

Haiyuan Zhang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96 papers	7,334 citations	39 h-index	85 g-index
100 ext. papers	8,304 ext. citations	10.2 avg, IF	5.68 L-index

#	Paper	IF	Citations
96	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, 4349-68	16.7	631
95	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> , 2013 , 7, 994-1005	16.7	456
94	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, 607-21	24.3	448
93	Processing pathway dependence of amorphous silica nanoparticle toxicity: colloidal vs pyrolytic. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15790-804	16.4	315
92	Aspect ratio determines the quantity of mesoporous silica nanoparticle uptake by a small GTPase-dependent macropinocytosis mechanism. <i>ACS Nano</i> , 2011 , 5, 4434-47	16.7	287
91	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> , 2011 , 5, 1805-17	16.7	280
90	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, 3745-59	16.7	279
89	Designed synthesis of CeO ₂ nanorods and nanowires for studying toxicological effects of high aspect ratio nanomaterials. <i>ACS Nano</i> , 2012 , 6, 5366-80	16.7	275
88	Dispersion and stability optimization of TiO ₂ nanoparticles in cell culture media. <i>Environmental Science & Technology</i> , 2010 , 44, 7309-14	10.3	261
87	Surface charge and cellular processing of covalently functionalized multiwall carbon nanotubes determine pulmonary toxicity. <i>ACS Nano</i> , 2013 , 7, 2352-68	16.7	232
86	Use of coated silver nanoparticles to understand the relationship of particle dissolution and bioavailability to cell and lung toxicological potential. <i>Small</i> , 2014 , 10, 385-98	11	207
85	Intelligent Hollow Pt-CuS Janus Architecture for Synergistic Catalysis-Enhanced Sonodynamic and Photothermal Cancer Therapy. <i>Nano Letters</i> , 2019 , 19, 4134-4145	11.5	201
84	Surface interactions with compartmentalized cellular phosphates explain rare earth oxide nanoparticle hazard and provide opportunities for safer design. <i>ACS Nano</i> , 2014 , 8, 1771-83	16.7	177
83	Deep-Level Defect Enhanced Photothermal Performance of Bismuth Sulfide-Gold Heterojunction Nanorods for Photothermal Therapy of Cancer Guided by Computed Tomography Imaging. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 246-251	16.4	174
82	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> , 2011 , 5, 9772-87	16.7	159
81	High content screening in zebrafish speeds up hazard ranking of transition metal oxide nanoparticles. <i>ACS Nano</i> , 2011 , 5, 7284-95	16.7	154
80	Engineering an effective immune adjuvant by designed control of shape and crystallinity of aluminum oxyhydroxide nanoparticles. <i>ACS Nano</i> , 2013 , 7, 10834-49	16.7	153

79	Pluronic F108 coating decreases the lung fibrosis potential of multiwall carbon nanotubes by reducing lysosomal injury. <i>Nano Letters</i> , 2012 , 12, 3050-61	11.5	142
78	Quantitative techniques for assessing and controlling the dispersion and biological effects of multiwalled carbon nanotubes in mammalian tissue culture cells. <i>ACS Nano</i> , 2010 , 4, 7241-52	16.7	142
77	Two-wave nanotherapy to target the stroma and optimize gemcitabine delivery to a human pancreatic cancer model in mice. <i>ACS Nano</i> , 2013 , 7, 10048-65	16.7	131
76	NADPH Oxidase-Dependent NLRP3 Inflammasome Activation and its Important Role in Lung Fibrosis by Multiwalled Carbon Nanotubes. <i>Small</i> , 2015 , 11, 2087-97	11	123
75	Resonance Energy Transfer-Promoted Photothermal and Photodynamic Performance of Gold-Copper Sulfide Yolk-Shell Nanoparticles for Chemophototherapy of Cancer. <i>Nano Letters</i> , 2018 , 18, 886-897	11.5	123
74	Interference in autophagosome fusion by rare earth nanoparticles disrupts autophagic flux and regulation of an interleukin-1 β -producing inflammasome. <i>ACS Nano</i> , 2014 , 8, 10280-92	16.7	123
73	PdO doping tunes band-gap energy levels as well as oxidative stress responses to a CoO β -type semiconductor in cells and the lung. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6406-20	16.4	114
72	Toxicity of metal oxide nanoparticles in Escherichia coli correlates with conduction band and hydration energies. <i>Environmental Science & Technology</i> , 2015 , 49, 1105-12	10.3	111
71	Zebrafish high-throughput screening to study the impact of dissolvable metal oxide nanoparticles on the hatching enzyme, ZHE1. <i>Small</i> , 2013 , 9, 1776-85	11	97
70	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, 3032-43	16.7	90
69	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, 9357-72	16.7	86
68	NLRP3 inflammasome activation and lung fibrosis caused by airborne fine particulate matter. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 163, 612-619	7	76
67	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	16.7	76
66	Multifunctional Supramolecular Materials Constructed from Polypyrrole@UiO-66 Nanohybrids and Pillararene Nanovalves for Targeted Chemophotothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34655-34663	9.5	72
65	{101}-{001} Surface Heterojunction-Enhanced Antibacterial Activity of Titanium Dioxide Nanocrystals Under Sunlight Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5907-5915	9.5	60
64	Spatiotemporally Synchronous Oxygen Self-Supply and Reactive Oxygen Species Production on Z-Scheme Heterostructures for Hypoxic Tumor Therapy. <i>Advanced Materials</i> , 2020 , 32, e1908109	24	59
63	Bismuth Sulfide Nanorods with Retractable Zinc Protoporphyrin Molecules for Suppressing Innate Antioxidant Defense System and Strengthening Phototherapeutic Effects. <i>Advanced Materials</i> , 2019 , 31, e1806808	24	57
62	Nitric Oxide Stimulated Programmable Drug Release of Nanosystem for Multidrug Resistance Cancer Therapy. <i>Nano Letters</i> , 2019 , 19, 6800-6811	11.5	51

61	Simulated Sunlight-Mediated Photodynamic Therapy for Melanoma Skin Cancer by Titanium-Dioxide-Nanoparticle-Gold-Nanocluster-Graphene Heterogeneous Nanocomposites. <i>Small</i> , 2017 , 13, 1603935	11	50
60	Synthesis and characterization of new copper thiosemicarbazone complexes with an ONNS quadridentate system: cell growth inhibition, S-phase cell cycle arrest and proapoptotic activities on cisplatin-resistant neuroblastoma cells. <i>Journal of Biological Inorganic Chemistry</i> , 2008 , 13, 47-55	3.7	49
59	Crystallographic Facet-Induced Toxicological Responses by Faceted Titanium Dioxide Nanocrystals. <i>ACS Nano</i> , 2016 , 10, 6062-73	16.7	45
58	Reversible B/Z-DNA transition under the low salt condition and non-B-form polydAdpolydT selectivity by a cubane-like europium-L-aspartic acid complex. <i>Biophysical Journal</i> , 2006 , 90, 3203-7	2.9	39
57	Hollow, Rough, and Nitric Oxide-Releasing Cerium Oxide Nanoparticles for Promoting Multiple Stages of Wound Healing. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900256	10.1	37
56	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, 3797-805	11	35
55	Interactions of the human telomeric DNA with terbium-amino acid complexes. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 1646-52	4.2	35
54	Potent anticancer activity of pyrrolidine dithiocarbamate-copper complex against cisplatin-resistant neuroblastoma cells. <i>Anti-Cancer Drugs</i> , 2008 , 19, 125-32	2.4	34
53	Electron Compensation Effect Suppressed Silver Ion Release and Contributed Safety of Au@Ag Core-Shell Nanoparticles. <i>Nano Letters</i> , 2019 , 19, 4478-4489	11.5	33
52	Time-staggered delivery of erlotinib and doxorubicin by gold nanocages with two smart polymers for reprogrammable release and synergistic with photothermal therapy. <i>Biomaterials</i> , 2019 , 217, 119327	15.6	33
51	Upshift of the d Band Center toward the Fermi Level for Promoting Silver Ion Release, Bacteria Inactivation, and Wound Healing of Alloy Silver Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12224-12231	9.5	32
50	Anisotropic Plasmonic Metal Heterostructures as Theranostic Nanosystems for Near Infrared Light-Activated Fluorescence Amplification and Phototherapy. <i>Advanced Science</i> , 2019 , 6, 1900158	13.6	29
49	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, 1428-43	11	29
48	Facile surface functionalization of upconversion nanoparticles with phosphoryl pillar[5]arenes for controlled cargo release and cell imaging. <i>Chemical Communications</i> , 2018 , 54, 12990-12993	5.8	28
47	Novel Bismuth-Based Nanomaterials Used for Cancer Diagnosis and Therapy. <i>Chemistry - A European Journal</i> , 2018 , 24, 17405-17418	4.8	27
46	Polydopamine and ammonium bicarbonate coated and doxorubicin loaded hollow cerium oxide nanoparticles for synergistic tumor therapy. <i>Nano Research</i> , 2019 , 12, 2947-2953	10	27
45	Positron emission tomography of human hepatocellular carcinoma xenografts in mice using copper (II)-64 chloride as a tracer with copper (II)-64 chloride. <i>Academic Radiology</i> , 2011 , 18, 1561-8	4.3	27
44	MAPK-Targeted Drug Delivered by a pH-Sensitive MSNP Nanocarrier Synergizes with PD-1 Blockade in Melanoma without T-Cell Suppression. <i>Advanced Functional Materials</i> , 2019 , 29, 1806916	15.6	23

43	Hierarchical Acceleration of Wound Healing through Intelligent Nanosystem to Promote Multiple Stages. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33725-33733	9.5	20
42	A biomimetic nanoenzyme for starvation therapy enhanced photothermal and chemodynamic tumor therapy. <i>Nanoscale</i> , 2020 , 12, 23159-23165	7.7	20
41	PolydA and polyrA self-structured by a europium and amino acid complex. <i>FEBS Letters</i> , 2006 , 580, 3726-3730	3.8	18
40	Differential photothermal and photodynamic performance behaviors of gold nanorods, nanoshells and nanocages under identical energy conditions. <i>Biomaterials Science</i> , 2019 , 7, 1448-1462	7.4	17
39	Long non-coding RNA 520 is a negative prognostic biomarker and exhibits pro-oncogenic function in nasopharyngeal carcinoma carcinogenesis through regulation of miR-26b-3p/USP39 axis. <i>Gene</i> , 2019 , 707, 44-52	3.8	15
38	Deep-Level Defect Enhanced Photothermal Performance of Bismuth Sulfide/Gold Heterojunction Nanorods for Photothermal Therapy of Cancer Guided by Computed Tomography Imaging. <i>Angewandte Chemie</i> , 2018 , 130, 252-257	3.6	15
37	Understanding the Property-Activity Relationships of Polyhedral Cuprous Oxide Nanocrystals in Terms of Reactive Crystallographic Facets. <i>Toxicological Sciences</i> , 2017 , 156, 480-491	4.4	13
36	LncRNA DLX6-AS1 increases the expression of HIF-1 α and promotes the malignant phenotypes of nasopharyngeal carcinoma cells via targeting MiR-199a-5p. <i>Molecular Genetics & Genomic Medicine</i> , 2020 , 8, e1017	2.3	13
35	Understanding Nanomaterial Biotransformation: An Unmet Challenge to Achieving Predictive Nanotoxicology. <i>Small</i> , 2020 , 16, e1907650	11	12
34	Crystallographic facet-dependent stress responses by polyhedral lead sulfide nanocrystals and the potential safe-by-design approach. <i>Nano Research</i> , 2016 , 9, 3812-3827	10	11
33	Sunlight-Mediated Antibacterial Activity Enhancement of Gold Nanoclusters and Graphene Co-decorated Titanium Dioxide Nanocomposites. <i>Journal of Cluster Science</i> , 2019 , 30, 985-994	3	10
32	Novel Meta-iodobenzylguanidine-Based Copper Thiosemicarbazide-1-guanidinomethylbenzyl Anticancer Compounds Targeting Norepinephrine Transporter in Neuroblastoma. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 6985-6991	8.3	10
31	Combination of MAPK inhibition with photothermal therapy synergistically augments the anti-tumor efficacy of immune checkpoint blockade. <i>Journal of Controlled Release</i> , 2021 , 332, 194-209	11.7	10
30	Thylakoid Membranes with Unique Photosystems Used to Simultaneously Produce Self-Supplying Oxygen and Singlet Oxygen for Hypoxic Tumor Therapy. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001666	10.1	10
29	Phyto-fabrication, purification, characterisation, optimisation, and biological competence of nano-silver. <i>IET Nanobiotechnology</i> , 2021 , 15, 1-18	2	10
28	Proteogenomic studies on cancer drug resistance: towards biomarker discovery and target identification. <i>Expert Review of Proteomics</i> , 2017 , 14, 351-362	4.2	9
27	Achievement of safer palladium nanocrystals by enlargement of {100} crystallographic facets. <i>Nanotoxicology</i> , 2017 , 11, 907-922	5.3	9
26	Safety-by-Design of Metal Oxide Nanoparticles Based on the Regulation of their Energy Edges. <i>Small</i> , 2020 , 16, e1907643	11	9

25	Biodegradable Copper-Based Nanoparticles Augmented Chemodynamic Therapy through Deep Penetration and Suppressing Antioxidant Activity in Tumors. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100412	10.1	8
24	Sn complexation with sulfonated-carbon dots in pursuit of enhanced fluorescence and singlet oxygen quantum yield. <i>Dalton Transactions</i> , 2020 , 49, 6950-6956	4.3	7
23	Redox Activity and Nano-Bio Interactions Determine the Skin Injury Potential of CoO-Based Metal Oxide Nanoparticles toward Zebrafish. <i>ACS Nano</i> , 2020 , 14, 4166-4177	16.7	6
22	Immunomodulation of Tumor Microenvironment by Arginine-Loaded Iron Oxide Nanoparticles for Gaseous Immunotherapy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19825-19835	9.5	6
21	Band Alignment-Driven Oxidative Injury to the Skin by Anatase/Rutile Mixed-Phase Titanium Dioxide Nanoparticles Under Sunlight Exposure. <i>Toxicological Sciences</i> , 2018 , 164, 300-312	4.4	5
20	Plasmon-pyroelectric nanostructures used to produce a temperature-mediated reactive oxygen species for hypoxic tumor therapy. <i>Nano Today</i> , 2021 , 38, 101110	17.9	5
19	Potential hazards of superfine particles to human bronchial epithelial cells through inducing oxidative stress. <i>NanoImpact</i> , 2016 , 2, 93-98	5.6	4
18	Copper Phosphide Nanoparticles Used for Combined Photothermal and Photodynamic Tumor Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2745-2754	5.5	3
17	Electronic Band-Engineered Nanomaterials for Biosafety and Biomedical Application. <i>Accounts of Materials Research</i> , 2021 , 2, 764-779	7.5	3
16	Energy transfer facilitated near infrared fluorescence imaging and photodynamic therapy of tumors. <i>Biomaterials Science</i> , 2021 , 9, 4662-4670	7.4	3
15	Computer simulation for effect of Pr(III) on Ca(II) speciation in human interstitial fluid. <i>Biological Trace Element Research</i> , 2003 , 94, 131-40	4.5	2
14	Computer simulation for effect of Pr(III) on Ca(II) speciation in human interstitial fluid. <i>Biological Trace Element Research</i> , 2003 , 95, 39-48	4.5	2
13	Computer simulation of Pr(III) speciation in human interstitial fluid. <i>Chemical Speciation and Bioavailability</i> , 2004 , 16, 153-158		2
12	Tumor microcalcification-mediated relay drug delivery for photodynamic immunotherapy of breast cancer.. <i>Acta Biomaterialia</i> , 2021 , 140, 518-518	10.8	2
11	Particulate matter aggravates Alzheimer's disease by activating the NLRP3 inflammasome to release ASC specks. <i>Environmental Science: Nano</i> , 2021 , 8, 2177-2190	7.1	2
10	Regulation of Electronic Properties of Metal Oxide Nanoparticles to Reveal Their Toxicity Mechanism and Safe-by-Design Approach. <i>Advanced Biology</i> , 2021 , 5, 2000220		2
9	Therapeutic strategies of iron-based nanomaterials for cancer therapy. <i>Biomedical Materials (Bristol)</i> , 2021 , 16, 032003	3.5	2
8	Effect of praseodymium(III) on zinc(II) species in human interstitial fluid. <i>Biological Trace Element Research</i> , 2005 , 107, 101-11	4.5	1

7	Density functional theory, molecular docking and muscle relaxant, sedative, and analgesic studies of indanone derivatives isolated from. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 6488-6499	3.6	1
6	Biotransformation of soluble-insoluble lanthanum species and its induced NLRP3 inflammasome activation and chronic fibrosis. <i>Environmental Pollution</i> , 2021 , 284, 117438	9.3	1
5	Core-shell nanomaterials engineered to reverse cancer multidrug resistance by immunotherapy and promote photo-responsive chemotherapy. <i>Chemical Engineering Journal</i> , 2022 , 429, 132329	14.7	1
4	Dermal Toxicity Influence of Gold Nanomaterials after Embedment in Cosmetics. <i>Toxics</i> , 2022 , 10, 276	4.7	1
3	Property-activity relationship between physicochemical properties of PM and their activation of NLRP3 inflammasome.. <i>NanoImpact</i> , 2022 , 25, 100380	5.6	0
2	Neutrophil mediated postoperative photoimmunotherapy against melanoma skin cancer. <i>Nanoscale</i> , 2021 , 13, 14825-14836	7.7	0
1	Immunotherapy: MAPK-Targeted Drug Delivered by a pH-Sensitive MSNP Nanocarrier Synergizes with PD-1 Blockade in Melanoma without T-Cell Suppression (Adv. Funct. Mater. 12/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970079	15.6	