

# Zonghua Pu

## List of Publications by Citations

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80  
papers

8,688  
citations

49  
h-index

80  
g-index

80  
ext. papers

10,429  
ext. citations

11  
avg, IF

6.63  
L-index

#	Paper	IF	Citations
80	NiSe Nanowire Film Supported on Nickel Foam: An Efficient and Stable 3D Bifunctional Electrode for Full Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9351-5	16.4	1100
79	From 3D ZIF Nanocrystals to CoNi <sub>x</sub> /C Nanorod Array Electrocatalysts for ORR, OER, and Zn  Air Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704638	15.6	541
78	Multifunctional MoNi <sub>x</sub> /C@MoS <sub>2</sub> Electrocatalysts for HER, OER, ORR, and Zn  Air Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702300	15.6	519
77	RuP -Based Catalysts with Platinum-like Activity and Higher Durability for the Hydrogen Evolution Reaction at All pH Values. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 11559-11564	16.4	429
76	NiSe Nanowire Film Supported on Nickel Foam: An Efficient and Stable 3D Bifunctional Electrode for Full Water Splitting. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9483-9487	3.6	304
75	A universal synthesis strategy for P-rich noble metal diphosphide-based electrocatalysts for the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 952-957	35.4	265
74	CoP Nanosheet Arrays Supported on a Ti Plate: An Efficient Cathode for Electrochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4326-4329	9.6	255
73	Ni <sub>2</sub> P nanoparticle films supported on a Ti plate as an efficient hydrogen evolution cathode. <i>Nanoscale</i> , <b>2014</b> , 6, 11031-4	7.7	255
72	Tungsten phosphide nanorod arrays directly grown on carbon cloth: a highly efficient and stable hydrogen evolution cathode at all pH values. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 21874-9	9.5	243
71	Efficient Electrochemical Water Splitting Catalyzed by Electrodeposited Nickel Diselenide Nanoparticles Based Film. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4718-23	9.5	207
70	CoP nanostructures with different morphologies: synthesis, characterization and a study of their electrocatalytic performance toward the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14634	13	205
69	Flexible molybdenum phosphide nanosheet array electrodes for hydrogen evolution reaction in a wide pH range. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 196, 193-198	21.8	164
68	NiS <sub>2</sub> nanosheets array grown on carbon cloth as an efficient 3D hydrogen evolution cathode. <i>Electrochimica Acta</i> , <b>2015</b> , 153, 508-514	6.7	161
67	Phytic acid-derivative transition metal phosphides encapsulated in N,P-codoped carbon: an efficient and durable hydrogen evolution electrocatalyst in a wide pH range. <i>Nanoscale</i> , <b>2017</b> , 9, 3555-3560	7.7	158
66	Iron-Doped Nickel Phosphide Nanosheet Arrays: An Efficient Bifunctional Electrocatalyst for Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 26001-26007	9.5	158
65	Nitrogen-Doped carbon coupled FeNi <sub>3</sub> intermetallic compound as advanced bifunctional electrocatalyst for OER, ORR and zn-air batteries. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 268, 118729	21.8	141
64	Ni <sub>3</sub> S <sub>2</sub> nanosheets array supported on Ni foam: A novel efficient three-dimensional hydrogen-evolving electrocatalyst in both neutral and basic solutions. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 4727-4732	6.7	140

63	A universal synthesis strategy for single atom dispersed cobalt/metal clusters heterostructure boosting hydrogen evolution catalysis at all pH values. <i>Nano Energy</i> , <b>2019</b> , 59, 472-480	17.1	138
62	General Strategy for the Synthesis of Transition-Metal Phosphide/N-Doped Carbon Frameworks for Hydrogen and Oxygen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 16187-16193	9.5	135
61	In Situ Growth of NiSe Nanowire Film on Nickel Foam as an Electrode for High-Performance Supercapacitors. <i>ChemElectroChem</i> , <b>2015</b> , 2, 1903-1907	4.3	132
60	3D macroporous MoS <sub>2</sub> thin film: in situ hydrothermal preparation and application as a highly active hydrogen evolution electrocatalyst at all pH values. <i>Electrochimica Acta</i> , <b>2015</b> , 168, 133-138	6.7	128
59	Ru-doped 3D flower-like bimetallic phosphide with a climbing effect on overall water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 279, 119396	21.8	127
58	Coupling NiSe <sub>2</sub> -Ni <sub>2</sub> P heterostructure nanowrinkles for highly efficient overall water splitting. <i>Journal of Catalysis</i> , <b>2019</b> , 377, 600-608	7.3	123
57	Semimetallic MoP <sub>2</sub> : an active and stable hydrogen evolution electrocatalyst over the whole pH range. <i>Nanoscale</i> , <b>2016</b> , 8, 8500-4	7.7	123
56	Transition-Metal Phosphides: Activity Origin, Energy-Related Electrocatalysis Applications, and Synthetic Strategies. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004009	15.6	122
55	MoC quantum dot embedded chitosan-derived nitrogen-doped carbon for efficient hydrogen evolution in a broad pH range. <i>Chemical Communications</i> , <b>2016</b> , 52, 12753-12756	5.8	112
54	CoP quantum dot embedded N, P dual-doped carbon self-supported electrodes with flexible and binder-free properties for efficient hydrogen evolution reactions. <i>Nanoscale</i> , <b>2018</b> , 10, 2902-2907	7.7	110
53	Surface reconstruction engineering of cobalt phosphides by Ru inducement to form hollow Ru-RuPx-CoxP pre-electrocatalysts with accelerated oxygen evolution reaction. <i>Nano Energy</i> , <b>2018</b> , 53, 270-276	17.1	102
52	Tungsten nitride nanorods array grown on carbon cloth as an efficient hydrogen evolution cathode at all pH values. <i>Electrochimica Acta</i> , <b>2015</b> , 154, 345-351	6.7	98
51	Ultrasmall tungsten phosphide nanoparticles embedded in nitrogen-doped carbon as a highly active and stable hydrogen-evolution electrocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15327-15332	13.3	96
50	Nano-single crystal coalesced PtCu nanospheres as robust bifunctional catalyst for hydrogen evolution and oxygen reduction reactions. <i>Journal of Catalysis</i> , <b>2019</b> , 375, 164-170	7.3	91
49	Ultralow Ru Loading Transition Metal Phosphides as High-Efficient Bifunctional Electrocatalyst for a Solar-to-Hydrogen Generation System. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000814	21.8	88
48	Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 21	19.5	83
47	Iron oxide and phosphide encapsulated within N,P-doped microporous carbon nanofibers as advanced tri-functional electrocatalyst toward oxygen reduction/evolution and hydrogen evolution reactions and zinc-air batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 413, 367-375	8.9	81
46	RuP <sub>2</sub> -Based Catalysts with Platinum-like Activity and Higher Durability for the Hydrogen Evolution Reaction at All pH Values. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 11717-11722	3.6	78

45	Graphene film-confined molybdenum sulfide nanoparticles: Facile one-step electrodeposition preparation and application as a highly active hydrogen evolution reaction electrocatalyst. <i>Journal of Power Sources</i> , <b>2014</b> , 263, 181-185	8.9	76
44	The role of iron nitrides in the Fe-N-C catalysis system towards the oxygen reduction reaction. <i>Nanoscale</i> , <b>2017</b> , 9, 7641-7649	7.7	73
43	Nitrogen-doped carbon nanotube supported iron phosphide nanocomposites for highly active electrocatalysis of the hydrogen evolution reaction. <i>Electrochimica Acta</i> , <b>2014</b> , 149, 324-329	6.7	73
42	Ultrafine Molybdenum Carbide Nanocrystals Confined in Carbon Foams via a Colloid-Confinement Route for Efficient Hydrogen Production. <i>Small Methods</i> , <b>2018</b> , 2, 1700396	12.8	69
41	Activating rhodium phosphide-based catalysts for the pH-universal hydrogen evolution reaction. <i>Nanoscale</i> , <b>2018</b> , 10, 12407-12412	7.7	68
40	Double Metal Diphosphide Pair Nanocages Coupled with P-Doped Carbon for Accelerated Oxygen and Hydrogen Evolution Kinetics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 727-733	9.5	65
39	Integrated design and construction of WP/W nanorod array electrodes toward efficient hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , <b>2017</b> , 327, 705-712	14.7	64
38	Molybdenum Carbide-Derived Chlorine-Doped Ordered Mesoporous Carbon with Few-Layered Graphene Walls for Energy Storage Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3702-3712	9.5	63
37	Ultrastable nitrogen-doped carbon encapsulating molybdenum phosphide nanoparticles as highly efficient electrocatalyst for hydrogen generation. <i>Nanoscale</i> , <b>2016</b> , 8, 17256-17261	7.7	62
36	N-doped carbon nanotubes from functional tubular polypyrrole: A highly efficient electrocatalyst for oxygen reduction reaction. <i>Electrochemistry Communications</i> , <b>2013</b> , 36, 57-61	5.1	62
35	One-step electrodeposition fabrication of graphene film-confined WS <sub>2</sub> nanoparticles with enhanced electrochemical catalytic activity for hydrogen evolution. <i>Electrochimica Acta</i> , <b>2014</b> , 134, 8-12	6.7	61
34	Efficient water splitting catalyzed by flexible NiP <sub>2</sub> nanosheet array electrodes under both neutral and alkaline solutions. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 2154-2159	3.6	58
33	Ionothermal Route to Phase-Pure RuB <sub>2</sub> Catalysts for Efficient Oxygen Evolution and Water Splitting in Acidic Media. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2909-2915	20.1	56
32	Synergistic Coupling of Ni Nanoparticles with Ni C Nanosheets for Highly Efficient Overall Water Splitting. <i>Small</i> , <b>2020</b> , 16, e2001642	11	55
31	Constructing carbon-coated high-index (222) faceted tantalum carbide nanocrystals as a robust hydrogen evolution catalyst. <i>Nano Energy</i> , <b>2017</b> , 36, 374-380	17.1	47
30	Boron-rich environment boosting ruthenium boride on B, N doped carbon outperforms platinum for hydrogen evolution reaction in a universal pH range. <i>Nano Energy</i> , <b>2020</b> , 75, 104881	17.1	43
29	Fabrication of Ni(OH) <sub>2</sub> coated ZnO array for high-rate pseudocapacitive energy storage. <i>Electrochimica Acta</i> , <b>2013</b> , 109, 252-255	6.7	40
28	Scalable cellulose-sponsored functionalized carbon nanorods induced by cobalt for efficient overall water splitting. <i>Carbon</i> , <b>2018</b> , 137, 274-281	10.4	38

27	Efficient strategy for significantly decreasing overpotentials of hydrogen generation via oxidizing small molecules at flexible bifunctional CoSe electrodes. <i>Journal of Power Sources</i> , <b>2018</b> , 401, 238-244	8.9	34
26	Significantly Improved Water Oxidation of CoP Catalysts by Electrochemical Activation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 17851-17859	8.3	30
25	MOF-assisted synthesis of octahedral carbon-supported PtCu nanoalloy catalysts for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 19348-19356	13	27
24	Shrunken hollow Mo-N/Mo-C nanosphere structure for efficient hydrogen evolution in a broad pH range. <i>Electrochimica Acta</i> , <b>2019</b> , 298, 799-805	6.7	25
23	H <sub>2</sub> O <sub>2</sub> -Assisted Synthesis of Porous N-Doped Graphene/Molybdenum Nitride Composites with Boosted Oxygen Reduction Reaction. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1601227	4.6	24
22	Versatile Route To Fabricate Precious-Metal Phosphide Electrocatalyst for Acid-Stable Hydrogen Oxidation and Evolution Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 11737-11744	9.5	24
21	3D flexible hydrogen evolution electrodes with Se-promoted molybdenum sulfide nanosheet arrays. <i>RSC Advances</i> , <b>2016</b> , 6, 11077-11080	3.7	24
20	Interfacial engineering of Co nanoparticles/Co <sub>2</sub> C nanowires boosts overall water splitting kinetics. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 296, 120334	21.8	22
19	Phosphorization engineering ameliorated the electrocatalytic activity for overall water splitting on NiS nanosheets. <i>Dalton Transactions</i> , <b>2019</b> , 48, 13466-13471	4.3	21
18	Anion-Modulated Platinum for High-Performance Multifunctional Electrocatalysis toward HER, HOR, and ORR. <i>IScience</i> , <b>2020</b> , 23, 101793	6.1	20
17	Phosphorous-doped carbon coordinated iridium diphosphide bifunctional catalyst with ultralow iridium amount for efficient all-pH-value hydrogen evolution and oxygen reduction reactions. <i>Journal of Catalysis</i> , <b>2020</b> , 383, 244-253	7.3	20
16	Robust MOF-253-derived N-doped carbon confinement of Pt single nanocrystal electrocatalysts for oxygen evolution reaction. <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 839-846	11.3	20
15	Ni nanoparticles-graphene hybrid film: one-step electrodeposition preparation and application as highly efficient oxygen evolution reaction electrocatalyst. <i>Journal of Applied Electrochemistry</i> , <b>2014</b> , 44, 1165-1170	2.6	18
14	Regenerative fuel cells: Recent progress, challenges, perspectives and their applications for space energy system. <i>Applied Energy</i> , <b>2021</b> , 283, 116376	10.7	14
13	Distorted niobium-self-doped graphene in-situ grown from 2D niobium carbide for catalyzing oxygen reduction. <i>Carbon</i> , <b>2018</b> , 139, 1144-1151	10.4	12
12	Nanostructured Metal Borides for Energy-Related Electrocatalysis: Recent Progress, Challenges, and Perspectives.. <i>Small Methods</i> , <b>2021</b> , 5, e2100699	12.8	10
11	In Situ Fabrication of Tungsten Diphosphide Nanoparticles on Tungsten foil: A Hydrogen-Evolution Cathode for a Wide pH Range. <i>Energy Technology</i> , <b>2016</b> , 4, 1030-1034	3.5	8
10	Swapping Catalytic Active Sites from Cationic Ni to Anionic S in Nickel Sulfide Enables More Efficient Alkaline Hydrogen Generation. <i>Advanced Energy Materials</i> , 2103359	21.8	8

9	Tunable Ru-Ru 2 P heterostructures with charge redistribution for efficient pH-universal hydrogen evolution. <i>Information Materials</i> ,	23.1	7
8	Mapping Hydrogen Evolution Activity Trends of Intermetallic Pt-Group Silicides. <i>ACS Catalysis</i> , 2623-2631	13.1	7
7	Anion Modulation of Pt-Group Metals and Electrocatalysis Applications. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 12257-12271	4.8	7
6	Molybdenum Carbide-PtCu Nanoalloy Heterostructures on MOF-Derived Carbon toward Efficient Hydrogen Evolution. <i>Small</i> , <b>2021</b> , 17, e2104241	11	6
5	Electrocatalytic Oxygen Evolution Reaction in Acidic Conditions: Recent Progress and Perspectives. <i>ChemSusChem</i> , <b>2021</b> , 14, 4636-4657	8.3	5
4	UIO-66-NH-derived mesoporous carbon used as a high-performance anode for the potassium-ion battery.. <i>RSC Advances</i> , <b>2020</b> , 11, 1039-1049	3.7	4
3	General Synthesis of Transition-Metal-Based Carbon-Group Intermetallic Catalysts for Efficient Electrocatalytic Hydrogen Evolution in Wide pH Range. <i>Advanced Energy Materials</i> , 2200293	21.8	3
2	Anion-modulated Molybdenum Oxide Enclosed Ruthenium Nano-capsules with Almost the Same Water Splitting Capability in Acidic and Alkaline Media. <i>Nano Energy</i> , <b>2022</b> , 107445	17.1	2
1	Duetting electronic structure modulation of Ru atoms in RuSe <sub>2</sub> @NC enables more moderate H <sup>*</sup> adsorption and water dissociation for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 7637-7644	13	1