

Synthesis of MoS₂ and MoSe₂

Nano Letters

13, 1341-1347

DOI: 10.1021/nl400258t

Citation Report

#	ARTICLE	IF	CITATIONS
15	Distorted MoS ₂ nanostructures: An efficient catalyst for the electrochemical hydrogen evolution reaction. <i>Electrochemistry Communications</i> , 2013, 34, 219-222.	2.3	109
16	Room Temperature Electrodeposition of Molybdenum Sulfide for Catalytic and Photoluminescence Applications. <i>ACS Nano</i> , 2013, 7, 8199-8205.	7.3	92
18	Salts of C ₆₀ (OH) ₈ Electrodeposited onto a Glassy Carbon Electrode: Surprising Catalytic Performance in the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10867-10870.	7.2	98
19	First-row transition metal dichalcogenide catalysts for hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2013, 6, 3553.	15.6	946
20	MoS ₂ Nanosheets: A Designed Structure with High Active Site Density for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2013, 3, 2101-2107.	5.5	340
21	Atomic-layer triangular WSe ₂ sheets: synthesis and layer-dependent photoluminescence property. <i>Nanotechnology</i> , 2013, 24, 465705.	1.3	120
22	Supercapacitor Electrodes Based on Layered Tungsten Disulfide-Reduced Graphene Oxide Hybrids Synthesized by a Facile Hydrothermal Method. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11427-11433.	4.0	392
23	Optical and Vibrational Studies of Partially Edge-Terminated Vertically Aligned Nanocrystalline MoS ₂ Thin Films. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26262-26268.	1.5	51
24	Site-Dependent Free Energy Barrier for Proton Reduction on MoS ₂ Edges. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21772-21777.	1.5	26
25	Controllable Disorder Engineering in Oxygen-Incorporated MoS ₂ Ultrathin Nanosheets for Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2013, 135, 17881-17888.	6.6	2,107
26	Ultrathin MoS ₂ Nanoplates with Rich Active Sites as Highly Efficient Catalyst for Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12794-12798.	4.0	392
27	Electrochemical tuning of vertically aligned MoS ₂ 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.	3.3	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.	6.6	897
29	In situ fabrication of porous MoS ₂ thin-films as high-performance catalysts for electrochemical hydrogen evolution. <i>Chemical Communications</i> , 2013, 49, 7516.	2.2	120
30	Defect-Rich MoS ₂ Ultrathin Nanosheets with Additional Active Edge Sites for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2013, 25, 5807-5813.	11.1	2,705
31	Selective Decoration of Au Nanoparticles on Monolayer MoS ₂ Single Crystals. <i>Scientific Reports</i> , 2013, 3, 1839.	1.6	380
32	Enhanced Hydrogen Evolution Catalysis from Chemically Exfoliated Metallic MoS ₂ Nanosheets. <i>Journal of the American Chemical Society</i> , 2013, 135, 10274-10277.	6.6	3,022
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35	Superior Field Emission Properties of Layered WS ₂ -RGO Nanocomposites. <i>Scientific Reports</i> , 2013, 3, 3282.	1.6	218
36	Metallic Few-Layer Flowerlike VS ₂ Nanosheets as Field Emitters. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5331-5336.	1.0	51
37	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.	2.6	79
38	Molybdenum Sulfides and Selenides as Possible Electrocatalysts for CO ₂ Reduction. <i>ChemCatChem</i> , 2014, 6, 1899-1905.	1.8	255
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40	Operando Characterization of an Amorphous Molybdenum Sulfide Nanoparticle Catalyst during the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29252-29259.	1.5	87
42	FeP Nanoparticles Film Grown on Carbon Cloth: An Ultrahighly Active 3D Hydrogen Evolution Cathode in Both Acidic and Neutral Solutions. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20579-20584.	4.0	166
43	Highly Textured Tin(II) Sulfide Thin Films Formed from Sheetlike Nanocrystal Inks. <i>Chemistry of Materials</i> , 2014, 26, 7106-7113.	3.2	33
44	Effect of radio frequency power on composition, structure and optical properties of MoS _x thin films. <i>Physica B: Condensed Matter</i> , 2014, 444, 21-26.	1.3	8
45	Will Solar-Driven Water-Splitting Devices See the Light of Day?. <i>Chemistry of Materials</i> , 2014, 26, 407-414.	3.2	654
46	Three-Dimensional Molybdenum Sulfide Sponges for Electrocatalytic Water Splitting. <i>Small</i> , 2014, 10, 895-900.	5.2	82
47	Tuning the MoS ₂ Edge-Site Activity for Hydrogen Evolution via Support Interactions. <i>Nano Letters</i> , 2014, 14, 1381-1387.	4.5	660
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49	Band Gap-Tunable Molybdenum Sulfide Selenide Monolayer Alloy. <i>Small</i> , 2014, 10, 2589-2594.	5.2	109
50	Edge-exposed MoS ₂ nano-assembled structures as efficient electrocatalysts for hydrogen evolution reaction. <i>Nanoscale</i> , 2014, 6, 2131-2136.	2.8	260
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52	Engineering a Cu ₂ O/NiO/Cu ₂ MoS ₄ hybrid photocathode for H ₂ generation in water. <i>Nanoscale</i> , 2014, 6, 6506-6510.	2.8	62
53	Layered transition metal dichalcogenides for electrochemical energy generation and storage. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8981-8987.	5.2	552

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54	Few-Layer MoS ₂ : A Promising Layered Semiconductor. ACS Nano, 2014, 8, 4074-4099.	7.3	1,181
55	Ultrahigh Hydrogen Evolution Performance of Underwater Superaerophobic MoS ₂ Nanostructured Electrodes. Advanced Materials, 2014, 26, 2683-2687.	11.1	775
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60	Thermal Expansion, Anharmonicity and Temperature-Dependent Raman Spectra of Single- and Few-Layer MoSe ₂ and WSe ₂ . ChemPhysChem, 2014, 15, 1592-1598.	1.0	242
61	Temperature dependent Raman spectroscopy of chemically derived few layer MoS ₂ and WS ₂ nanosheets. Applied Physics Letters, 2014, 104, .	1.5	180
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63	First-principles investigation of the bulk and low-index surfaces of MoSe_2 . Physical Review B, 2014, 89, .	1.0	102
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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.	10.8	183
66	Recent Development of Molybdenum Sulfides as Advanced Electrocatalysts for Hydrogen Evolution Reaction. ACS Catalysis, 2014, 4, 1693-1705.	5.5	769
67	Ultrathin S-doped MoSe ₂ nanosheets for efficient hydrogen evolution. Journal of Materials Chemistry A, 2014, 2, 5597-5601.	5.2	317
68	High-Performance Chemical Sensing Using Schottky-Contacted Chemical Vapor Deposition Grown Monolayer MoS ₂ Transistors. ACS Nano, 2014, 8, 5304-5314.	7.3	610
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74	Highly efficient and stable DSSCs of wet-chemically synthesized MoS ₂ counter electrode. <i>Dalton Transactions</i> , 2014, 43, 5256-5259.	1.6	77
75	Hanoi Tower-like Multilayered Ultrathin Palladium Nanosheets. <i>Nano Letters</i> , 2014, 14, 7188-7194.	4.5	122
76	Unconventional Pore and Defect Generation in Molybdenum Disulfide: Application in High-Rate Lithium-Ion Batteries and the Hydrogen Evolution Reaction. <i>ChemSusChem</i> , 2014, 7, 2489-2495.	3.6	82
77	High Electrochemical Selectivity of Edge versus Terrace Sites in Two-Dimensional Layered MoS ₂ Materials. <i>Nano Letters</i> , 2014, 14, 7138-7144.	4.5	269
78	Understanding the Reactivity of Layered Transition-Metal Sulfides: A Single Electronic Descriptor for Structure and Adsorption. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3884-3889.	2.1	70
79	Self-Supported Cu ₃ P Nanowire Arrays as an Integrated High-Performance Three-Dimensional Cathode for Generating Hydrogen from Water. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9577-9581.	7.2	784
80	Metal Seed Layer Thickness-Induced Transition From Vertical to Horizontal Growth of MoS ₂ and WS ₂ . <i>Nano Letters</i> , 2014, 14, 6842-6849.	4.5	251
81	Self-Supported FeP Nanorod Arrays: A Cost-Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity. <i>ACS Catalysis</i> , 2014, 4, 4065-4069.	5.5	419
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84	Edge-Oriented MoS ₂ Nanoporous Films as Flexible Electrodes for Hydrogen Evolution Reactions and Supercapacitor Devices. <i>Advanced Materials</i> , 2014, 26, 8163-8168.	11.1	552
85	NiP ₂ nanosheet arrays supported on carbon cloth: an efficient 3D hydrogen evolution cathode in both acidic and alkaline solutions. <i>Nanoscale</i> , 2014, 6, 13440-13445.	2.8	400
86	Enhanced Electrocatalytic Activity of MoS ₂ on TCNQ-Treated Electrode for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17679-17685.	4.0	78
87	Single-Layer MoS ₂ with Sulfur Vacancies: Structure and Catalytic Application. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5346-5351.	1.5	260
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90	CVD synthesis of large-area, highly crystalline MoSe ₂ atomic layers on diverse substrates and application to photodetectors. <i>Nanoscale</i> , 2014, 6, 8949.	2.8	418

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94	Three-Dimensional Hierarchical Frameworks Based on MoS_2 Nanosheets Self-Assembled on Graphene Oxide for Efficient Electrocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21534-21540.	4.0	235
95	Enhanced Electrocatalysis for Hydrogen Evolution Reactions from WS_2 Nanoribbons. <i>Advanced Energy Materials</i> , 2014, 4, 1301875.	10.2	128
96	Cobalt Sulfide Nanosheet/Graphene/Carbon Nanotube Nanocomposites as Flexible Electrodes for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12594-12599.	7.2	252
97	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.	5.2	227
98	Valley and spin dynamics in $MoSe_2$ two-dimensional crystals. <i>Nanoscale</i> , 2014, 6, 12690-12695.	2.8	67
99	<i>Operando</i> Synthesis of Macroporous Molybdenum Diselenide Films for Electrocatalysis of the Hydrogen-Evolution Reaction. <i>ACS Catalysis</i> , 2014, 4, 2866-2873.	5.5	122
100	CoP Nanosheet Arrays Supported on a Ti Plate: An Efficient Cathode for Electrochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , 2014, 26, 4326-4329.	3.2	285
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103	Nanometer-Sized MoS_2 Clusters on Graphene Flakes for Catalytic Formic Acid Decomposition. <i>ACS Catalysis</i> , 2014, 4, 3950-3956.	5.5	49
104	Surface Energy Engineering for Tunable Wettability through Controlled Synthesis of MoS_2 . <i>Nano Letters</i> , 2014, 14, 4314-4321.	4.5	258
105	Nanostructured hydrotreating catalysts for electrochemical hydrogen evolution. <i>Chemical Society Reviews</i> , 2014, 43, 6555.	18.7	2,037
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110	Atomically-thin molybdenum nitride nanosheets with exposed active surface sites for efficient hydrogen evolution. <i>Chemical Science</i> , 2014, 5, 4615-4620.	3.7	455
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112	Synthesis and Characterization of Molybdenum(0) and Tungsten(0) Complexes of Tetramethylthiourea: Single-Source Precursors for MoS ₂ and WS ₂ . <i>Organometallics</i> , 2014, 33, 5238-5245.	1.1	20
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123	Electrocatalysis of the hydrogen-evolution reaction by electrodeposited amorphous cobalt selenide films. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13835-13839.	5.2	133
124	Dendritic, Transferable, Strictly Monolayer MoS ₂ Flakes Synthesized on SrTiO ₃ Single Crystals for Efficient Electrocatalytic Applications. <i>ACS Nano</i> , 2014, 8, 8617-8624.	7.3	158
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126	Space-Confined Growth of MoS ₂ Nanosheets within Graphite: The Layered Hybrid of MoS ₂ and Graphene as an Active Catalyst for Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2014, 26, 2344-2353.	3.2	634
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138	Ni ₂ P nanoparticle films supported on a Ti plate as an efficient hydrogen evolution cathode. <i>Nanoscale</i> , 2014, 6, 11031-11034.	2.8	277
139	Growth Mechanism for Single- and Multi-Layer MoS ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22768-22773.	1.5	69
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142	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> , 2014, 263, 181-185.	4.0	83
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144	Equiatomic ternary chalcogenide: PdPS and its reduced graphene oxide composite for efficient electrocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2014, 50, 7359-7362.	2.2	74
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147	Molybdenum Sulfide/N-Doped CNT Forest Hybrid Catalysts for High-Performance Hydrogen Evolution Reaction. <i>Nano Letters</i> , 2014, 14, 1228-1233.	4.5	634
148	Hydrothermal fabrication of porous MoS ₂ and its visible light photocatalytic properties. <i>Materials Letters</i> , 2014, 131, 122-124.	1.3	90
149	Controllable Synthesis of Band-Gap-Tunable and Monolayer Transition-Metal Dichalcogenide Alloys. <i>Frontiers in Energy Research</i> , 2014, 2, .	1.2	84
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154	Three-dimensional Nitrogen-Doped Graphene Supported Molybdenum Disulfide Nanoparticles as an Advanced Catalyst for Hydrogen Evolution Reaction. <i>Scientific Reports</i> , 2015, 5, 17542.	1.6	156
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156	Fullerene-Structured MoSe ₂ Hollow Spheres Anchored on Highly Nitrogen-Doped Graphene as a Conductive Catalyst for Photovoltaic Applications. <i>Scientific Reports</i> , 2015, 5, 13214.	1.6	46
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158	Charge-Transfer Induced High Efficient Hydrogen Evolution of MoS ₂ /graphene Cocatalyst. <i>Scientific Reports</i> , 2015, 5, 18730.	1.6	105
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160	Synthesis and characterization of Mo and W compounds containing aminothiolate ligand for disulfide materials. <i>Polyhedron</i> , 2015, 100, 199-205.	1.0	3
162	Hierarchical Transition-Metal Dichalcogenide Nanosheets for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2015, 27, 7426-7431.	11.1	123
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1301	Mn incorporated MoS ₂ nanoflowers: A high performance electrode material for symmetric supercapacitor. <i>Electrochimica Acta</i> , 2020, 338, 135815.	2.6	68
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