Zhuangzhi Wu

List of Publications by Citations

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	MoS2 Nanosheets: A Designed Structure with High Active Site Density for the Hydrogen Evolution Reaction. *ACS Catalysis*, **2013**, 3, 2101-2107	13.1	294
57	WS2 nanosheets as a highly efficient electrocatalyst for hydrogen evolution reaction. *Applied Catalysis B: Environmental*, **2012**, 125, 59-66	21.8	268
56	Phase engineering of a multiphasic 1T/2H MoS2 catalyst for highly efficient hydrogen evolution. *Journal of Materials Chemistry A*, **2017**, 5, 2681-2688	13	262
55	Biomass-derived nanostructured carbons and their composites as anode materials for lithium ion batteries. *Chemical Society Reviews*, **2017**, 46, 7176-7190	58.5	229
54	Hydrothermal synthesis of MoS2 nanoflowers as highly efficient hydrogen evolution reaction catalysts. *Journal of Power Sources*, **2014**, 264, 229-234	8.9	220
53	Molybdenum phosphide: a new highly efficient catalyst for the electrochemical hydrogen evolution reaction. *Chemical Communications*, **2014**, 50, 11683-5	5.8	187
52	Sulfur-Decorated Molybdenum Carbide Catalysts for Enhanced Hydrogen Evolution. *ACS Catalysis*, **2015**, 5, 6956-6963	13.1	182
51	Swollen Ammoniated MoS2 with 1T/2H Hybrid Phases for High-Rate Electrochemical Energy Storage. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 2509-2515	8.3	142
50	Enhanced hydrogen evolution catalysis from osmotically swollen ammoniated MoS2. *Journal of Materials Chemistry A*, **2015**, 3, 13050-13056	13	119
49	Ni-doped MoS2 nanoparticles as highly active hydrogen evolution electrocatalysts. *RSC Advances*, **2016**, 6, 16656-16661	3.7	102
48	High specific surface area Mo2C nanoparticles as an efficient electrocatalyst for hydrogen evolution. *Journal of Power Sources*, **2015**, 296, 18-22	8.9	99
47	Distorted MoS2 nanostructures: An efficient catalyst for the electrochemical hydrogen evolution reaction. *Electrochemistry Communications*, **2013**, 34, 219-222	5.1	95
46	Polytype 1T/2H MoS2 heterostructures for efficient photoelectrocatalytic hydrogen evolution. *Chemical Engineering Journal*, **2017**, 330, 102-108	14.7	73
45	Structure and phase regulation in MoxC (□MoC1-x/□Mo2C) to enhance hydrogen evolution. *Applied Catalysis B: Environmental*, **2019**, 247, 78-85	21.8	72
44	N-doped MoP nanoparticles for improved hydrogen evolution. *International Journal of Hydrogen Energy*, **2017**, 42, 14566-14571	6.7	62
43	Hydrogen evolution catalyzed by cobalt-promoted molybdenum phosphide nanoparticles. *Catalysis Science and Technology*, **2016**, 6, 1952-1956	5.5	61
42	Tungsten carbide hollow microspheres as electrocatalyst and platinum support for hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2015**, 40, 3229-3237	6.7	60

41	Influence of Mo/P Ratio on CoMoP nanoparticles as highly efficient HER catalysts. *Applied Catalysis A: General*, **2016**, 511, 11-15	5.1	58
40	N, P (S) Co-doped Mo2C/C hybrid electrocatalysts for improved hydrogen generation. *Carbon*, **2018**, 139, 845-852	10.4	55
39	In Situ Preparation of Mo2C Nanoparticles Embedded in Ketjenblack Carbon as Highly Efficient Electrocatalysts for Hydrogen Evolution. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 983-990	8.3	54
38	Preparation and Tribological Properties of MoS2 Nanosheets. *Advanced Engineering Materials*, **2010** , 12, 534-538	3.5	51
37	The Fe-promoted MoP catalyst with high activity for water splitting. *Applied Catalysis A: General*, **2016**, 524, 134-138	5.1	48
36	Surfactant-assisted fabrication of MoS2 nanospheres. *Journal of Materials Science*, **2010**, 45, 182-187	4.3	41
35	MoS2 nanodot decorated In2S3 nanoplates: a novel heterojunction with enhanced photoelectrochemical performance. *Chemical Communications*, **2016**, 52, 1867-70	5.8	40
34	Oxygen-incorporated defect-rich MoP for highly efficient hydrogen production in both acidic and alkaline media. *Electrochimica Acta*, **2018**, 281, 540-548	6.7	37
33	CoNi2S4 nanoparticles as highly efficient electrocatalysts for the hydrogen evolution reaction in alkaline media. *International Journal of Hydrogen Energy*, **2017**, 42, 3043-3050	6.7	36
32	Template-free fabrication of hierarchical MoS 2 /MoO 2 nanostructures as efficient catalysts for hydrogen production. *Applied Surface Science*, **2018**, 433, 723-729	6.7	29
31	Influence of Carbon on Molybdenum Carbide Catalysts for the Hydrogen Evolution Reaction. *ChemCatChem*, **2016**, 8, 1961-1967	5.2	27
30	Silver wrapped MoS2 hybrid electrode materials for high-performance supercapacitor. *Journal of Alloys and Compounds*, **2017**, 708, 763-768	5.7	26
29	Construction of In2Se3/MoS2 heterojunction as photoanode toward efficient photoelectrochemical water splitting. *Chemical Engineering Journal*, **2019**, 358, 752-758	14.7	26
28	Enhanced energy storage performance from Co-decorated MoS2 nanosheets as supercapacitor electrode materials. *Ceramics International*, **2018**, 44, 13434-13438	5.1	23
27	Enhanced hydrogen evolution from the MoP/C hybrid by the modification of Ketjen Black. *Journal of Materials Science*, **2017**, 52, 3337-3343	4.3	20
26	Ultrasonic-assisted preparation of metastable hexagonal MoO3 nanorods and their transformation to microbelts. *Ultrasonics Sonochemistry*, **2011**, 18, 288-92	8.9	19
25	Tungsten phosphide (WP) nanoparticles with tunable crystallinity, W vacancies, and electronic structures for hydrogen production. *Electrochimica Acta*, **2019**, 323, 134798	6.7	18
24	Amorphous phosphorus-doped MoS catalyst for efficient hydrogen evolution reaction. *Nanotechnology*, **2019**, 30, 205401	3.4	17

23	Hierarchical Mo2C/C Scaffolds Organized by Nanosheets as Highly Efficient Electrocatalysts for Hydrogen Production. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 13995-14003	8.3	17
22	Effect of Annealing Temperature on Co□MoS2 Nanosheets for Hydrodesulfurization of Dibenzothiophene. *Catalysis Letters*, **2014**, 144, 261-267	2.8	16
21	Facile synthesis of MoP/MoO2 heterostructures for efficient hydrogen generation. *Materials Letters*, **2019**, 241, 227-230	3.3	12
20	A facile preparation of WS2 nanosheets as a highly effective HER catalyst. *Tungsten*, **2019**, 1, 101-109	4.6	12
19	Template-free synthesis of porous Mo3P/MoP nanobelts as efficient catalysts for hydrogen generation. *Applied Surface Science*, **2019**, 493, 740-746	6.7	12
18	Sulfur vacancy engineering of MoS2 via phosphorus incorporation for improved electrocatalytic N2 reduction to NH3. *Applied Catalysis B: Environmental*, **2022**, 300, 120733	21.8	12
17	Boosted hydrogen evolution from □MoC1-x-MoP/C heterostructures. *Electrochimica Acta*, **2020**, 334, 135624	6.7	11
16	Mn-doped porous interconnected MoP nanosheets for enhanced hydrogen evolution. *Applied Surface Science*, **2021**, 551, 149321	6.7	10
15	N, K Co-activated biochar-derived molybdenum carbide as efficient electrocatalysts for hydrogen evolution. *Applied Surface Science*, **2020**, 509, 144879	6.7	8
14	High-Performance MoC Electrocatalyst for Hydrogen Evolution Reaction Enabled by Surface Sulfur Substitution. *ACS Applied Materials & Interfaces*, **2021**, 13, 40705-40712	9.5	7
13	Boosted photo-electro-catalytic hydrogen evolution over the MoS2/MoO2 Schottky heterojunction by accelerating photo-generated charge kinetics. *Journal of Alloys and Compounds*, **2020**, 832, 154970	5.7	5
12	Facile synthesis of Tungsten Phosphide/Ketjen Black Hybrid Electrocatalyst for Hydrogen Production. *Materials Research Express*, **2018**, 5, 065509	1.7	4
11	Controlling atomic phosphorous-mounting surfaces of ultrafine W2C nanoislands monodispersed on the carbon frameworks for enhanced hydrogen evolution. *Chinese Journal of Catalysis*, **2021**, 42, 1798-1807	11.3	4
10	Dual-ion intercalated 1T/2H MoS2 with expanded interlayers as supercapacitor electrode materials. *Materials Research Express*, **2019**, 6, 085534	1.7	3
9	Boron triggers the phase transformation of Mo C (□MoC /□MoC) for enhanced hydrogen production. *Nanotechnology*, **2019**, 31, 105707	3.4	3
8	Synthesis of high-performance Mo□a2O3 powder by hydrogen reduction of MoO2 originated from a self-reduction strategy. *Materials Research Express*, **2019**, 6, 126586	1.7	3
7	MoS2/Cu2O nanohybrid as a highly efficient catalyst for the photoelectrocatalytic hydrogen generation. *Materials Letters*, **2019**, 256, 126622	3.3	2
6	Highly Efficient Electrocatalytic N Reduction to Ammonia over Metallic 1T Phase of MoS Enabled by Active Sites Separation Mechanism. *Advanced Science*, **2021**, e2103583	13.6	2

5	A Novel Non-Equiatomic (W35Ta35Mo15Nb15)95Ni5 Refractory High Entropy Alloy with High Density Fabricated by Powder Metallurgical Process. *Metals*, **2020**, 10, 1436	2.3	1
4	Modulating electronic structures of holey Mo2N nanobelts by sulfur decoration for enhanced hydrogen generation. *Electrochimica Acta*, **2020**, 364, 137219	6.7	1
3	Boosted mechanical properties of sintered MoLa alloys with ultrafine-grains by the nanostructuring of secondary phase. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 798, 140270	5.3	0
2	Tungsten-decorated MoP nanobelts for boosted hydrogen production. *Materials Research Express*, **2020**, 7, 015506	1.7	
1	Simple approach to induce solid-state oriented growth of MoO3 microrods. *Micro and Nano Letters*, **2016**, 11, 102-104	0.9	