

# Synthesis of MoS<sub>2</sub> and MoSe<sub>2</sub>

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Citation Report

#	ARTICLE	IF	CITATIONS
15	Distorted MoS <sub>2</sub> nanostructures: An efficient catalyst for the electrochemical hydrogen evolution reaction. <i>Electrochemistry Communications</i> , 2013, 34, 219-222.	4.7	109
16	Room Temperature Electrodeposition of Molybdenum Sulfide for Catalytic and Photoluminescence Applications. <i>ACS Nano</i> , 2013, 7, 8199-8205.	14.6	92
18	Salts of C <sub>60</sub> (OH) <sub>8</sub> Electrodeposited onto a Glassy Carbon Electrode: Surprising Catalytic Performance in the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10867-10870.	13.8	98
19	First-row transition metal dichalcogenide catalysts for hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2013, 6, 3553.	30.8	946
20	MoS <sub>2</sub> Nanosheets: A Designed Structure with High Active Site Density for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2013, 3, 2101-2107.	11.2	340
21	Atomic-layer triangular WSe <sub>2</sub> sheets: synthesis and layer-dependent photoluminescence property. <i>Nanotechnology</i> , 2013, 24, 465705.	2.6	120
22	Supercapacitor Electrodes Based on Layered Tungsten Disulfide-Reduced Graphene Oxide Hybrids Synthesized by a Facile Hydrothermal Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11427-11433.	8.0	392
23	Optical and Vibrational Studies of Partially Edge-Terminated Vertically Aligned Nanocrystalline MoS <sub>2</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26262-26268.	3.1	51
24	Site-Dependent Free Energy Barrier for Proton Reduction on MoS <sub>2</sub> Edges. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21772-21777.	3.1	26
25	Controllable Disorder Engineering in Oxygen-Incorporated MoS <sub>2</sub> Ultrathin Nanosheets for Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2013, 135, 17881-17888.	13.7	2,107
26	Ultrathin MoS <sub>2</sub> Nanoplates with Rich Active Sites as Highly Efficient Catalyst for Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 12794-12798.	8.0	392
27	Electrochemical tuning of vertically aligned MoS <sub>2</sub> nanofilms and its application in improving hydrogen evolution reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19701-19706.	7.1	894
28	Mixed Close-Packed Cobalt Molybdenum Nitrides as Non-noble Metal Electrocatalysts for the Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 19186-19192.	13.7	897
29	In situ fabrication of porous MoS <sub>2</sub> thin-films as high-performance catalysts for electrochemical hydrogen evolution. <i>Chemical Communications</i> , 2013, 49, 7516.	4.1	120
30	Defect-Rich MoS <sub>2</sub> Ultrathin Nanosheets with Additional Active Edge Sites for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2013, 25, 5807-5813.	21.0	2,705
31	Selective Decoration of Au Nanoparticles on Monolayer MoS <sub>2</sub> Single Crystals. <i>Scientific Reports</i> , 2013, 3, 1839.	3.3	380
32	Enhanced Hydrogen Evolution Catalysis from Chemically Exfoliated Metallic MoS <sub>2</sub> Nanosheets. <i>Journal of the American Chemical Society</i> , 2013, 135, 10274-10277.	13.7	3,022
33	MoSe <sub>2</sub> and WSe <sub>2</sub> Nanofilms with Vertically Aligned Molecular Layers on Curved and Rough Surfaces. <i>Nano Letters</i> , 2013, 13, 3426-3433.	9.1	653

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35	Superior Field Emission Properties of Layered WS <sub>2</sub> -RGO Nanocomposites. Scientific Reports, 2013, 3, 3282.	3.3	218
36	Metallic Few-Layer Flowerlike VS <sub>2</sub> Nanosheets as Field Emitters. European Journal of Inorganic Chemistry, 2014, 2014, 5331-5336.	2.0	51
37	Nitrogen-doped carbon nanotube supported iron phosphide nanocomposites for highly active electrocatalysis of the hydrogen evolution reaction. Electrochimica Acta, 2014, 149, 324-329.	5.2	79
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40	Operando Characterization of an Amorphous Molybdenum Sulfide Nanoparticle Catalyst during the Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2014, 118, 29252-29259.	3.1	87
42	FeP Nanoparticles Film Grown on Carbon Cloth: An Ultrahighly Active 3D Hydrogen Evolution Cathode in Both Acidic and Neutral Solutions. ACS Applied Materials & Interfaces, 2014, 6, 20579-20584.	8.0	166
43	Highly Textured Tin(II) Sulfide Thin Films Formed from Sheetlike Nanocrystal Inks. Chemistry of Materials, 2014, 26, 7106-7113.	6.7	33
44	Effect of radio frequency power on composition, structure and optical properties of MoS <sub>x</sub> thin films. Physica B: Condensed Matter, 2014, 444, 21-26.	2.7	8
45	Will Solar-Driven Water-Splitting Devices See the Light of Day?. Chemistry of Materials, 2014, 26, 407-414.	6.7	654
46	Three-Dimensional Molybdenum Sulfide Sponges for Electrocatalytic Water Splitting. Small, 2014, 10, 895-900.	10.0	82
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48	Chemical vapor deposition growth of monolayer MoSe <sub>2</sub> nanosheets. Nano Research, 2014, 7, 511-517.	10.4	331
49	Band Gap-Tunable Molybdenum Sulfide Selenide Monolayer Alloy. Small, 2014, 10, 2589-2594.	10.0	109
50	Edge-exposed MoS <sub>2</sub> nano-assembled structures as efficient electrocatalysts for hydrogen evolution reaction. Nanoscale, 2014, 6, 2131-2136.	5.6	260
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52	Engineering a Cu <sub>2</sub> O/NiO/Cu <sub>2</sub> MoS <sub>4</sub> hybrid photocathode for H <sub>2</sub> generation in water. Nanoscale, 2014, 6, 6506-6510.	5.6	62
53	Layered transition metal dichalcogenides for electrochemical energy generation and storage. Journal of Materials Chemistry A, 2014, 2, 8981-8987.	10.3	552

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55	Ultrahigh Hydrogen Evolution Performance of Underwater Superaerophobic MoS <sub>2</sub> Nanostructured Electrodes. Advanced Materials, 2014, 26, 2683-2687.	21.0	775
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61	Temperature dependent Raman spectroscopy of chemically derived few layer MoS <sub>2</sub> and WS <sub>2</sub> nanosheets. Applied Physics Letters, 2014, 104, .	3.3	180
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64	Electrochemical Tuning of MoS <sub>2</sub> Nanoparticles on Three-Dimensional Substrate for Efficient Hydrogen Evolution. ACS Nano, 2014, 8, 4940-4947.	14.6	566
65	Investigation of molybdenum carbide nano-rod as an efficient and durable electrocatalyst for hydrogen evolution in acidic and alkaline media. Applied Catalysis B: Environmental, 2014, 154-155, 232-237.	20.2	183
66	Recent Development of Molybdenum Sulfides as Advanced Electrocatalysts for Hydrogen Evolution Reaction. ACS Catalysis, 2014, 4, 1693-1705.	11.2	769
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74	Highly efficient and stable DSSCs of wet-chemically synthesized MoS <sub>2</sub> counter electrode. Dalton Transactions, 2014, 43, 5256-5259.	3.3	77
75	Hanoi Tower-like Multilayered Ultrathin Palladium Nanosheets. Nano Letters, 2014, 14, 7188-7194.	9.1	122
76	Unconventional Pore and Defect Generation in Molybdenum Disulfide: Application in High-Rate Lithium-Ion Batteries and the Hydrogen Evolution Reaction. ChemSusChem, 2014, 7, 2489-2495.	6.8	82
77	High Electrochemical Selectivity of Edge versus Terrace Sites in Two-Dimensional Layered MoS <sub>2</sub> Materials. Nano Letters, 2014, 14, 7138-7144.	9.1	269
78	Understanding the Reactivity of Layered Transition-Metal Sulfides: A Single Electronic Descriptor for Structure and Adsorption. Journal of Physical Chemistry Letters, 2014, 5, 3884-3889.	4.6	70
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95	Enhanced Electrocatalysis for Hydrogen Evolution Reactions from WS <sub>2</sub> Nanoribbons. Advanced Energy Materials, 2014, 4, 1301875.	19.5	128
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97	CoP nanostructures with different morphologies: synthesis, characterization and a study of their electrocatalytic performance toward the hydrogen evolution reaction. Journal of Materials Chemistry A, 2014, 2, 14634.	10.3	227
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129	Synthesis of well-defined functional crystals by high temperature gas-phase reactions. <i>Science Bulletin</i> , 2014, 59, 2135-2143.	1.7	4
130	Structural phase transitions in two-dimensional Mo- and W-dichalcogenide monolayers. <i>Nature Communications</i> , 2014, 5, 4214.	12.8	832
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148	Hydrothermal fabrication of porous MoS <sub>2</sub> and its visible light photocatalytic properties. Materials Letters, 2014, 131, 122-124.	2.6	90
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159	Metallic and ferromagnetic MoS <sub>2</sub> nanobelts with vertically aligned edges. Nano Research, 2015, 8, 2946-2953.	10.4	30
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1079	Catalysis of hydrogen evolution reaction by Ni <sub>12</sub> P <sub>5</sub> single crystalline nanoplates and spherical nanoparticles. <i>CrystEngComm</i> , 2019, 21, 228-235.	2.6	14
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1408	A novel Ni-S-Mn electrode with hierarchical morphology fabricated by gradient electrodeposition for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2020, 514, 145944.	6.1	25
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1435	Electrokinetic Analysis of Poorly Conductive Electrocatalytic Materials. <i>ACS Catalysis</i> , 2020, 10, 4990-4996.	11.2	43

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2018	Amorphous MoWS <sub>x</sub> Alloy Nanosheets via Room-Temperature Precipitation Method for Enhanced Electrocatalytic Hydrogen Evolution Reactions. <i>ACS Applied Energy Materials</i> , 2024, 7, 1949-1960.	5.1	0
2019	Simultaneous electrochemical detection of dopamine and uric acid based on tri-composite of poly-pyrrole and Î±-Fe <sub>2</sub> O <sub>3</sub> embedded MoS <sub>2</sub> sheets modified electrode. <i>Microchemical Journal</i> , 2024, 198, 110189.	4.5	0
2020	Constructing 2D Phthalocyanine Covalent Organic Framework with Enhanced Stability and Conductivity via Interlayer Hydrogen Bonding as Electrocatalyst for CO <sub>2</sub> Reduction. <i>Small</i> , 0, .	10.0	0
2021	Tunneling optoresistance effect in two-dimensional modulated quantum structures. <i>Physical Review B</i> , 2024, 109, .	3.2	0
2022	Electrostatic shielding effects and binding energy shifts and topological phases of bilayer molybdenum chalcogenides. <i>ChemistrySelect</i> , 2024, 9, .	1.5	0
2023	The dependence of electrocatalytic HER activity of decorated MoS <sub>2</sub> with Cu nanoclusters. <i>Surfaces and Interfaces</i> , 2024, 46, 104095.	3.0	0
2024	Sulfur-tuned MoS <sub>2</sub> quantum dot decorated Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (MXene) electrode materials for high performance supercapacitor applications. <i>Journal of Alloys and Compounds</i> , 2024, 985, 174010.	5.5	0
2025	Progress in Electronic, Energy, Biomedical and Environmental Applications of Boron Nitride and MoS <sub>2</sub> Nanostructures. <i>Micromachines</i> , 2024, 15, 349.	2.9	0
2026	Top-down nanostructured multilayer MoS <sub>2</sub> with atomically sharp edges for electrochemical hydrogen evolution reaction. <i>Materials Today Nano</i> , 2024, 25, 100467.	4.6	0
2027	One Dimensional MoS <sub>2</sub> /MoP Heterostructures for Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Catalysis Letters</i> , 0, .	2.6	0

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2028	Engineered two-dimensional nanomaterials based diagnostics integrated with internet of medical things (IoMT) for COVID-19. Chemical Society Reviews, 2024, 53, 3774-3828.	38.1	0
2029	Physicochemical properties of MoS2 nanosheets under different conditions in SCCO2 exfoliation processing. Journal of Supercritical Fluids, 2024, 209, 106232.	3.2	0
2031	New approach to produce cubic-WC at low temperature for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2024, 62, 1018-1029.	7.1	0
2032	Temperature and Pressure Dependence of Hydrothermal Electrodeposition of Molybdenum Sulfide. ACS Applied Energy Materials, 2024, 7, 2593-2599.	5.1	0
2033	Rashba spin-splitting and spin Hall effect in Janus monolayers Sb2XSX <sup>TM</sup> (X, X <sup>TM</sup> = S, Se, or Te; X <sup>TM</sup> X <sup>TM</sup> ). Journal of Applied Physics, 2024, 135, .	2.5	0
2034	Progress on the Design of Electrocatalysts for Large <sup>TM</sup> Current Hydrogen Production by Tuning Thermodynamic and Kinetic Factors. Advanced Functional Materials, 0, , .	14.9	0
2035	Tuning the Optoelectronic Properties of Pulsed Laser Deposited <sup>TM</sup> 3D <sup>TM</sup> CoMoS <sub>2</sub> Films via the Degree of Vertical Alignment of Their Constituting Layers. Advanced Optical Materials, 0, , .	7.3	0
2036	Robust Low-Friction and Low-Wear TiNbMoTaCr High-Entropy Film Enabled by Periodically Inserting Curved MoS <sub>2</sub> Sheets. ACS Applied Materials & Interfaces, 2024, 16, 16936-16949.	8.0	0