

# Zhuangzhi Wu

## 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.

58

papers

3,298

citations

27

h-index

57

g-index

62

ext. papers

3,937

ext. citations

8

avg, IF

5.62

L-index

#	Paper	IF	Citations
58	Sulfur vacancy engineering of MoS <sub>2</sub> via phosphorus incorporation for improved electrocatalytic N <sub>2</sub> reduction to NH <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 300, 120733	21.8	12
57	Highly Efficient Electrocatalytic N Reduction to Ammonia over Metallic 1T Phase of MoS Enabled by Active Sites Separation Mechanism. <i>Advanced Science</i> , <b>2021</b> , e2103583	13.6	2
56	Mn-doped porous interconnected MoP nanosheets for enhanced hydrogen evolution. <i>Applied Surface Science</i> , <b>2021</b> , 551, 149321	6.7	10
55	High-Performance MoC Electrocatalyst for Hydrogen Evolution Reaction Enabled by Surface Sulfur Substitution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 40705-40712	9.5	7
54	Controlling atomic phosphorous-mounting surfaces of ultrafine W <sub>2</sub> C nanoislands monodispersed on the carbon frameworks for enhanced hydrogen evolution. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 1798-1807 <sup>4</sup>	11.3	4
53	A Novel Non-Equiatomic (W <sub>35</sub> Ta <sub>35</sub> Mo <sub>15</sub> Nb <sub>15</sub> ) <sub>95</sub> Ni <sub>5</sub> Refractory High Entropy Alloy with High Density Fabricated by Powder Metallurgical Process. <i>Metals</i> , <b>2020</b> , 10, 1436	2.3	1
52	Boosted photo-electro-catalytic hydrogen evolution over the MoS <sub>2</sub> /MoO <sub>2</sub> Schottky heterojunction by accelerating photo-generated charge kinetics. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 832, 154970	5.7	5
51	Tungsten-decorated MoP nanobelts for boosted hydrogen production. <i>Materials Research Express</i> , <b>2020</b> , 7, 015506	1.7	
50	Boosted hydrogen evolution from $\text{EMoC}_{1-x}\text{-MoP/C}$ heterostructures. <i>Electrochimica Acta</i> , <b>2020</b> , 334, 135624	6.7	11
49	N, K Co-activated biochar-derived molybdenum carbide as efficient electrocatalysts for hydrogen evolution. <i>Applied Surface Science</i> , <b>2020</b> , 509, 144879	6.7	8
48	Modulating electronic structures of holey Mo <sub>2</sub> N nanobelts by sulfur decoration for enhanced hydrogen generation. <i>Electrochimica Acta</i> , <b>2020</b> , 364, 137219	6.7	1
47	Boosted mechanical properties of sintered MoLa alloys with ultrafine-grains by the nanostructuring of secondary phase. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 798, 140270	5.3	0
46	Tungsten phosphide (WP) nanoparticles with tunable crystallinity, W vacancies, and electronic structures for hydrogen production. <i>Electrochimica Acta</i> , <b>2019</b> , 323, 134798	6.7	18
45	Structure and phase regulation in Mo <sub>x</sub> C ( $\text{EMoC}_{1-x}/\text{EMo}_2\text{C}$ ) to enhance hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 247, 78-85	21.8	72
44	Facile synthesis of MoP/MoO <sub>2</sub> heterostructures for efficient hydrogen generation. <i>Materials Letters</i> , <b>2019</b> , 241, 227-230	3.3	12
43	Amorphous phosphorus-doped MoS catalyst for efficient hydrogen evolution reaction. <i>Nanotechnology</i> , <b>2019</b> , 30, 205401	3.4	17
42	Dual-ion intercalated 1T/2H MoS <sub>2</sub> with expanded interlayers as supercapacitor electrode materials. <i>Materials Research Express</i> , <b>2019</b> , 6, 085534	1.7	3

41	A facile preparation of WS <sub>2</sub> nanosheets as a highly effective HER catalyst. <i>Tungsten</i> , <b>2019</b> , 1, 101-109	4.6	12
40	Template-free synthesis of porous Mo <sub>3</sub> P/MoP nanobelts as efficient catalysts for hydrogen generation. <i>Applied Surface Science</i> , <b>2019</b> , 493, 740-746	6.7	12
39	MoS <sub>2</sub> /Cu <sub>2</sub> O nano hybrid as a highly efficient catalyst for the photoelectrocatalytic hydrogen generation. <i>Materials Letters</i> , <b>2019</b> , 256, 126622	3.3	2
38	Boron triggers the phase transformation of Mo C (EMoC /EMoC) for enhanced hydrogen production. <i>Nanotechnology</i> , <b>2019</b> , 31, 105707	3.4	3
37	Synthesis of high-performance Mo <sub>11</sub> A <sub>2</sub> O <sub>3</sub> powder by hydrogen reduction of MoO <sub>2</sub> originated from a self-reduction strategy. <i>Materials Research Express</i> , <b>2019</b> , 6, 126586	1.7	3
36	Construction of In <sub>2</sub> Se <sub>3</sub> /MoS <sub>2</sub> heterojunction as photoanode toward efficient photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 752-758	14.7	26
35	Enhanced energy storage performance from Co-decorated MoS <sub>2</sub> nanosheets as supercapacitor electrode materials. <i>Ceramics International</i> , <b>2018</b> , 44, 13434-13438	5.1	23
34	Template-free fabrication of hierarchical MoS <sub>2</sub> /MoO <sub>2</sub> nanostructures as efficient catalysts for hydrogen production. <i>Applied Surface Science</i> , <b>2018</b> , 433, 723-729	6.7	29
33	N, P (S) Co-doped Mo <sub>2</sub> C/C hybrid electrocatalysts for improved hydrogen generation. <i>Carbon</i> , <b>2018</b> , 139, 845-852	10.4	55
32	Facile synthesis of Tungsten Phosphide/Ketjen Black Hybrid Electrocatalyst for Hydrogen Production. <i>Materials Research Express</i> , <b>2018</b> , 5, 065509	1.7	4
31	In Situ Preparation of Mo <sub>2</sub> C Nanoparticles Embedded in Ketjenblack Carbon as Highly Efficient Electrocatalysts for Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 983-990	8.3	54
30	Hierarchical Mo <sub>2</sub> C/C Scaffolds Organized by Nanosheets as Highly Efficient Electrocatalysts for Hydrogen Production. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 13995-14003	8.3	17
29	Oxygen-incorporated defect-rich MoP for highly efficient hydrogen production in both acidic and alkaline media. <i>Electrochimica Acta</i> , <b>2018</b> , 281, 540-548	6.7	37
28	Swollen Ammoniated MoS <sub>2</sub> with 1T/2H Hybrid Phases for High-Rate Electrochemical Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 2509-2515	8.3	142
27	Silver wrapped MoS <sub>2</sub> hybrid electrode materials for high-performance supercapacitor. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 708, 763-768	5.7	26
26	N-doped MoP nanoparticles for improved hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 14566-14571	6.7	62
25	Enhanced hydrogen evolution from the MoP/C hybrid by the modification of Ketjen Black. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 3337-3343	4.3	20
24	CoNi <sub>2</sub> S <sub>4</sub> nanoparticles as highly efficient electrocatalysts for the hydrogen evolution reaction in alkaline media. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 3043-3050	6.7	36

23	Phase engineering of a multiphasic 1T/2H MoS <sub>2</sub> catalyst for highly efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2681-2688	13	262
22	Biomass-derived nanostructured carbons and their composites as anode materials for lithium ion batteries. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 7176-7190	58.5	229
21	Polytype 1T/2H MoS <sub>2</sub> heterostructures for efficient photoelectrocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2017</b> , 330, 102-108	14.7	73
20	The Fe-promoted MoP catalyst with high activity for water splitting. <i>Applied Catalysis A: General</i> , <b>2016</b> , 524, 134-138	5.1	48
19	Influence of Mo/P Ratio on CoMoP nanoparticles as highly efficient HER catalysts. <i>Applied Catalysis A: General</i> , <b>2016</b> , 511, 11-15	5.1	58
18	Simple approach to induce solid-state oriented growth of MoO <sub>3</sub> microrods. <i>Micro and Nano Letters</i> , <b>2016</b> , 11, 102-104	0.9	
17	Ni-doped MoS <sub>2</sub> nanoparticles as highly active hydrogen evolution electrocatalysts. <i>RSC Advances</i> , <b>2016</b> , 6, 16656-16661	3.7	102
16	MoS <sub>2</sub> nanodot decorated In <sub>2</sub> S <sub>3</sub> nanoplates: a novel heterojunction with enhanced photoelectrochemical performance. <i>Chemical Communications</i> , <b>2016</b> , 52, 1867-70	5.8	40
15	Hydrogen evolution catalyzed by cobalt-promoted molybdenum phosphide nanoparticles. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 1952-1956	5.5	61
14	Influence of Carbon on Molybdenum Carbide Catalysts for the Hydrogen Evolution Reaction. <i>ChemCatChem</i> , <b>2016</b> , 8, 1961-1967	5.2	27
13	High specific surface area Mo <sub>2</sub> C nanoparticles as an efficient electrocatalyst for hydrogen evolution. <i>Journal of Power Sources</i> , <b>2015</b> , 296, 18-22	8.9	99
12	Enhanced hydrogen evolution catalysis from osmotically swollen ammoniated MoS <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 13050-13056	13	119
11	Sulfur-Decorated Molybdenum Carbide Catalysts for Enhanced Hydrogen Evolution. <i>ACS Catalysis</i> , <b>2015</b> , 5, 6956-6963	13.1	182
10	Tungsten carbide hollow microspheres as electrocatalyst and platinum support for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 3229-3237	6.7	60
9	Effect of Annealing Temperature on CoMoS <sub>2</sub> Nanosheets for Hydrodesulfurization of Dibenzothiophene. <i>Catalysis Letters</i> , <b>2014</b> , 144, 261-267	2.8	16
8	Molybdenum phosphide: a new highly efficient catalyst for the electrochemical hydrogen evolution reaction. <i>Chemical Communications</i> , <b>2014</b> , 50, 11683-5	5.8	187
7	Hydrothermal synthesis of MoS <sub>2</sub> nanoflowers as highly efficient hydrogen evolution reaction catalysts. <i>Journal of Power Sources</i> , <b>2014</b> , 264, 229-234	8.9	220
6	Distorted MoS <sub>2</sub> nanostructures: An efficient catalyst for the electrochemical hydrogen evolution reaction. <i>Electrochemistry Communications</i> , <b>2013</b> , 34, 219-222	5.1	95

5	MoS <sub>2</sub> Nanosheets: A Designed Structure with High Active Site Density for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , <b>2013</b> , 3, 2101-2107	13.1	294
4	WS <sub>2</sub> nanosheets as a highly efficient electrocatalyst for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 125, 59-66	21.8	268
3	Ultrasonic-assisted preparation of metastable hexagonal MoO <sub>3</sub> nanorods and their transformation to microbelts. <i>Ultrasonics Sonochemistry</i> , <b>2011</b> , 18, 288-92	8.9	19
2	Surfactant-assisted fabrication of MoS <sub>2</sub> nanospheres. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 182-187	4.3	41
1	Preparation and Tribological Properties of MoS <sub>2</sub> Nanosheets. <i>Advanced Engineering Materials</i> , <b>2010</b> , 12, 534-538	3.5	51