

Yu Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

14,529
citations

44
h-index

98
g-index

98
ext. papers

16,898
ext. citations

12.2
avg, IF

7.1
L-index

#	Paper	IF	Citations
95	Noble metal-free hydrogen evolution catalysts for water splitting. <i>Chemical Society Reviews</i> , 2015 , 44, 5148-80	58.5	3702
94	Intrinsic peroxidase-like activity of ferromagnetic nanoparticles. <i>Nature Nanotechnology</i> , 2007 , 2, 577-83	28.7	3616
93	Electrochemical Reduction of N under Ambient Conditions for Artificial N Fixation and Renewable Energy Storage Using N /NH Cycle. <i>Advanced Materials</i> , 2017 , 29, 1604799	24	762
92	Protective Coating of Superparamagnetic Iron Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2003 , 15, 1617-1627	9.6	414
91	Controllable growth and transfer of monolayer MoS ₂ on Au foils and its potential application in hydrogen evolution reaction. <i>ACS Nano</i> , 2014 , 8, 10196-204	16.7	351
90	Ultrafast Formation of Amorphous Bimetallic Hydroxide Films on 3D Conductive Sulfide Nanoarrays for Large-Current-Density Oxygen Evolution Electrocatalysis. <i>Advanced Materials</i> , 2017 , 29, 1700404	24	327
89	Homogeneous CoO on Graphene for Binder-Free and Ultralong-Life Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2013 , 23, 4345-4353	15.6	313
88	Multi-shelled metal oxides prepared via an anion-adsorption mechanism for lithium-ion batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	304
87	Coupling Sub-Nanometric Copper Clusters with Quasi-Amorphous Cobalt Sulfide Yields Efficient and Robust Electrocatalysts for Water Splitting Reaction. <i>Advanced Materials</i> , 2017 , 29, 1606200	24	290
86	Pt@CeO ₂ multicore@shell self-assembled nanospheres: clean synthesis, structure optimization, and catalytic applications. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15864-72	16.4	288
85	Corrosion engineering towards efficient oxygen evolution electrodes with stable catalytic activity for over 6000 hours. <i>Nature Communications</i> , 2018 , 9, 2609	17.4	244
84	Prevention of dendrite growth and volume expansion to give high-performance aprotic bimetallic Li-Na alloy-O batteries. <i>Nature Chemistry</i> , 2019 , 11, 64-70	17.6	198
83	Cathode Surface-Induced, Solvation-Mediated, Micrometer-Sized Li O Cycling for Li-O Batteries. <i>Advanced Materials</i> , 2016 , 28, 9620-9628	24	192
82	Surfactant-Free Aqueous Synthesis of Pure Single-Crystalline SnSe Nanosheet Clusters as Anode for High Energy- and Power-Density Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1602469	24	192
81	Rhodium-Bickel nanoparticles grown on graphene as highly efficient catalyst for complete decomposition of hydrous hydrazine at room temperature for chemical hydrogen storage. <i>Energy and Environmental Science</i> , 2012 , 5, 6885	35.4	187
80	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9464-9469	16.4	178
79	In Situ Generation of Bifunctional, Efficient Fe-Based Catalysts from Mackinawite Iron Sulfide for Water Splitting. <i>Chem</i> , 2018 , 4, 1139-1152	16.2	175

78	Dendritic, transferable, strictly monolayer MoS ₂ flakes synthesized on SrTiO ₃ single crystals for efficient electrocatalytic applications. <i>ACS Nano</i> , 2014 , 8, 8617-24	16.7	140
77	Flexible Electrodes for Sodium-Ion Batteries: Recent Progress and Perspectives. <i>Advanced Materials</i> , 2017 , 29, 1703012	24	126
76	A Flexible and Wearable Lithium-Oxygen Battery with Record Energy Density achieved by the Interlaced Architecture inspired by Bamboo Slips. <i>Advanced Materials</i> , 2016 , 28, 8413-8418	24	114
75	Formation of Septuple-Shelled (Co Mn) ₂ (Co Mn) ₂ O Hollow Spheres as Electrode Material for Alkaline Rechargeable Battery. <i>Advanced Materials</i> , 2017 , 29, 1700550	24	108
74	Alkali Metal Anodes for Rechargeable Batteries. <i>Chem</i> , 2019 , 5, 313-338	16.2	103
73	In situ generated FeF ₃ in homogeneous iron matrix toward high-performance cathode material for sodium-ion batteries. <i>Nano Energy</i> , 2014 , 10, 295-304	17.1	90
72	Blood-Capillary-Inspired, Free-Standing, Flexible, and Low-Cost Super-Hydrophobic N-CNTs@SS Cathodes for High-Capacity, High-Rate, and Stable Li-Air Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702242	21.8	88
71	High-performance ZnCo ₂ @CeO ₂ core@shell microspheres for catalytic CO oxidation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22216-23	9.5	87
70	Rectangular AgIn(WO ₄) ₂ Nanotubes: A Promising Photoelectric Material. <i>Advanced Functional Materials</i> , 2008 , 18, 2328-2334	15.6	82
69	ENIS modified CdS nanowires for photocatalytic H ₂ evolution with exceptionally high efficiency. <i>Chemical Science</i> , 2018 , 9, 1574-1585	9.4	80
68	FAO supported Pd@CeO core@shell nanospheres: salting-out assisted growth and self-assembly, and their catalytic performance in CO oxidation. <i>Chemical Science</i> , 2015 , 6, 2877-2884	9.4	76
67	Transition-Metal-Boron Intermetallics with Strong Interatomic d-sp Orbital Hybridization for High-Performance Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3961-3965	16.4	74
66	Preparation and gas storage of high surface area microporous carbon derived from biomass source cornstalks. <i>Bioresource Technology</i> , 2008 , 99, 4803-8	11	69
65	High-Performance Integrated Self-Package Flexible Li-O Battery Based on Stable Composite Anode and Flexible Gas Diffusion Layer. <i>Advanced Materials</i> , 2017 , 29, 1700378	24	67
64	Co ₃ O ₄ @CeO ₂ core@shell cubes: designed synthesis and optimization of catalytic properties. <i>Chemistry - A European Journal</i> , 2014 , 20, 4469-73	4.8	66
63	Highly transparent bulk PMMA/ZnO nanocomposites with bright visible luminescence and efficient UV-shielding capability. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11971		64
62	Dispersion-Assembly Approach to Synthesize Three-Dimensional Graphene/Polymer Composite Aerogel as a Powerful Organic Cathode for Rechargeable Li and Na Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15549-15556	9.5	60
61	The PVDF-HFP gel polymer electrolyte for Li-O ₂ battery. <i>Solid State Ionics</i> , 2018 , 318, 88-94	3.3	60

60	Copper doped ceria porous nanostructures towards a highly efficient bifunctional catalyst for carbon monoxide and nitric oxide elimination. <i>Chemical Science</i> , 2015 , 6, 2495-2500	9.4	59
59	Green and controlled synthesis of Cu ₂ O-graphene hierarchical nanohybrids as high-performance anode materials for lithium-ion batteries via an ultrasound assisted approach. <i>Dalton Transactions</i> , 2012 , 41, 4316-9	4.3	57
58	Rh-Ni-B Nanoparticles as Highly Efficient Catalysts for Hydrogen Generation from Hydrous Hydrazine. <i>Advanced Energy Materials</i> , 2015 , 5, 1401879	21.8	53
57	An Illumination-Assisted Flexible Self-Powered Energy System Based on a Li-O Battery. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16411-16415	16.4	52
56	Comparative Study of Structural Changes in NH ₃ BH ₃ , LiNH ₂ BH ₃ , and KNH ₂ BH ₃ During Dehydrogenation Process. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5957-5964	3.8	51
55	Superior electrode performance of mesoporous hollow TiO ₂ microspheres through efficient hierarchical nanostructures. <i>Journal of Power Sources</i> , 2011 , 196, 8618-8624	8.9	50
54	Ru Species Supported on MOF-Derived N-Doped TiO ₂ /C Hybrids as Efficient Electrocatalytic/Photocatalytic Hydrogen Evolution Reaction Catalysts. <i>Advanced Functional Materials</i> , 2020 , 30, 2003007	15.6	49
53	Protecting the Lithium Metal Anode for a Safe Flexible Lithium-Air Battery in Ambient Air. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18240-18245	16.4	49
52	A Controllable Surface Etching Strategy for Well-Defined Spiny Yolk@Shell CuO@CeO ₂ Cubes and Their Catalytic Performance Boost. <i>Advanced Functional Materials</i> , 2018 , 28, 1802559	15.6	45
51	Decoration of Pt on Cu/Co double-doped CeO nanospheres and their greatly enhanced catalytic activity. <i>Chemical Science</i> , 2016 , 7, 1867-1873	9.4	44
50	Solid state NMR study on the thermal decomposition pathway of sodium amidoborane NaNH ₂ BH ₃ . <i>Journal of Materials Chemistry</i> , 2011 , 21, 2609		43
49	Thermal decomposition of alkaline-earth metal hydride and ammonia borane composites. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 12405-12409	6.7	39
48	Microporous carbon derived from pinecone hull as anode material for lithium secondary batteries. <i>Materials Letters</i> , 2007 , 61, 5209-5212	3.3	39
47	Colloidal noble-metal and bimetallic alloy nanocrystals: a general synthetic method and their catalytic hydrogenation properties. <i>Chemistry - A European Journal</i> , 2010 , 16, 6251-6	4.8	34
46	High-Performance Ultrathin Co ₃ O ₄ Nanosheet Supported PdO/CeO ₂ Catalysts for Methane Combustion. <i>Advanced Energy Materials</i> , 2019 , 9, 1803583	21.8	33
45	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. <i>Angewandte Chemie</i> , 2019 , 131, 9564-9569	3.6	30
44	Fe ₃ O ₄ -nanoparticle-decorated TiO ₂ nanofiber hierarchical heterostructures with improved lithium-ion battery performance over wide temperature range. <i>Nano Research</i> , 2015 , 8, 1659-1668	10	29
43	Activation of Ammonia Borane Hybridized with Alkaline Metal Hydrides: A Low-Temperature and High-Purity Hydrogen Generation Material. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14662-14664	3.8	29

42	Self-Assembled Pd@CeO ₂ /BAO Catalysts with Enhanced Activity for Catalytic Methane Combustion. <i>Small</i> , 2017 , 13, 1700941	11	26
41	Galvanic replacement synthesis of Ag@Au@CeO ₂ (0 111) core@shell nanospheres with greatly enhanced catalytic performance. <i>Chemical Science</i> , 2015 , 6, 7015-7019	9.4	26
40	Design and synthesis of near-IR luminescent mesoporous materials covalently linked with tris(8-hydroxyquinolate)lanthanide(III) complexes. <i>Microporous and Mesoporous Materials</i> , 2008 , 115, 535-540	5.3	26
39	Hydrogen storage properties and mechanisms of Mg(BH ₄) ₂ ·2NH ₃ ·MgH ₂ combination systems. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 674-680	5.7	24
38	Ternary lanthanide (Er ³⁺ , Nd ³⁺ , Yb ³⁺ , Sm ³⁺ , Pr ³⁺) complex-functionalized mesoporous SBA-15 materials that emit in the near-infrared range. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 199, 57-63	4.7	24
37	CO Oxidation Catalyzed by Two-Dimensional Co ₃ O ₄ /CeO ₂ Nanosheets. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5769-5778	5.6	23
36	Water-soluble Au-CeO ₂ hybrid nanosheets with high catalytic activity and recyclability. <i>Dalton Transactions</i> , 2012 , 41, 7193-5	4.3	22
35	Self-Assembled Growth of AgIn(MoO ₄) ₂ Submicroplates into Hierarchical Structures and Their Near-Infrared Luminescent Properties. <i>Crystal Growth and Design</i> , 2009 , 9, 848-852	3.5	22
34	Promoting electrocatalytic nitrogen reduction to ammonia via Fe-boosted nitrogen activation on MnO ₂ surfaces. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13679-13684	13	21
33	An Illumination-Assisted Flexible Self-Powered Energy System Based on a LiO ₂ Battery. <i>Angewandte Chemie</i> , 2019 , 131, 16563-16567	3.6	21
32	Highly Active Catalyst of Two-Dimensional CoS ₂ /Graphene Nanocomposites for Hydrogen Evolution Reaction. <i>Nanoscale Research Letters</i> , 2015 , 10, 488	5	20
31	Protecting the Lithium Metal Anode for a Safe Flexible Lithium-Air Battery in Ambient Air. <i>Angewandte Chemie</i> , 2019 , 131, 18408-18413	3.6	19
30	The design of hollow PdO-CoO nano-dodecahedrons with moderate catalytic activity for Li-O batteries. <i>Chemical Communications</i> , 2019 , 55, 12683-12686	5.8	17
29	Rational catalyst design for oxygen evolution under acidic conditions: strategies toward enhanced electrocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5890-5914	13	17
28	CuIn(WO ₄) ₂ nanospindles and nanorods: controlled synthesis and host for lanthanide near-infrared luminescence properties. <i>CrystEngComm</i> , 2009 , 11, 1987	3.3	13
27	Trimetallic (Co/Ni/Cu) Hydroxyphosphate Nanosheet Array as Efficient and Durable Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16859-16866	8.3	13
26	Synthesis, structures and photoluminescence of two Er(III) coordination polymers. <i>Journal of Coordination Chemistry</i> , 2008 , 61, 945-955	1.6	12
25	Highly Active PdO/MnO ₂ /CeO ₂ Nanocomposites Supported on One Dimensional Halloysite Nanotubes for Photoassisted Thermal Catalytic Methane Combustion. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18552-18556	16.4	10

24	Nanocarbon encapsulating Ni-doped MoP/graphene composites for highly improved electrocatalytic hydrogen evolution reaction. <i>Composites Communications</i> , 2021 , 26, 100792	6.7	10
23	In situ redox strategy for large-scale fabrication of surfactant-free M-Fe ₂ O ₃ (M = Pt, Pd, Au) hybrid nanospheres. <i>Science China Materials</i> , 2016 , 59, 191-199	7.1	9
22	Hollow Zn ₂ GeO ₄ Nanorods Supported on Reduced Graphene Oxides as an Environment-Friendly High-Capacity Anode Material for Lithium Ion Batteries. <i>Science of Advanced Materials</i> , 2013 , 5, 523-529	2.3	9
21	Synthesis of ferrite nanocrystals stabilized by ionic-liquid molecules through a thermal decomposition route. <i>Chemistry - A European Journal</i> , 2011 , 17, 920-4	4.8	8
20	Pr-doped NiCoP nanowire arrays for efficient hydrogen evolution in both acidic and alkaline media. <i>Journal of Alloys and Compounds</i> , 2021 , 862, 158047	5.7	6
19	Recent progresses, challenges and perspectives on rechargeable Li-O ₂ batteries. <i>Nano Select</i> , 2020 , 1, 79-93	3.1	5
18	Precious-Metal-Free Nanocatalysts for Highly Efficient Hydrogen Production from Hydrous Hydrazine. <i>Advanced Functional Materials</i> , 2014 , 24, n/a-n/a	15.6	5
17	Lithium hydrazide as a potential compound for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5750-5753	6.7	5
16	Optimized Self-Templating Synthesis Method for Highly Crystalline Hollow Cu ₂ O Nanoboxes. <i>Small Methods</i> , 2020 , 4, 2000521	12.8	5
15	Catalytically active Co ₃ O ₄ hybrid microstructures and their morphology evolution induced by ceria. <i>Materials Research Bulletin</i> , 2017 , 96, 2-9	5.1	4
14	Synthesis, structure and characterization of new 1D and 2D Ni(II) coordination polymers. <i>Solid State Sciences</i> , 2009 , 11, 364-367	3.4	4
13	Transition-Metal-Boron Intermetallics with Strong Interatomic d-p Orbital Hybridization for High-Performance Electrocatalysis. <i>Angewandte Chemie</i> , 2020 , 132, 3989-3993	3.6	4
12	In situ Fabrication of Porous Co-P Hierarchical Nanostructures on Carbon Fiber Cloth with Exceptional Performance for Sodium Storage. <i>Advanced Materials</i> , 2021 , e2108985	24	4
11	Catalytic activity boost of CeO ₂ /Co ₃ O ₄ nanospheres derived from CeCo-glycolate via yolk-shell structural evolution. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 421-426	6.8	3
10	Layer-by-Layer Electrodeposition of FTO/TiO ₂ /Cu ₂ O/CeO ₂ (1 <i>Small Methods</i> , 2021 , 5, e2100423	12.8	3
9	Mini Review: Recent Advances on Flexible Rechargeable Li-Air Batteries. <i>Energy & Fuels</i> , 2021 , 35, 4751-4761	4.1	3
8	Synthesis of monodispersed Au@B ₂ S ₃ hybrid nanocrystals via a solid-liquid interfacial reaction. <i>CrystEngComm</i> , 2012 , 14, 7552	3.3	2
7	Carbon anode material formed from template molecules occluded in a magnesium-substituted aluminophosphate. <i>Materials Chemistry and Physics</i> , 2009 , 113, 309-313	4.4	2

6	Conductivity Modulation of 3D-Printed Shellular Electrodes through Embedding Nanocrystalline Intermetallics into Amorphous Matrix for Ultrahigh-Current Oxygen Evolution. <i>Advanced Energy Materials</i> , 2021 , 11, 2100968	21.8	2
5	Solvation Effect on the Improved Sodium Storage Performance of N-Heteropentacenequinone for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26806-26812	16.4	2
4	3D Carbon Networks: Design and Applications in Sodium Ion Batteries. <i>ChemPlusChem</i> , 2021 , 86, 1135-1161	16.1	1
3	Solvation Effect on the Improved Sodium Storage Performance of N-Heteropentacenequinone for Sodium-Ion Batteries. <i>Angewandte Chemie</i> ,	3.6	1
2	Preparation of Quaternary FeCoMoCu Metal Oxides for Oxygen Evolution Reaction. <i>Chemical Research in Chinese Universities</i> ,1	2.2	1
1	Highly Active PdO/Mn ₃ O ₄ /CeO ₂ Nanocomposites Supported on One Dimensional Halloysite Nanotubes for Photoassisted Thermal Catalytic Methane Combustion. <i>Angewandte Chemie</i> , 2021 , 133, 18700-18704	3.6	