

Targeted Synthesis of 2H and 1T Phase MoS₂ for Hydrogen Evolution

Advanced Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Supercritical CO ₂ -Assisted Reverse-Micelle-Induced Solution-Phase Fabrication of Two-Dimensional Metallic 1T-MoS ₂ and 1T-WS ₂ . ChemNanoMat, 2017, 3, 466-471.	1.5	43
2	Two dimensional MoS ₂ /CNT hybrid ink for paper-based capacitive energy storage. Journal of Materials Science: Materials in Electronics, 2017, 28, 8452-8459.	1.1	33
3	Interlayer expanded molybdenum disulfide nanosheets assembly for electrochemical supercapacitor with enhanced performance. Materials Chemistry and Physics, 2017, 192, 100-107.	2.0	24
4	Highly efficient hydrogen evolution from seawater by a low-cost and stable CoMoP@C electrocatalyst superior to Pt/C. Energy and Environmental Science, 2017, 10, 788-798.	15.6	629
5	Group 6 Layered Transition-Metal Dichalcogenides in Lab-on-a-Chip Devices: 1T-Phase WS ₂ for Microfluidics Non-Enzymatic Detection of Hydrogen Peroxide. Analytical Chemistry, 2017, 89, 4978-4985.	3.2	34
6	Assembling metallic 1T-MoS ₂ nanosheets with inorganic-ligand stabilized quantum dots for exceptional solar hydrogen evolution. Chemical Communications, 2017, 53, 5606-5609.	2.2	39
7	Integrated 3D MoSe ₂ @Ni _{0.85} Se Nanowire Network with Synergistic Cooperation as Highly Efficient Electrocatalysts for Hydrogen Evolution Reaction in Alkaline Medium. Electrochimica Acta, 2017, 246, 712-719.	2.6	69
8	Phase-transformation engineering in MoS ₂ on carbon cloth as flexible binder-free anode for enhancing lithium storage. Journal of Alloys and Compounds, 2017, 716, 112-118.	2.8	66
9	Two-Dimensional 1T-Phase Transition Metal Dichalcogenides as Nanocarriers To Enhance and Stabilize Enzyme Activity for Electrochemical Pesticide Detection. ACS Nano, 2017, 11, 5774-5784.	7.3	109
10	Molybdenum Disulfide-Black Phosphorus Hybrid Nanosheets as a Superior Catalyst for Electrochemical Hydrogen Evolution. Nano Letters, 2017, 17, 4311-4316.	4.5	211
11	Light-Switchable Oxygen Vacancies in Ultrafine Bi ₅ O ₇ Br Nanotubes for Boosting Solar-Driven Nitrogen Fixation in Pure Water. Advanced Materials, 2017, 29, 1701774.	11.1	533
12	Engineering the crystallinity of MoS ₂ monolayers for highly efficient solar hydrogen production. Journal of Materials Chemistry A, 2017, 5, 8591-8598.	5.2	69
13	Highly Efficient, Green, and Scalable β -Cyclodextrin-Assisted Aqueous Exfoliation of Transition Metal Dichalcogenides: MoS ₂ and ReS ₂ Nanoflakes. Chemistry - an Asian Journal, 2017, 12, 1052-1056.	1.7	14
14	Hierarchical NiCo ₂ S ₄ @NiFe LDH Heterostructures Supported on Nickel Foam for Enhanced Overall-Water-Splitting Activity. ACS Applied Materials & Interfaces, 2017, 9, 15364-15372.	4.0	468
15	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. Chemical Reviews, 2017, 117, 6225-6331.	23.0	3,940
16	Controllable Synthesis of Hexagonal WO ₃ Nanoplates for Efficient Visible-Light-Driven Photocatalytic Oxygen Production. Chemistry - an Asian Journal, 2017, 12, 387-391.	1.7	16
17	Defect-Induced Epitaxial Growth for Efficient Solar Hydrogen Production. Nano Letters, 2017, 17, 6676-6683.	4.5	96
18	In Situ Carbon Homogeneous Doping on Ultrathin Bismuth Molybdate: A Dual-Purpose Strategy for Efficient Molecular Oxygen Activation. Advanced Functional Materials, 2017, 27, 1703923.	7.8	136

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19	Superior Photocatalytic H ₂ Production with Cocatalytic Co/Ni Species Anchored on Sulfide Semiconductor. <i>Advanced Materials</i> , 2017, 29, 1703258.	11.1	188
20	Nanocrystalline Co _{0.85} Se Anchored on Graphene Nanosheets as a Highly Efficient and Stable Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30703-30710.	4.0	118
21	A van der Waals Heterojunction Based on Polymer-2D Layered MoS ₂ for Solution Processable Electronics. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21945-21954.	1.5	22
22	Electron-spun 2D MoS ₂ -decorated carbon nanofibers as pseudocapacitive electrode material into lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2017, 728, 767-772.	2.8	15
23	Formation of hybrid nanostructures comprising perovskite (Ba ₅ Nb ₄ O ₁₅)-MoS ₂ ultrathin nanosheets on CdS nanorods: Toward enhanced solar-driven H ₂ production. <i>Journal of Catalysis</i> , 2017, 352, 617-626.	3.1	15
24	Electrochemical maps and movies of the hydrogen evolution reaction on natural crystals of molybdenite (MoS ₂): basal vs. edge plane activity. <i>Chemical Science</i> , 2017, 8, 6583-6593.	3.7	159
25	Multiple Exciton Harvesting at Zero-Dimensional/Two-Dimensional Heterostructures. <i>ACS Energy Letters</i> , 2017, 2, 1879-1885.	8.8	29
26	Horizontally and vertically aligned growth of strained MoS ₂ layers with dissimilar wetting and catalytic behaviors. <i>CrystEngComm</i> , 2017, 19, 5068-5078.	1.3	39
27	1T-Phase Transition Metal Dichalcogenides (MoS ₂ , MoSe ₂ , WS ₂), Tj ETQq0 0 0 rgBT /Overlock 1 Enzyme-Based Biosensor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40697-40706.	4.0	138
28	Aligned and stable metallic MoS ₂ on plasma-treated mass transfer channels for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25359-25367.	5.2	31
29	Heterogeneous Nanostructure Based on 1T-Phase MoS ₂ for Enhanced Electrocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25291-25297.	4.0	202
30	Arrays of ZnO/MoS ₂ nanocables and MoS ₂ nanotubes with phase engineering for bifunctional photoelectrochemical and electrochemical water splitting. <i>Chemical Engineering Journal</i> , 2017, 328, 474-483.	6.6	103
31	A MoS ₂ nanocatalyst with surface-enriched active sites for the heterogeneous transfer hydrogenation of nitroarenes. <i>Chinese Journal of Catalysis</i> , 2018, 39, 79-87.	6.9	24
32	Metallic few-layered VSe ₂ nanosheets: high two-dimensional conductivity for flexible in-plane solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8299-8306.	5.2	89
33	Synergetic Exfoliation and Lateral Size Engineering of MoS ₂ for Enhanced Photocatalytic Hydrogen Generation. <i>Small</i> , 2018, 14, e1704153.	5.2	84
34	Metastable MoS ₂ : Crystal Structure, Electronic Band Structure, Synthetic Approach and Intriguing Physical Properties. <i>Chemistry - A European Journal</i> , 2018, 24, 15942-15954.	1.7	133
35	Efficient Hydrogen Evolution Reaction Catalysis in Alkaline Media by All-in-One MoS ₂ with Multifunctional Active Sites. <i>Advanced Materials</i> , 2018, 30, e1707105.	11.1	321
36	MoS ₂ Quantum Dots@TiO ₂ Nanotube Arrays: An Extended-Spectrum-Driven Photocatalyst for Solar Hydrogen Evolution. <i>ChemSusChem</i> , 2018, 11, 1708-1721.	3.6	77

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37	Study of the layer-dependent properties of MoS ₂ nanosheets with different crystal structures by DFT calculations. <i>Catalysis Science and Technology</i> , 2018, 8, 1867-1879.	2.1	94
38	Atomic Layers of MoO ₂ with Exposed High-Energy (010) Facets for Efficient Oxygen Reduction. <i>Small</i> , 2018, 14, e1703960.	5.2	22
39	Ultrathin Alumina Mask-Assisted Nanopore Patterning on Monolayer MoS ₂ for Highly Catalytic Efficiency in Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8026-8035.	4.0	55
40	Role of Interfaces in Two-Dimensional Photocatalyst for Water Splitting. <i>ACS Catalysis</i> , 2018, 8, 2253-2276.	5.5	773
41	Metallic 1T-Li _x MoS ₂ co-catalyst enhanced photocatalytic hydrogen evolution over ZnIn ₂ S ₄ flowered microspheres under visible light irradiation. <i>Catalysis Science and Technology</i> , 2018, 8, 1375-1382.	2.1	31
42	Small stoichiometric (MoS ₂) _n clusters with the 1T phase. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6365-6373.	1.3	29
43	Chemical Vapor Deposition Growth and Applications of Two-Dimensional Materials and Their Heterostructures. <i>Chemical Reviews</i> , 2018, 118, 6091-6133.	23.0	1,000
44	Engineered MoSe ₂ -Based Heterostructures for Efficient Electrochemical Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018, 8, 1703212.	10.2	152
45	Defect-rich O-incorporated 1T-MoS ₂ nanosheets for remarkably enhanced visible-light photocatalytic H ₂ evolution over CdS: The impact of enriched defects. <i>Applied Catalysis B: Environmental</i> , 2018, 229, 227-236.	10.8	176
46	A Facile Space-Confined Solid-Phase Sulfurization Strategy for Growth of High-Quality Ultrathin Molybdenum Disulfide Single Crystals. <i>Nano Letters</i> , 2018, 18, 2021-2032.	4.5	42
47	Self-assembled pearl-bracelet-like CoSe ₂ -SnSe ₂ /CNT hollow architecture as highly efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1655-1662.	5.2	125
48	Recent development on MoS ₂ -based photocatalysis: A review. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2018, 35, 39-55.	5.6	404
49	Surface step decoration of isolated atom as electron pumping: Atomic-level insights into visible-light hydrogen evolution. <i>Nano Energy</i> , 2018, 45, 109-117.	8.2	118
50	Ultrathin molybdenum disulfide/carbon nitride nanosheets with abundant active sites for enhanced hydrogen evolution. <i>Nanoscale</i> , 2018, 10, 1766-1773.	2.8	57
51	High Yield Exfoliation of WS ₂ Crystals into 1-2 Layer Semiconducting Nanosheets and Efficient Photocatalytic Hydrogen Evolution from WS ₂ /CdS Nanorod Composites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2810-2818.	4.0	112
52	Electrophoretic Deposited Stable Chitosan@MoS ₂ Coating with Rapid In Situ Bacteria-Killing Ability under Dual-Light Irradiation. <i>Small</i> , 2018, 14, e1704347.	5.2	171
53	One-pot synthesis of self-assembled coral-like hierarchical architecture constructed by polymorphic CoSe ₂ nanocrystals as superior electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018, 277, 161-167.	2.6	29
54	Three-Dimensional Nanoporous Heterojunction of Monolayer MoS ₂ @rGO for Photoenhanced Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 2183-2191.	2.5	27

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55	TMD-based highly efficient electrocatalysts developed by combined computational and experimental approaches. <i>Chemical Society Reviews</i> , 2018, 47, 4332-4356.	18.7	232
56	Temperature- and Phase-Dependent Phonon Renormalization in 1T ϵ^2 -MoS ₂ . <i>ACS Nano</i> , 2018, 12, 5051-5058.	7.3	63
57	Ultra-small freestanding amorphous molybdenum sulfide colloidal nanodots for highly efficient photocatalytic hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 446-453.	10.8	63
58	Unilamellar Metallic MoS ₂ /Graphene Superlattice for Efficient Sodium Storage and Hydrogen Evolution. <i>ACS Energy Letters</i> , 2018, 3, 997-1005.	8.8	184
59	Solvothermal synthesis of metallic 1T-WS ₂ : A supporting co-catalyst on carbon nitride nanosheets toward photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2018, 335, 282-289.	6.6	161
60	One-pot synthesis of in situ carbon-decorated Cu ₃ P particles with enhanced electrocatalytic hydrogen evolution performance. <i>Journal of Materials Research</i> , 2018, 33, 546-555.	1.2	29
61	Advanced catalysts for sustainable hydrogen generation and storage via hydrogen evolution and carbon dioxide/nitrogen reduction reactions. <i>Progress in Materials Science</i> , 2018, 92, 64-111.	16.0	195
62	Co stabilized metallic 1Td MoS ₂ monolayers: Bottom-up synthesis and enhanced capacitance with ultra-long cycling stability. <i>Materials Today Energy</i> , 2018, 7, 10-17.	2.5	28
63	Graphene-Like Multilayered CuS Nanosheets Assembled into Flower-Like Microspheres and Their Electrocatalytic Oxygen Evolution Properties. <i>ChemElectroChem</i> , 2018, 5, 494-500.	1.7	53
64	2D heterostructure comprised of metallic 1T-MoS ₂ /Monolayer O-g-C ₃ N ₄ towards efficient photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 379-385.	10.8	231
65	Synthesis, stabilization and applications of 2-dimensional 1T metallic MoS ₂ . <i>Journal of Materials Chemistry A</i> , 2018, 6, 23932-23977.	5.2	250
66	Synthesis of Air-Stable 1T Phase of Molybdenum Disulfide for Efficient Electrocatalytic Hydrogen Evolution. <i>ChemCatChem</i> , 2019, 11, 707-714.	1.8	10
67	Ultrasmall MoO _x Clusters as a Novel Cocatalyst for Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2019, 31, e1804883.	11.1	222
68	Monolayer Attachment of Metallic MoS ₂ on Restacked Titania Nanosheets for Efficient Photocatalytic Hydrogen Generation. <i>ACS Applied Energy Materials</i> , 2018, 1, 6912-6918.	2.5	15
69	Defect Engineering of MoS ₂ and Its Impacts on Electrocatalytic and Photocatalytic Behavior in Hydrogen Evolution Reactions. <i>Chemistry - an Asian Journal</i> , 2019, 14, 278-285.	1.7	39
70	Surface Modulation of Hierarchical MoS ₂ Nanosheets by Ni Single Atoms for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2018, 28, 1807086.	7.8	314
71	Molecular Functionalization of Two-Dimensional MoS ₂ Nanosheets. <i>Chemistry - A European Journal</i> , 2018, 24, 18246-18257.	1.7	73
72	Phase-selective synthesis of 1T ϵ^2 MoS ₂ monolayers and heterophase bilayers. <i>Nature Materials</i> , 2018, 17, 1108-1114.	13.3	348

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73	In-situ temperature and thickness control grown 2D-MoS ₂ via pulsed laser ablation for photovoltaic devices. <i>Solar Energy</i> , 2018, 174, 286-295.	2.9	26
74	Self-assembly optimization of cadmium/molybdenum sulfide hybrids by cation coordination competition toward extraordinarily efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18396-18402.	5.2	22
75	Synergistic modulation in MX ₂ (where M = Mo or W or V, and X = S or Se) for an enhanced hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21847-21858.	5.2	39
76	Synthesis of Particulate Hierarchical Tandem Heterojunctions toward Optimized Photocatalytic Hydrogen Production. <i>Advanced Materials</i> , 2018, 30, e1804282.	11.1	411
77	Differentiating Polymorphs in Molybdenum Disulfide via Electron Microscopy. <i>Advanced Materials</i> , 2018, 30, e1802397.	11.1	75
78	Enhanced sulfurization reaction of molybdenum using a thermal cracker for forming two-dimensional MoS ₂ layers. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16193-16201.	1.3	15
79	Metallic 1T phase MoS ₂ nanosheets decorated hollow cobalt sulfide polyhedra for high-performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12613-12622.	5.2	46
80	Stable multiphasic 1T/2H MoSe ₂ nanosheets integrated with 1D sulfide semiconductor for drastically enhanced visible-light photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 27-37.	10.8	113
81	Multiscale porous molybdenum phosphide of honeycomb structure for highly efficient hydrogen evolution. <i>Nanoscale</i> , 2018, 10, 14594-14599.	2.8	42
82	Crystal-Face Tailored Graphitic Carbon Nitride Films for High-Performance Photoelectrochemical Cells. <i>ChemSusChem</i> , 2018, 11, 2497-2501.	3.6	34
83	Molybdenum disulfide (MoS ₂) as a co-catalyst for photocatalytic degradation of organic contaminants: A review. <i>Chemical Engineering Research and Design</i> , 2018, 118, 40-58.	2.7	121
84	A hidden symmetry-broken phase of MoS ₂ revealed as a superior photovoltaic material. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16087-16093.	5.2	16
85	A metallic MoS ₂ nanosheet array on graphene-protected Ni foam as a highly efficient electrocatalytic hydrogen evolution cathode. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16458-16464.	5.2	33
86	Metallic MoS ₂ for High Performance Energy Storage and Energy Conversion. <i>Small</i> , 2018, 14, e1800640.	5.2	218
87	A comparative study on the photocatalytic degradation of organic dyes using hybridized 1T/2H, 1T/3R and 2H MoS ₂ nano-sheets. <i>RSC Advances</i> , 2018, 8, 26364-26370.	1.7	63
88	2H/1T Phase Transition of Multilayer MoS ₂ by Electrochemical Incorporation of S Vacancies. <i>ACS Applied Energy Materials</i> , 2018, 1, 4754-4765.	2.5	141
89	Self-supported MoS ₂ @NHCF fiber-in-tube composites with tunable voids for efficient hydrogen evolution reaction. <i>Composites Communications</i> , 2018, 9, 86-91.	3.3	34
90	Ultrastable In-Plane 1T/2H MoS ₂ Heterostructures for Enhanced Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018, 8, 1801345.	10.2	409

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91	Synthesis, properties, and optoelectronic applications of two-dimensional MoS ₂ and MoS ₂ -based heterostructures. <i>Chemical Society Reviews</i> , 2018, 47, 6101-6127.	18.7	293
92	Defect- and Phase-Induced Acceleration of Electrocatalytic Hydrogen Production by Ultrathin and Small MoS ₂ -Decorated rGO Sheets. <i>ACS Applied Nano Materials</i> , 2018, 1, 4622-4632.	2.4	33
93	Strain engineering in two-dimensional nanomaterials beyond graphene. <i>Nano Today</i> , 2018, 22, 14-35.	6.2	252
94	Recent advances in the field of transition metal dichalcogenides for biomedical applications. <i>Nanoscale</i> , 2018, 10, 16365-16397.	2.8	147
95	Highly dispersed PtO nanodots as efficient co-catalyst for photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2018, 462, 423-431.	3.1	103
96	Facile synthesis of silk-cocoon S-rich cobalt polysulfide as an efficient catalyst for the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2018, 11, 2467-2475.	15.6	91
97	Stabilized monolayer 1T MoS ₂ embedded in CoOOH for highly efficient overall water splitting. <i>Nanoscale</i> , 2018, 10, 12330-12336.	2.8	33
98	Recent Development of Metallic (1T) Phase of Molybdenum Disulfide for Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1703482.	10.2	317
99	Synergistic effect of mechanical strain and interfacial-chemical interaction for stable 1T-WSe ₂ by carbon nanotube and cobalt. <i>Applied Surface Science</i> , 2019, 496, 143694.	3.1	13
100	Piezo-promoted the generation of reactive oxygen species and the photodegradation of organic pollutants. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 118024.	10.8	84
101	Building a lateral/vertical 1T-2H MoS ₂ /Au heterostructure for enhanced photoelectrocatalysis and surface enhanced Raman scattering. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19922-19928.	5.2	47
102	One-pot synthesized visible-light-responsive MoS ₂ @CdS nanosheets-on-nanospheres for hydrogen evolution from the antibiotic wastewater: Waste to energy insight. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21577-21587.	3.8	26
103	Challenges and recent advancements of functionalization of two-dimensional nanostructured molybdenum trioxide and dichalcogenides. <i>Nanoscale</i> , 2019, 11, 15709-15738.	2.8	27
104	Engineering Multifunctional Collaborative Catalytic Interface Enabling Efficient Hydrogen Evolution in All pH Range and Seawater. <i>Advanced Energy Materials</i> , 2019, 9, 1901333.	10.2	196
105	Effects of active species on degrading A-ring of tetracycline in the Z-scheme heterostructured core-shell La(OH) ₃ @BaTiO ₃ composition. <i>Journal of Alloys and Compounds</i> , 2019, 804, 100-110.	2.8	23
106	C ₃ N ₄ -digested 3D construction of hierarchical metallic phase MoS ₂ nanostructures. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18388-18396.	5.2	26
107	High Phase Purity 1T MoS ₂ Ultrathin Nanosheets by a Spatially Confined Template. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17621-17624.	7.2	109
108	Cu ₂ O/Cu ₂ Se Mixed Phase Nanoflake Arrays: pH Universal Hydrogen Evolution Reactions with Ultralow Overpotential. <i>ChemElectroChem</i> , 2019, 6, 5014-5021.	1.7	8

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109	MoS ₂ confined on graphene by triethanolamine for enhancing electrocatalytic hydrogen evolution performance. International Journal of Hydrogen Energy, 2019, 44, 28151-28162.	3.8	33
110	Simple Te-Thermal Converting 2H to 1T@2H MoS ₂ Homojunctions with Enhanced Supercapacitor Performance. ACS Applied Energy Materials, 2019, 2, 8337-8344.	2.5	22
111	Optimisation study on few layer formations of MoS ₂ thin films by a novel sulfurization method. AIP Conference Proceedings, 2019, , .	0.3	1
112	High Phase Purity 1T MoS ₂ Ultrathin Nanosheets by a Spatially Confined Template. Angewandte Chemie, 2019, 131, 17785-17788.	1.6	67
113	3D Hierarchical N, O Co-Doped MoS ₂ /NiO Hollow Microspheres as Reusable Catalyst for Nitrophenols Reduction. ChemistrySelect, 2019, 4, 9339-9347.	0.7	4
114	Untapped Potential of Polymorph MoS ₂ : Tuned Cationic Intercalation for High-Performance Symmetric Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 33955-33965.	4.0	80
115	Strong interactions in molybdenum disulfide heterostructures boosting the catalytic performance of water splitting: A short review. Nano Materials Science, 2019, 1, 231-245.	3.9	17
116	Revealing the role of the 1T phase on the adsorption of organic dyes on MoS ₂ nanosheets. RSC Advances, 2019, 9, 28345-28356.	1.7	19
117	Phase-Mediated Heavy Metal Adsorption from Aqueous Solutions Using Two-Dimensional Layered MoS ₂ . ACS Applied Materials & Interfaces, 2019, 11, 38789-38797.	4.0	82
118	Synthesis of MoWS ₂ on Flexible Carbon-Based Electrodes for High-Performance Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 37550-37558.	4.0	31
119	Coral-like S-doped CoSe ₂ with enriched 1T-phase as efficient electrocatalyst for hydrogen evolution reaction. Electrochimica Acta, 2019, 322, 134739.	2.6	25
120	Space-confined synthesis of monolayer molybdenum disulfide using tetrathiomolybdate intercalated layered double hydroxide as precursor. Journal of Colloid and Interface Science, 2019, 541, 183-191.	5.0	13
121	Powder exfoliated MoS ₂ nanosheets with highly monolayer-rich structures as high-performance lithium-/sodium-ion-battery electrodes. Nanoscale, 2019, 11, 1887-1900.	2.8	93
122	2D boron dichalcogenides from the substitution of Mo with ionic B pair in MoX ₂ (X = S, Se and Te): high stability, large excitonic effect and high charge carrier mobility. Journal of Materials Chemistry C, 2019, 7, 1651-1658.	2.7	17
123	Controlled Vapor Growth and Nonlinear Optical Applications of Large Area 3R Phase WS ₂ and WSe ₂ Atomic Layers. Advanced Functional Materials, 2019, 29, 1806874.	7.8	92
124	Facile microwave assisted synthesis of vastly edge exposed 1T/2H-MoS ₂ with enhanced activity for hydrogen evolution catalysis. Journal of Materials Chemistry A, 2019, 7, 3563-3569.	5.2	24
125	Aligned Heterointerface-Induced 1T MoS ₂ Monolayer with Near-Ideal Gibbs Free for Stable Hydrogen Evolution Reaction. Small, 2019, 15, e1804903.	5.2	63
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127	Construction of CdS/MoS ₂ heterojunction from core-shell MoS ₂ @Cd-MOF for efficient photocatalytic hydrogen evolution. Dalton Transactions, 2019, 48, 2715-2721.	1.6	60
128	Vertical nanosheet array of 1T phase MoS ₂ for efficient and stable hydrogen evolution. Applied Catalysis B: Environmental, 2019, 246, 296-302.	10.8	122
129	Preparation of MoS ₂ /WS ₂ nanosheets by liquid phase exfoliation with assistance of epigallocatechin gallate and study as an additive for high-performance lithium-sulfur batteries. Journal of Colloid and Interface Science, 2019, 552, 554-562.	5.0	45
130	Rich active-edge-site MoS ₂ anchored on reduction sites in metal sulfide heterostructure: Toward robust visible light photocatalytic hydrogen sulphide splitting. Applied Catalysis B: Environmental, 2019, 256, 117870.	10.8	63
131	Unraveling the Role of Lithium in Enhancing the Hydrogen Evolution Activity of MoS ₂ : Intercalation versus Adsorption. ACS Energy Letters, 2019, 4, 1733-1740.	8.8	45
132	1T-phase MoS ₂ quantum dots as a superior co-catalyst to Pt decorated on carbon nitride nanorods for photocatalytic hydrogen evolution from water. Materials Chemistry Frontiers, 2019, 3, 2032-2040.	3.2	45
133	Role of Sulfur Vacancies and Undercoordinated Mo Regions in MoS ₂ Nanosheets toward the Evolution of Hydrogen. ACS Nano, 2019, 13, 6824-6834.	7.3	402
134	Topological Formation of a Mo-Ni-Based Hollow Structure as a Highly Efficient Electrocatalyst for the Hydrogen Evolution Reaction in Alkaline Solutions. ACS Applied Materials & Interfaces, 2019, 11, 21998-22004.	4.0	56
135	Metallic 1T-phase MoS ₂ quantum dots/g-C ₃ N ₄ heterojunctions for enhanced photocatalytic hydrogen evolution. Nanoscale, 2019, 11, 12266-12274.	2.8	76
136	Photoelectrochemical Hydrogen Evolution and CO ₂ Reduction over MoS ₂ /Si and MoSe ₂ /Si Nanostructures by Combined Photoelectrochemical Deposition and Rapid-Thermal Annealing Process. Catalysts, 2019, 9, 494.	1.6	19
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437	Recent Progress in Phase Regulation, Functionalization, and Biosensing Applications of Polyphase MoS ₂ . <i>Small</i> , 2022, 18, .	5.2	17
438	The nature of K-induced 2H and 1T ^{â€™} -MoS ₂ species and their phase transition behavior for the synthesis of methanethiol (CH ₃ SH). <i>IScience</i> , 2022, 25, 104999.	1.9	5
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441	Metal-cation-directed self-assembly of hierarchical MoS ₂ nanotubes as high-performance anode for Na-ion batteries. <i>Chemical Engineering Science</i> , 2022, 261, 117953.	1.9	0
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447	Photochemically engineered ultra-stable 1T MoS ₂ by flow synthesis. <i>Chemical Communications</i> , 2022, 58, 11929-11932.	2.2	1
448	Selective Electrocatalytic Hydrogenation of Nitroarenes on Interlayer-Expanded MoS ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 13525-13533.	3.2	14
449	Cobalt porphyrin/molybdenum disulfide nanoensembles for light-assisted electrocatalytic water oxidation and selective hydrogen peroxide production. <i>2D Materials</i> , 2023, 10, 014007.	2.0	3
450	2+ ^{â€™} -Dimensional Materials via Atomistic Z ^{â€™} -Welding. <i>Advanced Science</i> , 2022, 9, .	5.6	8
451	Molecular Engineering Strategies toward Molybdenum Diselenide Design for Energy Storage and Conversion. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	12
452	Green approach to synthesize various MoS ₂ nanoparticles via hydrothermal process. <i>Bulletin of Materials Science</i> , 2022, 45, .	0.8	3
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