

# Jing Shang

## List of Publications by Year in descending order

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82  
papers

2,561  
citations

201575

27  
h-index

223716

46  
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83  
all docs

83  
docs citations

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times ranked

3556  
citing authors

#	ARTICLE	IF	CITATIONS
1	Black Carbon Induces Complement Activation via NLRP3 Inflammasome in Human Corneal Epithelial Cells. <i>Current Eye Research</i> , 2022, 47, 233-238.	0.7	2
2	Ultrafine black carbon caused mitochondrial oxidative stress, mitochondrial dysfunction and mitophagy in SH-SY5Y cells. <i>Science of the Total Environment</i> , 2022, 813, 151899.	3.9	12
3	Existence and Formation Pathways of High- and Low-Maturity Elemental Carbon from Solid Fuel Combustion by a Time-Resolved Study. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2551-2561.	4.6	15
4	Effect of NLRP3 repression on NLRP3 inflammasome activation in human corneal epithelial cells with black carbon exposure. <i>Cutaneous and Ocular Toxicology</i> , 2022, 41, 107-112.	0.5	1
5	Photocatalytic Role of Atmospheric Soot Particles under Visible-Light Irradiation: Reactive Oxygen Species Generation, Self-Oxidation Process, and Induced Higher Oxidative Potential and Cytotoxicity. <i>Environmental Science &amp; Technology</i> , 2022, 56, 7668-7678.	4.6	8
6	microRNA-146a-5p negatively modulates PM2.5 caused inflammation in THP-1 cells via autophagy process. <i>Environmental Pollution</i> , 2021, 268, 115961.	3.7	13
7	Fuel Aromaticity Promotes Low-Temperature Nucleation Processes of Elemental Carbon from Biomass and Coal Combustion. <i>Environmental Science &amp; Technology</i> , 2021, 55, 2532-2540.	4.6	17
8	BC and 1,4NQ-BC up-regulate the cytokines and enhance IL-33 expression in LPS pretreatment of human bronchial epithelial cells. <i>Environmental Pollution</i> , 2021, 273, 116452.	3.7	3
9	Intermediate Volatile Organic Compound Emissions from Residential Solid Fuel Combustion Based on Field Measurements in Rural China. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5689-5700.	4.6	39
10	Hormesis Effect of Methyl Triclosan on Cell Proliferation and Migration in Human Hepatocyte L02 Cells. <i>ACS Omega</i> , 2021, 6, 18904-18913.	1.6	8
11	Effect of ozone aging on light absorption and fluorescence of brown carbon in soot particles: The important role of polycyclic aromatic hydrocarbons. <i>Journal of Hazardous Materials</i> , 2021, 413, 125406.	6.5	17
12	Using Micro-Raman Spectroscopy to Investigate Chemical Composition, Mixing States, and Heterogeneous Reactions of Individual Atmospheric Particles. <i>Environmental Science &amp; Technology</i> , 2021, 55, 10243-10254.	4.6	13
13	Polystyrene nanoparticles induced neurodevelopmental toxicity in <i>Caenorhabditis elegans</i> through regulation of dpy-5 and rol-6. <i>Ecotoxicology and Environmental Safety</i> , 2021, 222, 112523.	2.9	25
14	Transcriptomics changes and the candidate pathway in human macrophages induced by different PM2.5 extracts. <i>Environmental Pollution</i> , 2021, 289, 117890.	3.7	12
15	Comparison of light absorption and oxidative potential of biodiesel/diesel and chemicals/diesel blends soot particles. <i>Journal of Environmental Sciences</i> , 2020, 87, 184-193.	3.2	13
16	PI3K/Akt/FoxO pathway mediates glycolytic metabolism in HepG2 cells exposed to triclosan (TCS). <i>Environment International</i> , 2020, 136, 105428.	4.8	30
17	Black Carbon Induces Cytotoxicity and NLRP3 Inflammasome Activation in Human Corneal Epithelial Cells. <i>Current Eye Research</i> , 2020, 45, 680-685.	0.7	9
18	Changes in light absorption by brown carbon in soot particles due to heterogeneous ozone aging in a smog chamber. <i>Environmental Pollution</i> , 2020, 266, 115273.	3.7	8

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19	Comparison of Transcriptomics Changes Induced by TCS and MTCS Exposure in Human Hepatoma HepG2 Cells. <i>ACS Omega</i> , 2020, 5, 10715-10724.	1.6	8
20	Gold-core lithium-doped titania shell nanostructures for plasmon-enhanced visible light harvesting with photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	6
21	Hydrophobic Organic Components of Ambient Fine Particulate Matter (PM <sub>2.5</sub> ) Associated with Inflammatory Cellular Response. <i>Environmental Science &amp; Technology</i> , 2019, 53, 10479-10486.	4.6	48
22	The methyl-triclosan induced caspase-dependent mitochondrial apoptosis in HepG2 cells mediated through oxidative stress. <i>Ecotoxicology and Environmental Safety</i> , 2019, 182, 109391.	2.9	18
23	Fresh and ozonized black carbon promoted DNA damage and repair responses in A549 cells. <i>Toxicology Research</i> , 2019, 8, 180-187.	0.9	9
24	Comparison of hepatotoxicity and mechanisms induced by triclosan (TCS) and methyl-triclosan (MTCS) in human liver hepatocellular HepG2 cells. <i>Toxicology Research</i> , 2019, 8, 38-45.	0.9	28
25	Transcriptomic analyses of the biological effects of black carbon exposure to A549 cells. <i>Journal of Environmental Management</i> , 2019, 246, 289-298.	3.8	8
26	Hexabromocyclododecanes promoted autophagy through the PI3K/Akt/mTOR pathway in L02 cells. <i>Journal of Environmental Management</i> , 2019, 244, 77-82.	3.8	9
27	Differences in oxidative potential of black carbon from three combustion emission sources in China. <i>Journal of Environmental Management</i> , 2019, 240, 57-65.	3.8	16
28	Regulation of TBBPA-induced oxidative stress on mitochondrial apoptosis in L02 cells through the Nrf2 signaling pathway. <i>Chemosphere</i> , 2019, 226, 463-471.	4.2	40
29	Synthesis of Polyacetylene-like Modified Graphene Oxide Aerogel and Its Enhanced Electrical Properties. <i>ACS Omega</i> , 2019, 4, 20948-20954.	1.6	9
30	Cytotoxicity comparison between fine particles emitted from the combustion of municipal solid waste and biomass. <i>Journal of Hazardous Materials</i> , 2019, 367, 316-324.	6.5	27
31	Modifications of autophagy influenced the Alzheimer-like changes in SH-SY5Y cells promoted by ultrafine black carbon. <i>Environmental Pollution</i> , 2019, 246, 763-771.	3.7	22
32	Effects of air/fuel ratio and ozone aging on physicochemical properties and oxidative potential of soot particles. <i>Chemosphere</i> , 2019, 220, 883-891.	4.2	28
33	Interactions between oxidative stress, autophagy and apoptosis in A549 cells treated with aged black carbon. <i>Toxicology in Vitro</i> , 2019, 54, 67-74.	1.1	27
34	Amino-PAHs activated Nrf2/ARE anti-oxidative defense system and promoted inflammatory responses: the regulation of PI3K/Akt pathway. <i>Toxicology Research</i> , 2018, 7, 465-472.	0.9	9
35	Real-World Emission Factors of Gaseous and Particulate Pollutants from Marine Fishing Boats and Their Total Emissions in China. <i>Environmental Science &amp; Technology</i> , 2018, 52, 4910-4919.	4.6	52
36	Atmospheric HULIS and its ability to mediate the reactive oxygen species (ROS): A review. <i>Journal of Environmental Sciences</i> , 2018, 71, 13-31.	3.2	59

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37	Using X-ray computed tomography and micro-Raman spectrometry to measure individual particle surface area, volume, and morphology towards investigating atmospheric heterogeneous reactions. <i>Journal of Environmental Sciences</i> , 2018, 69, 23-32.	3.2	4
38	Effects on IL-1 $\beta$ signaling activation induced by water and organic extracts of fine particulate matter (PM <sub>2.5</sub> ) in <i>Vitro</i> . <i>Environmental Pollution</i> , 2018, 237, 592-600.	3.7	90
39	Estimated Acute Effects of Ozone on Mortality in a Rural District of Beijing, China, 2005-2013: A Time-Stratified Case-Crossover Study. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2460.	1.2	15
40	Black carbon particles and ozone-oxidized black carbon particles induced lung damage in mice through an interleukin-33 dependent pathway. <i>Science of the Total Environment</i> , 2018, 644, 217-228.	3.9	25
41	Efficient photoelectrochemical oxidation of rhodamine B on metal electrodes without photocatalyst or supporting electrolyte. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	4
42	Ozonized carbon black induces mitochondrial dysfunction and DNA damage. <i>Environmental Toxicology</i> , 2017, 32, 944-955.	2.1	27
43	Comparison of gene expression profiles induced by fresh or ozone-oxidized black carbon particles in A549 cells. <i>Chemosphere</i> , 2017, 180, 212-220.	4.2	23
44	Synergistic effect of nitrate-doped TiO <sub>2</sub> aerosols on the fast photochemical oxidation of formaldehyde. <i>Scientific Reports</i> , 2017, 7, 1161.	1.6	11
45	Airborne nitro-PAHs induce Nrf2/ARE defense system against oxidative stress and promote inflammatory process by activating PI3K/Akt pathway in A549 cells. <i>Toxicology in Vitro</i> , 2017, 44, 66-73.	1.1	60
46	Comparison of lung damage in mice exposed to black carbon particles and 1,4-naphthoquinone coated black carbon particles. <i>Science of the Total Environment</i> , 2017, 580, 572-581.	3.9	22
47	Tributylphosphate (TBP) and tris (2-butoxyethyl) phosphate (TBEP) induced apoptosis and cell cycle arrest in HepG2 cells. <i>Toxicology Research</i> , 2017, 6, 902-911.	0.9	15
48	Photocatalytic Reduction of CO <sub>2</sub> Using Titanium-Substituted and Fluorine-Doped Titanium-Substituted Hydroxyapatite as Photocatalysts. <i>Catalysis Letters</i> , 2017, 147, 2706-2713.	1.4	8
49	Effects of 1,4-naphthoquinone aged carbon black particles on the cell membrane of human bronchial epithelium. <i>Environmental Toxicology and Pharmacology</i> , 2017, 54, 21-27.	2.0	12
50	Simulated reaction of formaldehyde and ambient atmospheric particulate matter using a chamber. <i>Journal of Environmental Sciences</i> , 2017, 56, 45-51.	3.2	4
51	Comparison of lung damage in mice exposed to black carbon particles and ozone-oxidized black carbon particles. <i>Science of the Total Environment</i> , 2016, 573, 303-312.	3.9	29
52	MAP4K4 deficiency in CD4 + T cells aggravates lung damage induced by ozone-oxidized black carbon particles. <i>Environmental Toxicology and Pharmacology</i> , 2016, 46, 246-254.	2.0	19
53	Organosulfate Formation through the Heterogeneous Reaction of Sulfur Dioxide with Unsaturated Fatty Acids and Long-Chain Alkenes. <i>Angewandte Chemie</i> , 2016, 128, 10492-10495.	1.6	2
54	In <i>Vitro</i> study on the biotransformation and cytotoxicity of three hexabromocyclododecane diastereoisomers in liver cells. <i>Chemosphere</i> , 2016, 161, 251-258.	4.2	20

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55	Organosulfate Formation through the Heterogeneous Reaction of Sulfur Dioxide with Unsaturated Fatty Acids and Long-Chain Alkenes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10336-10339.	7.2	63
56	The cytotoxicity of organophosphate flame retardants on HepG2, A549 and Caco-2 cells. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2016, 51, 980-988.	0.9	72
57	Design and characterization of human exposure to generated sulfate and soot particles in a pilot chamber study. <i>Journal of the Air and Waste Management Association</i> , 2016, 66, 366-376.	0.9	8
58	SO <sub>2</sub> Uptake on Oleic Acid: A New Formation Pathway of Organosulfur Compounds in the Atmosphere. <i>Environmental Science and Technology Letters</i> , 2016, 3, 67-72.	3.9	56
59	The adaptive responses of low concentrations of HBCD in L02 cells and the underlying molecular mechanisms. <i>Chemosphere</i> , 2016, 145, 68-76.	4.2	13
60	Active Tectonics Revealed by River Profiles along the Puqu Fault. <i>Water (Switzerland)</i> , 2015, 7, 1628-1648.	1.2	6
61	Ambient temperature enhanced acute cardiovascular-respiratory mortality effects of PM2.5 in Beijing, China. <i>International Journal of Biometeorology</i> , 2015, 59, 1761-1770.	1.3	76
62	Size-fractioned ultrafine particles and black carbon associated with autonomic dysfunction in subjects with diabetes or impaired glucose tolerance in Shanghai, China. <i>Particle and Fibre Toxicology</i> , 2015, 12, 8.	2.8	42
63	Heterogeneous oxidation of SO <sub>2</sub> by O <sub>3</sub> -aged black carbon and its dithiothreitol oxidative potential. <i>Journal of Environmental Sciences</i> , 2015, 36, 56-62.	3.2	26
64	Physicochemical characteristics, oxidative capacities and cytotoxicities of sulfate-coated, 1,4-NQ-coated and ozone-aged black carbon particles. <i>Atmospheric Research</i> , 2015, 153, 535-542.	1.8	26
65	The use of vacuum ultraviolet irradiation to oxidize SO <sub>2</sub> and NO <sub>x</sub> for simultaneous desulfurization and denitrification. <i>Journal of Hazardous Materials</i> , 2014, 271, 89-97.	6.5	61
66	Airborne quinones induce cytotoxicity and DNA damage in human lung epithelial A549 cells: The role of reactive oxygen species. <i>Chemosphere</i> , 2014, 100, 42-49.	4.2	55
67	Photocatalytic degradation of bisphenol A using Ti-substituted hydroxyapatite. <i>Chinese Journal of Catalysis</i> , 2014, 35, 90-98.	6.9	26
68	Systematic review of Chinese studies of short-term exposure to air pollution and daily mortality. <i>Environment International</i> , 2013, 54, 100-111.	4.8	413
69	Genotoxic and inflammatory effects of organic extracts from traffic-related particulate matter in human lung epithelial A549 cells: The role of quinones. <i>Toxicology in Vitro</i> , 2013, 27, 922-931.	1.1	44
70	Physicochemical characteristics and toxic effects of ozone-oxidized black carbon particles. <i>Atmospheric Environment</i> , 2013, 81, 68-75.	1.9	88
71	Reduced in vitro toxicity of fine particulate matter collected during the 2008 summer Olympic Games in Beijing: The roles of chemical and biological components. <i>Toxicology in Vitro</i> , 2013, 27, 2084-2093.	1.1	36
72	Hydroxyl Radical Generation Mechanism During the Redox Cycling Process of 1,4-Naphthoquinone. <i>Environmental Science &amp; Technology</i> , 2012, 46, 2935-2942.	4.6	63

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73	The combined effects of BDE47 and BaP on oxidatively generated DNA damage in L02 cells and the possible molecular mechanism. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2011, 721, 192-198.	0.9	46
74	Heterogeneous reactions of SO <sub>2</sub> on ZnO particle surfaces. Science China Chemistry, 2011, 54, 161-166.	4.2	22
75	Photocatalytic degradation of rhodamine B by dye-sensitized TiO <sub>2</sub> under visible-light irradiation. Science China Chemistry, 2011, 54, 167-172.	4.2	31
76	The roles of heterogeneous chemical processes in the formation of an air pollution complex and gray haze. Science China Chemistry, 2011, 54, 145-153.	4.2	79
77	Heterogeneous reaction of formaldehyde on the surface of TiO <sub>2</sub> particles. Science China Chemistry, 2010, 53, 2644-2651.	4.2	33
78	Heterogeneous reaction of NO <sub>2</sub> with sea salt particles. Science China Chemistry, 2010, 53, 2652-2656.	4.2	13
79	Heterogeneous reaction of SO <sub>2</sub> on TiO <sub>2</sub> particles. Science China Chemistry, 2010, 53, 2637-2643.	4.2	47
80	Investigation on the photophysical processes in nanosized photocatalytic thin films using planar solid-state devices. Research on Chemical Intermediates, 2009, 35, 667-673.	1.3	1
81	Size-dependent hydroxyl radicals generation induced by SiO <sub>2</sub> ultra-fine particles: The role of surface iron. Science in China Series B: Chemistry, 2009, 52, 1033-1041.	0.8	22
82	Solid-State, Planar Photoelectrocatalytic Devices Using a Nanosized TiO <sub>2</sub> Layer. Environmental Science & Technology, 2007, 41, 7876-7880.	4.6	34