rhinitis After PM <sub>2.5</sub> Exposure. <i>American Journal of Rhinology and Allergy</i> , 2021, 35, 272-279.	2.0	16
48	Quantitative analysis of aliphatic amines in urban aerosols based on online derivatization and high performance liquid chromatography. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 796-801.	3.5	15
49	Effectiveness of SO <sub>2</sub> emission control policy on power plants in the Yangtze River Delta, China&quot post-assessment of the 11th Five-Year Plan. <i>Environmental Science and Pollution Research</i> , 2017, 24, 8243-8255.	5.3	12
50	Effects of N-acetylcysteine on oxidative stress and inflammation reactions in a rat model of allergic rhinitis after PM <sub>2.5</sub> exposure. <i>Biochemical and Biophysical Research Communications</i> , 2020, 533, 275-281.	2.1	12
51	The chemistry of heavy haze over Urumqi, Central Asia. <i>Journal of Atmospheric Chemistry</i> , 2008, 61, 57-72.	3.2	10
52	Aerosol oxalate and its implication to haze pollution in Shanghai, China. <i>Science Bulletin</i> , 2014, 59, 227-238.	1.7	10
53	A Typical Formation Mechanism of Heavy Haze-Fog Induced by Coal Combustion in an Inland City in North-Western China. <i>Aerosol and Air Quality Research</i> , 2017, 17, 98-107.	2.1	10
54	Characterization of Airborne Microbial Aerosols during a Long-range Transported Dust Event in Eastern China: Bacterial Community, Influencing Factors, and Potential Health Effects. <i>Aerosol and Air Quality Research</i> , 2020, 20, 2834-2845.	2.1	10

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55	Luxury uptake of aerosol iron by <i>Trichodesmium</i> in the western tropical North Atlantic. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	9
56	Characteristics and source of black carbon aerosol over Taklimakan Desert. <i>Science China Chemistry</i> , 2010, 53, 1202-1209.	8.2	8
57	Preparation of three-dimensional interconnected mesoporous anatase TiO <sub>2</sub> -SiO <sub>2</sub> nanocomposites with high photocatalytic activities. <i>Chinese Journal of Catalysis</i> , 2016, 37, 846-854.	14.0	8
58	Impact of mixed anthropogenic and natural emissions on air quality and eco-environment—the major water-soluble components in aerosols from northwest to offshore isle. <i>Air Quality, Atmosphere and Health</i> , 2018, 11, 521-534.	3.3	8
59	Effects of rosmarinic acid on the inflammatory response in allergic rhinitis rat models after PM <sub>2.5</sub> exposure. <i>Journal of Clinical Laboratory Analysis</i> , 2022, 36, e24316.	2.1	7
60	Instrumental neutron activation analysis of extractable organohalogens in PM <sub>2.5</sub> and PM <sub>10</sub> in Beijing, China. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2007, 271, 115-118.	1.5	6
61	Characteristics of ambient 1-min PM <sub>2.5</sub> variation in Beijing. <i>Environmental Monitoring and Assessment</i> , 2010, 165, 137-146.	2.7	6
62	First long-term detection of paleo-oceanic signature of dust aerosol at the southern marginal area of the Taklimakan Desert. <i>Scientific Reports</i> , 2018, 8, 6779.	3.3	6
63	Toxicological Effects of Artificial Fine Particulate Matter in Rats through Induction of Oxidative Stress and Inflammation. <i>Tohoku Journal of Experimental Medicine</i> , 2021, 255, 19-25.	1.2	5
64	Large-scale distribution of elements in Chinese aerosol. <i>Particuology: Science and Technology of Particles</i> , 2007, 5, 395-400.	0.4	4
65	Community Structure and Influencing Factors of Airborne Microbial Aerosols over Three Chinese Cities with Contrasting Social-Economic Levels. <i>Atmosphere</i> , 2020, 11, 317.	2.3	4
66	Characteristics and source of black carbon over Taklimakan Desert. <i>Scientia Sinica Chimica</i> , 2010, 40, 556-566.	0.4	3
67	Model Study on the Transport and Mixing of Dust Aerosols and Pollutants during an Asian Dust Storm in March 2002. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007, 18, 437.	0.6	3
68	Correction to “Chemistry of iron in marine aerosols”. <i>Global Biogeochemical Cycles</i> , 1992, 6, 321-321.	4.9	0