

Weiyu Zhang

List of Publications by Year in descending order

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5680
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances on Water-Splitting Electrocatalysis Mediated by Noble-Metal-Based Nanostructured Materials. <i>Advanced Energy Materials</i> , 2020, 10, 1903120.	19.5	560
2	Iridium-Based Multimetallic Porous Hollow Nanocrystals for Efficient Overall-Water-Splitting Catalysis. <i>Advanced Materials</i> , 2017, 29, 1703798.	21.0	460
3	Freestanding film made by necklace-like N-doped hollow carbon with hierarchical pores for high-performance potassium-ion storage. <i>Energy and Environmental Science</i> , 2019, 12, 1605-1612.	30.8	349
4	Black Phosphorus Nanosheets as a Neuroprotective Nanomedicine for Neurodegenerative Disorder Therapy. <i>Advanced Materials</i> , 2018, 30, 1703458.	21.0	266
5	Emerging Dual-Atomic-Site Catalysts for Efficient Energy Catalysis. <i>Advanced Materials</i> , 2021, 33, e2102576.	21.0	226
6	Metal Surface and Interface Energy Electrocatalysis: Fundamentals, Performance Engineering, and Opportunities. <i>CheM</i> , 2018, 4, 2054-2083.	11.7	225
7	Ultrathin PtNiM (M = Rh, Os, and Ir) Nanowires as Efficient Fuel Oxidation Electrocatalytic Materials. <i>Advanced Materials</i> , 2019, 31, e1805833.	21.0	223
8	A Three-Dimensional Carbon Framework Constructed by N/S Co-doped Graphene Nanosheets with Expanded Interlayer Spacing Facilitates Potassium Ion Storage. <i>ACS Energy Letters</i> , 2020, 5, 1653-1661.	17.4	202
9	Iridium-Tungsten Alloy Nanodendrites as pH-Universal Water-Splitting Electrocatalysts. <i>ACS Central Science</i> , 2018, 4, 1244-1252.	11.3	196
10	Fluorination-enabled Reconstruction of NiFe Electrocatalysts for Efficient Water Oxidation. <i>Nano Letters</i> , 2021, 21, 492-499.	9.1	190
11	A Universal Strategy for Intimately Coupled Carbon Nanosheets/MoM Nanocrystals (M = P, S, C, and O) Hierarchical Hollow Nanospheres for Hydrogen Evolution Catalysis and Sodium-Ion Storage. <i>Advanced Materials</i> , 2018, 30, e1706085.	21.0	147
12	Thermolysis of Noble Metal Nanoparticles into Electron-Rich Phosphorus-Coordinated Noble Metal Single Atoms at Low Temperature. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14184-14188.	13.8	136
13	Multimetal Borides Nanochains as Efficient Electrocatalysts for Overall Water Splitting. <i>Small</i> , 2019, 15, e1804212.	10.0	135
14	Single-atom Pt-13 sites on all-inorganic Cs ₂ SnI ₆ perovskite for efficient photocatalytic hydrogen production. <i>Nature Communications</i> , 2021, 12, 4412.	12.8	128
15	Synergetic interaction between neighboring platinum and ruthenium monomers boosts CO oxidation. <i>Chemical Science</i> , 2019, 10, 5898-5905.	7.4	127
16	Wrinkled Rh ₂ P Nanosheets as Superior pH-Universal Electrocatalysts for Hydrogen Evolution Catalysis. <i>Advanced Energy Materials</i> , 2018, 8, 1801891.	19.5	116
17	Au Clusters on Pd Nanosheets Selectively Switch the Pathway of Ethanol Electrooxidation: Amorphous/Crystalline Interface Matters. <i>Advanced Energy Materials</i> , 2021, 11, 2100187.	19.5	113
18	Ni _{1-x} Co _x Se ₂ /ZnIn ₂ S ₄ Hybrid Nanocages with Strong 2D/2D Hetero-Interface Interaction Enable Efficient H ₂ -Releasing Photocatalysis. <i>Advanced Functional Materials</i> , 2021, 31, 2100923.	14.9	104

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19	Electronic-Structure Tuning of Water-Splitting Nanocatalysts. Trends in Chemistry, 2019, 1, 259-271.	8.5	99
20	One Nanometer PtIr Nanowires as High-Efficiency Bifunctional Catalysts for Electrosynthesis of Ethanol into High Value-Added Multicarbon Compound Coupled with Hydrogen Production. Journal of the American Chemical Society, 2021, 143, 10822-10827.	13.7	95
21	Ir-Based Alloy Nanoflowers with Optimized Hydrogen Binding Energy as Bifunctional Electrocatalysts for Overall Water Splitting. Small Methods, 2020, 4, 1900129.	8.6	93
22	Sub-Monolayer YO _x /MoO _x on Ultrathin Pt Nanowires Boosts Alcohol Oxidation Electrocatalysis. Advanced Materials, 2021, 33, e2103762.	21.0	86
23	3D Space-Confined Pyrolysis of Double-Network Aerogels Containing In-Fe Cyanogel and Polyaniline: A New Approach to Hierarchically Porous Carbon with Exclusive Fe-N Active Sites for Oxygen Reduction Catalysis. Small Methods, 2017, 1, 1700167.	8.6	85
24	WO _x -Surface Decorated PtNi@Pt Dendritic Nanowires as Efficient pH-Universal Hydrogen Evolution Electrocatalysts. Advanced Energy Materials, 2021, 11, 2003192.	19.5	82
25	Short-Range Diffusion Enables General Synthesis of Medium-Entropy Alloy Aerogels. Advanced Materials, 2022, 34, .	21.0	74
26	Cyanogel-Derived Formation of 3D Nanoporous SnO ₂ -M _x O _y (M=Ni, Fe, Co) Hybrid Networks for High-Performance Lithium Storage. ChemSusChem, 2015, 8, 131-137.	6.8	63
27	A highly efficient atomically thin curved PdIr bimetallic electrocatalyst. National Science Review, 2021, 8, nwab019.	9.5	59
28	Local Coordination Regulation through Tuning Atomic-Scale Cavities of Pd Metallene toward Efficient Oxygen Reduction Electrocatalysis. Advanced Materials, 2022, 34, e2202084.	21.0	57
29	Rational Design of Hierarchical TiO ₂ /Epitaxially Aligned MoS ₂ -Carbon Coupled Interface Nanosheets Core/Shell Architecture for Ultrastable Sodium-Ion and Lithium-Sulfur Batteries. Small Methods, 2018, 2, 1800119.	8.6	49
30	Metal Single Atom Strategy Greatly Boosts Photocatalytic Methyl Activation and C-C Coupling for the Coproduction of High-Value-Added Multicarbon Compounds and Hydrogen. ACS Catalysis, 2020, 10, 9109-9114.	11.2	47
31	Amorphous Ru nanoclusters onto Co-doped 1D carbon nanocages enables efficient hydrogen evolution catalysis. Chinese Journal of Catalysis, 2022, 43, 110-115.	14.0	37
32	Cyano-bridged coordination polymer hydrogel-derived Sn-Fe binary oxide nanohybrids with structural diversity: from 3D, 2D, to 2D/1D and enhanced lithium-storage performance. Nanoscale, 2016, 8, 9828-9836.	5.6	35
33	Thermolysis of Noble Metal Nanoparticles into Electron-Rich Phosphorus-Coordinated Noble Metal Single Atoms at Low Temperature. Angewandte Chemie, 2019, 131, 14322-14326.	2.0	28
34	Ultrathin RuRh@(RuRh)O ₂ core@shell nanosheets as stable oxygen evolution electrocatalysts. Journal of Materials Chemistry A, 2020, 8, 15746-15751.	10.3	24
35	Hydrogel-Derived Nanoporous Sn-In-Ni Ternary Alloy Network for High-Performance Lithium-Storage. Electrochimica Acta, 2016, 210, 530-538.	5.2	19
36	An in-situ NH ₄ ⁺ -etched strategy for anchoring atomic Mo site on ZnIn ₂ S ₄ hierarchical nanotubes for superior hydrogen photocatalysis. Science China Chemistry, 2021, 64, 1716-1722.	8.2	17

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37	Ultrathin Metallic NbS ₂ Nanosheets with Unusual Intercalation Mechanism for Ultra-Stable Potassium-Ion Storage. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	15
38	Cyano-bridged coordination polymer gel as a precursor to a nanoporous In ₂ O ₃ @Co ₃ O ₄ hybrid network for high-capacity and cycle-stable lithium storage. <i>New Journal of Chemistry</i> , 2015, 39, 8249-8253.	2.8	14
39	Cyanogel-derived nanoporous Sn@Fe@Ni ternary oxide network for high-capacity and long-life lithium storage. <i>Journal of Alloys and Compounds</i> , 2017, 691, 250-254.	5.5	9