Zonghua Pu

List of Publications by Year in Descending Order

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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.

80 8,688 80 49 h-index g-index citations papers 80 6.63 10,429 11 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
80	Duetting electronic structure modulation of Ru atoms in RuSe2@NC enables more moderate H* adsorption and water dissociation for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7637-7644	13	1
79	Anion-modulated Molybdenum Oxide Enclosed Ruthenium Nano-capsules with Almost the Same Water Splitting Capability in Acidic and Alkaline Media. <i>Nano Energy</i> , 2022 , 107445	17.1	2
78	Molybdenum Carbide-PtCu Nanoalloy Heterostructures on MOF-Derived Carbon toward Efficient Hydrogen Evolution. <i>Small</i> , 2021 , 17, e2104241	11	6
77	Anion Modulation of Pt-Group Metals and Electrocatalysis Applications. <i>Chemistry - A European Journal</i> , 2021 , 27, 12257-12271	4.8	7
76	Regenerative fuel cells: Recent progress, challenges, perspectives and their applications for space energy system. <i>Applied Energy</i> , 2021 , 283, 116376	10.7	14
75	Electrocatalytic Oxygen Evolution Reaction in Acidic Conditions: Recent Progress and Perspectives. <i>ChemSusChem</i> , 2021 , 14, 4636-4657	8.3	5
74	Nanostructured Metal Borides for Energy-Related Electrocatalysis: Recent Progress, Challenges, and Perspectives <i>Small Methods</i> , 2021 , 5, e2100699	12.8	10
73	Interfacial engineering of Co nanoparticles/Co2C nanowires boosts overall water splitting kinetics. <i>Applied Catalysis B: Environmental</i> , 2021 , 296, 120334	21.8	22
72	Anion-Modulated Platinum for High-Performance Multifunctional Electrocatalysis toward HER, HOR, and ORR. <i>IScience</i> , 2020 , 23, 101793	6.1	20
71	Ultralow Ru Loading Transition Metal Phosphides as High-Efficient Bifunctional Electrocatalyst for a Solar-to-Hydrogen Generation System. <i>Advanced Energy Materials</i> , 2020 , 10, 2000814	21.8	88
70	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> , 2020 , 383, 244-253	7.3	20
69	Nitrogen-Doped carbon coupled FeNi3 intermetallic compound as advanced bifunctional electrocatalyst for OER, ORR and zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118729	21.8	141
68	Versatile Route To Fabricate Precious-Metal Phosphide Electrocatalyst for Acid-Stable Hydrogen Oxidation and Evolution Reactions. <i>ACS Applied Materials & amp; Interfaces</i> , 2020 , 12, 11737-11744	9.5	24
67	Robust MOF-253-derived N-doped carbon confinement of Pt single nanocrystal electrocatalysts for oxygen evolution reaction. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 839-846	11.3	20
66	Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. <i>Nano-Micro Letters</i> , 2020 , 12, 21	19.5	83
65	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> , 2020 , 75, 104881	17.1	43
64	Double Metal Diphosphide Pair Nanocages Coupled with P-Doped Carbon for Accelerated Oxygen and Hydrogen Evolution Kinetics. <i>ACS Applied Materials & Distriction Control of the P-Doped Carbon for Accelerated Oxygen and Hydrogen Evolution Kinetics.</i>	9.5	65

(2018-2020)

63	Ru-doped 3D flower-like bimetallic phosphide with a climbing effect on overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119396	21.8	127
62	Synergistic Coupling of Ni Nanoparticles with Ni C Nanosheets for Highly Efficient Overall Water Splitting. <i>Small</i> , 2020 , 16, e2001642	11	55
61	Ionothermal Route to Phase-Pure RuB2 Catalysts for Efficient Oxygen Evolution and Water Splitting in Acidic Media. <i>ACS Energy Letters</i> , 2020 , 5, 2909-2915	20.1	56
60	MOF-assisted synthesis of octahedral carbon-supported PtCu nanoalloy catalysts for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19348-19356	13	27
59	Transition-Metal Phosphides: Activity Origin, Energy-Related Electrocatalysis Applications, and Synthetic Strategies. <i>Advanced Functional Materials</i> , 2020 , 30, 2004009	15.6	122
58	Significantly Improved Water Oxidation of CoP Catalysts by Electrochemical Activation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 17851-17859	8.3	30
57	UIO-66-NH-derived mesoporous carbon used as a high-performance anode for the potassium-ion battery <i>RSC Advances</i> , 2020 , 11, 1039-1049	3.7	4
56	Coupling NiSe2-Ni2P heterostructure nanowrinkles for highly efficient overall water splitting. Journal of Catalysis, 2019 , 377, 600-608	7.3	123
55	A universal synthesis strategy for P-rich noble metal diphosphide-based electrocatalysts for the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2019 , 12, 952-957	35.4	265
54	Nano-single crystal coalesced PtCu nanospheres as robust bifunctional catalyst for hydrogen evolution and oxygen reduction reactions. <i>Journal of Catalysis</i> , 2019 , 375, 164-170	7.3	91
53	A universal synthesis strategy for single atom dispersed cobalt/metal clusters heterostructure boosting hydrogen evolution catalysis at all pH values. <i>Nano Energy</i> , 2019 , 59, 472-480	17.1	138
52	Phosphorization engineering ameliorated the electrocatalytic activity for overall water splitting on NiS nanosheets. <i>Dalton Transactions</i> , 2019 , 48, 13466-13471	4.3	21
51	Shrunken hollow Mo-N/Mo-C nanosphere structure for efficient hydrogen evolution in a broad pH range. <i>Electrochimica Acta</i> , 2019 , 298, 799-805	6.7	25
50	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> , 2019 , 413, 367-375	8.9	81
49	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> , 2018 , 10, 2902-2907	7.7	110
48	Ultrafine Molybdenum Carbide Nanocrystals Confined in Carbon Foams via a Colloid-Confinement Route for Efficient Hydrogen Production. <i>Small Methods</i> , 2018 , 2, 1700396	12.8	69
47	Distorted niobium-self-doped graphene in-situ grown from 2D niobium carbide for catalyzing oxygen reduction. <i>Carbon</i> , 2018 , 139, 1144-1151	10.4	12
46	From 3D ZIF Nanocrystals to CoNx/C Nanorod Array Electrocatalysts for ORR, OER, and ZnAir Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1704638	15.6	541

45	Efficient strategy for significantly decreasing overpotentials of hydrogen generation via oxidizing small molecules at flexible bifunctional CoSe electrodes. <i>Journal of Power Sources</i> , 2018 , 401, 238-244	8.9	34
44	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> , 2018 , 53, 270-276	17.1	102
43	Scalable cellulose-sponsored functionalized carbon nanorods induced by cobalt for efficient overall water splitting. <i>Carbon</i> , 2018 , 137, 274-281	10.4	38
42	Activating rhodium phosphide-based catalysts for the pH-universal hydrogen evolution reaction. <i>Nanoscale</i> , 2018 , 10, 12407-12412	7.7	68
41	Molybdenum Carbide-Derived Chlorine-Doped Ordered Mesoporous Carbon with Few-Layered Graphene Walls for Energy Storage Applications. <i>ACS Applied Materials & Description</i> (2017), 9, 3702-3	39√72	63
40	Efficient water splitting catalyzed by flexible NiP2 nanosheet array electrodes under both neutral and alkaline solutions. <i>New Journal of Chemistry</i> , 2017 , 41, 2154-2159	3.6	58
39	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> , 2017 , 9, 3555-3	<i>5</i> 66	158
38	H2O2-Assisted Synthesis of Porous N-Doped Graphene/Molybdenum Nitride Composites with Boosted Oxygen Reduction Reaction. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1601227	4.6	24
37	The role of iron nitrides in the Fe-N-C catalysis system towards the oxygen reduction reaction. <i>Nanoscale</i> , 2017 , 9, 7641-7649	7.7	73
36	General Strategy for the Synthesis of Transition-Metal Phosphide/N-Doped Carbon Frameworks for Hydrogen and Oxygen Evolution. <i>ACS Applied Materials & District States</i> , 2017, 9, 16187-16193	9.5	135
35	Constructing carbon-cohered high-index (222) faceted tantalum carbide nanocrystals as a robust hydrogen evolution catalyst. <i>Nano Energy</i> , 2017 , 36, 374-380	17.1	47
34	Multifunctional MoN/C@MoS2 Electrocatalysts for HER, OER, ORR, and ZnAir Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1702300	15.6	519
33	Iron-Doped Nickel Phosphide Nanosheet Arrays: An Efficient Bifunctional Electrocatalyst for Water Splitting. <i>ACS Applied Materials & amp; Interfaces</i> , 2017 , 9, 26001-26007	9.5	158
32	RuP2-Based Catalysts with Platinum-like Activity and Higher Durability for the Hydrogen Evolution Reaction at All pH Values. <i>Angewandte Chemie</i> , 2017 , 129, 11717-11722	3.6	78
31	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> , 2017 , 56, 11559-11564	16.4	429
30	Integrated design and construction of WP/W nanorod array electrodes toward efficient hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2017 , 327, 705-712	14.7	64
29	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> , 2016 , 4, 15327-1	5332	96
28	Ultrastable nitrogen-doped carbon encapsulating molybdenum phosphide nanoparticles as highly efficient electrocatalyst for hydrogen generation. <i>Nanoscale</i> , 2016 , 8, 17256-17261	7.7	62

(2014-2016)

27	In Situ Fabrication of Tungsten Diphosphide Nanoparticles on Tungsten foil: A Hydrogen-Evolution Cathode for a Wide pH Range. <i>Energy Technology</i> , 2016 , 4, 1030-1034	3.5	8
26	Efficient Electrochemical Water Splitting Catalyzed by Electrodeposited Nickel Diselenide Nanoparticles Based Film. <i>ACS Applied Materials & Samp; Interfaces</i> , 2016 , 8, 4718-23	9.5	207
25	3D flexible hydrogen evolution electrodes with Se-promoted molybdenum sulfide nanosheet arrays. <i>RSC Advances</i> , 2016 , 6, 11077-11080	3.7	24
24	Semimetallic MoP2: an active and stable hydrogen evolution electrocatalyst over the whole pH range. <i>Nanoscale</i> , 2016 , 8, 8500-4	7.7	123
23	Flexible molybdenum phosphide nanosheet array electrodes for hydrogen evolution reaction in a wide pH range. <i>Applied Catalysis B: Environmental</i> , 2016 , 196, 193-198	21.8	164
22	MoC quantum dot embedded chitosan-derived nitrogen-doped carbon for efficient hydrogen evolution in a broad pH range. <i>Chemical Communications</i> , 2016 , 52, 12753-12756	5.8	112
21	Ni3S2 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> , 2015 , 40, 4727-4732	6.7	140
20	3D macroporous MoS2 thin film: in situ hydrothermal preparation and application as a highly active hydrogen evolution electrocatalyst at all pH values. <i>Electrochimica Acta</i> , 2015 , 168, 133-138	6.7	128
19	NiS2 nanosheets array grown on carbon cloth as an efficient 3D hydrogen evolution cathode. <i>Electrochimica Acta</i> , 2015 , 153, 508-514	6.7	161
18	NiSe Nanowire Film Supported on Nickel Foam: An Efficient and Stable 3D Bifunctional Electrode for Full Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9351-5	16.4	1100
17	In Situ Growth of NiSe Nanowire Film on Nickel Foam as an Electrode for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2015 , 2, 1903-1907	4.3	132
16	NiSe Nanowire Film Supported on Nickel Foam: An Efficient and Stable 3D Bifunctional Electrode for Full Water Splitting. <i>Angewandte Chemie</i> , 2015 , 127, 9483-9487	3.6	304
15	Tungsten nitride nanorods array grown on carbon cloth as an efficient hydrogen evolution cathode at all pH values. <i>Electrochimica Acta</i> , 2015 , 154, 345-351	6.7	98
14	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> , 2014 , 2, 14634	13	205
13	CoP Nanosheet Arrays Supported on a Ti Plate: An Efficient Cathode for Electrochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , 2014 , 26, 4326-4329	9.6	255
12	Ni nanoparticles-graphene hybrid film: one-step electrodeposition preparation and application as highly efficient oxygen evolution reaction electrocatalyst. <i>Journal of Applied Electrochemistry</i> , 2014 , 44, 1165-1170	2.6	18
11	Ni2P nanoparticle films supported on a Ti plate as an efficient hydrogen evolution cathode. <i>Nanoscale</i> , 2014 , 6, 11031-4	7.7	255
10	Graphene film-confined molybdenum sulfide nanoparticles: Facile one-step electrodeposition preparation and application as a highly active hydrogen evolution reaction electrocatalyst. <i>Journal</i>	8.9	76

9	One-step electrodeposition fabrication of graphene film-confined WS2 nanoparticles with enhanced electrochemical catalytic activity for hydrogen evolution. <i>Electrochimica Acta</i> , 2014 , 134, 8-12	6.7	61	
8	Nitrogen-doped carbon nanotube supported iron phosphide nanocomposites for highly active electrocatalysis of the hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2014 , 149, 324-329	6.7	73	
7	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 & Description (Control of the Control of the Control</i>	9.5	243	
6	N-doped carbon nanotubes from functional tubular polypyrrole: A highly efficient electrocatalyst for oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2013 , 36, 57-61	5.1	62	
5	Fabrication of Ni(OH)2 coated ZnO array for high-rate pseudocapacitive energy storage. <i>Electrochimica Acta</i> , 2013 , 109, 252-255	6.7	40	
4	Tunable Ru-Ru 2 P heterostructures with charge redistribution for efficient pH-universal hydrogen evolution. <i>Informa</i> Materily,	23.1	7	
3	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	
2	Mapping Hydrogen Evolution Activity Trends of Intermetallic Pt-Group Silicides. ACS Catalysis, 2623-263	113.1	7	
1	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	