

Xiao Zhang

List of Publications by Year in descending order

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83
papers

12,376
citations

53794

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86
docs citations

86
times ranked

17941
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. <i>Chemical Reviews</i> , 2017, 117, 6225-6331.	47.7	3,940
2	High-Throughput Synthesis of Single-Layer MoS ₂ Nanosheets as a Near-Infrared Photothermal-Triggered Drug Delivery for Effective Cancer Therapy. <i>ACS Nano</i> , 2014, 8, 6922-6933.	14.6	813
3	Super-stretchable, Transparent Carbon Nanotube-Based Capacitive Strain Sensors for Human Motion Detection. <i>Scientific Reports</i> , 2013, 3, 3048.	3.3	573
4	Solution-Processed Two-Dimensional MoS ₂ Nanosheets: Preparation, Hybridization, and Applications. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8816-8838.	13.8	557
5	Up-Conversion Cell Imaging and pH-Induced Thermally Controlled Drug Release from NaYF ₄ :Yb ³⁺ /Er ³⁺ @Hydrogel Core-Shell Hybrid Microspheres. <i>ACS Nano</i> , 2012, 6, 3327-3338.	14.6	308
6	WS ₂ 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
7	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
8	Synthesis of BSA-Coated BiOI@Bi ₂ S ₃ Semiconductor Heterojunction Nanoparticles and Their Applications for Radio/Photodynamic/Photothermal Synergistic Therapy of Tumor. <i>Advanced Materials</i> , 2017, 29, 1704136.	21.0	257
9	Recent Advances in Upconversion Nanoparticles-Based Multifunctional Nanocomposites for Combined Cancer Therapy. <i>Advanced Materials</i> , 2015, 27, 7692-7712.	21.0	243
10	Smart MoS ₂ /Fe ₃ O ₄ Nanotheranostic for Magnetically Targeted Photothermal Therapy Guided by Magnetic Resonance/Photoacoustic Imaging. <i>Theranostics</i> , 2015, 5, 931-945.	10.0	234
11	An All-Organic Semiconductor C ₃ N ₄ /PDINH Heterostructure with Advanced Antibacterial Photocatalytic Therapy Activity. <i>Advanced Materials</i> , 2019, 31, e1901965.	21.0	215
12	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
13	Defect-Rich Adhesive Molybdenum Disulfide/rGO Vertical Heterostructures with Enhanced Nanozyme Activity for Smart Bacterial Killing Application. <i>Advanced Materials</i> , 2020, 32, e2005423.	21.0	207
14	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
15	Rapid Degradation and High Renal Clearance of Cu ₃ BiS ₃ Nanodots for Efficient Cancer Diagnosis and Photothermal Therapy <i>in Vivo</i> . <i>ACS Nano</i> , 2016, 10, 4587-4598.	14.6	173
16	TPGS-stabilized NaYbF ₄ :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
17	One-pot synthesis of PEGylated plasmonic MoO ₃ ·x hollow nanospheres for photoacoustic imaging guided chemo-photothermal combinational therapy of cancer. <i>Biomaterials</i> , 2016, 76, 11-24.	11.4	171
18	Poly(Vinylpyrrolidone)- and Selenocysteine-Modified Bi ₂ Se ₃ Nanoparticles Enhance Radiotherapy Efficacy in Tumors and Promote Radioprotection in Normal Tissues. <i>Advanced Materials</i> , 2017, 29, 1701268.	21.0	171

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19	Efficient Near Infrared Light Triggered Nitric Oxide Release Nanocomposites for Sensitizing Mild Photothermal Therapy. <i>Advanced Science</i> , 2019, 6, 1801122.	11.2	169
20	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
21	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
22	X-ray Controlled Generation of Peroxynitrite Based on Nanosized LiLuF ₄ :Ce ³⁺ Scintillators and their Applications for Radiosensitization. <i>Advanced Materials</i> , 2018, 30, e1804046.	21.0	138
23	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 & Interfaces</i> , 2018, 10, 4271-4284.	8.0	137
24	Peroxidase-like activity of MoS ₂ nanoflakes with different modifications and their application for H ₂ O ₂ and glucose detection. <i>Journal of Materials Chemistry B</i> , 2018, 6, 487-498.	5.8	130
25	Interfacial engineering to achieve an energy density of over 200 Wh kg ⁻¹ in sodium batteries. <i>Nature Energy</i> , 2022, 7, 511-519.	39.5	130
26	Vanadium Dioxide Cathodes for High-Rate Photo-Rechargeable Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100115.	19.5	127
27	Photo-rechargeable Zinc-Ion Capacitors using V ₂ O ₅ -Activated Carbon Electrodes. <i>ACS Energy Letters</i> , 2020, 5, 3132-3139.	17.4	106
28	Mesoporous NaYbF ₄ @NaGdF ₄ core-shell up-conversion nanoparticles for targeted drug delivery and multimodal imaging. <i>Biomaterials</i> , 2014, 35, 7666-7678.	11.4	94
29	Stimuli-Responsive Small-on-Large Nanoradiosensitizer for Enhanced Tumor Penetration and Radiotherapy Sensitization. <i>ACS Nano</i> , 2020, 14, 10001-10017.	14.6	93
30	Multifunctional Rb _x WO ₃ Nanorods for Simultaneous Combined Chemo-photothermal Therapy and Photoacoustic/CT Imaging. <i>Small</i> , 2014, 10, 4160-4170.	10.0	86
31	Multifunctional WS ₂ @Poly(ethylene imine) Nanoplatfoms for Imaging Guided Gene-Photothermal Synergistic Therapy of Cancer. <i>Advanced Healthcare Materials</i> , 2016, 5, 2776-2787.	7.6	86
32	A new near infrared photosensitizing nanoplatfom containing blue-emitting up-conversion nanoparticles and hypocrellin A for photodynamic therapy of cancer cells. <i>Nanoscale</i> , 2013, 5, 11910.	5.6	85
33	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
34	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
35	Full Solar Spectrum-Driven Antibacterial Therapy over Hierarchical Sn ₃ O ₄ /PDINH with Enhanced Photocatalytic Activity. <i>Small</i> , 2021, 17, e2102744.	10.0	64
36	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

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37	Graphdiyne nanoradioprotector with efficient free radical scavenging ability for mitigating radiation-induced gastrointestinal tract damage. <i>Biomaterials</i> , 2020, 244, 119940.	11.4	58
38	Nd ³⁺ sensitized dumbbell-like upconversion nanoparticles for photodynamic therapy application. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2776-2784.	5.8	57
39	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
40	Biaxially stretchable supercapacitors based on the buckled hybrid fiber electrode array. <i>Nanoscale</i> , 2015, 7, 12492-12497.	5.6	53
41	LÄ¶sungsprozessierte MoS ₂ Nanoplättchen: Herstellung, Hybridisierung und Anwendungen. <i>Angewandte Chemie</i> , 2016, 128, 8960-8984.	2.0	52
42	Epidermal Supercapacitor with High Performance. <i>Advanced Functional Materials</i> , 2016, 26, 8178-8184.	14.9	52
43	5,10,15,20-tetrakis (4-carboxylphenyl) porphyrin functionalized NiCo ₂ S ₄ yolk-shell nanospheres: Excellent peroxidase-like activity, catalytic mechanism and fast cascade colorimetric biosensor for cholesterol. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128850.	7.8	52
44	Sensitive Activatable Nanoprobes for Real-Time Ratiometric Magnetic Resonance Imaging of Reactive Oxygen Species and Ameliorating Inflammation In Vivo. <i>Advanced Materials</i> , 2022, 34, e2109004.	21.0	52
45	Highly stretchable pseudocapacitors based on buckled reticulate hybrid electrodes. <i>Nano Research</i> , 2014, 7, 1680-1690.	10.4	47
46	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
47	Platinum (IV) Pro-Drug Conjugated NaYF ₄ :Yb ³⁺ /Er ³⁺ Nanoparticles for Targeted Drug Delivery and Up-Conversion Cell Imaging. <i>Advanced Healthcare Materials</i> , 2013, 2, 562-567.	7.6	45
48	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
49	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
50	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
51	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
52	Recent Advances in Structure Separation of Single-Wall Carbon Nanotubes and Their Application in Optics, Electronics, and Optoelectronics. <i>Advanced Science</i> , 2022, 9, e2200054.	11.2	39
53	Role of Electric Field and Reactive Oxygen Species in Enhancing Antibacterial Activity: A Case Study of 3D Cu Foam Electrode with Branched Cu-ZnO NWs. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26454-26463.	3.1	37
54	A simple and efficient synthetic route for preparation of NaYF ₄ upconversion nanoparticles by thermo-decomposition of rare-earth oleates. <i>CrystEngComm</i> , 2014, 16, 5650-5661.	2.6	35

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55	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
56	Temperature dependent Raman spectra of isolated suspended single-walled carbon nanotubes. <i>Nanoscale</i> , 2014, 6, 3949-3953.	5.6	33
57	Investigation of Thermally Induced Cellular Ablation and Heat Response Triggered by Planar MoS ₂ -Based Nanocomposite. <i>Bioconjugate Chemistry</i> , 2017, 28, 1059-1067.	3.6	33
58	Synthesis of Surface-Modification-Oriented Nanosized Molybdenum Disulfide with High Peroxidase-Like Catalytic Activity for H ₂ O ₂ and Cholesterol Detection. <i>Chemistry - A European Journal</i> , 2018, 24, 15868-15878.	3.3	33
59	Bi ₂ S 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
60	Liquid-Phase Exfoliation and Functionalization of MoS ₂ Nanosheets for Effective Antibacterial Application. <i>ChemBioChem</i> , 2020, 21, 2373-2380.	2.6	31
61	Surface modification effect on photoluminescence of individual ZnO nanorods with different diameters. <i>Nanoscale</i> , 2013, 5, 4443.	5.6	30
62	High-precision solid catalysts for investigation of carbon nanotube synthesis and structure. <i>Science Advances</i> , 2020, 6, .	10.3	29
63	Angiotensin promotes breast cancer cell proliferation and invasion. <i>Oncology Reports</i> , 2015, 33, 1938-1946.	2.6	28
64	Template-Regulated Bimetallic Sulfide Nanozymes with High Specificity and Activity for Visual Colorimetric Detection of Cellular H ₂ O ₂ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53599-53609.	8.0	28
65	Recent advances in biomedical applications of 2D nanomaterials with peroxidase-like properties. <i>Advanced Drug Delivery Reviews</i> , 2022, 185, 114269.	13.7	27
66	Deciphering the Role of Fluoroethylene Carbonate towards Highly Reversible Sodium Metal Anodes. <i>Research</i> , 2022, 2022, 9754612.	5.7	23
67	One-Pot Template-Free Synthesis of NaYF ₄ Upconversion Hollow Nanospheres for Bioimaging and Drug Delivery. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1655-1662.	3.3	22
68	Localized domains staging structure and evolution in lithiated graphite. , 2023, 5, .		21
69	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
70	Rapid colorimetric sensing of ascorbic acid based on the excellent peroxidase-like activity of Pt deposited on ZnCo ₂ O ₄ spheres. <i>New Journal of Chemistry</i> , 2020, 44, 12002-12008.	2.8	18
71	Tumor-Tropic Adipose-Derived Mesenchymal Stromal Cell Mediated Bi ₂ Se ₃ Nano-Radiosensitizers Delivery for Targeted Radiotherapy of Non-Small Cell Lung Cancer. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200143.	7.6	18
72	Functional tumor imaging based on inorganic nanomaterials. <i>Science China Chemistry</i> , 2017, 60, 1425-1438.	8.2	17

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73	Ce-doped ZnCo ₂ O ₄ nanospheres: Synthesis, double enzyme-like performances, catalytic mechanism and fast colorimetric determination for glutathione. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 607, 125466.	4.7	16
74	Ethanol-assisted gel chromatography for single-chirality separation of carbon nanotubes. <i>Nanoscale</i> , 2015, 7, 16273-16281.	5.6	15
75	Protein-directed synthesis of Bi ₂ S ₃ nanoparticles as an efficient contrast agent for visualizing the gastrointestinal tract. <i>RSC Advances</i> , 2017, 7, 17505-17513.	3.6	15
76	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
77	An aldehyde dehydrogenase 1A3 inhibitor attenuates the metastasis of human colorectal cancer. <i>Cancer Letters</i> , 2022, 536, 215662.	7.2	11
78	Anti-VEGFR2-labeled enzyme-immobilized metal-organic frameworks for tumor vasculature targeted catalytic therapy. <i>Acta Biomaterialia</i> , 2022, 141, 364-373.	8.3	10
79	Substrate-induced effects on the optical properties of individual ZnO nanorods with different diameters. <i>Nanoscale</i> , 2014, 6, 483-491.	5.6	8
80	Quasi-one-dimensional diffuse laser cooling of atoms. <i>Physical Review A</i> , 2022, 105, .	2.5	8
81	Precise Catalyst Production for Carbon Nanotube Synthesis with Targeted Structure Enrichment. <i>Catalysts</i> , 2020, 10, 1087.	3.5	4
82	Photothermal Therapy: Multifunctional WS ₂ @Polyetherimide Nanoplatfoms 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
83	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