

Zhaoxia Ji

List of Publications by Year in descending order

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85
papers

14,424
citations

23500

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54797

84
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86
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docs citations

86
times ranked

18818
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and Aggregation of Metal Oxide Nanoparticles in Natural Aqueous Matrices. <i>Environmental Science & Technology</i> , 2010, 44, 1962-1967.	4.6	1,162
2	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> , 2010, 4, 4539-4550.	7.3	817
3	Use of Metal Oxide Nanoparticle Band Gap To Develop a Predictive Paradigm for Oxidative Stress and Acute Pulmonary Inflammation. <i>ACS Nano</i> , 2012, 6, 4349-4368.	7.3	718
4	Codelivery of an Optimal Drug/siRNA Combination Using Mesoporous Silica Nanoparticles To Overcome Drug Resistance in Breast Cancer <i>in Vitro</i> and <i>in Vivo</i> . <i>ACS Nano</i> , 2013, 7, 994-1005.	7.3	525
5	Nanomaterial Toxicity Testing in the 21st Century: Use of a Predictive Toxicological Approach and High-Throughput Screening. <i>Accounts of Chemical Research</i> , 2013, 46, 607-621.	7.6	501
6	Use of a Rapid Cytotoxicity Screening Approach To Engineer a Safer Zinc Oxide Nanoparticle through Iron Doping. <i>ACS Nano</i> , 2010, 4, 15-29.	7.3	464
7	Toxicity Mechanisms in <i>Escherichia coli</i> Vary for Silver Nanoparticles and Differ from Ionic Silver. <i>ACS Nano</i> , 2014, 8, 374-386.	7.3	458
8	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> , 2011, 5, 4131-4144.	7.3	446
9	Processing Pathway Dependence of Amorphous Silica Nanoparticle Toxicity: Colloidal vs Pyrolytic. <i>Journal of the American Chemical Society</i> , 2012, 134, 15790-15804.	6.6	372
10	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> , 2015, 9, 3540-3557.	7.3	367
11	Role of Fe Doping in Tuning the Band Gap of TiO ₂ for the Photo-Oxidation-Induced Cytotoxicity Paradigm. <i>Journal of the American Chemical Society</i> , 2011, 133, 11270-11278.	6.6	346
12	Decreased Dissolution of ZnO by Iron Doping Yields Nanoparticles with Reduced Toxicity in the Rodent Lung and Zebrafish Embryos. <i>ACS Nano</i> , 2011, 5, 1223-1235.	7.3	341
13	Aspect Ratio Determines the Quantity of Mesoporous Silica Nanoparticle Uptake by a Small GTPase-Dependent Macropinocytosis Mechanism. <i>ACS Nano</i> , 2011, 5, 4434-4447.	7.3	330
14	Designed Synthesis of CeO ₂ Nanorods and Nanowires for Studying Toxicological Effects of High Aspect Ratio Nanomaterials. <i>ACS Nano</i> , 2012, 6, 5366-5380.	7.3	323
15	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> , 2012, 6, 3745-3759.	7.3	318
16	Use of a High-Throughput Screening Approach Coupled with <i>In Vivo</i> Zebrafish Embryo Screening To Develop Hazard Ranking for Engineered Nanomaterials. <i>ACS Nano</i> , 2011, 5, 1805-1817.	7.3	306
17	Dispersion and Stability Optimization of TiO ₂ Nanoparticles in Cell Culture Media. <i>Environmental Science & Technology</i> , 2010, 44, 7309-7314.	4.6	288
18	Comparative environmental fate and toxicity of copper nanomaterials. <i>NanoImpact</i> , 2017, 7, 28-40.	2.4	277

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19	Surface Charge and Cellular Processing of Covalently Functionalized Multiwall Carbon Nanotubes Determine Pulmonary Toxicity. ACS Nano, 2013, 7, 2352-2368.	7.3	265
20	Use of Coated Silver Nanoparticles to Understand the Relationship of Particle Dissolution and Bioavailability to Cell and Lung Toxicological Potential. Small, 2014, 10, 385-398.	5.2	242
21	Surface Oxidation of Graphene Oxide Determines Membrane Damage, Lipid Peroxidation, and Cytotoxicity in Macrophages in a Pulmonary Toxicity Model. ACS Nano, 2018, 12, 1390-1402.	7.3	221
22	Surface Interactions with Compartmentalized Cellular Phosphates Explain Rare Earth Oxide Nanoparticle Hazard and Provide Opportunities for Safer Design. ACS Nano, 2014, 8, 1771-1783.	7.3	212
23	Cerium Dioxide Nanoparticles Induce Apoptosis and Autophagy in Human Peripheral Blood Monocytes. ACS Nano, 2012, 6, 5820-5829.	7.3	203
24	Engineering an Effective Immune Adjuvant by Designed Control of Shape and Crystallinity of Aluminum Oxyhydroxide Nanoparticles. ACS Nano, 2013, 7, 10834-10849.	7.3	192
25	Dispersal State of Multiwalled Carbon Nanotubes Elicits Profibrogenic Cellular Responses That Correlate with Fibrogenesis Biomarkers and Fibrosis in the Murine Lung. ACS Nano, 2011, 5, 9772-9787.	7.3	178
26	High Content Screening in Zebrafish Speeds up Hazard Ranking of Transition Metal Oxide Nanoparticles. ACS Nano, 2011, 5, 7284-7295.	7.3	176
27	Identification and Optimization of Carbon Radicals on Hydrated Graphene Oxide for Ubiquitous Antibacterial Coatings. ACS Nano, 2016, 10, 10966-10980.	7.3	172
28	NLRP3 Inflammasome Activation Induced by Engineered Nanomaterials. Small, 2013, 9, 1595-1607.	5.2	166
29	Organ-Specific and Size-Dependent Ag Nanoparticle Toxicity in Gills and Intestines of Adult Zebrafish. ACS Nano, 2015, 9, 9573-9584.	7.3	164
30	Two-Wave Nanotherapy To Target the Stroma and Optimize Gemcitabine Delivery To a Human Pancreatic Cancer Model in Mice. ACS Nano, 2013, 7, 10048-10065.	7.3	163
31	Pluronic F108 Coating Decreases the Lung Fibrosis Potential of Multiwall Carbon Nanotubes by Reducing Lysosomal Injury. Nano Letters, 2012, 12, 3050-3061.	4.5	159
32	Classification NanoSAR Development for Cytotoxicity of Metal Oxide Nanoparticles. Small, 2011, 7, 1118-1126.	5.2	156
33	Quantitative Techniques for Assessing and Controlling the Dispersion and Biological Effects of Multiwalled Carbon Nanotubes in Mammalian Tissue Culture Cells. ACS Nano, 2010, 4, 7241-7252.	7.3	151
34	NADPH Oxidase-Dependent NLRP3 Inflammasome Activation and its Important Role in Lung Fibrosis by Multiwalled Carbon Nanotubes. Small, 2015, 11, 2087-2097.	5.2	149
35	Nanomaterials in the Environment: From Materials to High-Throughput Screening to Organisms. ACS Nano, 2011, 5, 13-20.	7.3	145
36	Interference in Autophagosome Fusion by Rare Earth Nanoparticles Disrupts Autophagic Flux and Regulation of an Interleukin-1 β Producing Inflammasome. ACS Nano, 2014, 8, 10280-10292.	7.3	142

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37	PdO Doping Tunes Band-Gap Energy Levels as Well as Oxidative Stress Responses to a Co ₃ O ₄ p-Type Semiconductor in Cells and the Lung. <i>Journal of the American Chemical Society</i> , 2014, 136, 6406-6420.	6.6	136
38	Enhancing the Imaging and Biosafety of Upconversion Nanoparticles through Phosphonate Coating. <i>ACS Nano</i> , 2015, 9, 3293-3306.	7.3	130
39	Toxicity of Metal Oxide Nanoparticles in <i>Escherichia coli</i> Correlates with Conduction Band and Hydration Energies. <i>Environmental Science & Technology</i> , 2015, 49, 1105-1112.	4.6	127
40	Cu Nanoparticles Have Different Impacts in <i>Escherichia coli</i> and <i>Lactobacillus brevis</i> than Their Microsized and Ionic Analogues. <i>ACS Nano</i> , 2015, 9, 7215-7225.	7.3	120
41	Zebrafish High-Throughput Screening to Study the Impact of Dissolvable Metal Oxide Nanoparticles on the Hatching Enzyme, ZHE1. <i>Small</i> , 2013, 9, 1776-1785.	5.2	112
42	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> , 2015, 9, 9357-9372.	7.3	108
43	Use of a Pro-Fibrogenic Mechanism-Based Predictive Toxicological Approach for Tiered Testing and Decision Analysis of Carbonaceous Nanomaterials. <i>ACS Nano</i> , 2015, 9, 3032-3043.	7.3	107
44	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> , 2017, 11, 501-515.	7.3	107
45	Differences in the Toxicological Potential of 2D versus Aggregated Molybdenum Disulfide in the Lung. <i>Small</i> , 2015, 11, 5079-5087.	5.2	105
46	Aspect Ratio Plays a Role in the Hazard Potential of CeO ₂ Nanoparticles in Mouse Lung and Zebrafish Gastrointestinal Tract. <i>ACS Nano</i> , 2014, 8, 4450-4464.	7.3	98
47	Long-Term Effects of Multiwalled Carbon Nanotubes and Graphene on Microbial Communities in Dry Soil. <i>Environmental Science & Technology</i> , 2016, 50, 3965-3974.	4.6	91
48	Size of TiO ₂ nanoparticles influences their phototoxicity: an in vitro investigation. <i>Archives of Toxicology</i> , 2013, 87, 99-109.	1.9	87
49	Differential Expression of Syndecan-1 Mediates Cationic Nanoparticle Toxicity in Undifferentiated versus Differentiated Normal Human Bronchial Epithelial Cells. <i>ACS Nano</i> , 2011, 5, 2756-2769.	7.3	86
50	Engineered Graphene Oxide Nanocomposite Capable of Preventing the Evolution of Antimicrobial Resistance. <i>ACS Nano</i> , 2019, 13, 11488-11499.	7.3	84
51	Influence of Material Properties on TiO ₂ Nanoparticle Agglomeration. <i>PLoS ONE</i> , 2013, 8, e81239.	1.1	82
52	Agglomeration Determines Effects of Carbonaceous Nanomaterials on Soybean Nodulation, Dinitrogen Fixation Potential, and Growth in Soil. <i>ACS Nano</i> , 2017, 11, 5753-5765.	7.3	80
53	Redox-Triggered Gatekeeper-Enveloped Starlike Hollow Silica Nanoparticles for Intelligent Delivery Systems. <i>Small</i> , 2015, 11, 6467-6479.	5.2	70
54	The role of silver nanoparticles on silver modified titanosilicate ETS-10 in visible light photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 323-333.	10.8	66

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55	Evaluation of Toxicity Ranking for Metal Oxide Nanoparticles via an in Vitro Dosimetry Model. <i>ACS Nano</i> , 2015, 9, 9303-9313.	7.3	65
56	Stability, metal leaching, photoactivity and toxicity in freshwater systems of commercial single wall carbon nanotubes. <i>Water Research</i> , 2013, 47, 4074-4085.	5.3	63
57	Reduction of pulmonary toxicity of metal oxide nanoparticles by phosphonate-based surface passivation. <i>Particle and Fibre Toxicology</i> , 2017, 14, 13.	2.8	61
58	Multi-hierarchical profiling the structure-activity relationships of engineered nanomaterials at nano-bio interfaces. <i>Nature Communications</i> , 2018, 9, 4416.	5.8	61
59	Hierarchical Nanohybrids of Gold Nanorods and PGMA-Based Polycations for Multifunctional Theranostics. <i>Advanced Functional Materials</i> , 2016, 26, 5848-5861.	7.8	58
60	Repetitive Dosing of Fumed Silica Leads to Profibrogenic Effects through Unique Structure-Activity Relationships and Biopersistence in the Lung. <i>ACS Nano</i> , 2016, 10, 8054-8066.	7.3	58
61	Genome-Wide Bacterial Toxicity Screening Uncovers the Mechanisms of Toxicity of a Cationic Polystyrene Nanomaterial. <i>Environmental Science & Technology</i> , 2012, 46, 2398-2405.	4.6	54
62	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> , 2015, 9, 2038-2048.	7.3	54
63	Toxicological Profiling of Highly Purified Metallic and Semiconducting Single-Walled Carbon Nanotubes in the Rodent Lung and <i>E. coli</i> . <i>ACS Nano</i> , 2016, 10, 6008-6019.	7.3	49
64	Enhanced Immune Adjuvant Activity of Aluminum Oxyhydroxide Nanorods through Cationic Surface Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21697-21705.	4.0	46
65	Lanthanide Hydroxide Nanoparticles Induce Angiogenesis via ROS-Sensitive Signaling. <i>Small</i> , 2016, 12, 4404-4411.	5.2	43
66	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> , 2015, 11, 3797-3805.	5.2	42
67	Multiwalled Carbon Nanotube Functionalization with High Molecular Weight Hyaluronan Significantly Reduces Pulmonary Injury. <i>ACS Nano</i> , 2016, 10, 7675-7688.	7.3	41
68	Hydrothermal synthesis of titanosilicate ETS-10 using Ti(SO ₄) ₂ . <i>Microporous and Mesoporous Materials</i> , 2005, 81, 1-10.	2.2	38
69	Implementation of a Multidisciplinary Approach to Solve Complex Nano EHS Problems by the UC Center for the Environmental Implications of Nanotechnology. <i>Small</i> , 2013, 9, 1428-1443.	5.2	32
70	Nrf2 protects the lung against inflammation induced by titanium dioxide nanoparticles: A positive regulator role of Nrf2 on cytokine release. <i>Environmental Toxicology</i> , 2015, 30, 782-792.	2.1	28
71	Differential pulmonary effects of CoO and La ₂ O ₃ metal oxide nanoparticle responses during aerosolized inhalation in mice. <i>Particle and Fibre Toxicology</i> , 2015, 13, 42.	2.8	26
72	Nanoparticle dispersion in environmentally relevant culture media: a TiO ₂ case study and considerations for a general approach. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	24

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73	First unseeded hydrothermal synthesis of microporous vanadosilicate AM-6. <i>Microporous and Mesoporous Materials</i> , 2009, 120, 454-459.	2.2	21
74	Pro-Inflammatory and Pro-Fibrogenic Effects of Ionic and Particulate Arsenide and Indium-Containing Semiconductor Materials in the Murine Lung. <i>ACS Nano</i> , 2017, 11, 1869-1883.	7.3	19
75	Synthesis and morphological control of large titanosilicate ETS-10 crystals. <i>Microporous and Mesoporous Materials</i> , 2008, 109, 1-11.	2.2	17
76	Competitive nucleation and growth in seeded batch crystallization of titanosilicate ETS-10 using Ti(SO ₄) ₂ . <i>Microporous and Mesoporous Materials</i> , 2005, 81, 201-210.	2.2	15
77	Implications of the Differential Toxicological Effects of IIIâ€“V Ionic and Particulate Materials for Hazard Assessment of Semiconductor Slurries. <i>ACS Nano</i> , 2015, 9, 12011-12025.	7.3	15
78	Semiconductor Electronic Label-Free Assay for Predictive Toxicology. <i>Scientific Reports</i> , 2016, 6, 24982.	1.6	15
79	Assembly of titanosilicate ETS-10 crystals on organosilane-functionalized gallium nitride surfaces. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 245-250.	2.2	14
80	A Bayesian regression tree approach to identify the effect of nanoparticlesâ€™ properties on toxicity profiles. <i>Annals of Applied Statistics</i> , 2015, 9, .	0.5	14
81	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> , 2011, 221, 77-83.	2.0	12
82	Use of compositional and combinatorial nanomaterial libraries for biological studies. <i>Science Bulletin</i> , 2016, 61, 755-771.	4.3	12
83	Differential effect of micron- versus nanoscale IIIâ€“V particulates and ionic species on the zebrafish gut. <i>Environmental Science: Nano</i> , 2017, 4, 1350-1364.	2.2	11
84	Titanosilicate ETS-10 thin film preparation on fused silica optical fibers. <i>Microporous and Mesoporous Materials</i> , 2007, 101, 279-287.	2.2	5
85	Aluminum-Based Nano-adjuvants. , 2014, , 1-6.		0