

# Yun Zhang

## List of Publications by Year in descending order

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82  
papers

10,685  
citations

87843

38  
h-index

56687

83  
g-index

85  
all docs

85  
docs citations

85  
times ranked

13739  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Optimization Enables over 13% Efficiency in Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 7148-7151.	6.6	2,524
2	Understanding the High Activity of Fe <sup>N</sup> -C Electrocatalysts in Oxygen Reduction: Fe/Fe <sub>3</sub> C Nanoparticles Boost the Activity of Fe <sup>N</sup> -C. <i>Journal of the American Chemical Society</i> , 2016, 138, 3570-3578.	6.6	1,549
3	Cascade anchoring strategy for general mass production of high-loading single-atomic metal-nitrogen catalysts. <i>Nature Communications</i> , 2019, 10, 1278.	5.8	591
4	Pomegranate-like N,P-Doped Mo <sub>2</sub> C@C Nanospheres as Highly Active Electrocatalysts for Alkaline Hydrogen Evolution. <i>ACS Nano</i> , 2016, 10, 8851-8860.	7.3	575
5	Self-Templated Fabrication of MoNi <sub>4</sub> /MoO <sub>3</sub> Nanorod Arrays with Dual Active Components for Highly Efficient Hydrogen Evolution. <i>Advanced Materials</i> , 2017, 29, 1703311.	11.1	437
6	MoS <sub>2</sub> /CdS Nanosheets-on-Nanorod Heterostructure for Highly Efficient Photocatalytic H <sub>2</sub> Generation under Visible Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15258-15266.	4.0	426
7	Synergistic Modulation of Non-Precious-Metal Electrocatalysts for Advanced Water Splitting. <i>Accounts of Chemical Research</i> , 2020, 53, 1111-1123.	7.6	315
8	Crystallinity-Modulated Electrocatalytic Activity of a Nickel(II) Borate Thin Layer on Ni <sub>3</sub> B for Efficient Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6572-6577.	7.2	271
9	New Wide Band Gap Donor for Efficient Fullerene-Free All-Small-Molecule Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 1958-1966.	6.6	260
10	Identification of FeN <sub>4</sub> as an Efficient Active Site for Electrochemical N <sub>2</sub> Reduction. <i>ACS Catalysis</i> , 2019, 9, 7311-7317.	5.5	220
11	Steering elementary steps towards efficient alkaline hydrogen evolution via size-dependent Ni/NiO nanoscale heterosurfaces. <i>National Science Review</i> , 2020, 7, 27-36.	4.6	192
12	Air-Stable In-Plane Anisotropic GeSe <sub>2</sub> for Highly Polarization-Sensitive Photodetection in Short Wave Region. <i>Journal of the American Chemical Society</i> , 2018, 140, 4150-4156.	6.6	180
13	Fluorination vs. chlorination: a case study on high performance organic photovoltaic materials. <i>Science China Chemistry</i> , 2018, 61, 1328-1337.	4.2	177
14	Environmentally Friendly Solvent-Processed Organic Solar Cells that are Highly Efficient and Adaptable for the Blade-Coating Method. <i>Advanced Materials</i> , 2018, 30, 1704837.	11.1	173
15	Modulating Molecular Orientation Enables Efficient Nonfullerene Small-Molecule Organic Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 2129-2134.	3.2	157
16	Scalable Solid-State Synthesis of Highly Dispersed Uncapped Metal (Rh, Ru, Ir) Nanoparticles for Efficient Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2018, 8, 1801698.	10.2	149
17	Molecular Evidence for Metallic Cobalt Boosting CO <sub>2</sub> Electroreduction on Pyridinic Nitrogen. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4914-4919.	7.2	126
18	Polarization-Sensitive Ultraviolet Photodetection of Anisotropic 2D GeS <sub>2</sub> . <i>Advanced Functional Materials</i> , 2019, 29, 1900411.	7.8	120

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19	Tumor Microenvironment Responsive Shape-Reversal Self-Targeting Virus-Inspired Nanodrug for Imaging-Guided Near-Infrared-II Photothermal Chemotherapy. <i>ACS Nano</i> , 2019, 13, 12912-12928.	7.3	118
20	Self-Limited on-Site Conversion of MoO <sub>3</sub> Nanodots into Vertically Aligned Ultrasmall Monolayer MoS <sub>2</sub> for Efficient Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2018, 8, 1800734.	10.2	112
21	Physical vapor deposition of amorphous MoS <sub>2</sub> nanosheet arrays on carbon cloth for highly reproducible large-area electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19277-19281.	5.2	97
22	Chiral Phosphoric Acid Catalyzed Asymmetric Ugi Reaction by Dynamic Kinetic Resolution of the Primary Multicomponent Adduct. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5282-5285.	7.2	95
23	Confining Iron Carbide Nanocrystals inside CN <sub>x</sub> @CNT toward an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11508-11515.	4.0	94
24	Improved Domain Size and Purity Enables Efficient All-Small-Molecule Ternary Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1703777.	11.1	94
25	Sodium chloride-assisted green synthesis of a 3D Fe-N-C hybrid as a highly active electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7781-7787.	5.2	88
26	Self-Catalyzed Growth of Co-N-C Nanobrushes for Efficient Rechargeable Zn-Air Batteries. <i>Small</i> , 2020, 16, e2001171.	5.2	84
27	Fe/P dual doping boosts the activity and durability of CoS <sub>2</sub> polycrystalline nanowires for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5195-5200.	5.2	78
28	Tumor microenvironment-activated self-recognizing nanodrug through directly tailored assembly of small-molecules for targeted synergistic chemotherapy. <i>Journal of Controlled Release</i> , 2020, 321, 222-235.	4.8	72
29	Phase-Controlled Synthesis of 1T-MoSe <sub>2</sub> /NiSe Heterostructure Nanowire Arrays via Electronic Injection for Synergistically Enhanced Hydrogen Evolution. <i>Small Methods</i> , 2019, 3, 1800317.	4.6	67
30	Chiral Phosphoric Acid Catalyzed Asymmetric Ugi Reaction by Dynamic Kinetic Resolution of the Primary Multicomponent Adduct. <i>Angewandte Chemie</i> , 2016, 128, 5368-5371.	1.6	65
31	Pore-structure-directed CO <sub>2</sub> electroreduction to formate on SnO <sub>2</sub> /C catalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18428-18433.	5.2	59
32	Engineering Mo/Mo <sub>2</sub> C/MoC hetero-interfaces for enhanced electrocatalytic nitrogen reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8920-8926.	5.2	54
33	Rapid and selective detection of <i>E. coli</i> O157:H7 combining phagomagnetic separation with enzymatic colorimetry. <i>Food Chemistry</i> , 2017, 234, 332-338.	4.2	53
34	Quantitative Surface-Enhanced Raman Spectroscopy through the Interface-Assisted Self-Assembly of Three-Dimensional Silver Nanorod Substrates. <i>Analytical Chemistry</i> , 2018, 90, 7275-7282.	3.2	52
35	Synthesis of Ag Nanorods with Highly Tunable Plasmonics toward Optimal Surface-Enhanced Raman Scattering Substrates Self-Assembled at Interfaces. <i>Advanced Optical Materials</i> , 2017, 5, 1700581.	3.6	50
36	Combining phagomagnetic separation with immunoassay for specific, fast and sensitive detection of <i>Staphylococcus aureus</i> . <i>Talanta</i> , 2017, 170, 291-297.	2.9	48

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37	Disguise as fluorescent powder: Ultraviolet-B persistent luminescence material without visible light for advanced information encryption and anti-counterfeiting applications. <i>Chemical Engineering Journal</i> , 2022, 430, 132884.	6.6	47
38	Polydopamine doped reduced graphene oxide/mesoporous silica nanosheets for chemo-photothermal and enhanced photothermal therapy. <i>Materials Science and Engineering C</i> , 2019, 96, 138-145.	3.8	46
39	Facile synthesis of multifunctional Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @Au magneto-plasmonic nanoparticles for MR/CT dual imaging and photothermal therapy. <i>RSC Advances</i> , 2017, 7, 18844-18850.	1.7	40
40	Localized Surface Plasmon Resonance Enhanced Singlet Oxygen Generation and Light Absorption Based on Black Phosphorus@AuNPs Nanosheet for Tumor Photodynamic/Thermal Therapy. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800010.	1.2	39
41	Wide-Range, Rapid, and Specific Identification of Pathogenic Bacteria by Surface-Enhanced Raman Spectroscopy. <i>ACS Sensors</i> , 2021, 6, 2911-2919.	4.0	39
42	In situ transformation of Cu <sub>2</sub> O@MnO <sub>2</sub> to Cu@Mn(OH) <sub>2</sub> nanosheet-on-nanowire arrays for efficient hydrogen evolution. <i>Nano Research</i> , 2018, 11, 1798-1809.	5.8	37
43	Chromium-Doped Zinc Gallate Near-Infrared Persistent Luminescence Nanoparticles in Autofluorescence-Free Biosensing and Bioimaging: A Review. <i>ACS Applied Nano Materials</i> , 2021, 4, 6497-6514.	2.4	37
44	Crystallinity-Modulated Electrocatalytic Activity of a Nickel(II) Borate Thin Layer on Ni <sub>3</sub> B for Efficient Water Oxidation. <i>Angewandte Chemie</i> , 2017, 129, 6672-6677.	1.6	34
45	Smart Manganese Dioxide-Based Lanthanide Nanoprobes for Triple-Negative Breast Cancer Precise Gene Synergistic Chemodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 35444-35455.	4.0	34
46	Environmentally-friendly solvent processed fullerene-free organic solar cells enabled by screening halogen-free solvent additives. <i>Science China Materials</i> , 2017, 60, 697-706.	3.5	33
47	Enhanced antibacterial activity of silver-decorated sandwich-like mesoporous silica/reduced graphene oxide nanosheets through photothermal effect. <i>Nanotechnology</i> , 2018, 29, 105704.	1.3	32
48	Thermo-responsive hydrogel-supported antibacterial material with persistent photocatalytic activity for continuous sterilization and wound healing. <i>Composites Part B: Engineering</i> , 2022, 229, 109459.	5.9	32
49	Molecular Evidence for Metallic Cobalt Boosting CO <sub>2</sub> Electroreduction on Pyridinic Nitrogen. <i>Angewandte Chemie</i> , 2020, 132, 4944-4949.	1.6	29
50	Vacuum-assisted annealing method for high efficiency printable large-area polymer solar cell modules. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3206-3211.	2.7	27
51	Tumor Microenvironment-Responsive Yolk-Shell NaCl@Virus-Inspired Tetrasulfide-Organosilica for Ion-Interference Therapy via Osmolarity Surge and Oxidative Stress Amplification. <i>ACS Nano</i> , 2022, 16, 7380-7397.	7.3	25
52	Influence of the replacement of alkoxy with alkylthienyl on photovoltaic properties of two small molecule donors for organic solar cells. <i>Science China Chemistry</i> , 2017, 60, 1340-1348.	4.2	23
53	Surface-enhanced Raman spectroscopy solution and solid substrates with built-in calibration for quantitative applications. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 659-667.	1.2	21
54	Sustained Antitumor Immunity Based on Persistent Luminescence Nanoparticles for Cancer Immunotherapy. <i>Advanced Functional Materials</i> , 2021, 31, 2106884.	7.8	21

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55	Cr <sup>3+</sup> /Y <sup>3+</sup> co-doped persistent luminescence nanoparticles with biological window activation for in vivo repeatable imaging. <i>Journal of Rare Earths</i> , 2022, 40, 1389-1398.	2.5	19
56	A novel Gd-based phosphor NaGdGeO <sub>4</sub> :Bi <sup>3+</sup> ,Li <sup>+</sup> with super-long ultraviolet-A persistent luminescence. <i>Journal of Rare Earths</i> , 2022, 40, 1424-1431.	2.5	19
57	One-pot synthesis of biodegradable polydopamine-doped mesoporous silica nanocomposites (PMSNs) as pH-sensitive targeting drug nanocarriers for synergistic chemo-photothermal therapy. <i>RSC Advances</i> , 2018, 8, 37433-37440.	1.7	18
58	PCDH18 is frequently inactivated by promoter methylation in colorectal cancer. <i>Scientific Reports</i> , 2017, 7, 2819.	1.6	17
59	Tin-Doped Near-Infrared Persistent Luminescence Nanoparticles with Considerable Improvement of Biological Window Activation for Deep Tumor Photodynamic Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 5995-6004.	2.3	15
60	An intelligent persistent luminescence nanoplatfom with high-efficiency O <sub>2</sub> utilization for continuous hypoxic tumors treatment. <i>Chemical Engineering Journal</i> , 2022, 442, 135638.	6.6	15
61	Folic acid-conjugated gold nanorod@polypyrrole@Fe <sub>3</sub> O <sub>4</sub> nanocomposites for targeted MR/CT/PA multimodal imaging and chemo-photothermal therapy. <i>RSC Advances</i> , 2019, 9, 18874-18887.	1.7	13
62	Optimizing the SERS Performance of 3D Substrates through Tunable 3D Plasmonic Coupling toward Label-Free Liver Cancer Cell Classification. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 28965-28974.	4.0	13
63	Closing the Deep-Blue Gap: Realizing Narrow-Band Deep-Blue Emission with Strong n-UV Excitation by Cationic Substitution for Full-Spectrum Warm W-LED Lighting. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6190-6195.	3.2	13
64	Facile Synthesis of Mo <sub>2</sub> C Nanocrystals Embedded in Nanoporous Carbon Network for Efficient Hydrogen Evolution. <i>Chinese Journal of Chemistry</i> , 2017, 35, 911-917.	2.6	12
65	Precise Characterization of Performance Metrics of Organic Solar Cells. <i>Small Methods</i> , 2017, 1, 1700159.	4.6	11
66	Self-assembled vertically aligned silver nanorod arrays prepared by evaporation-induced method as high-performance SERS substrates. <i>Journal of Materials Science</i> , 2020, 55, 14019-14030.	1.7	11
67	A novel self-activated ultraviolet persistent luminescence material and its anti-counterfeiting application based on intensity and time resolution from persistent luminescence. <i>Journal of Rare Earths</i> , 2022, 40, 1417-1423.	2.5	11
68	High-level information encryption based on optical nanomaterials with multi-mode luminescence and dual-mode reading. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 4433-4441.	3.0	11
69	Polydopamine-doped virus-like structured nanoparticles for photoacoustic imaging guided synergistic chemo-/photothermal therapy. <i>RSC Advances</i> , 2020, 10, 18016-18024.	1.7	10
70	Self-supported metal sulphide nanocrystals-assembled nanosheets on carbon paper as efficient counter electrodes for quantum-dot-sensitized solar cells. <i>Science China Chemistry</i> , 2018, 61, 1338-1344.	4.2	7
71	Ag Nanorods for Label-Free Surface-Enhanced Raman Scattering Analysis of Cancer Cells from Cell Lysates. <i>ACS Applied Nano Materials</i> , 2022, 5, 269-276.	2.4	7
72	Fabrication optimization and application of 3D hybrid SERS substrates. <i>RSC Advances</i> , 2021, 11, 31400-31407.	1.7	6

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73	A novel Li <sup>+</sup> -doped MgLuGaO <sub>4</sub> phosphor with stable white-light emission and long persistent luminescence. <i>Journal of Rare Earths</i> , 2022, 40, 1432-1436.	2.5	6
74	Enhanced neuroprotection and improved motor function in traumatized rat spinal cords by rAAV2-mediated glial-derived neurotrophic factor combined with early rehabilitation training. <i>Chinese Medical Journal</i> , 2014, 127, 4220-5.	0.9	4
75	Highly Sensitive Electrochemical Detection of Folic Acid by Using a Hollow Carbon Nanospheres@molybdenum Disulfide Modified Electrode. <i>Analytical Sciences</i> , 2021, 37, 575-580.	0.8	3
76	High Uniformity and Enhancement Au@AgNS 3D Substrates for the Diagnosis of Breast Cancer. <i>ACS Omega</i> , 2022, 7, 15223-15230.	1.6	2
77	Short wavelength persistent luminescence in the ultraviolet A region from a novel phosphor. <i>Journal of Luminescence</i> , 2022, 251, 119103.	1.5	2
78	Hydrogen Evolution: Self-Limited on-Site Conversion of MoO <sub>3</sub> Nanodots into Vertically Aligned Ultrasmall Monolayer MoS <sub>2</sub> for Efficient Hydrogen Evolution ( <i>Adv. Energy Mater.</i> 21/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870098.	10.2	1
79	A bifunctional DNA probe for sensing pH and microRNA using a nanopore. <i>Analyst</i> , The, 2020, 145, 7025-7029.	1.7	1
80	Enantioselective resolution of (R,S)-1-phenylethyl acetate using the immobilized extracellular proteases from deep-sea <i>Bacillus</i> sp. DL-1. <i>Biocatalysis and Biotransformation</i> , 0, , 1-17.	1.1	1
81	Evidence of Translocation of Oral Zn <sup>2+</sup> Doped Magnetite Nanoparticles Across the Small Intestinal Wall of Mice and Deposition in Spleen: Unique Advantage in Biomedical Applications. <i>ACS Applied Bio Materials</i> , 2020, 3, 7919-7929.	2.3	1
82	Over 13% Efficiency in Blade-coated Organic Solar Cells. , 0, , .		0