

# Xiao Zhang

## List of Publications by Year in descending order

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83  
papers

12,376  
citations

53794

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h-index

56724

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g-index

86  
all docs

86  
docs citations

86  
times ranked

17941  
citing authors

#	ARTICLE	IF	CITATIONS
1	Localized domains staging structure and evolution in lithiated graphite. , 2023, 5, .		21
2	Anti-VEGFR2-labeled enzyme-immobilized metal-organic frameworks for tumor vasculature targeted catalytic therapy. Acta Biomaterialia, 2022, 141, 364-373.	8.3	10
3	Deciphering the Role of Fluoroethylene Carbonate towards Highly Reversible Sodium Metal Anodes. Research, 2022, 2022, 9754612.	5.7	23
4	Recent Advances in Structure Separation of Single-Wall Carbon Nanotubes and Their Application in Optics, Electronics, and Optoelectronics. Advanced Science, 2022, 9, e2200054.	11.2	39
5	Quasi-one-dimensional diffuse laser cooling of atoms. Physical Review A, 2022, 105, .	2.5	8
6	Tumor-Tropic Adipose-Derived Mesenchymal Stromal Cell Mediated Bi <sub>2</sub> Se <sub>3</sub> Nano-Radiosensitizers Delivery for Targeted Radiotherapy of Non-Small Cell Lung Cancer. Advanced Healthcare Materials, 2022, 11, e2200143.	7.6	18
7	Sensitive Activatable Nanoprobes for Real-Time Ratiometric Magnetic Resonance Imaging of Reactive Oxygen Species and Ameliorating Inflammation In Vivo. Advanced Materials, 2022, 34, e2109004.	21.0	52
8	Recent advances in biomedical applications of 2D nanomaterials with peroxidase-like properties. Advanced Drug Delivery Reviews, 2022, 185, 114269.	13.7	27
9	An aldehyde dehydrogenase 1A3 inhibitor attenuates the metastasis of human colorectal cancer. Cancer Letters, 2022, 536, 215662.	7.2	11
10	Interfacial engineering to achieve an energy density of over 200 Wh kg <sup>-1</sup> in sodium batteries. Nature Energy, 2022, 7, 511-519.	39.5	130
11	5,10,15,20-tetrakis (4-carboxylphenyl) porphyrin functionalized NiCo <sub>2</sub> S <sub>4</sub> yolk-shell nanospheres: Excellent peroxidase-like activity, catalytic mechanism and fast cascade colorimetric biosensor for cholesterol. Sensors and Actuators B: Chemical, 2021, 326, 128850.	7.8	52
12	Vanadium Dioxide Cathodes for High-Rate Photo-Rechargeable Zinc-Ion Batteries. Advanced Energy Materials, 2021, 11, 2100115.	19.5	127
13	Full Solar-Spectrum-Driven Antibacterial Therapy over Hierarchical Sn <sub>3</sub> O <sub>4</sub> /PDINH with Enhanced Photocatalytic Activity. Small, 2021, 17, e2102744.	10.0	64
14	Template-Regulated Bimetallic Sulfide Nanozymes with High Specificity and Activity for Visual Colorimetric Detection of Cellular H <sub>2</sub> O <sub>2</sub> . ACS Applied Materials & Interfaces, 2021, 13, 53599-53609.	8.0	28
15	High-precision solid catalysts for investigation of carbon nanotube synthesis and structure. Science Advances, 2020, 6, .	10.3	29
16	Ce-doped ZnCo <sub>2</sub> O <sub>4</sub> nanospheres: Synthesis, double enzyme-like performances, catalytic mechanism and fast colorimetric determination for glutathione. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 607, 125466.	4.7	16
17	Stimuli-Responsive Small-on-Large Nanoradiosensitizer for Enhanced Tumor Penetration and Radiotherapy Sensitization. ACS Nano, 2020, 14, 10001-10017.	14.6	93
18	Defect-Rich Adhesive Molybdenum Disulfide/rGO Vertical Heterostructures with Enhanced Nanozyme Activity for Smart Bacterial Killing Application. Advanced Materials, 2020, 32, e2005423.	21.0	207

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19	Photo-rechargeable Zinc-Ion Capacitors using $V_2O_5$ -Activated Carbon Electrodes. <i>ACS Energy Letters</i> , 2020, 5, 3132-3139.	17.4	106
20	Precise Catalyst Production for Carbon Nanotube Synthesis with Targeted Structure Enrichment. <i>Catalysts</i> , 2020, 10, 1087.	3.5	4
21	Few-Layer Bismuthene for Checkpoint Knockdown Enhanced Cancer Immunotherapy with Rapid Clearance and Sequentially Triggered One-for-All Strategy. <i>ACS Nano</i> , 2020, 14, 15700-15713.	14.6	41
22	A two-step gas/liquid strategy for the production of N-doped defect-rich transition metal dichalcogenide nanosheets and their antibacterial applications. <i>Nanoscale</i> , 2020, 12, 8415-8424.	5.6	43
23	Graphdiyne nanoradioprotector with efficient free radical scavenging ability for mitigating radiation-induced gastrointestinal tract damage. <i>Biomaterials</i> , 2020, 244, 119940.	11.4	58
24	Rapid colorimetric sensing of ascorbic acid based on the excellent peroxidase-like activity of Pt deposited on $ZnCo_2O_4$ spheres. <i>New Journal of Chemistry</i> , 2020, 44, 12002-12008.	2.8	18
25	Liquid-Phase Exfoliation and Functionalization of $MoS_2$ Nanosheets for Effective Antibacterial Application. <i>ChemBioChem</i> , 2020, 21, 2373-2380.	2.6	31
26	Glucose-responsive cascaded nanocatalytic reactor with self-modulation of the tumor microenvironment for enhanced chemo-catalytic therapy. <i>Materials Horizons</i> , 2020, 7, 1834-1844.	12.2	56
27	An All-Organic Semiconductor $C_3N_4$ /PDINH Heterostructure with Advanced Antibacterial Photocatalytic Therapy Activity. <i>Advanced Materials</i> , 2019, 31, e1901965.	21.0	215
28	Mass production of poly(ethylene glycol) monooleate-modified core-shell structured upconversion nanoparticles for bio-imaging and photodynamic therapy. <i>Scientific Reports</i> , 2019, 9, 5212.	3.3	20
29	Efficient Near Infrared Light Triggered Nitric Oxide Release Nanocomposites for Sensitizing Mild Photothermal Therapy. <i>Advanced Science</i> , 2019, 6, 1801122.	11.2	169
30	Translocation, biotransformation-related degradation, and toxicity assessment of polyvinylpyrrolidone-modified 2H-phase nano- $MoS_2$ . <i>Nanoscale</i> , 2019, 11, 4767-4780.	5.6	47
31	Peroxidase-like activity of $MoS_2$ nanoflakes with different modifications and their application for $H_2O_2$ and glucose detection. <i>Journal of Materials Chemistry B</i> , 2018, 6, 487-498.	5.8	130
32	Intelligent $MoS_2$ Nanotheranostic for Targeted and Enzyme-/pH-/NIR-Responsive Drug Delivery To Overcome Cancer Chemotherapy Resistance Guided by PET Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 4271-4284.	8.0	137
33	Biodegradable $MoO_x$ nanoparticles with efficient near-infrared photothermal and photodynamic synergetic cancer therapy at the second biological window. <i>Nanoscale</i> , 2018, 10, 1517-1531.	5.6	144
34	Role of Electric Field and Reactive Oxygen Species in Enhancing Antibacterial Activity: A Case Study of 3D Cu Foam Electrode with Branched $Cu-Zn$ NWs. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26454-26463.	3.1	37
35	$Bi_2S_3$ -Tween 20 Nanodots Loading PI3K Inhibitor, LY294002, for Mild Photothermal Therapy of LoVo Cells In Vitro and In Vivo. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800830.	7.6	32
36	Functionalized $MoS_2$ Nanovehicle with Near-Infrared Laser-Mediated Nitric Oxide Release and Photothermal Activities for Advanced Bacteria-Infected Wound Therapy. <i>Small</i> , 2018, 14, e1802290.	10.0	259

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37	X-ray Controlled Generation of Peroxynitrite Based on Nanosized LiLu <sub>4</sub> Ce <sub>3+</sub> Scintillators and their Applications for Radiosensitization. <i>Advanced Materials</i> , 2018, 30, e1804046.	21.0	138
38	Synthesis of Surface Modification Oriented Nanosized Molybdenum Disulfide with High Peroxidase Like Catalytic Activity for H <sub>2</sub> O <sub>2</sub> and Cholesterol Detection. <i>Chemistry - A European Journal</i> , 2018, 24, 15868-15878.	3.3	33
39	High-fidelity characterization on anisotropic thermal conductivity of carbon nanotube sheets and on their effects of thermal enhancement of nanocomposites. <i>Nanotechnology</i> , 2018, 29, 365708.	2.6	14
40	Investigation of Thermally Induced Cellular Ablation and Heat Response Triggered by Planar MoS <sub>2</sub> -Based Nanocomposite. <i>Bioconjugate Chemistry</i> , 2017, 28, 1059-1067.	3.6	33
41	Protein-directed synthesis of Bi <sub>2</sub> S <sub>3</sub> nanoparticles as an efficient contrast agent for visualizing the gastrointestinal tract. <i>RSC Advances</i> , 2017, 7, 17505-17513.	3.6	15
42	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. <i>Chemical Reviews</i> , 2017, 117, 6225-6331.	47.7	3,940
43	Functional tumor imaging based on inorganic nanomaterials. <i>Science China Chemistry</i> , 2017, 60, 1425-1438.	8.2	17
44	Synthesis of BSA Coated BiOI@Bi <sub>2</sub> S <sub>3</sub> Semiconductor Heterojunction Nanoparticles and Their Applications for Radio/Photodynamic/Photothermal Synergistic Therapy of Tumor. <i>Advanced Materials</i> , 2017, 29, 1704136.	21.0	257
45	Poly(Vinylpyrrolidone) and Selenocysteine Modified Bi <sub>2</sub> Se <sub>3</sub> Nanoparticles Enhance Radiotherapy Efficacy in Tumors and Promote Radioprotection in Normal Tissues. <i>Advanced Materials</i> , 2017, 29, 1701268.	21.0	171
46	Detection of invisible phonon modes in individual defect-free carbon nanotubes by gradient-field Raman scattering. <i>Chinese Physics B</i> , 2017, 26, 078801.	1.4	1
47	Near infrared light triggered nitric oxide releasing platform based on upconversion nanoparticles for synergistic therapy of cancer stem-like cells. <i>Science Bulletin</i> , 2017, 62, 985-996.	9.0	45
48	Mesoporous Bamboo Charcoal Nanoparticles as a New Near Infrared Responsive Drug Carrier for Imaging Guided Chemotherapy/Photothermal Synergistic Therapy of Tumor. <i>Advanced Healthcare Materials</i> , 2016, 5, 1627-1637.	7.6	34
49	Lösungsprozessierte MoS <sub>2</sub> -Nanoplättchen: Herstellung, Hybridisierung und Anwendungen. <i>Angewandte Chemie</i> , 2016, 128, 8960-8984.	2.0	52
50	Solution Processed Two Dimensional MoS <sub>2</sub> Nanosheets: Preparation, Hybridization, and Applications. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8816-8838.	13.8	557
51	Multifunctional WS <sub>2</sub> @Poly(ethylene imine) Nanoplatforms for Imaging Guided Gene Photothermal Synergistic Therapy of Cancer. <i>Advanced Healthcare Materials</i> , 2016, 5, 2776-2787.	7.6	86
52	Epidermal Supercapacitor with High Performance. <i>Advanced Functional Materials</i> , 2016, 26, 8178-8184.	14.9	52
53	Photothermal Therapy: Multifunctional WS <sub>2</sub> @Polyetherimide Nanoplatforms for Imaging Guided Gene-Photothermal Synergistic Therapy of Cancer (Adv. Healthcare Mater. 21/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 2834-2834.	7.6	1
54	Rapid Degradation and High Renal Clearance of Cu <sub>3</sub> Bi <sub>3</sub> Nanodots for Efficient Cancer Diagnosis and Photothermal Therapy <i>in Vivo</i> . <i>ACS Nano</i> , 2016, 10, 4587-4598.	14.6	173

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55	Nd <sup>3+</sup> sensitized dumbbell-like upconversion nanoparticles for photodynamic therapy application. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2776-2784.	5.8	57
56	One-pot synthesis of PEGylated plasmonic MoO <sub>3</sub> ·x hollow nanospheres for photoacoustic imaging guided chemo-photothermal combinational therapy of cancer. <i>Biomaterials</i> , 2016, 76, 11-24.	11.4	171
57	Recent Advances in Upconversion Nanoparticles-Based Multifunctional Nanocomposites for Combined Cancer Therapy. <i>Advanced Materials</i> , 2015, 27, 7692-7712.	21.0	243
58	Smart MoS <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> Nanotheranostic for Magnetically Targeted Photothermal Therapy Guided by Magnetic Resonance/Photoacoustic Imaging. <i>Theranostics</i> , 2015, 5, 931-945.	10.0	234
59	Optical visualization and polarized light absorption of the single-wall carbon nanotube to verify intrinsic thermal applications. <i>Light: Science and Applications</i> , 2015, 4, e318-e318.	16.6	43
60	Angiotensin promotes breast cancer cell proliferation and invasion. <i>Oncology Reports</i> , 2015, 33, 1938-1946.	2.6	28
61	Biaxially stretchable supercapacitors based on the buckled hybrid fiber electrode array. <i>Nanoscale</i> , 2015, 7, 12492-12497.	5.6	53
62	Silica-coated bismuth sulfide nanorods as multimodal contrast agents for a non-invasive visualization of the gastrointestinal tract. <i>Nanoscale</i> , 2015, 7, 12581-12591.	5.6	60
63	Controllable Generation of Nitric Oxide by Near-Infrared-Sensitized Upconversion Nanoparticles for Tumor Therapy. <i>Advanced Functional Materials</i> , 2015, 25, 3049-3056.	14.9	194
64	Ethanol-assisted gel chromatography for single-chirality separation of carbon nanotubes. <i>Nanoscale</i> , 2015, 7, 16273-16281.	5.6	15
65	TPGS-stabilized NaYbF <sub>4</sub> :Er upconversion nanoparticles for dual-modal fluorescent/CT imaging and anticancer drug delivery to overcome multi-drug resistance. <i>Biomaterials</i> , 2015, 40, 107-116.	11.4	172
66	Highly stretchable pseudocapacitors based on buckled reticulate hybrid electrodes. <i>Nano Research</i> , 2014, 7, 1680-1690.	10.4	47
67	Multifunctional Rb <sub>x</sub> WO <sub>3</sub> Nanorods for Simultaneous Combined Chemo-photothermal Therapy and Photoacoustic/CT Imaging. <i>Small</i> , 2014, 10, 4160-4170.	10.0	86
68	Gray matter volume abnormalities in type 2 diabetes mellitus with and without mild cognitive impairment. <i>Neuroscience Letters</i> , 2014, 562, 1-6.	2.1	71
69	Engineered design of theranostic upconversion nanoparticles for tri-modal upconversion luminescence/magnetic resonance/X-ray computed tomography imaging and targeted delivery of combined anticancer drugs. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1379.	5.8	75
70	Temperature dependent Raman spectra of isolated suspended single-walled carbon nanotubes. <i>Nanoscale</i> , 2014, 6, 3949-3953.	5.6	33
71	Substrate-induced effects on the optical properties of individual ZnO nanorods with different diameters. <i>Nanoscale</i> , 2014, 6, 483-491.	5.6	8
72	A simple and efficient synthetic route for preparation of NaYF <sub>4</sub> upconversion nanoparticles by thermo-decomposition of rare-earth oleates. <i>CrystEngComm</i> , 2014, 16, 5650-5661.	2.6	35

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73	Mesoporous NaYbF <sub>4</sub> @NaGdF <sub>4</sub> core-shell up-conversion nanoparticles for targeted drug delivery and multimodal imaging. <i>Biomaterials</i> , 2014, 35, 7666-7678.	11.4	94
74	WS <sub>2</sub> nanosheet as a new photosensitizer carrier for combined photodynamic and photothermal therapy of cancer cells. <i>Nanoscale</i> , 2014, 6, 10394-10403.	5.6	301
75	High-Throughput Synthesis of Single-Layer MoS <sub>2</sub> Nanosheets as a Near-Infrared Photothermal-Triggered Drug Delivery for Effective Cancer Therapy. <i>ACS Nano</i> , 2014, 8, 6922-6933.	14.6	813
76	One-Pot Template-Free Synthesis of NaYF <sub>4</sub> Upconversion Hollow Nanospheres for Bioimaging and Drug Delivery. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1655-1662.	3.3	22
77	Multifunctional Up-Converting Nanocomposites with Smart Polymer Brushes Gated Mesopores for Cell Imaging and Thermo/pH Dual-Responsive Drug Controlled Release. <i>Advanced Functional Materials</i> , 2013, 23, 4067-4078.	14.9	209
78	A new near infrared photosensitizing nanoplatfrom containing blue-emitting up-conversion nanoparticles and hypocrellin A for photodynamic therapy of cancer cells. <i>Nanoscale</i> , 2013, 5, 11910.	5.6	85
79	Surface modification effect on photoluminescence of individual ZnO nanorods with different diameters. <i>Nanoscale</i> , 2013, 5, 4443.	5.6	30
80	Platinum (IV) Pro-Drug Conjugated NaYF <sub>4</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> Nanoparticles for Targeted Drug Delivery and Up-Conversion Cell Imaging. <i>Advanced Healthcare Materials</i> , 2013, 2, 562-567.	7.6	45
81	Super-stretchable, Transparent Carbon Nanotube-Based Capacitive Strain Sensors for Human Motion Detection. <i>Scientific Reports</i> , 2013, 3, 3048.	3.3	573
82	Up-Conversion Cell Imaging and pH-Induced Thermally Controlled Drug Release from NaYF <sub>4</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> @Hydrogel Core-Shell Hybrid Microspheres. <i>ACS Nano</i> , 2012, 6, 3327-3338.	14.6	308
83	Highly Transparent and Conductive Stretchable Conductors Based on Hierarchical Reticulate Single-Walled Carbon Nanotube Architecture. <i>Advanced Functional Materials</i> , 2012, 22, 5238-5244.	14.9	148