

Xiao-dong Zhang

List of Publications by Year in Descending Order

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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.

116 papers	7,274 citations	36 h-index	84 g-index
119 ext. papers	8,795 ext. citations	8.8 avg, IF	5.89 L-index

#	Paper	IF	Citations
116	Electronic and Near-Infrared-II Optical Properties of I-Doped Monolayer MoTe: A First-Principles Study.. <i>ACS Omega</i> , 2022 , 7, 11956-11963	3.9	0
115	Activatable NIR-II organic fluorescent probes for bioimaging.. <i>Theranostics</i> , 2022 , 12, 3345-3371	12.1	7
114	Atomically precise silver clusterzymes protect mice from radiation damages. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 377	9.4	0
113	An oligomeric semiconducting nanozyme with ultrafast electron transfers alleviates acute brain injury. <i>Science Advances</i> , 2021 , 7, eabk1210	14.3	5
112	Graphene and graphene-related materials as brain electrodes. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 9485-9496	7.3	0
111	Ligand-Modulated Catalytic Selectivity of Ag Clusterzyme for Relieving Multiorgan Injury via Inhabiting Acute Oxidative Stress. <i>Bioconjugate Chemistry</i> , 2021 , 32, 2342-2352	6.3	1
110	Catalytically active gold clusters with atomic precision for noninvasive early intervention of neurotrauma. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 319	9.4	1
109	Atomic Engineering of Clusterzyme for Relieving Acute Neuroinflammation through Lattice Expansion. <i>Nano Letters</i> , 2021 , 21, 2562-2571	11.5	12
108	Redox-active nanoparticles for inflammatory bowel disease. <i>Nano Research</i> , 2021 , 14, 2535-2557	10	7
107	A Near-Infrared-II Polymer with Tandem Fluorophores Demonstrates Superior Biodegradability for Simultaneous Drug Tracking and Treatment Efficacy Feedback. <i>ACS Nano</i> , 2021 , 15, 5428-5438	16.7	23
106	Catalytic nanozymes for central nervous system disease. <i>Coordination Chemistry Reviews</i> , 2021 , 432, 213751	13.1	15
105	Biocatalysts at atom level: From coordination structure to medical applications. <i>Applied Materials Today</i> , 2021 , 23, 101029	6.6	6
104	Bandgap Engineering and Near-Infrared-II Optical Properties of Monolayer MoS: A First-Principle Study. <i>Frontiers in Chemistry</i> , 2021 , 9, 700250	5	2
103	NIR-triggered engineered photosynthetic microflaodevice for reversing the hypoxic tumor immunosuppressive microenvironment. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2234-2246	7.8	2
102	Structurally symmetric near-infrared fluorophore IRDye78-protein complex enables multimodal cancer imaging. <i>Theranostics</i> , 2021 , 11, 2534-2549	12.1	6
101	Catalytic patch with redox Cr/CeO nanozyme of noninvasive intervention for brain trauma. <i>Theranostics</i> , 2021 , 11, 2806-2821	12.1	13
100	Catalytically potent and selective clusterzymes for modulation of neuroinflammation through single-atom substitutions. <i>Nature Communications</i> , 2021 , 12, 114	17.4	34

99	Catalytic Nanozyme for Radiation Protection. <i>Bioconjugate Chemistry</i> , 2021 , 32, 411-429	6.3	9
98	Sendai virus-based immunoadjuvant in hydrogel vaccine intensity-modulated dendritic cells activation for suppressing tumorigenesis. <i>Bioactive Materials</i> , 2021 , 6, 3879-3891	16.7	4
97	The Advance of CRISPR-Cas9-Based and NIR/CRISPR-Cas9-Based Imaging System.. <i>Frontiers in Chemistry</i> , 2021 , 9, 786354	5	1
96	Ultrabright bimetallic AuAg complex: From luminescence mechanism to biological application. <i>Journal of Innovative Optical Health Sciences</i> , 2020 , 13, 2041001	1.2	3
95	High brightness NIR-II nanofluorophores based on fused-ring acceptor molecules. <i>Nano Research</i> , 2020 , 13, 2570-2575	10	12
94	The focusing properties of spin wave with Fresnel lens phase profile. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 505, 166756	2.8	3
93	Carbon dot targeting to nitrogen signaling molecules for inhibiting neuronal death. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 2321-2330	7.3	10
92	Enzyme-Like Properties of Gold Clusters for Biomedical Application. <i>Frontiers in Chemistry</i> , 2020 , 8, 219	5	18
91	Micro- and nanotechnology for neural electrode-tissue interfaces. <i>Biosensors and Bioelectronics</i> , 2020 , 170, 112645	11.8	17
90	Dual pH-triggered catalytic selective Mn clusters for cancer radiosensitization and radioprotection. <i>Nanoscale</i> , 2020 , 12, 548-557	7.7	16
89	Reactive Oxygen Species-Induced Aggregation of Nanozymes for Neuron Injury. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 209-216	9.5	13
88	Single-atom nanozymes for biological applications. <i>Biomaterials Science</i> , 2020 , 8, 6428-6441	7.4	15
87	In Vivo Neuroelectrophysiological Monitoring of Atomically Precise Au Clusters at an Ultrahigh Injected Dose. <i>ACS Omega</i> , 2020 , 5, 24537-24545	3.9	4
86	Fluorescence enhancement of water-soluble silver nanoclusters via Au doping. <i>AIP Advances</i> , 2020 , 10, 125103	1.5	1
85	Illuminating Platinum Transportation while Maximizing Therapeutic Efficacy by Gold Nanoclusters Simultaneous Near-Infrared-I/II Imaging and Glutathione Scavenging. <i>ACS Nano</i> , 2020 , 14, 13536-13547	16.7	85
84	Real-Time Pharmaceutical Evaluations of Near-Infrared II Fluorescent Nanomedicine Bound Polyethylene Glycol Ligands for Tumor Photothermal Ablation. <i>ACS Nano</i> , 2020 , 14, 13681-13690	16.7	19
83	Catalytic PtPd bimetal nanocrystals with high-index facets for radiation injury repair. <i>Chinese Chemical Letters</i> , 2020 , 31, 269-274	8.1	11
82	The Near-Infrared-II Fluorophores and Advanced Microscopy Technologies Development and Application in Bioimaging. <i>Bioconjugate Chemistry</i> , 2020 , 31, 260-275	6.3	39

81	Renal-clearable Molecular Semiconductor for Second Near-Infrared Fluorescence Imaging of Kidney Dysfunction. <i>Angewandte Chemie</i> , 2019 , 131, 15264-15271	3.6	24
80	Renal-clearable Molecular Semiconductor for Second Near-Infrared Fluorescence Imaging of Kidney Dysfunction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15120-15127	16.4	136
79	Photodetectors based on two dimensional materials for biomedical application. <i>Biosensors and Bioelectronics</i> , 2019 , 143, 111617	11.8	12
78	Mesoporous CoP Nanowire Arrays for Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5922-5930	3.0	14
77	Albumin-chaperoned cyanine dye yields superbright NIR-II fluorophore with enhanced pharmacokinetics. <i>Science Advances</i> , 2019 , 5, eaaw0672	14.3	93
76	Nanozyme-Based Bandage with Single-Atom Catalysis for Brain Trauma. <i>ACS Nano</i> , 2019 , 13, 11552-11560	16.7	85
75	Carbogenic Nanozyme with Ultrahigh Reactive Nitrogen Species Selectivity for Traumatic Brain Injury. <i>Nano Letters</i> , 2019 , 19, 4527-4534	11.5	71
74	Naturally-Derived PHA-L Protein Nanoparticle as a Radioprotector Through Activation of Toll-Like Receptor 5. <i>Journal of Biomedical Nanotechnology</i> , 2019 , 15, 62-76	4	9
73	Redox Trimetallic Nanozyme with Neutral Environment Preference for Brain Injury. <i>ACS Nano</i> , 2019 , 13, 1870-1884	16.7	63
72	Atomic-Precision Gold Clusters for NIR-II Imaging. <i>Advanced Materials</i> , 2019 , 31, e1901015	24	149
71	Dislocation Engineered PtPdMo Alloy With Enhanced Antioxidant Activity for Intestinal Injury. <i>Frontiers in Chemistry</i> , 2019 , 7, 784	5	7
70	Enhanced hydrogen evolution reaction of WS ₂ /MoS ₂ heterostructure by synergistic effect. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 809-818	6.7	35
69	Brain imaging with near-infrared fluorophores. <i>Coordination Chemistry Reviews</i> , 2019 , 380, 550-571	23.2	40
68	A theranostic agent for cancer therapy and imaging in the second near-infrared window. <i>Nano Research</i> , 2019 , 12, 273-279	10	60
67	Fluorescence enhancement of gold nanoclusters Zn doping for biomedical applications.. <i>RSC Advances</i> , 2018 , 8, 7396-7402	3.7	4
66	Thermally and optically tunable lasing properties from dye-doped holographic polymer dispersed liquid crystal in capillaries. <i>Journal of Applied Physics</i> , 2018 , 123, 103105	2.5	1
65	Hollow PtPdRh Nanocubes with Enhanced Catalytic Activities for In Vivo Clearance of Radiation-Induced ROS via Surface-Mediated Bond Breaking. <i>Small</i> , 2018 , 14, e1703736	11	37
64	A bright organic NIR-II nanofluorophore for three-dimensional imaging into biological tissues. <i>Nature Communications</i> , 2018 , 9, 1171	17.4	242

63	Enhanced catalysis of ultrasmall Au-MoS ₂ clusters against reactive oxygen species for radiation protection. <i>Science Bulletin</i> , 2018 , 63, 925-934	10.6	13
62	Cancer Radiosensitizers. <i>Trends in Pharmacological Sciences</i> , 2018 , 39, 24-48	13.2	228
61	Highly efficient catalytic scavenging of oxygen free radicals with graphene-encapsulated metal nanoshields. <i>Nano Research</i> , 2018 , 11, 2821-2835	10	24
60	Structure, luminescence, and bioimaging of bimetallic CuAu nanoclusters. <i>Optical Materials</i> , 2018 , 86, 291-297	3.3	3
59	Rational Design of Molecular Fluorophores for Biological Imaging in the NIR-II Window. <i>Advanced Materials</i> , 2017 , 29, 1605497	24	251
58	Ultrasmall WS Quantum Dots with Visible Fluorescence for Protection of Cells and Animal Models from Radiation-Induced Damages. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 460-470	5.5	48
57	Renal Clearable Luminescent WSe ₂ for Radioprotection of Nontargeted Tissues during Radiotherapy. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700035	3.1	20
56	Black Phosphorus Quantum Dot Induced Oxidative Stress and Toxicity in Living Cells and Mice. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20399-20409	9.5	101
55	Catalytic topological insulator BiSe nanoparticles for invivo protection against ionizing radiation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 1597-1605	6	30
54	High-Density Super-Resolution Localization Imaging with Blinking Carbon Dots. <i>Analytical Chemistry</i> , 2017 , 89, 11831-11838	7.8	34
53	Ultrasmall and photostable nanotheranostic agents based on carbon quantum dots passivated with polyamine-containing organosilane molecules. <i>Nanoscale</i> , 2017 , 9, 15441-15452	7.7	52
52	Proteasome beta-4 subunit contributes to the development of melanoma and is regulated by miR-148b. <i>Tumor Biology</i> , 2017 , 39, 1010428317705767	2.9	5
51	Enhanced Radiation Therapy of Gold Nanoparticles in Liver Cancer. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 232	2.6	16
50	Ultrasmall Pt Clusters Reducing Radiation-Induced Injuries via Scavenging Free Radicals. <i>Journal of Biomedical Nanotechnology</i> , 2017 , 13, 1512-1521	4	12
49	3D Graphitic Foams Derived from Chloroaluminate Anion Intercalation for Ultrafast Aluminum-Ion Battery. <i>Advanced Materials</i> , 2016 , 28, 9218-9222	24	256
48	Iridium Oxide-reduced Graphene Oxide Nanohybrid Thin Film Modified Screen-printed Electrodes as Disposable Electrochemical Paper Microfluidic pH Sensors. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	2
47	Active tumor-targeting luminescent gold clusters with efficient urinary excretion. <i>Chemical Communications</i> , 2016 , 52, 9232-5	5.8	26
46	Highly Catalytic Nanodots with Renal Clearance for Radiation Protection. <i>ACS Nano</i> , 2016 , 10, 4511-9	16.7	85

45	A small-molecule dye for NIR-II imaging. <i>Nature Materials</i> , 2016 , 15, 235-42	27	939
44	Traumatic Brain Injury Imaging in the Second Near-Infrared Window with a Molecular Fluorophore. <i>Advanced Materials</i> , 2016 , 28, 6872-9	24	240
43	Visible to Near-Infrared Fluorescence Enhanced Cellular Imaging on Plasmonic Gold Chips. <i>Small</i> , 2016 , 12, 457-65	11	26
42	Digital pH Test Strips for In-Field pH Monitoring Using Iridium Oxide-Reduced Graphene Oxide Hybrid Thin Films. <i>ACS Sensors</i> , 2016 , 1, 1235-1243	9.2	24
41	Visible and Near-Infrared Dual-Emission Carbogenic Small Molecular Complex with High RNA Selectivity and Renal Clearance for Nucleolus and Tumor Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28529-28537	9.5	33
40	Use of epidermal growth factor receptor antibody-gold cluster conjugates with good renal excretion in targeted cancer radiation treatment. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 4735-4741	7.3	12
39	Ultrasmall glutathione-protected gold nanoclusters as next generation radiotherapy sensitizers with high tumor uptake and high renal clearance. <i>Scientific Reports</i> , 2015 , 5, 8669	4.9	183
38	Rapid microwave-assisted synthesis of ultra-bright fluorescent carbon dots for live cell staining, cell-specific targeting and in vivo imaging. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 4786-4789	7.3	47
37	H-bonded supramolecular polymer for the selective dispersion and subsequent release of large-diameter semiconducting single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4328-31	16.4	94
36	A two-component active targeting theranostic agent based on graphene quantum dots. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3583-3590	7.3	35
35	Storage of gold nanoclusters in muscle leads to their biphasic in vivo clearance. <i>Small</i> , 2015 , 11, 1683-90	11	45
34	Cutaneous infections caused by rapidly growing mycobacteria: case reports and review of clinical and laboratory aspects. <i>Acta Dermato-Venereologica</i> , 2015 , 95, 985-9	2.2	12
33	Metabolizable Bi ₂ Se ₃ Nanoplates: Biodistribution, Toxicity, and Uses for Cancer Radiation Therapy and Imaging. <i>Advanced Functional Materials</i> , 2014 , 24, 1718-1729	15.6	200
32	Two dimensional TiO ₂ nanosheets: in vivo toxicity investigation. <i>RSC Advances</i> , 2014 , 4, 42598-42603	3.7	24
31	Ultrasmall Au(10-12)(SG)(10-12) nanomolecules for high tumor specificity and cancer radiotherapy. <i>Advanced Materials</i> , 2014 , 26, 4565-8	24	340
30	Ultrafast fluorescence imaging in vivo with conjugated polymer fluorophores in the second near-infrared window. <i>Nature Communications</i> , 2014 , 5, 4206	17.4	394
29	Passing through the renal clearance barrier: toward ultrasmall sizes with stable ligands for potential clinical applications. <i>International Journal of Nanomedicine</i> , 2014 , 9, 2069-72	7.3	29
28	Radiosensitizers: Enhanced Tumor Accumulation of Sub-2 nm Gold Nanoclusters for Cancer Radiation Therapy (Adv. Healthcare Mater. 1/2014). <i>Advanced Healthcare Materials</i> , 2014 , 3, 152-152	10.1	7

27	Interferon regulatory factor 3 protects against adverse neo-intima formation. <i>Cardiovascular Research</i> , 2014 , 102, 469-79	9.9	18
26	Enhanced tumor accumulation of sub-2 nm gold nanoclusters for cancer radiation therapy. <i>Advanced Healthcare Materials</i> , 2014 , 3, 133-41	10.1	266
25	QSAR modeling of iNOS inhibitors based on a novel regression method: Multi-stage adaptive regression. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013 , 128, 83-88	3.8	2
24	Prediction of enhancement effect of nitroimidazoles on irradiation by gene expression programming. <i>Chemical Research in Chinese Universities</i> , 2013 , 29, 519-525	2.2	
23	DIM (3,3'-diindolylmethane) confers protection against ionizing radiation by a unique mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18650-5	11.5	64
22	Synthesis, thermal evolution and optical properties of CuZn alloy nanoparticles in SiO ₂ sequentially implanted with dual ions. <i>Journal of Alloys and Compounds</i> , 2013 , 549, 231-237	5.7	18
21	Sex differences in the toxicity of polyethylene glycol-coated gold nanoparticles in mice. <i>International Journal of Nanomedicine</i> , 2013 , 8, 2409-19	7.3	41
20	Study on incompatibility of traditional chinese medicine: evidence from formula network, chemical space, and metabolism room. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013 , 2013, 352143	2.3	3
19	Effect of radiation on the Notch signaling pathway in osteoblasts. <i>International Journal of Molecular Medicine</i> , 2013 , 31, 698-706	4.4	13
18	In vivo renal clearance, biodistribution, toxicity of gold nanoclusters. <i>Biomaterials</i> , 2012 , 33, 4628-38	15.6	315
17	Size-dependent radiosensitization of PEG-coated gold nanoparticles for cancer radiation therapy. <i>Biomaterials</i> , 2012 , 33, 6408-19	15.6	357
16	Electronic structure and enhanced visible-light absorption of N,B-codoped TiO ₂ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 172-174	2.5	7
15	Tailoring the Size Distribution of Ag Nanoparticles Embedded in SiO ₂ by Xe Ion Postirradiation. <i>Applied Physics Express</i> , 2012 , 5, 105002	2.4	9
14	Effect of radiation on the expression of osteoclast marker genes in RAW264.7 cells. <i>Molecular Medicine Reports</i> , 2012 , 5, 955-8	2.9	15
13	Size-dependent in vivo toxicity of PEG-coated gold nanoparticles. <i>International Journal of Nanomedicine</i> , 2011 , 6, 2071-81	7.3	298
12	First-principles investigation of Ag-doped gold nanoclusters. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 2972-81	6.3	24
11	Creation of nanoparticles and luminescence in Al ₂ O ₃ crystal by Zn ion implantation. <i>Journal of Luminescence</i> , 2011 , 131, 2725-2729	3.8	4
10	Optical Spectra Properties of Neutral Zn-Doped Au ₂₀ Nanoclusters by First-Principles Calculations. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2011 , 21, 758-765	3.2	6

9	Gold Nanostructure: Fabrication, Surface Modification, Targeting Imaging, and Enhanced Radiotherapy. <i>Current Nanoscience</i> , 2011 , 7, 110-118	1.4	25
8	Research on EPR measurement methods of sucrose used in radiation accident dose reconstruction. <i>Radiation Protection Dosimetry</i> , 2010 , 138, 393-6	0.9	
7	Toxicologic effects of gold nanoparticles in vivo by different administration routes. <i>International Journal of Nanomedicine</i> , 2010 , 5, 771-81	7.3	289
6	Atmosphere effects on the formation and evolution of Zn and ZnO nanoparticles in Zn ion implanted SiO ₂ . <i>Optical Materials</i> , 2010 , 32, 961-965	3.3	7
5	Fabrication and evolution of Cu nanoparticles in Al ₂ O ₃ crystal by ion implantation and annealing at different atmospheres. <i>Applied Surface Science</i> , 2010 , 256, 3767-3771	6.7	10
4	Irradiation stability and cytotoxicity of gold nanoparticles for radiotherapy. <i>International Journal of Nanomedicine</i> , 2009 , 4, 165-73	7.3	69
3	Surface exfoliation and defect structures in Si induced by 160 keV He and 110 keV H ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 250-255	1.2	3
2	Ab initio calculations of electronic and optical properties in O-doped LiF crystal. <i>Open Physics</i> , 2008 , 6,	1.3	1
1	A novel gene, RSD-3/HSD-3.1, encodes a meiotic-related protein expressed in rat and human testis. <i>Journal of Molecular Medicine</i> , 2003 , 81, 380-7	5.5	20