

# Zhaoxia Ji

## List of Publications by Citations

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84  
papers

12,300  
citations

54  
h-index

86  
g-index

86  
ext. papers

13,393  
ext. citations

12.9  
avg, IF

5.88  
L-index

#	Paper	IF	Citations
84	Stability and aggregation of metal oxide nanoparticles in natural aqueous matrices. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 1962-7	10.3	1040
83	Engineered design of mesoporous silica nanoparticles to deliver doxorubicin and P-glycoprotein siRNA to overcome drug resistance in a cancer cell line. <i>ACS Nano</i> , <b>2010</b> , 4, 4539-50	16.7	748
82	Use of metal oxide nanoparticle band gap to develop a predictive paradigm for oxidative stress and acute pulmonary inflammation. <i>ACS Nano</i> , <b>2012</b> , 6, 4349-68	16.7	631
81	Codelivery of an optimal drug/siRNA combination using mesoporous silica nanoparticles to overcome drug resistance in breast cancer in vitro and in vivo. <i>ACS Nano</i> , <b>2013</b> , 7, 994-1005	16.7	456
80	Nanomaterial toxicity testing in the 21st century: use of a predictive toxicological approach and high-throughput screening. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 607-21	24.3	448
79	Use of a rapid cytotoxicity screening approach to engineer a safer zinc oxide nanoparticle through iron doping. <i>ACS Nano</i> , <b>2010</b> , 4, 15-29	16.7	427
78	Use of size and a copolymer design feature to improve the biodistribution and the enhanced permeability and retention effect of doxorubicin-loaded mesoporous silica nanoparticles in a murine xenograft tumor model. <i>ACS Nano</i> , <b>2011</b> , 5, 4131-44	16.7	402
77	Toxicity mechanisms in Escherichia coli vary for silver nanoparticles and differ from ionic silver. <i>ACS Nano</i> , <b>2014</b> , 8, 374-86	16.7	343
76	Processing pathway dependence of amorphous silica nanoparticle toxicity: colloidal vs pyrolytic. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15790-804	16.4	315
75	Decreased dissolution of ZnO by iron doping yields nanoparticles with reduced toxicity in the rodent lung and zebrafish embryos. <i>ACS Nano</i> , <b>2011</b> , 5, 1223-35	16.7	298
74	Role of Fe doping in tuning the band gap of TiO <sub>2</sub> for the photo-oxidation-induced cytotoxicity paradigm. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11270-8	16.4	290
73	Aspect ratio determines the quantity of mesoporous silica nanoparticle uptake by a small GTPase-dependent macropinocytosis mechanism. <i>ACS Nano</i> , <b>2011</b> , 5, 4434-47	16.7	287
72	Use of a lipid-coated mesoporous silica nanoparticle platform for synergistic gemcitabine and paclitaxel delivery to human pancreatic cancer in mice. <i>ACS Nano</i> , <b>2015</b> , 9, 3540-57	16.7	283
71	Use of a high-throughput screening approach coupled with in vivo zebrafish embryo screening to develop hazard ranking for engineered nanomaterials. <i>ACS Nano</i> , <b>2011</b> , 5, 1805-17	16.7	280
70	Surface defects on plate-shaped silver nanoparticles contribute to its hazard potential in a fish gill cell line and zebrafish embryos. <i>ACS Nano</i> , <b>2012</b> , 6, 3745-59	16.7	279
69	Designed synthesis of CeO <sub>2</sub> nanorods and nanowires for studying toxicological effects of high aspect ratio nanomaterials. <i>ACS Nano</i> , <b>2012</b> , 6, 5366-80	16.7	275
68	Dispersion and stability optimization of TiO <sub>2</sub> nanoparticles in cell culture media. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 7309-14	10.3	261

67	Surface charge and cellular processing of covalently functionalized multiwall carbon nanotubes determine pulmonary toxicity. <i>ACS Nano</i> , <b>2013</b> , 7, 2352-68	16.7	232
66	Comparative environmental fate and toxicity of copper nanomaterials. <i>NanoImpact</i> , <b>2017</b> , 7, 28-40	5.6	208
65	Use of coated silver nanoparticles to understand the relationship of particle dissolution and bioavailability to cell and lung toxicological potential. <i>Small</i> , <b>2014</b> , 10, 385-98	11	207
64	Cerium dioxide nanoparticles induce apoptosis and autophagy in human peripheral blood monocytes. <i>ACS Nano</i> , <b>2012</b> , 6, 5820-9	16.7	179
63	Surface interactions with compartmentalized cellular phosphates explain rare earth oxide nanoparticle hazard and provide opportunities for safer design. <i>ACS Nano</i> , <b>2014</b> , 8, 1771-83	16.7	177
62	Dispersal state of multiwalled carbon nanotubes elicits profibrogenic cellular responses that correlate with fibrogenesis biomarkers and fibrosis in the murine lung. <i>ACS Nano</i> , <b>2011</b> , 5, 9772-87	16.7	159
61	Surface Oxidation of Graphene Oxide Determines Membrane Damage, Lipid Peroxidation, and Cytotoxicity in Macrophages in a Pulmonary Toxicity Model. <i>ACS Nano</i> , <b>2018</b> , 12, 1390-1402	16.7	154
60	High content screening in zebrafish speeds up hazard ranking of transition metal oxide nanoparticles. <i>ACS Nano</i> , <b>2011</b> , 5, 7284-95	16.7	154
59	Engineering an effective immune adjuvant by designed control of shape and crystallinity of aluminum oxyhydroxide nanoparticles. <i>ACS Nano</i> , <b>2013</b> , 7, 10834-49	16.7	153
58	Pluronic F108 coating decreases the lung fibrosis potential of multiwall carbon nanotubes by reducing lysosomal injury. <i>Nano Letters</i> , <b>2012</b> , 12, 3050-61	11.5	142
57	Quantitative techniques for assessing and controlling the dispersion and biological effects of multiwalled carbon nanotubes in mammalian tissue culture cells. <i>ACS Nano</i> , <b>2010</b> , 4, 7241-52	16.7	142
56	NLRP3 inflammasome activation induced by engineered nanomaterials. <i>Small</i> , <b>2013</b> , 9, 1595-607	11	140
55	Classification NanoSAR development for cytotoxicity of metal oxide nanoparticles. <i>Small</i> , <b>2011</b> , 7, 1118-26	11	140
54	Organ-Specific and Size-Dependent Ag Nanoparticle Toxicity in Gills and Intestines of Adult Zebrafish. <i>ACS Nano</i> , <b>2015</b> , 9, 9573-84	16.7	135
53	Nanomaterials in the environment: from materials to high-throughput screening to organisms. <i>ACS Nano</i> , <b>2011</b> , 5, 13-20	16.7	133
52	Two-wave nanotherapy to target the stroma and optimize gemcitabine delivery to a human pancreatic cancer model in mice. <i>ACS Nano</i> , <b>2013</b> , 7, 10048-65	16.7	131
51	Identification and Optimization of Carbon Radicals on Hydrated Graphene Oxide for Ubiquitous Antibacterial Coatings. <i>ACS Nano</i> , <b>2016</b> , 10, 10966-10980	16.7	127
50	NADPH Oxidase-Dependent NLRP3 Inflammasome Activation and its Important Role in Lung Fibrosis by Multiwalled Carbon Nanotubes. <i>Small</i> , <b>2015</b> , 11, 2087-97	11	123

49	Interference in autophagosome fusion by rare earth nanoparticles disrupts autophagic flux and regulation of an interleukin-1 $\beta$ -producing inflammasome. <i>ACS Nano</i> , <b>2014</b> , 8, 10280-92	16.7	123
48	PdO doping tunes band-gap energy levels as well as oxidative stress responses to a CoO $\beta$ -type semiconductor in cells and the lung. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6406-20	16.4	114
47	Enhancing the imaging and biosafety of upconversion nanoparticles through phosphonate coating. <i>ACS Nano</i> , <b>2015</b> , 9, 3293-306	16.7	113
46	Toxicity of metal oxide nanoparticles in Escherichia coli correlates with conduction band and hydration energies. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 1105-12	10.3	111
45	Zebrafish high-throughput screening to study the impact of dissolvable metal oxide nanoparticles on the hatching enzyme, ZHE1. <i>Small</i> , <b>2013</b> , 9, 1776-85	11	97
44	Cu Nanoparticles Have Different Impacts in Escherichia coli and Lactobacillus brevis than Their Microsized and Ionic Analogues. <i>ACS Nano</i> , <b>2015</b> , 9, 7215-25	16.7	92
43	Use of a pro-fibrogenic mechanism-based predictive toxicological approach for tiered testing and decision analysis of carbonaceous nanomaterials. <i>ACS Nano</i> , <b>2015</b> , 9, 3032-43	16.7	90
42	Aspect ratio plays a role in the hazard potential of CeO <sub>2</sub> nanoparticles in mouse lung and zebrafish gastrointestinal tract. <i>ACS Nano</i> , <b>2014</b> , 8, 4450-64	16.7	89
41	Reduction of Acute Inflammatory Effects of Fumed Silica Nanoparticles in the Lung by Adjusting Silanol Display through Calcination and Metal Doping. <i>ACS Nano</i> , <b>2015</b> , 9, 9357-72	16.7	86
40	Differences in the Toxicological Potential of 2D versus Aggregated Molybdenum Disulfide in the Lung. <i>Small</i> , <b>2015</b> , 11, 5079-87	11	76
39	Differential expression of syndecan-1 mediates cationic nanoparticle toxicity in undifferentiated versus differentiated normal human bronchial epithelial cells. <i>ACS Nano</i> , <b>2011</b> , 5, 2756-2769	16.7	76
38	Safe-by-Design CuO Nanoparticles via Fe-Doping, Cu-O Bond Length Variation, and Biological Assessment in Cells and Zebrafish Embryos. <i>ACS Nano</i> , <b>2017</b> , 11, 501-515	16.7	74
37	Influence of material properties on TiO <sub>2</sub> nanoparticle agglomeration. <i>PLoS ONE</i> , <b>2013</b> , 8, e81239	3.7	70
36	Long-Term Effects of Multiwalled Carbon Nanotubes and Graphene on Microbial Communities in Dry Soil. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 3965-74	10.3	68
35	Size of TiO <sub>2</sub> nanoparticles influences their phototoxicity: an in vitro investigation. <i>Archives of Toxicology</i> , <b>2013</b> , 87, 99-109	5.8	67
34	Redox-Triggered Gatekeeper-Enveloped Starlike Hollow Silica Nanoparticles for Intelligent Delivery Systems. <i>Small</i> , <b>2015</b> , 11, 6467-79	11	66
33	The role of silver nanoparticles on silver modified titanosilicate ETS-10 in visible light photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 102, 323-333	21.8	62
32	Stability, metal leaching, photoactivity and toxicity in freshwater systems of commercial single wall carbon nanotubes. <i>Water Research</i> , <b>2013</b> , 47, 4074-85	12.5	60

31	Evaluation of Toxicity Ranking for Metal Oxide Nanoparticles via an in Vitro Dosimetry Model. <i>ACS Nano</i> , <b>2015</b> , 9, 9303-13	16.7	58
30	Agglomeration Determines Effects of Carbonaceous Nanomaterials on Soybean Nodulation, Dinitrogen Fixation Potential, and Growth in Soil. <i>ACS Nano</i> , <b>2017</b> , 11, 5753-5765	16.7	53
29	Hierarchical Nanohybrids of Gold Nanorods and PGMA-Based Polycations for Multifunctional Theranostics. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5848-5861	15.6	49
28	Reduction of pulmonary toxicity of metal oxide nanoparticles by phosphonate-based surface passivation. <i>Particle and Fibre Toxicology</i> , <b>2017</b> , 14, 13	8.4	46
27	Understanding the transformation, speciation, and hazard potential of copper particles in a model septic tank system using zebrafish to monitor the effluent. <i>ACS Nano</i> , <b>2015</b> , 9, 2038-48	16.7	46
26	Genome-wide bacterial toxicity screening uncovers the mechanisms of toxicity of a cationic polystyrene nanomaterial. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 2398-405	10.3	44
25	Multi-hierarchical profiling the structure-activity relationships of engineered nanomaterials at nano-bio interfaces. <i>Nature Communications</i> , <b>2018</b> , 9, 4416	17.4	41
24	Engineered Graphene Oxide Nanocomposite Capable of Preventing the Evolution of Antimicrobial Resistance. <i>ACS Nano</i> , <b>2019</b> , 13, 11488-11499	16.7	40
23	Toxicological Profiling of Highly Purified Metallic and Semiconducting Single-Walled Carbon Nanotubes in the Rodent Lung and E. coli. <i>ACS Nano</i> , <b>2016</b> , 10, 6008-19	16.7	40
22	Repetitive Dosing of Fumed Silica Leads to Profibrogenic Effects through Unique Structure-Activity Relationships and Biopersistence in the Lung. <i>ACS Nano</i> , <b>2016</b> , 10, 8054-66	16.7	40
21	Enhanced Immune Adjuvant Activity of Aluminum Oxyhydroxide Nanorods through Cationic Surface Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21697-21705	9.5	37
20	Mammalian Cells Exhibit a Range of Sensitivities to Silver Nanoparticles that are Partially Explicable by Variations in Antioxidant Defense and Metallothionein Expression. <i>Small</i> , <b>2015</b> , 11, 3797-805	11	35
19	Hydrothermal synthesis of titanosilicate ETS-10 using Ti(SO <sub>4</sub> ) <sub>2</sub> . <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 81, 1-10	5.3	35
18	Multiwalled Carbon Nanotube Functionalization with High Molecular Weight Hyaluronan Significantly Reduces Pulmonary Injury. <i>ACS Nano</i> , <b>2016</b> , 10, 7675-88	16.7	33
17	Lanthanide Hydroxide Nanoparticles Induce Angiogenesis via ROS-Sensitive Signaling. <i>Small</i> , <b>2016</b> , 12, 4404-11	11	31
16	Implementation of a multidisciplinary approach to solve complex nano EHS problems by the UC Center for the Environmental Implications of Nanotechnology. <i>Small</i> , <b>2013</b> , 9, 1428-43	11	29
15	Differential pulmonary effects of CoO and La <sub>2</sub> O <sub>3</sub> metal oxide nanoparticle responses during aerosolized inhalation in mice. <i>Particle and Fibre Toxicology</i> , <b>2016</b> , 13, 42	8.4	22
14	Nanoparticle dispersion in environmentally relevant culture media: a TiO <sub>2</sub> case study and considerations for a general approach. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	22

13	Nrf2 protects the lung against inflammation induced by titanium dioxide nanoparticles: A positive regulator role of Nrf2 on cytokine release. <i>Environmental Toxicology</i> , <b>2015</b> , 30, 782-92	4.2	21
12	First unseeded hydrothermal synthesis of microporous vanadosilicate AM-6. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 120, 454-459	5.3	20
11	Synthesis and morphological control of large titanosilicate ETS-10 crystals. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 109, 1-11	5.3	15
10	Semiconductor Electronic Label-Free Assay for Predictive Toxicology. <i>Scientific Reports</i> , <b>2016</b> , 6, 24982	4.9	14
9	Pro-Inflammatory and Pro-Fibrogenic Effects of Ionic and Particulate Arsenide and Indium-Containing Semiconductor Materials in the Murine Lung. <i>ACS Nano</i> , <b>2017</b> , 11, 1869-1883	16.7	13
8	Implications of the Differential Toxicological Effects of III-V Ionic and Particulate Materials for Hazard Assessment of Semiconductor Slurries. <i>ACS Nano</i> , <b>2015</b> , 9, 12011-25	16.7	13
7	Competitive nucleation and growth in seeded batch crystallization of titanosilicate ETS-10 using Ti(SO <sub>4</sub> ) <sub>2</sub> . <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 81, 201-210	5.3	13
6	A Bayesian regression tree approach to identify the effect of nanoparticles properties on toxicity profiles. <i>Annals of Applied Statistics</i> , <b>2015</b> , 9,	2.1	12
5	Assembly of titanosilicate ETS-10 crystals on organosilane-functionalized gallium nitride surfaces. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 118, 245-250	5.3	12
4	Transition metal ion substitution in titanosilicate ETS-10 for enhanced UV light photodegradation of methylene blue. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2011</b> , 221, 77-83	4.7	10
3	Use of compositional and combinatorial nanomaterial libraries for biological studies. <i>Science Bulletin</i> , <b>2016</b> , 61, 755-771	10.6	10
2	Differential effect of micron- versus nanoscale III-V particulates and ionic species on the zebrafish gut. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 1350-1364	7.1	9
1	Titanosilicate ETS-10 thin film preparation on fused silica optical fibers. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 101, 279-287	5.3	4