## Xin-yi Zhang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Rational Electrode–Electrolyte Design for Long-Life Rechargeable Aqueous Zinc-Ion Batteries. Journal of Physical Chemistry C, 2022, 126, 1264-1270.	1.5	8
2	Unveiling the synergistic effect of cobalt ion in nickel-cobalt layered double hydroxide for electrochemical energy storage: Experimental and computational approaches. Electrochimica Acta, 2022, 423, 140547.	2.6	3
3	A bifunctional catalyst based on a carbon quantum dots/mesoporous SrTiO <sub>3</sub> heterostructure for cascade photoelectrochemical nitrogen reduction. Journal of Materials Chemistry A, 2022, 10, 12713-12721.	5.2	8
4	Electrocatalytic reduction of nitrogen on FeAg/Si for ammonia synthesis: A simple strategy for continuous regulation of faradaic efficiency by controlling H+ ions transfer rate. Applied Catalysis B: Environmental, 2021, 283, 119606.	10.8	21
5	Ultrathin Co3O4–Pt core-shell nanoparticles coupled with three-dimensional graphene for oxygen reduction reaction. International Journal of Hydrogen Energy, 2021, 46, 10303-10311.	3.8	11
6	Largeâ€scale Synthesis of Porous Pt Nanospheres /Threeâ€dimensional Graphene Hybrid Materials as a Highly Active and Stable Electrocatalyst for Oxygen Reduction Reaction. ChemistrySelect, 2021, 6, 2080-2084.	0.7	1
7	Advanced Aqueous Zincâ€lon Batteries Enabled by 3D Ternary MnO/Reduced Graphene Oxide/Multiwall Carbon Nanotube Hybrids. Energy Technology, 2021, 9, 2100022.	1.8	11
8	High-capacity and high-rate Ni-Fe batteries based on mesostructured quaternary carbon/Fe/FeO/Fe3O4 hybrid material. IScience, 2021, 24, 102547.	1.9	15
9	A facile strategy synthesized PtRhNi truncated triangle nanoflakes with PtRh-rich surface as highly active and stable bifunctional catalysts for direct methanol fuel cells. Journal of Colloid and Interface Science, 2021, 604, 894-902.	5.0	10
10	High-efficient CO2 electrocatalysis over nanoporous Au film enabled by a combined pore engineering and ionic liquid-mediated approach. Chemical Engineering Journal, 2021, 425, 131663.	6.6	8
11	The twinned Pd nanocatalyst exhibits sustainable NRR electrocatalytic performance by promoting the desorption of NH <sub>3</sub> . Journal of Materials Chemistry A, 2021, 9, 13483-13489.	5.2	48
12	Synthesis of Niâ~'MoS <sub>x</sub> /g <sub>3</sub> N <sub>4</sub> for Photocatalytic Hydrogen Evolution under Visible Light. ChemCatChem, 2020, 12, 911-916.	1.8	18
13	Solid-state synthesis semiconducting BaTiO3 nanoparticles at low temperature. Materials Chemistry and Physics, 2020, 242, 122496.	2.0	7
14	Boosting the photocatalytic activity of mesoporous SrTiO <sub>3</sub> for nitrogen fixation through multiple defects and strain engineering. Journal of Materials Chemistry A, 2020, 8, 22251-22256.	5.2	28
15	Rational Design and in-situ Synthesis of Ultra-Thin β-Ni(OH)2 Nanoplates for High Performance All-Solid-State Flexible Supercapacitors. Frontiers in Chemistry, 2020, 8, 602322.	1.8	14
16	Ultrathin PtCo nanorod assemblies with self-optimized surface for oxygen reduction reaction. Journal of Electroanalytical Chemistry, 2020, 870, 114194.	1.9	19
17	Electrocatalytic production of ammonia: Biomimetic electrode–electrolyte design for efficient electrocatalytic nitrogen fixation under ambient conditions. Applied Catalysis B: Environmental, 2020, 271, 118919.	10.8	55
18	Highly Efficient Photoelectrochemical Synthesis of Ammonia Using Plasmon-Enhanced Black Silicon under Ambient Conditions, ACS Applied Materials & Amp: Interfaces, 2020, 12, 20376-20382	4.0	34

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19	High Nitrogen Gas Solubility and Physicochemical Properties of [C <sub>4</sub> mpyr][eFAP]–Fluorinated Solvent Mixtures. Journal of Physical Chemistry C, 2019, 123, 21376-21385.	1.5	23
20	MoS <i><sub>x</sub></i> Quantum Dot-Modified Black Silicon for Highly Efficient Photoelectrochemical Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2019, 7, 17598-17605.	3.2	17
21	Enhanced Visible-Light Photocatalytic Remediation of Tetracycline Hydrochloride by Nanostructured BiOl Homojunctions. Nano, 2019, 14, 1950112.	0.5	6
22	An amorphous MoSx modified g-C3N4 composite for efficient photocatalytic hydrogen evolution under visible light. RSC Advances, 2019, 9, 15900-15909.	1.7	20
23	Influence of Structural Parameters on the Surface Enhanced Raman Scattering of Au Nanoarrays. Journal of Nanoscience and Nanotechnology, 2019, 19, 5317-5322.	0.9	4
24	SBA-15 Templated Mesoporous Graphitic C <sub>3</sub> N <sub>4</sub> for Remarkably Enhanced Photocatalytic Degradation of Organic Pollutants under Visible Light. Nano, 2019, 14, 1950136.	0.5	8
25	Enhanced Visible-Light Photocatalytic Degradation of Antibiotics by MoS <sub>2</sub> -Modified U-g-C <sub>3</sub> N <sub>4</sub> /T-g-C <sub>3</sub> N <sub>4</sub> Isotypic Heterojunction. Nano, 2019, 14, 1950111.	0.5	4
26	In Situ Synthesis of Core–Shell-Ni <sub>3</sub> Fe(OH) <sub>9</sub> /Ni <sub>3</sub> Fe Hybrid Nanostructures as Highly Active and Stable Bifunctional Catalysts for Water Electrolysis. ACS Applied Energy Materials, 2018, 1, 986-992.	2.5	15
27	Rational Electrode–Electrolyte Design for Efficient Ammonia Electrosynthesis under Ambient Conditions. ACS Energy Letters, 2018, 3, 1219-1224.	8.8	204
28	MOF-74 derived porous hybrid metal oxide hollow nanowires for high-performance electrochemical energy storage. Journal of Materials Chemistry A, 2018, 6, 8396-8404.	5.2	101
29	g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> isotype heterojunction as an efficient platform for direct photodegradation of antibiotic. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 210-217.	1.0	32
30	NiS and MoS2 nanosheet co-modified graphitic C3N4 ternary heterostructure for high efficient visible light photodegradation of antibiotic. Journal of Hazardous Materials, 2018, 341, 10-19.	6.5	179
31	CeO <sub>2â^'x</sub> /C/rGO nanocomposites derived from Ce-MOF and graphene oxide as a robust platform for highly sensitive uric acid detection. Nanoscale, 2018, 10, 1939-1945.	2.8	88
32	Ultrathin porous Bi <sub>5</sub> O <sub>7</sub> X (X = Cl, Br, I) nanotubes for effective solar desalination. Journal of Materials Chemistry A, 2018, 6, 20037-20043.	5.2	24
33	Transformation of cellulosic saccharides into alkyl glucosides catalyzed by bifunctional ionic liquids. Chemical Communications, 2018, 54, 11969-11972.	2.2	2
34	Synthesis and Physicochemical Properties of Fluorinated Ionic Liquids with High Nitrogen Gas Solubility. Journal of Physical Chemistry C, 2018, 122, 24550-24558.	1.5	60
35	Hierarchically Ordered Nanochannel Array Membrane Reactor with Three-Dimensional Electrocatalytic Interfaces for Electrohydrogenation of CO <sub>2</sub> to Alcohol. ACS Energy Letters, 2018, 3, 2649-2655.	8.8	11
36	Energy-Efficient Nitrogen Reduction to Ammonia at Low Overpotential in Aqueous Electrolyte under Ambient Conditions. ChemSusChem, 2018, 11, 3356-3356.	3.6	0

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37	Dual-MnCo2O4/Ni electrode with three-level hierarchy for high-performance electrochemical energy storage. Electrochimica Acta, 2018, 280, 55-61.	2.6	13
38	Photoelectrochemical Characterisation on Surfaceâ€Inverted Black Silicon Photocathodes by Using Platinum/Palladium Coâ€catalysts for Solarâ€toâ€Hydrogen Conversion. ChemPlusChem, 2018, 83, 651-657.	1.3	7
39	Novel Periodic Bilayer Au Nanostructures for Ultrasensitive Surfaceâ€Enhanced Raman Spectroscopy. Advanced Materials Interfaces, 2018, 5, 1800820.	1.9	7
40	Energy‣fficient Nitrogen Reduction to Ammonia at Low Overpotential in Aqueous Electrolyte under Ambient Conditions. ChemSusChem, 2018, 11, 3416-3422.	3.6	140
41	MnO <sub>2</sub> /MnCo <sub>2</sub> O <sub>4</sub> /Ni heterostructure with quadruple hierarchy: a bifunctional electrode architecture for overall urea oxidation. Journal of Materials Chemistry A, 2017, 5, 7825-7832.	5.2	152
42	Surfactantâ€Free Synthesis of Graphene‣upported PdCu Nanocrystals with High Alloying Degree as Highly Active Catalyst for Formic Acid Electrooxidation. Advanced Materials Interfaces, 2017, 4, 1700227.	1.9	17
43	Controllable fabrication of heterostructured Au/Bi <sub>2</sub> O <sub>3</sub> with plasmon effect for efficient photodegradation of rhodamine 6G. Journal of Experimental Nanoscience, 2017, 12, 33-44.	1.3	8
44	Ultrasensitive surface-enhanced Raman scattering detection of urea by highly ordered Au/Cu hybrid nanostructure arrays. Chemical Communications, 2017, 53, 7949-7952.	2.2	30
45	Metal–polydopamine frameworks and their transformation to hollow metal/N-doped carbon particles. Nanoscale, 2017, 9, 5323-5328.	2.8	140
46	Metal-Free Black Silicon for Solar-powered Hydrogen Generation. Electrochimica Acta, 2017, 235, 453-462.	2.6	12
47	Nanostructured Gold/Bismutite Hybrid Heterocatalysts for Plasmon-Enhanced Photosynthesis of Ammonia. ACS Sustainable Chemistry and Engineering, 2017, 5, 10858-10863.	3.2	77
48	Electro-synthesis of ammonia from nitrogen at ambient temperature and pressure in ionic liquids. Energy and Environmental Science, 2017, 10, 2516-2520.	15.6	497
49	Highly Ordered Ag/Cu Hybrid Nanostructure Arrays for Ultrasensitive Surfaceâ€Enhanced Raman Spectroscopy. Advanced Materials Interfaces, 2016, 3, 1600115.	1.9	22
50	Measure and control: molecular management is a key to the Sustainocene!. Green Chemistry, 2016, 18, 5689-5692.	4.6	7
51	Highly Ordered Hierarchical Mesoporous MnCo <sub>2</sub> O <sub>4</sub> with Cubic <i>I</i> 1±3 <i>d</i> Symmetry for Electrochemical Energy Storage. Journal of Physical Chemistry C, 2016, 120, 23976-23983.	1.5	34
52	Nanostructured photoelectrochemical solar cell for nitrogen reduction using plasmon-enhanced black silicon. Nature Communications, 2016, 7, 11335.	5.8	294
53	Synthesis of Nitrogenâ€Doped Porous Carbon Nanocubes as a Catalyst Support for Methanol Oxidation. ChemCatChem, 2016, 8, 1901-1904.	1.8	17
54	Synthesis of porous NiO/CeO <sub>2</sub> hybrid nanoflake arrays as a platform for electrochemical biosensing. Nanoscale, 2016, 8, 770-774.	2.8	41

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55	Sulfated Carbon Quantum Dots as Efficient Visibleâ€Light Switchable Acid Catalysts for Roomâ€Temperature Ringâ€Opening Reactions. Angewandte Chemie - International Edition, 2015, 54, 8420-8424.	7.2	68
56	Quantum Dots: Carbon Quantum Dots/Cu <sub>2</sub> O Heterostructures for Solarâ€Lightâ€Driven Conversion of CO <sub>2</sub> to Methanol (Adv. Energy Mater. 5/2015). Advanced Energy Materials, 2015, 5, .	10.2	21
57	Hierarchical Porous Plasmonic Metamaterials for Reproducible Ultrasensitive Surfaceâ€Enhanced Raman Spectroscopy. Advanced Materials, 2015, 27, 1090-1096.	11.1	193
58	Electrochemical Biosensor based on Pt/Au Alloy Nanowire Arrays for Phosphate Detection. Journal of the Electrochemical Society, 2015, 162, B62-B67.	1.3	34
59	A graphene-directed assembly route to hierarchically porous Co–N <sub>x</sub> /C catalysts for high-performance oxygen reduction. Journal of Materials Chemistry A, 2015, 3, 16867-16873.	5.2	151
60	Controllable synthesis of mesoporous carbon nanospheres and Fe–N/carbon nanospheres as efficient oxygen reduction electrocatalysts. Nanoscale, 2015, 7, 6247-6254.	2.8	104
61	Nanofabrication of highly ordered, tunable metallic mesostructures via quasi-hard-templating of lyotropic liquid crystals. Scientific Reports, 2015, 4, 7420.	1.6	10
62	A facile synthesis of mesoporous Co <sub>3</sub> O <sub>4</sub> /CeO <sub>2</sub> hybrid nanowire arrays for high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 10425-10431.	5.2	108
63	Carbon Quantum Dots/Cu <sub>2</sub> O Heterostructures for Solarâ€Lightâ€Driven Conversion of CO <sub>2</sub> to Methanol. Advanced Energy Materials, 2015, 5, 1401077.	10.2	163
64	Self-assembled highly crystalline TiO2 mesostructures for sunlight-driven, pH-responsive photodegradation of dyes. Materials Research Bulletin, 2014, 55, 13-18.	2.7	15
65	Controlled morphogenesis and self-assembly of bismutite nanocrystals into three-dimensional nanostructures and their applications. Journal of Materials Chemistry A, 2014, 2, 2275-2282.	5.2	14
66	UV/ozone-assisted low temperature preparation of mesoporous TiO <sub>2</sub> with tunable phase composition and enhanced solar light photocatalytic activity. Journal of Materials Chemistry A, 2014, 2, 18791-18795.	5.2	11
67	In situ growth of Co <sub>3</sub> O <sub>4</sub> nanoparticles on α-MnO <sub>2</sub> nanotubes: a new hybrid for high-performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 8465-8471.	5.2	44