Xiao Zhang

List of Publications by Citations

311 papers	21,487 citations	74 h-index	139 g-index
325 ext. papers	25,624 ext. citations	9.7 avg, IF	7.23 L-index

#	Paper	IF	Citations
311	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. *Chemical Reviews*, **2017**, 117, 6225-6331	68.1	2919
310	High-throughput synthesis of single-layer MoS2 nanosheets as a near-infrared photothermal-triggered drug delivery for effective cancer therapy. *ACS Nano*, **2014**, 8, 6922-33	16.7	704
309	Ultrathin 2D Metal-Organic Framework Nanosheets. *Advanced Materials*, **2015**, 27, 7372-8	24	684
308	Black phosphorus quantum dots. *Angewandte Chemie - International Edition*, **2015**, 54, 3653-7	16.4	491
307	Synthesis of Two-Dimensional CoS1.097/Nitrogen-Doped Carbon Nanocomposites Using Metal-Organic Framework Nanosheets as Precursors for Supercapacitor Application. *Journal of the American Chemical Society*, **2016**, 138, 6924-7	16.4	485
306	Solution-Processed Two-Dimensional MoS2 Nanosheets: Preparation, Hybridization, and Applications. *Angewandte Chemie - International Edition*, **2016**, 55, 8816-38	16.4	447
305	Graphene quantum dots coated VO2 arrays for highly durable electrodes for Li and Na ion batteries. *Nano Letters*, **2015**, 15, 565-73	11.5	417
304	A High-Rate and Stable Quasi-Solid-State Zinc-Ion Battery with Novel 2D Layered Zinc Orthovanadate Array. *Advanced Materials*, **2018**, 30, e1803181	24	389
303	Solution-Processed Two-Dimensional Metal Dichalcogenide-Based Nanomaterials for Energy Storage and Conversion. *Advanced Materials*, **2016**, 28, 6167-96	24	372
302	All Metal Nitrides Solid-State Asymmetric Supercapacitors. *Advanced Materials*, **2015**, 27, 4566-71	24	313
301	Hybrid fibers made of molybdenum disulfide, reduced graphene oxide, and multi-walled carbon nanotubes for solid-state, flexible, asymmetric supercapacitors. *Angewandte Chemie - International Edition*, **2015**, 54, 4651-6	16.4	310
300	Three-Dimensional Architectures Constructed from Transition-Metal Dichalcogenide Nanomaterials for Electrochemical Energy Storage and Conversion. *Angewandte Chemie - International Edition*, **2018**, 57, 626-646	16.4	305
299	Growth of Au Nanoparticles on 2D Metalloporphyrinic Metal-Organic Framework Nanosheets Used as Biomimetic Catalysts for Cascade Reactions. *Advanced Materials*, **2017**, 29, 1700102	24	283
298	Single-layer transition metal dichalcogenide nanosheet-based nanosensors for rapid, sensitive, and multiplexed detection of DNA. *Advanced Materials*, **2015**, 27, 935-9	24	275
297	One-Pot Synthesis of Highly Anisotropic Five-Fold-Twinned PtCu Nanoframes Used as a Bifunctional Electrocatalyst for Oxygen Reduction and Methanol Oxidation. *Advanced Materials*, **2016**, 28, 8712-8717	24	275
296	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. *Advanced Materials*, **2018**, 30, e1705516	24	273
295	WS2 nanosheet as a new photosensitizer carrier for combined photodynamic and photothermal therapy of cancer cells. *Nanoscale*, **2014**, 6, 10394-403	7.7	254

294	Product selectivity in plasmonic photocatalysis for carbon dioxide hydrogenation. *Nature Communications*, **2017**, 8, 14542	17.4	247
293	Preparation of High-Percentage 1T-Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. *Advanced Materials*, **2018**, 30, 1705509	24	234
292	Novel structured transition metal dichalcogenide nanosheets. *Chemical Society Reviews*, **2018**, 47, 3301-3338	38.9	207
291	Recent Advances in Upconversion Nanoparticles-Based Multifunctional Nanocomposites for Combined Cancer Therapy. *Advanced Materials*, **2015**, 27, 7692-712	24	199
290	Phase engineering of nanomaterials. *Nature Reviews Chemistry*, **2020**, 4, 243-256	34.6	198
289	Smart MoS2/Fe3O4 Nanotheranostic for Magnetically Targeted Photothermal Therapy Guided by Magnetic Resonance/Photoacoustic Imaging. *Theranostics*, **2015**, 5, 931-45	12.1	196
288	Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. *Nano Energy*, **2016**, 30, 368-378	17.1	196
287	Conductive graphene fibers for wire-shaped supercapacitors strengthened by unfunctionalized few-walled carbon nanotubes. *ACS Nano*, **2015**, 9, 1352-9	16.7	172
286	Surface-Charge-Mediated Formation of H-TiO @Ni(OH) Heterostructures for High-Performance Supercapacitors. *Advanced Materials*, **2017**, 29, 1604164	24	169
285	Plasmon-Enhanced Catalysis: Distinguishing Thermal and Nonthermal Effects. *Nano Letters*, **2018**, 18, 1714-1723	11.5	165
284	Controllable Generation of Nitric Oxide by Near-Infrared-Sensitized Upconversion Nanoparticles for Tumor Therapy. *Advanced Functional Materials*, **2015**, 25, 3049-3056	15.6	161
283	Crystal phase-based epitaxial growth of hybrid noble metal nanostructures on 4H/fcc Au nanowires. *Nature Chemistry*, **2018**, 10, 456-461	17.6	160
282	Functionalized MoS Nanovehicle with Near-Infrared Laser-Mediated Nitric Oxide Release and Photothermal Activities for Advanced Bacteria-Infected Wound Therapy. *Small*, **2018**, 14, e1802290	11	158
281	TPGS-stabilized NaYbF4:Er upconversion nanoparticles for dual-modal fluorescent/CT imaging and anticancer drug delivery to overcome multi-drug resistance. *Biomaterials*, **2015**, 40, 107-16	15.6	157
280	A facile and universal top-down method for preparation of monodisperse transition-metal dichalcogenide nanodots. *Angewandte Chemie - International Edition*, **2015**, 54, 5425-8	16.4	156
279	Lithiation-induced amorphization of Pd3P2S8 for highly efficient hydrogen evolution. *Nature Catalysis*, **2018**, 1, 460-468	36.5	153
278	Molecular engineering of dispersed nickel phthalocyanines on carbon nanotubes for selective CO2 reduction. *Nature Energy*, **2020**, 5, 684-692	62.3	151
277	One-pot synthesis of PEGylated plasmonic MoO(3-x) hollow nanospheres for photoacoustic imaging guided chemo-photothermal combinational therapy of cancer. *Biomaterials*, **2016**, 76, 11-24	15.6	149

276	Rapid Degradation and High Renal Clearance of Cu3BiS3 Nanodots for Efficient Cancer Diagnosis and Photothermal Therapy in Vivo. *ACS Nano*, **2016**, 10, 4587-98	16.7	144
275	Coating two-dimensional nanomaterials with metal-organic frameworks. *ACS Nano*, **2014**, 8, 8695-701	16.7	141
274	Poly(Vinylpyrollidone)- and Selenocysteine-Modified Bi Se Nanoparticles Enhance Radiotherapy Efficacy in Tumors and Promote Radioprotection in Normal Tissues. *Advanced Materials*, **2017**, 29, 1701268	24	134
273	Two-dimensional transition metal dichalcogenide nanomaterials for biosensing applications. *Materials Chemistry Frontiers*, **2017**, 1, 24-36	7.8	130
272	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. *Science Advances*, **2017**, 3, e1603266	14.3	124
271	Biodistribution of functionalized multiwall carbon nanotubes in mice. *Nuclear Medicine and Biology*, **2007**, 34, 579-83	2.1	122
270	An All-Organic Semiconductor C N /PDINH Heterostructure with Advanced Antibacterial Photocatalytic Therapy Activity. *Advanced Materials*, **2019**, 31, e1901965	24	118
269	Oxygen-incorporated MoS2 ultrathin nanosheets grown on graphene for efficient electrochemical hydrogen evolution. *Journal of Power Sources*, **2015**, 291, 195-200	8.9	114
268	Biodegradable MoO nanoparticles with efficient near-infrared photothermal and photodynamic synergetic cancer therapy at the second biological window. *Nanoscale*, **2018**, 10, 1517-1531	7.7	108
267	Self-assembled chiral nanofibers from ultrathin low-dimensional nanomaterials. *Journal of the American Chemical Society*, **2015**, 137, 1565-71	16.4	105
266	Peroxidase-like activity of MoS nanoflakes with different modifications and their application for HO and glucose detection. *Journal of Materials Chemistry B*, **2018**, 6, 487-498	7.3	103
265	Efficient Near Infrared Light Triggered Nitric Oxide Release Nanocomposites for Sensitizing Mild Photothermal Therapy. *Advanced Science*, **2019**, 6, 1801122	13.6	102
264	Rhodium nanoparticles for ultraviolet plasmonics. *Nano Letters*, **2015**, 15, 1095-100	11.5	96
263	Intelligent MoS Nanotheranostic for Targeted and Enzyme-/pH-/NIR-Responsive Drug Delivery To Overcome Cancer Chemotherapy Resistance Guided by PET Imaging. *ACS Applied Materials & Interfaces*, **2018**, 10, 4271-4284	9.5	93
262	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. *ACS Nano*, **2016**, 10, 1378-85	16.7	93
261	Preparation of Single-Layer MoS(2x)Se2(1-x) and Mo(x)W(1-x)S2 Nanosheets with High-Concentration Metallic 1T Phase. *Small*, **2016**, 12, 1866-74	11	91
260	Self-branched □MnO2/□MnO2 heterojunction nanowires with enhanced pseudocapacitance. *Materials Horizons*, **2017**, 4, 415-422	14.4	89
259	Mussel-inspired one-pot synthesis of transition metal and nitrogen co-doped carbon (M/N-C) as efficient oxygen catalysts for Zn-air batteries. *Nanoscale*, **2016**, 8, 5067-75	7.7	89

258	Defect-Rich Adhesive Molybdenum Disulfide/rGO Vertical Heterostructures with Enhanced Nanozyme Activity for Smart Bacterial Killing Application. *Advanced Materials*, **2020**, 32, e2005423	24	89
257	In Situ Synthesis of Metal Sulfide Nanoparticles Based on 2D Metal-Organic Framework Nanosheets. *Small*, **2016**, 12, 4669-74	11	88
256	Ultralong life lithium-ion battery anode with superior high-rate capability and excellent cyclic stability from mesoporous Fe2O3@TiO2 core□shell nanorods. *Journal of Materials Chemistry A*, **2014**, 2, 3912	13	86
255	General synthesis of single-atom catalysts with high metal loading using graphene quantum dots. *Nature Chemistry*, **2021**, 13, 887-894	17.6	86
254	A general solid-state synthesis of chemically-doped fluorescent graphene quantum dots for bioimaging and optoelectronic applications. *Nanoscale*, **2015**, 7, 10162-9	7.7	85
253	Electroreduction of CO to Formate on a Copper-Based Electrocatalyst at High Pressures with High Energy Conversion Efficiency. *Journal of the American Chemical Society*, **2020**, 142, 7276-7282	16.4	84
252	Mesoporous NaYbF4@NaGdF4 core-shell up-conversion nanoparticles for targeted drug delivery and multimodal imaging. *Biomaterials*, **2014**, 35, 7666-78	15.6	84
251	Monodisperse SnO2 anchored reduced graphene oxide nanocomposites as negative electrode with high rate capability and long cyclability for lithium-ion batteries. *Journal of Power Sources*, **2014**, 262, 15-22	8.9	82
250	Iron Doped CuSn(OH)6 Microspheres as a Peroxidase-Mimicking Artificial Enzyme for H2O2 Colorimetric Detection. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14383-14393	8.3	82
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247	Fast Deployment of UAV Networks for Optimal Wireless Coverage. *IEEE Transactions on Mobile Computing*, **2019**, 18, 588-601	4.6	80
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245	Endocytosis of commensal antigens by intestinal epithelial cells regulates mucosal T cell homeostasis. *Science*, **2019**, 363,	33.3	78
244	X-Ray-Controlled Generation of Peroxynitrite Based on Nanosized LiLuF :Ce Scintillators and their Applications for Radiosensitization. *Advanced Materials*, **2018**, 30, e1804046	24	78
243	Liquid-phase growth of platinum nanoparticles on molybdenum trioxide nanosheets: an enhanced catalyst with intrinsic peroxidase-like catalytic activity. *Nanoscale*, **2014**, 6, 12340-4	7.7	76
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241	Magnetic and noncentrosymmetric Weyl fermion semimetals in the RAlGe family of compounds (R=rareearth). *Physical Review B*, **2018**, 97,	3.3	74

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237	Multifunctional Rbx WO3 nanorods for simultaneous combined chemo-photothermal therapy and photoacoustic/CT imaging. *Small*, **2014**, 10, 4160-70	11	74
236	Hierarchical fuzzy rule-based system optimized with genetic algorithms for short term traffic congestion prediction. *Transportation Research Part C: Emerging Technologies*, **2014**, 43, 127-142	8.4	72
235	A quasi-solid-state dye-sensitized solar cell based on the stable polymer-grafted nanoparticle composite electrolyte. *Journal of Power Sources*, **2006**, 160, 1451-1455	8.9	72
234	Confined Synthesis of 2D Nanostructured Materials toward Electrocatalysis. *Advanced Energy Materials*, **2020**, 10, 1900486	21.8	70
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231	Trends in home smoking bans in the U.S.A., 1995-2007: prevalence, discrepancies and disparities. *Tobacco Control*, **2012**, 21, 330-6	5.3	69
230	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. *Journal of Materials Chemistry B*, **2014**, 2, 1379-1389	7.3	68
229	Self-Assembly of Two-Dimensional Nanosheets into One-Dimensional Nanostructures. *CheM*, **2016**, 1, 59-77	16.2	67
228	A colorimetric sensor of H2O2 based on Co3O4montmorillonite nanocomposites with peroxidase activity. *New Journal of Chemistry*, **2018**, 42, 1501-1509	3.6	67
227	In Situ Growth of NiFe Alloy Nanoparticles Embedded into N-Doped Bamboo-like Carbon Nanotubes as a Bifunctional Electrocatalyst for Zn-Air Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 26178-26187	9.5	66
226	Large magnetoresistance over an extended temperature regime in monophosphides of tantalum and niobium. *Physical Review B*, **2015**, 92,	3.3	65
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221	A cyanine-modified upconversion nanoprobe for NIR-excited imaging of endogenous hydrogen peroxide signaling in vivo. *Biomaterials*, **2015**, 54, 34-43	15.6	60
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214	Synthesis of Palladium-Based Crystalline@Amorphous Core-Shell Nanoplates for Highly Efficient Ethanol Oxidation. *Advanced Materials*, **2020**, 32, e2000482	24	53
213	Molecular design of coumarin dyes with high efficiency in dye-sensitized solar cells. *Journal of Photochemistry and Photobiology A: Chemistry*, **2008**, 194, 167-172	4.7	53
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211	Highly Sensitive and Selective Aptamer-Based Fluorescence Detection of a Malarial Biomarker Using Single-Layer MoS2 Nanosheets. *ACS Sensors*, **2016**, 1, 1315-1321	9.2	52
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209	Preparation of Ultrathin Two-Dimensional Ti Ta S O Nanosheets as Highly Efficient Photothermal Agents. *Angewandte Chemie - International Edition*, **2017**, 56, 7842-7846	16.4	50
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203	Laser ablation of polymers: a review. *Polymer International*, **2019**, 68, 1391-1401	3.3	47
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201	Nd sensitized dumbbell-like upconversion nanoparticles for photodynamic therapy application. *Journal of Materials Chemistry B*, **2016**, 4, 2776-2784	7.3	46
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198	Revealing the hidden performance of metal phthalocyanines for CO2 reduction electrocatalysis by hybridization with carbon nanotubes. *Nano Research*, **2019**, 12, 2330-2334	10	42
197	Size-tunable rhodium nanostructures for wavelength-tunable ultraviolet plasmonics. *Nanoscale Horizons*, **2016**, 1, 75-80	10.8	41
196	Construction of sandwiched graphene paper@Fe3O4 nanorod array@graphene for large and fast lithium storage with an extended lifespan. *Journal of Materials Chemistry A*, **2015**, 3, 19384-19392	13	41
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194	Superconducting properties in single crystals of the topological nodal semimetal PbTaSe2. *Physical Review B*, **2016**, 93,	3.3	41
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192	CDC42 inhibition suppresses progression of incipient intestinal tumors. *Cancer Research*, **2014**, 74, 5480-92	12.1	39
191	Active Incremental Feature Selection Using a Fuzzy-Rough-Set-Based Information Entropy. *IEEE Transactions on Fuzzy Systems*, **2020**, 28, 901-915	8.3	39
190	Efficient bifunctional vanadium-doped Ni3S2 nanorod array for overall water splitting. *Inorganic Chemistry Frontiers*, **2019**, 6, 443-450	6.8	39
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177	Triangular Ag-Pd alloy nanoprisms: rational synthesis with high-efficiency for electrocatalytic oxygen reduction. *Nanoscale*, **2014**, 6, 11738-43	7.7	35
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166	Superconductivity in topologically nontrivial material Au2Pb. *Npj Quantum Materials*, **2016**, 1,	5	30
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164	Intramolecular Hydrogen Bonding-Based Topology Regulation of Two-Dimensional Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 13162-13169	16.4	29
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161	Synthesis of Surface-Modification-Oriented Nanosized Molybdenum Disulfide with High Peroxidase-Like Catalytic Activity for H O and Cholesterol Detection. *Chemistry - A European Journal* , **2018**, 24, 15868-15878	4.8	28
160	Translocation, biotransformation-related degradation, and toxicity assessment of polyvinylpyrrolidone-modified 2H-phase nano-MoS. *Nanoscale*, **2019**, 11, 4767-4780	7.7	28
159	Synthesis of MoX2 (X = Se or S) monolayers with high-concentration 1T? phase on 4H/fcc-Au nanorods for hydrogen evolution. *Nano Research*, **2019**, 12, 1301-1305	10	28
158	Vanadium doping over Ni3S2 nanosheet array for improved overall water splitting. *Applied Surface Science*, **2019**, 489, 815-823	6.7	27
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