

Xiao Zhang

List of Publications by Year in descending order

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322
papers

29,934
citations

5268

83
h-index

5539

163
g-index

325
all docs

325
docs citations

325
times ranked

34192
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	Ultrathin 2D Metal-Organic Framework Nanosheets. <i>Advanced Materials</i> , 2015, 27, 7372-7378.	21.0	943
3	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
4	Black Phosphorus Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3653-3657.	13.8	594
5	Synthesis of Two-Dimensional CoS _{1.097} /Nitrogen-Doped Carbon Nanocomposites Using Metal-Organic Framework Nanosheets as Precursors for Supercapacitor Application. <i>Journal of the American Chemical Society</i> , 2016, 138, 6924-6927.	13.7	591
6	A High-Rate and Stable Quasi-Solid-State Zinc-Ion Battery with Novel 2D Layered Zinc Orthovanadate Array. <i>Advanced Materials</i> , 2018, 30, e1803181.	21.0	571
7	Solution-Processed Two-Dimensional MoS ₂ Nanosheets: Preparation, Hybridization, and Applications. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8816-8838.	13.8	557
8	Graphene Quantum Dots Coated VO ₂ Arrays for Highly Durable Electrodes for Li and Na Ion Batteries. <i>Nano Letters</i> , 2015, 15, 565-573.	9.1	493
9	Solution-Processed Two-Dimensional Metal Dichalcogenide-Based Nanomaterials for Energy Storage and Conversion. <i>Advanced Materials</i> , 2016, 28, 6167-6196.	21.0	438
10	Phase engineering of nanomaterials. <i>Nature Reviews Chemistry</i> , 2020, 4, 243-256.	30.2	438
11	Three-Dimensional Architectures Constructed from Transition-Metal Dichalcogenide Nanomaterials for Electrochemical Energy Storage and Conversion. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 626-646.	13.8	398
12	Growth of Au Nanoparticles on 2D Metalloporphyrinic Metal-Organic Framework Nanosheets Used as Biomimetic Catalysts for Cascade Reactions. <i>Advanced Materials</i> , 2017, 29, 1700102.	21.0	384
13	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1705516.	21.0	375
14	All Metal Nitrides Solid-State Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2015, 27, 4566-4571.	21.0	371
15	Molecular engineering of dispersed nickel phthalocyanines on carbon nanotubes for selective CO ₂ reduction. <i>Nature Energy</i> , 2020, 5, 684-692.	39.5	365
16	General synthesis of single-atom catalysts with high metal loading using graphene quantum dots. <i>Nature Chemistry</i> , 2021, 13, 887-894.	13.6	362
17	Product selectivity in plasmonic photocatalysis for carbon dioxide hydrogenation. <i>Nature Communications</i> , 2017, 8, 14542.	12.8	348
18	Preparation of High-Percentage 1T-Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, 1705509.	21.0	341

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19	One-Pot Synthesis of Highly Anisotropic Five-Fold-Twinned PtCu Nanoframes Used as a Bifunctional Electrocatalyst for Oxygen Reduction and Methanol Oxidation. <i>Advanced Materials</i> , 2016, 28, 8712-8717.	21.0	336
20	Hybrid Fibers Made of Molybdenum Disulfide, Reduced Graphene Oxide, and Multi-Walled Carbon Nanotubes for Solid-State, Flexible, Asymmetric Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4651-4656.	13.8	334
21	Single-Layer Transition Metal Dichalcogenide Nanosheet-Based Nanosensors for Rapid, Sensitive, and Multiplexed Detection of DNA. <i>Advanced Materials</i> , 2015, 27, 935-939.	21.0	322
22	Novel structured transition metal dichalcogenide nanosheets. <i>Chemical Society Reviews</i> , 2018, 47, 3301-3338.	38.1	303
23	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
24	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
25	Plasmon-Enhanced Catalysis: Distinguishing Thermal and Nonthermal Effects. <i>Nano Letters</i> , 2018, 18, 1714-1723.	9.1	251
26	Lithiation-induced amorphization of Pd ₃ P ₂ S ₈ for highly efficient hydrogen evolution. <i>Nature Catalysis</i> , 2018, 1, 460-468.	34.4	247
27	Recent Advances in Upconversion Nanoparticles-Based Multifunctional Nanocomposites for Combined Cancer Therapy. <i>Advanced Materials</i> , 2015, 27, 7692-7712.	21.0	243
28	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
29	Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. <i>Nano Energy</i> , 2016, 30, 368-378.	16.0	229
30	Crystal phase-based epitaxial growth of hybrid noble metal nanostructures on 4H/fcc Au nanowires. <i>Nature Chemistry</i> , 2018, 10, 456-461.	13.6	220
31	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
32	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
33	Surface-Charge-Mediated Formation of H ₂ TiO ₂ @Ni(OH) ₂ Heterostructures for High-Performance Supercapacitors. <i>Advanced Materials</i> , 2017, 29, 1604164.	21.0	203
34	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
35	Conductive Graphene Fibers for Wire-Shaped Supercapacitors Strengthened by Unfunctionalized Few-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2015, 9, 1352-1359.	14.6	193
36	A Facile and Universal Top-Down Method for Preparation of Monodisperse Transition-Metal Dichalcogenide Nanodots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5425-5428.	13.8	185

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37	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. <i>Science Advances</i> , 2017, 3, e1603266.	10.3	176
38	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
39	Two-dimensional transition metal dichalcogenide nanomaterials for biosensing applications. <i>Materials Chemistry Frontiers</i> , 2017, 1, 24-36.	5.9	173
40	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
41	One-pot synthesis of PEGylated plasmonic MoO ₃ hollow nanospheres for photoacoustic imaging guided chemo-photothermal combinational therapy of cancer. <i>Biomaterials</i> , 2016, 76, 11-24.	11.4	171
42	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
43	Efficient Near Infrared Light Triggered Nitric Oxide Release Nanocomposites for Sensitizing Mild Photothermal Therapy. <i>Advanced Science</i> , 2019, 6, 1801122.	11.2	169
44	Coating Two-Dimensional Nanomaterials with Metal-Organic Frameworks. <i>ACS Nano</i> , 2014, 8, 8695-8701.	14.6	168
45	Electroreduction of CO ₂ to Formate on a Copper-Based Electrocatalyst at High Pressures with High Energy Conversion Efficiency. <i>Journal of the American Chemical Society</i> , 2020, 142, 7276-7282.	13.7	165
46	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
47	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
48	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
49	Fast Deployment of UAV Networks for Optimal Wireless Coverage. <i>IEEE Transactions on Mobile Computing</i> , 2019, 18, 588-601.	5.8	136
50	Magnetic and noncentrosymmetric Weyl fermion semimetals in the $R\bar{1}$		

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55	Preparation of Single-Layer MoS ₂ and MoSe ₂ Nanosheets with High-Concentration Metallic 1T Phase. <i>Small</i> , 2016, 12, 1866-1874.	10.0	126
56	Self-Assembled Chiral Nanofibers from Ultrathin Low-Dimensional Nanomaterials. <i>Journal of the American Chemical Society</i> , 2015, 137, 1565-1571.	13.7	123
57	Confined Synthesis of 2D Nanostructured Materials toward Electrocatalysis. <i>Advanced Energy Materials</i> , 2020, 10, 1900486.	19.5	123
58	A general solid-state synthesis of chemically-doped fluorescent graphene quantum dots for bioimaging and optoelectronic applications. <i>Nanoscale</i> , 2015, 7, 10162-10169.	5.6	121
59	Endocytosis of commensal antigens by intestinal epithelial cells regulates mucosal T cell homeostasis. <i>Science</i> , 2019, 363, .	12.6	121
60	Fabrication of Ultralong Hybrid Microfibers from Nanosheets of Reduced Graphene Oxide and Transition-Metal Dichalcogenides and their Application as Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12576-12580.	13.8	119
61	Rhodium Nanoparticles for Ultraviolet Plasmonics. <i>Nano Letters</i> , 2015, 15, 1095-1100.	9.1	119
62	Laser ablation of polymers: a review. <i>Polymer International</i> , 2019, 68, 1391-1401.	3.1	114
63	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. <i>ACS Nano</i> , 2016, 10, 1378-1385.	14.6	112
64	Phase-Selective Epitaxial Growth of Heterophase Nanostructures on Unconventional 2H-Pd Nanoparticles. <i>Journal of the American Chemical Society</i> , 2020, 142, 18971-18980.	13.7	111
65	Mussel-inspired one-pot synthesis of transition metal and nitrogen co-doped carbon (M/N-C) as efficient oxygen catalysts for Zn-air batteries. <i>Nanoscale</i> , 2016, 8, 5067-5075.	5.6	109
66	Selective and High Current CO ₂ Electro-Reduction to Multicarbon Products in Near-Neutral KCl Electrolytes. <i>Journal of the American Chemical Society</i> , 2021, 143, 3245-3255.	13.7	108
67	Self-branched MnO ₂ heterojunction nanowires with enhanced pseudocapacitance. <i>Materials Horizons</i> , 2017, 4, 415-422.	12.2	105
68	Iron Doped CuSn(OH) ₆ Microspheres as a Peroxidase-Mimicking Artificial Enzyme for H ₂ O ₂ Colorimetric Detection. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14383-14393.	6.7	103
69	In Situ Synthesis of Metal Sulfide Nanoparticles Based on 2D Metal-Organic Framework Nanosheets. <i>Small</i> , 2016, 12, 4669-4674.	10.0	101
70	Diet Diurnally Regulates Small Intestinal Microbiome-Epithelial-Immune Homeostasis and Enteritis. <i>Cell</i> , 2020, 182, 1441-1459.e21.	28.9	101
71	Boosting the lithium storage performance of MoS ₂ with graphene quantum dots. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4783-4789.	10.3	100
72	Selective Epitaxial Growth of Oriented Hierarchical Metal-Organic Framework Heterostructures. <i>Journal of the American Chemical Society</i> , 2020, 142, 8953-8961.	13.7	100

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73	Synthesis of Palladium-Based Crystalline@Amorphous Core-Shell Nanoplates for Highly Efficient Ethanol Oxidation. <i>Advanced Materials</i> , 2020, 32, e2000482.	21.0	98
74	Hierarchical fuzzy rule-based system optimized with genetic algorithms for short term traffic congestion prediction. <i>Transportation Research Part C: Emerging Technologies</i> , 2014, 43, 127-142.	7.6	97
75	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
76	In Situ Growth of NiFe Alloy Nanoparticles Embedded into N-Doped Bamboo-like Carbon Nanotubes as a Bifunctional Electrocatalyst for Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26178-26187.	8.0	94
77	FePt nanoparticles-decorated graphene oxide nanosheets as enhanced peroxidase mimics for sensitive response to H ₂ O ₂ . <i>Materials Science and Engineering C</i> , 2018, 90, 610-620.	7.3	93
78	Stimuli-Responsive Small-on-Large Nanoradiosensitizer for Enhanced Tumor Penetration and Radiotherapy Sensitization. <i>ACS Nano</i> , 2020, 14, 10001-10017.	14.6	93
79	Direct and continuous generation of pure acetic acid solutions via electrocatalytic carbon monoxide reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	93
80	Self-Assembly of Two-Dimensional Nanosheets into One-Dimensional Nanostructures. <i>Chem</i> , 2016, 1, 59-77.	11.7	92
81	Ultralong life lithium-ion battery anode with superior high-rate capability and excellent cyclic stability from mesoporous Fe ₂ O ₃ @TiO ₂ core-shell nanorods. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3912.	10.3	91
82	Liposomal Delivery of Mitoxantrone and a Cholesteryl Indoximod Prodrug Provides Effective Chemo-immunotherapy in Multiple Solid Tumors. <i>ACS Nano</i> , 2020, 14, 13343-13366.	14.6	91
83	MoS ₂ -graphene hybrid nanosheets constructed 3D architectures with improved electrochemical performance for lithium-ion batteries and hydrogen evolution. <i>Electrochimica Acta</i> , 2016, 189, 224-230.	5.2	89
84	Multifunctional Bi ₂ WO ₆ Nanorods for Simultaneous Combined Chemo-photothermal Therapy and Photoacoustic/CT Imaging. <i>Small</i> , 2014, 10, 4160-4170.	10.0	86
85	Co ₃ O ₄ @PPD Core-shell Nanoparticle-Based Composite as an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Small</i> , 2016, 12, 2580-2587.	10.0	86
86	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
87	Self-template synthesis of hierarchical CoMoS ₃ nanotubes constructed of ultrathin nanosheets for robust water electrolysis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11309-11315.	10.3	86
88	Light-Induced Thermal Gradients in Ruthenium Catalysts Significantly Enhance Ammonia Production. <i>Nano Letters</i> , 2019, 19, 1706-1711.	9.1	86
89	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
90	Active Incremental Feature Selection Using a Fuzzy-Rough-Set-Based Information Entropy. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 901-915.	9.8	85

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91	Insights into Practical-Scale Electrochemical H ₂ O ₂ Synthesis. Trends in Chemistry, 2020, 2, 942-953.	8.5	85
92	Intramolecular Hydrogen Bonding-Based Topology Regulation of Two-Dimensional Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 13162-13169.	13.7	85
93	Monodisperse SnO ₂ 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.	7.8	84
94	Lithium-Ion Intercalation Behavior of LiFePO ₄ in Aqueous and Nonaqueous Electrolyte Solutions. Journal of the Electrochemical Society, 2008, 155, A144.	2.9	83
95	Liquid-phase growth of platinum nanoparticles on molybdenum trioxide nanosheets: an enhanced catalyst with intrinsic peroxidase-like catalytic activity. Nanoscale, 2014, 6, 12340-12344.	5.6	82
96	In situ synthesis of SnO ₂ @Fe ₂ O ₃ @polyaniline and their conversion to SnO ₂ @Fe ₂ O ₃ @C composite as fully reversible anode material for lithium-ion batteries. Journal of Power Sources, 2014, 246, 862-867.	7.8	82
97	Thiazole derivative-modified upconversion nanoparticles for Hg ²⁺ detection in living cells. Nanoscale, 2016, 8, 276-282.	5.6	82
98	Electrochemical oxygen reduction to hydrogen peroxide at practical rates in strong acidic media. Nature Communications, 2022, 13, .	12.8	82
99	A problem-specific non-dominated sorting genetic algorithm for supervised feature selection. Information Sciences, 2021, 547, 841-859.	6.9	80
100	A colorimetric sensor of H ₂ O ₂ based on Co ₃ O ₄ @montmorillonite nanocomposites with peroxidase activity. New Journal of Chemistry, 2018, 42, 1501-1509.	2.8	79
101	Trends in home smoking bans in the USA, 1995-2007: prevalence, discrepancies and disparities. Tobacco Control, 2012, 21, 330-336.	3.2	78
102	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.	7.8	75
103	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.	5.8	75
104	A cyanine-modified upconversion nanoprobe for NIR-excited imaging of endogenous hydrogen peroxide signaling in vivo. Biomaterials, 2015, 54, 34-43.	11.4	75
105	Si Doped CoO Nanorods as Peroxidase Mimics for Colorimetric Sensing of Reduced Glutathione. ACS Sustainable Chemistry and Engineering, 2019, 7, 13989-13998.	6.7	75
106	Engineering a High-Energy-Density and Long Lifespan Aqueous Zinc Battery via Ammonium Vanadium Bronze. ACS Applied Materials & Interfaces, 2019, 11, 20796-20803.	8.0	75
107	Doping MoS ₂ with Graphene Quantum Dots: Structural and Electrical Engineering towards Enhanced Electrochemical Hydrogen Evolution. Electrochimica Acta, 2016, 211, 603-610.	5.2	72
108	Revealing the hidden performance of metal phthalocyanines for CO ₂ reduction electrocatalysis by hybridization with carbon nanotubes. Nano Research, 2019, 12, 2330-2334.	10.4	72

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109	Large magnetoresistance over an extended temperature regime in monophosphides of tantalum and niobium. <i>Physical Review B</i> , 2015, 92, .	3.2	71
110	Graphene-encapsulated cobalt sulfides nanocages with excellent anode performances for lithium ion batteries. <i>Electrochimica Acta</i> , 2015, 167, 32-38.	5.2	71
111	A three-mask process for fabricating vacuum-sealed capacitive micromachined ultrasonic transducers using anodic bonding. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 972-982.	3.0	68
112	AuAg Nanosheets Assembled from Ultrathin AuAg Nanowires. <i>Journal of the American Chemical Society</i> , 2015, 137, 1444-1447.	13.7	68
113	FeNi Cubic Cage@N-Doped Carbon Coupled with N-Doped Graphene toward Efficient Electrochemical Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8266-8273.	6.7	68
114	Genome-wide patterns of copy number variation in the Chinese yak genome. <i>BMC Genomics</i> , 2016, 17, 379.	2.8	66
115	Preparation of Cobalt Sulfide Nanoparticle-Decorated Nitrogen and Sulfur Co-Doped Reduced Graphene Oxide Aerogel Used as a Highly Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Small</i> , 2016, 12, 5920-5926.	10.0	65
116	Recent Progress in the Preparation, Assembly, Transformation, and Applications of Layered Structured Nanodisks beyond Graphene. <i>Advanced Materials</i> , 2017, 29, 1701704.	21.0	65
117	Synthesis of well-dispersed Fe ₃ O ₄ nanoparticles loaded on montmorillonite and sensitive colorimetric detection of H ₂ O ₂ based on its peroxidase-like activity. <i>New Journal of Chemistry</i> , 2018, 42, 9578-9587.	2.8	65
118	Synthesis of Pd ₃ Sn and PdCuSn Nanorods with <i>L1</i> ₂ Phase for Highly Efficient Electrocatalytic Ethanol Oxidation. <i>Advanced Materials</i> , 2022, 34, e2106115.	21.0	65
119	Highly Sensitive and Selective Aptamer-Based Fluorescence Detection of a Malarial Biomarker Using Single-Layer MoS ₂ Nanosheets. <i>ACS Sensors</i> , 2016, 1, 1315-1321.	7.8	64
120	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
121	Composition- and phase-controlled synthesis and applications of alloyed phase heterostructures of transition metal disulphides. <i>Nanoscale</i> , 2017, 9, 5102-5109.	5.6	63
122	Sol-gel synthesis of mesoporous Co ₃ O ₄ octahedra toward high-performance anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 129, 410-415.	5.2	62
123	Size-tunable rhodium nanostructures for wavelength-tunable ultraviolet plasmonics. <i>Nanoscale Horizons</i> , 2016, 1, 75-80.	8.0	62
124	CoFeP hollow cube as advanced electrocatalyst for water oxidation. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 604-611.	6.0	61
125	Molecular design of coumarin dyes with high efficiency in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 194, 167-172.	3.9	60
126	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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127	Preparation of Ultrathin Two-Dimensional Ti ₃ C ₂ Max Nanosheets as Highly Efficient Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7842-7846.	13.8	59
128	Highly active oxygen evolution integrated with efficient CO ₂ to CO electroreduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23915-23922.	7.1	58
129	Graphdiyne nanoradioprotector with efficient free radical scavenging ability for mitigating radiation-induced gastrointestinal tract damage. <i>Biomaterials</i> , 2020, 244, 119940.	11.4	58
130	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
131	Proton sponge promotion of electrochemical CO ₂ reduction to multi-carbon products. <i>Joule</i> , 2022, 6, 205-220.	24.0	57
132	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
133	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. <i>Nature Communications</i> , 2020, 11, 3356.	12.8	55
134	Efficient bifunctional vanadium-doped Ni ₃ S ₂ nanorod array for overall water splitting. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 443-450.	6.0	54
135	Strong Charge Transfer at 2H ϵ 1T Phase Boundary of MoS ₂ for Superb High-Performance Energy Storage. <i>Small</i> , 2019, 15, e1900131.	10.0	53
136	Superconducting properties in single crystals of the topological nodal semimetal PbTaSe. <i>Physical Review B</i> , 2016, 93, .	3.2	52
137	Superconductivity in topologically nontrivial material Au ₂ Pb. <i>Npj Quantum Materials</i> , 2016, 1, .	5.2	52
138	Comparative transcriptomic analysis revealed adaptation mechanism of <i>Phrynocephalus erythrurus</i> , the highest altitude Lizard living in the Qinghai-Tibet Plateau. <i>BMC Evolutionary Biology</i> , 2015, 15, 101.	3.2	50
139	Vanadium doping over Ni ₃ S ₂ nanosheet array for improved overall water splitting. <i>Applied Surface Science</i> , 2019, 489, 815-823.	6.1	50
140	Vanadium and nitrogen co-doped CoP nanoleaf array as pH-universal electrocatalyst for efficient hydrogen evolution. <i>Journal of Alloys and Compounds</i> , 2019, 791, 1070-1078.	5.5	50
141	Topochemical transformation of Co coordination polymers to Co ₃ O ₄ nanoplates for high-performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2251-2257.	10.3	49
142	Organic-Dye-Modified Upconversion Nanoparticle as a Multichannel Probe To Detect Cu ²⁺ in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1028-1032.	8.0	49
143	MoS ₂ nanosheets decorated Ni(OH) ₂ nanorod array for active overall water splitting. <i>Journal of Alloys and Compounds</i> , 2019, 796, 86-92.	5.5	49
144	CDC42 Inhibition Suppresses Progression of Incipient Intestinal Tumors. <i>Cancer Research</i> , 2014, 74, 5480-5492.	0.9	48

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145	One-dimensional mesoporous Fe ₂ O ₃ @TiO ₂ core-shell nanocomposites: Rational design, synthesis and application as high-performance photocatalyst in visible and UV light region. <i>Applied Surface Science</i> , 2014, 317, 43-48.	6.1	48
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