Molybdenum Disulfide in the Poorly Crystalline "Rag" S

Science 203, 1105-1107 DOI: 10.1126/science.203.4385.1105

Citation Report

#	Article	IF	CITATIONS
1	In situ studies of electrode reactions: The mechanism of lithium intercalation in TiS2. Journal of Solid State Chemistry, 1979, 29, 323-337.	2.9	63
2	Structure and properties of molybdenum sulfide: Correlation of O2 chemisorption with hydrodesulfurization activity*1. Journal of Catalysis, 1980, 63, 515-519.	6.2	234
3	A Comparison of Hydrogen Sorption by Tungsten and Molybdenum Sulphides. Studies in Surface Science and Catalysis, 1981, , 1424-1425.	1.5	3
4	Friction properties of sputtered dichalcogenide layers. Tribology International, 1981, 14, 329-332.	5.9	45
5	In situ M�ssbauer emission spectroscopy studies of unsupported and supported sulfided Co\$z.sbnd;Mo hydrodesulfurization catalysts: Evidence for and nature of a Co\$z.sbnd;Mo\$z.sbnd;S phase. Journal of Catalysis, 1981, 68, 433-452.	6.2	585
6	ESR studies on hydrodesulfurization catalysts: Nickel- or cobalt-promoted sulfided tungsten- or molybdenum-containing catalysts. Journal of Catalysis, 1981, 67, 145-158.	6.2	51
7	Lithium and sodium intercalated dichalcogenides: Properties and electrode applications. Synthetic Metals, 1982, 4, 225-248.	3.9	34
8	Amorphous and Poorly Crystalline Transition Metal Chalcogenides. International Reviews in Physical Chemistry, 1982, 2, 127-165.	2.3	57
9	Electron spin resonance of supported and unsupported molybdenum hydrotreating catalysts I. Model system studies. Journal of Catalysis, 1982, 78, 380-388.	6.2	44
10	Oxygen chemisorption on MoS2 and commercial hydrotreating catalysts. Journal of Catalysis, 1983, 84, 145-155.	6.2	56
11	Electron spin resonance of sulfide catalysts. Journal of Magnetism and Magnetic Materials, 1983, 31-34, 885-886.	2.3	5
12	Hrem and Aem studies of hds catalysts: Direct evidence for the edge location of cobalt in Co-Mo-Sa. Applied Catalysis, 1985, 13, 363-372.	0.8	55
13	High resolution electron microscopy of hydrodesulfurization catalysts: A review. Applied Catalysis, 1985, 16, 135-152.	0.8	95
14	Structure of poorly crystalline MoS2 — A modeling study. Journal of Non-Crystalline Solids, 1986, 79, 251-273.	3.1	168
15	Surface Disorder and Exfoliation in Lithographically Textured Molybdenum Disulfide. Materials Research Society Symposia Proceedings, 1986, 82, 481.	0.1	0
16	Catalysis by transition metal sulfides: A theoretical and experimental study of the relation between the synergic systems and the binary transition metal sulfides. Journal of Catalysis, 1986, 98, 17-31.	6.2	294
17	Single-layer MoS2. Materials Research Bulletin, 1986, 21, 457-461.	5.2	1,195
18	Edge Surfaces in Lithographically Textured Molybdenum Disulfide. Science, 1987, 235, 1629-1631.	12.6	80

#	Article	IF	CITATIONS
19	Direct observation by controlled atmosphere electron microscopy of the changes in morphology of molybdenum oxide and sulfide supported on alumina and graphite. Journal of Catalysis, 1987, 105, 299-318.	6.2	59
20	Recent advances in catalysis over sulphides. Catalysis Today, 1988, 3, 269-365.	4.4	123
21	A new highly active hydrotreating catalyst prepared by the decomposition of thiotungstatonickelate and characterized by high resolution electron microscopy. Polyhedron, 1988, 7, 2405-2409.	2.2	23
22	Structure/Function Relations in Transition Metal Sulfide Catalysts. Studies in Surface Science and Catalysis, 1989, 50, 1-19.	1.5	12
23	Hydrogenation and isomerization of alkadienes on powdered MoSxHy. Journal of Catalysis, 1989, 120, 108-117.	6.2	42
24	Growth of MoS2 and MoS2: Co crystals using I2 as transport material. Journal of Crystal Growth, 1989, 96, 685-690.	1.5	8
25	Computer modelling of a molybdenum disulphide catalyst. Polyhedron, 1989, 8, 1814-1816.	2.2	6
26	Influence of Preparation on the Morphology and Microstructure of Cobalt-Molybdenum Sulphides. Studies in Surface Science and Catalysis, 1989, 50, 91-106.	1.5	2
27	A microstructural investigation of model solid state hydrodesulfurization catalysts. Journal of Solid State Chemistry, 1990, 87, 378-395.	2.9	9
28	Statistical mechanics of randomly polymerized membranes. Physical Review A, 1991, 44, 3525-3542.	2.5	62
29	Polymerized Membranes with Quenched Random Internal Disorder. Europhysics Letters, 1991, 16, 79-84.	2.0	48
30	Curvature disorder in tethered membranes: A new flat phase atT=0. Physical Review A, 1992, 46, 1751-1768.	2.5	32
31	Conformations of Crumpled Sheet Polymers. Materials Research Society Symposia Proceedings, 1992, 272, 301.	0.1	0
32	Crumpled and collapsed conformation in graphite oxide membranes. Nature, 1992, 355, 426-428.	27.8	160
33	Electrochemical studies of disordered MoS2 as cathode material in lithium batteries. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1992, 15, 73-77.	3.5	45
34	Electrochemical properties and cycling performances of composite electrodes in solid state lithium batteries. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1992, 14, 121-126.	3.5	17
35	Hydrodenitrogenation-selective catalysts I. Fe promoted Mo/W sulfides. Journal of Catalysis, 1992, 138, 351-363.	6.2	35
36	Room-temperature oxidation of K2CO3/MoS2 catalysts and its effects on alcohol synthesis from CO and H2. Journal of Catalysis, 1992, 138, 525-535.	6.2	41

#	Article	IF	CITATIONS
37	Intercalation of Li into Single Crystals of MoS2. Materials Research Society Symposia Proceedings, 1993, 327, 65.	0.1	0
38	Fundamental Studies of Transition-Metal Sulfide Catalytic Materials. Advances in Catalysis, 1994, 40, 177-232.	0.2	183
39	Conformations of a Tethered Membrane: Crumpling in Graphitic Oxide?. Physical Review Letters, 1994, 73, 2867-2870.	7.8	105
40	Synergy between the CoMoS Phase and Supported or Unsupported Cobalt Sulfide. Existence of a Remote Control Effect. Bulletin of the Chemical Society of Japan, 1995, 68, 107-119.	3.2	14
41	The effect of coal beneficiation and swelling on liquefaction behavior of Black Thunder coal. Fuel Processing Technology, 1995, 45, 53-67.	7.2	4
42	HREM studies of layered transition metal sulfide catalytic materials. Catalysis Today, 1995, 23, 269-281.	4.4	59
43	Catalytic hydrotreatment of Illinois No. 6 Coalderived naphtha: Comparison of molybdenum nitride and molybdenum sulfide for heteroatom removal. Applied Catalysis A: General, 1995, 123, 229-250.	4.3	25
44	Electron microscopy of catalysts; the present, the future and the hopes. Catalysis Today, 1995, 23, 161-199.	4.4	44
45	Li intercalation across and along the van der Waals surfaces of MoS2(0001). Surface Science, 1995, 338, 83-93.	1.9	138
46	Scaling Properties of Stretching Ridges in a Crumpled Elastic Sheet. Science, 1995, 270, 1482-1485.	12.6	284
47	Hydrotreating Catalysis. , 1996, , 1-269.		438
48	Molecular dynamics simulations of tethered membranes with periodic boundary conditions. Physical Review E, 1996, 53, 1422-1429.	2.1	17
49	STM Investigations of Confined Transition Metal Chalcogenide Colloidal Particles. Materials Research Society Symposia Proceedings, 1996, 464, 213.	0.1	1
50	Electrochemical properties of disordered cathode materials. Ionics, 1996, 2, 169-178.	2.4	23
51	Boundary layer analysis of the ridge singularity in a thin plate. Physical Review E, 1996, 53, 3750-3759.	2.1	117
52	Properties of ridges in elastic membranes. Physical Review E, 1997, 55, 1577-1589.	2.1	115
53	The flat phase of fixed-connectivity membranes. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 746-752.	0.4	24
54	Second row transition metal sulfides for the hydrotreatment of coal-derived naphtha I. Catalyst preparation, characterization and comparison of rate of simultaneous removal of total sulfur,	4.3	60

# 55	ARTICLE Interactions of swelling solvents and catalyst precursors in coal liquefaction systems. Fuel Processing Technology, 1997, 51, 63-81.	IF 7.2	CITATIONS
56	Crystallite Size Determination of Highly Dispersed Unsupported MoS2Catalysts. Journal of Catalysis, 1998, 174, 130-141.	6.2	105
57	Experimental Study of Developable Cones. Physical Review Letters, 1998, 80, 2354-2357.	7.8	76
58	Buckling Dynamics of Tethered Membranes. Materials Research Society Symposia Proceedings, 1998, 543, 169.	0.1	0
59	Crescent singularities and stress focusing in a buckled thin sheet: Mechanics of developable cones. Physical Review E, 1999, 60, 6091-6103.	2.1	25
60	Symmetrical synergism and the role of carbon in transition metal sulfide catalytic materials. Catalysis Today, 1999, 53, 357-366.	4.4	121
61	Tethered membranes far from equilibrium: Buckling dynamics. Physical Review E, 1999, 60, 4377-4384.	2.1	51
62	Buckling Dynamics of Compressed Thin Sheets (Membranes). Physical Review Letters, 1999, 82, 2884-2887.	7.8	44
63	Selective Hydrodesulfurization of FCC Naphtha with Supported MoS2 Catalysts: The Role of Cobalt. Journal of Catalysis, 2000, 193, 123-131.	6.2	78
64	Evolution of crystalline phases in nickel–tungsten sulfide catalysts. Materials Letters, 2000, 43, 1-5.	2.6	8
65	Aqueous Preparation of Highly Dispersed Molybdenum Sulfide. Inorganic Chemistry, 2000, 39, 5416-5417.	4.0	61
66	Intercalation compounds for advanced lithium batteries. , 2001, , 99-184.		12
67	Dynamics of the Euler Buckling Instability. Materials Research Society Symposia Proceedings, 2001, 672, 1.	0.1	0
68	The statistical mechanics of membranes. Physics Reports, 2001, 344, 255-308.	25.6	173
69	Hydrothermal Synthesis of MoS2 and Its Pressure-Related Crystallization. Journal of Solid State Chemistry, 2001, 159, 170-173.	2.9	136
70	Polymerized Membranes, a Review**The author has won the Physics Prize of the Academy of Science in Göettingen. Phase Transitions and Critical Phenomena, 2001, , 253-480.	1.2	12
71	Tube- and ball-like amorphous MoS2 prepared by a solvothermal method. Materials Chemistry and Physics, 2002, 73, 327-329.	4.0	47
72	Low temperature synthesis and characterization of molybdenum disulfide nanotubes and nanorods. Materials Chemistry and Physics, 2004, 87, 87-90.	4.0	110

#	Article	IF	CITATIONS
73	Simple solution route to uniform MoS2 particles with randomly stacked layers. Materials Research Bulletin, 2004, 39, 981-986.	5.2	25
74	Growth of molybdenum disulphide using iodine as transport material. Pramana - Journal of Physics, 2004, 63, 611-616.	1.8	14
75	Activation of tetraalkylammonium thiotungstates for the preparation of Ni-promoted WS2 catalysts. Applied Catalysis A: General, 2004, 266, 29-40.	4.3	30
76	Structural studies of catalytically stabilized model and industrial-supported hydrodesulfurization catalysts. Journal of Catalysis, 2004, 225, 288-299.	6.2	89
77	Inorganic nanotubes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2099-2125.	3.4	181
78	Nanotubes and Nanowires. , 2005, , 208-284.		33
80	A facile route to synthesis of MoS2 nanorods. Materials Letters, 2005, 59, 3452-3455.	2.6	59
81	Scaling behavior of tethered crumpled manifolds with inner dimension close to : Resumming the perturbation theory. Nuclear Physics B, 2005, 711, 530-564.	2.5	2
82	Clusterâ^'Support Interactions and Morphology of MoS2Nanoclusters in a Graphite-Supported Hydrotreating Model Catalyst. Journal of the American Chemical Society, 2006, 128, 13950-13958.	13.7	172
83	Inorganic nanotubes and fullerene-like nanoparticles. Journal of Materials Research, 2006, 21, 2726-2743.	2.6	69
84	Synthesis of Ni–Mo–W sulphide catalysts by ex situ decomposition of trimetallic precursors. Applied Catalysis A: General, 2006, 304, 124-130.	4.3	32
85	Synthesis and structural characterization of molybdenum sulfide tubulenes. Solar Energy Materials and Solar Cells, 2006, 90, 813-824.	6.2	7
86	Catalytic Properties of Single Layers of Transition Metal Sulfide Catalytic Materials. Catalysis Reviews - Science and Engineering, 2006, 48, 1-41.	12.9	270
87	Ni(Co)-Mo-W sulphide unsupported HDS catalysts by ex situ decomposition of alkylthiomolybdotungstates. Applied Catalysis A: General, 2006, 308, 134-142.	4.3	49
88	Single-Step Synthesis and Surface-Assisted Growth of Superconducting TaS2 Nanowires. Angewandte Chemie - International Edition, 2006, 45, 7060-7063.	13.8	30
89	Studies of Molybdenum Disulfide Nanostructures Prepared by AACVD Using Single-Source Precursors. Chemical Vapor Deposition, 2006, 12, 597-599.	1.3	35
91	Glassy Conformations in Wrinkled Membranes. Physical Review Letters, 2006, 96, 078101.	7.8	34
92	Inorganic Nanotubes and Fullerene-Like Structures (IF). Topics in Applied Physics, 2007, , 631-671.	0.8	47

#	Article	IF	CITATIONS
93	Synthesis and characterization of 1,2,3,4 tetrahydroquinoline intercalated into MoS2 in search of cleaner fuels. Journal of Materials Research, 2007, 22, 2747-2757.	2.6	4
94	Structure, dynamics, and phase transitions of tethered membranes: A Monte Carlo simulation study. Journal of Chemical Physics, 2007, 127, 194903.	3.0	11
95	WS2Breeds with Carbon to Create a Wormlike Nanostructure and Assembly:  Reaction of W(CO)6with S under Autogenic Pressure at Elevated Temperature under Inert Atmosphere. Journal of Physical Chemistry C, 2007, 111, 134-140.	3.1	27
96	Syntheses and Characterizations of Bismuth Nanofilms and Nanorhombuses by the Structure-Controlling Solventless Method. Inorganic Chemistry, 2007, 46, 586-591.	4.0	49
98	Study on influence of catalysts on product distribution during liquefaction of Pakistani coal. Energy Conversion and Management, 2007, 48, 2502-2507.	9.2	12
99	Inorganic fullerenes and nanotubes: Wealth of materials and morphologies. European Physical Journal: Special Topics, 2007, 149, 71-101.	2.6	34
100	Regular hexagonal MoS2 microflakes grown from MoO3 precursor. Applied Physics A: Materials Science and Processing, 2007, 89, 783-788.	2.3	15
101	Synthesis, characterization and cyclohexene hydrogenation activity of high surface area molybdenum disulfide catalysts. Catalysis Letters, 2007, 113, 170-175.	2.6	18
102	Synthetic approaches to the molybdenum sulfide materials. Comptes Rendus Chimie, 2008, 11, 159-182.	0.5	105
103	Solution synthesis of the unsupported Ni–W sulfide hydrotreating catalysts. Catalysis Today, 2008, 130, 24-31.	4.4	48
104	Impact of preparation method and support modification on the activity of mesoporous hydrotreating CoMo catalysts. Applied Catalysis A: General, 2008, 348, 30-41.	4.3	23
105	Nanotubes in Minerals and Mineral-Related Systems. , 2008, , 179-191.		7
106	Hydrothermal synthesis of hollow MoS2 microspheres in ionic liquids/water binary emulsions. Materials Letters, 2008, 62, 3558-3560.	2.6	46
107	Adsorption of self-avoiding tethered membranes: A Monte Carlo simulation study. Journal of Chemical Physics, 2008, 129, 215103.	3.0	3
108	Pressure dependence electrical resistivity in DVT grown molybdenum dichalcogenides. High Pressure Research, 2008, 28, 133-140.	1.2	11
109	Atomic-Scale Structure of Mo ₆ S ₆ Nanowires. Nano Letters, 2008, 8, 3928-3931.	9.1	68
110	Numerical investigation of isolated crescent singularity. Physical Review E, 2008, 77, 056602.	2.1	3
111	Synthesis and Characterization of Hexamethylenediammonium Thiometallates as Precursors of MoS2 and WS2 Catalysts: In situ Activation During HDS of DBT. Catalysis Letters, 2009, 130, 318-326.	2.6	12

#	Article	IF	CITATIONS
112	Structure, Dynamic Properties, and Phase Transitions of Tethered Membranes. Annals of the New York Academy of Sciences, 2009, 1161, 397-406.	3.8	1
113	Topological crossovers in the forced folding of self-avoiding matter. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1780-1790.	2.6	14
114	Unsupported transition metal sulfide catalysts: 100 years of science and application. Catalysis Today, 2009, 147, 275-286.	4.4	206
115	Unsupported Ni-Mo-W sulphide HDS catalysts with the varying nickel concentration. Applied Catalysis A: General, 2009, 363, 45-51.	4.3	39
116	Controlled preparation of unsupported binary and ternary sulfides with high surface area from tetraalkylammonium thiosalts. Journal of Physics and Chemistry of Solids, 2010, 71, 642-646.	4.0	11
117	Surfactant-assisted fabrication of MoS2 nanospheres. Journal of Materials Science, 2010, 45, 182-187.	3.7	47
118	Synthesis of WS2 nanosheets by a novel mechanical activation method. Materials Letters, 2010, 64, 856-858.	2.6	37
119	On the Role of Promoter Atoms in Unsupported Hydrodesulfurization Catalysts: Influence of Preparation Methods. Bulletin Des Sociétés Chimiques Belges, 1981, 90, 1225-1232.	0.0	85
120	Deep Hydroconversion of Heavy Oil Residues with Dispersed Catalysts: Analysis of the Transformation. Bulletin Des Sociétés Chimiques Belges, 1995, 104, 359-366.	0.0	7
122	Mismatch Strain versus Dangling Bonds: Formation of "Coinâ€Roll Nanowires―by Stacking Nanosheets. Angewandte Chemie - International Edition, 2010, 49, 3301-3305.	13.8	14
123	Preparation of MoS2 nanoflakes by a novel mechanical activation method. Journal of Crystal Growth, 2010, 312, 340-343.	1.5	39
124	Study of induction period over K2CO3/MoS2 catalyst for higher alcohols synthesis. Fuel Processing Technology, 2010, 91, 383-387.	7.2	37
125	Superconducting tantalum disulfide nanotapes; growth, structure and stoichiometry. Nanoscale, 2010, 2, 90-97.	5.6	18
127	Synthesis of MoS ₂ Nanosheets by Solid-State Reaction in CVD Furnace. Integrated Ferroelectrics, 2011, 128, 125-129.	0.7	8
128	Chapter 2. Inorganic Nanotubes. RSC Nanoscience and Nanotechnology, 2011, , 243-342.	0.2	0
129	Nanocrystalline MoS2 through directional growth along the (0 0 2) crystal plane under high pressure. Materials Chemistry and Physics, 2011, 130, 170-174.	4.0	15
130	A novel route for the synthesis of nanotubes and fullerene-like nanostructures of molybdenum disulfide. Materials Research Bulletin, 2011, 46, 2240-2246.	5.2	20
131	Preparation of unsupported Ni–Mo–S catalysts for hydrodesulfurization of dibenzothiophene by thermal decomposition of tetramethylammonium thiomolybdates. Catalysis Today, 2011, 175, 460-466.	4.4	34

#	Article	IF	CITATIONS
132	The Effect of CO Pretreatment on Fe/ADM Catalyst for Higher Alcohols Synthesis from Syngas. Advanced Materials Research, 0, 347-353, 3772-3776.	0.3	0
133	Shapes of hydrophobic thick membranes. Europhysics Letters, 2012, 98, 56006.	2.0	0
134	HRTEM and molecular modeling of the MoS ₂ –Co ₉ S ₈ interface: understanding the promotion effect in bulk HDS catalysts. Catalysis Science and Technology, 2012, 2, 164-178.	4.1	143
135	Unsupported MoS2 and CoMoS2 catalysts for hydrodeoxygenation of phenol. Chemical Engineering Science, 2012, 79, 1-7.	3.8	115
136	Synthesis of MoS ₂ /C Submicrosphere by PVP-Assisted Hydrothermal Method for Lithium Ion Battery. Advanced Materials Research, 0, 531, 471-477.	0.3	5
137	â€~Ship-in-a-Bottle' Synthesis of MoS2/MCM-41 Catalysts by Decomposition of Single Source Precursor in Mesoporous Channel. Catalysis Letters, 2012, 142, 854-859.	2.6	0
138	Curved nanostructures of unsupported and Al2O3-supported MoS2 catalysts: Synthesis and HDS catalytic properties. Applied Catalysis A: General, 2012, 429-430, 92-105.	4.3	58
139	Surfactantâ€assisted hydrothermal synthesis and tribological properties of flowerâ€like MoS ₂ nanostructures. Micro and Nano Letters, 2013, 8, 164-168.	1.3	28
140	Effect of sulfidation temperature on the catalytic activity of MoO3/CeO2–Al2O3 toward sulfur-resistant methanation. Applied Catalysis A: General, 2013, 466, 224-232.	4.3	31
141	Aqueous Medium Synthesis Route for Randomly Stacked Molybdenum Disulfide. Journal of Nanoparticles, 2013, 2013, 1-10.	1.4	27
142	Catalysts for Hydrogenations, Dehydrogenations and Metathesis. , 2014, , 345-374.		6
143	CoMoW sulfide nanocatalysts for the HDS of DBT from novel ammonium and alkyltrimethylammonium-thiomolybdate-thiotungstate-cobaltate (II) precursors. Applied Catalysis A: General, 2014, 486, 62-68.	4.3	18
144	Nanoscale Transition Metal Dichalcogenides: Structures, Properties, and Applications. Critical Reviews in Solid State and Materials Sciences, 2014, 39, 319-367.	12.3	125
145	Rippling and crumpling in disordered free-standing graphene. Physical Review B, 2015, 92, .	3.2	36
146	Facile synthesis and electrochemical properties of MoS2 nanostructures with different lithium storage properties. RSC Advances, 2015, 5, 48492-48499.	3.6	21
147	Unsupported trimetallic CoMoW sulfide HDS catalysts prepared by in situ decomposition of sulfur-containing precursors. Catalysis Today, 2015, 250, 28-37.	4.4	20
148	A facile and low-cost synthesis of MoS2 for hydrodeoxygenation of phenol. Catalysis Communications, 2015, 68, 31-35.	3.3	47
149	Hydrothermal synthesis and characterization of 3D flower-like MoS2 microspheres. Materials Letters, 2015, 148, 67-70.	2.6	123

#	Article	IF	CITATIONS
150	A New Molybdenum Nitride Catalyst with Rhombohedral MoS ₂ Structure for Hydrogenation Applications. Journal of the American Chemical Society, 2015, 137, 4815-4822.	13.7	195
151	In Situ Formation of a MoS ₂ â€Based Inorganic–Organic Nanocomposite by Directed Thermal Decomposition. Chemistry - A European Journal, 2015, 21, 8918-8925.	3.3	7
152	Graphene–MoS2 composite: Hydrothermal synthesis and catalytic property in hydrodesulfurization of dibenzothiophene. Catalysis Communications, 2015, 72, 180-184.	3.3	25
153	MoS2 catalysts derived from n-methylenediammonium thiomolybdates during HDS of DBT. Catalysis Today, 2015, 250, 66-71.	4.4	7
154	Protein-induced ultrathin molybdenum disulfide (MoS ₂) flakes for a water-based lubricating system. RSC Advances, 2016, 6, 113315-113321.	3.6	26
155	Colloidal Synthesis of Uniform‣ized Molybdenum Disulfide Nanosheets for Wafer‣cale Flexible Nonvolatile Memory. Advanced Materials, 2016, 28, 9326-9332.	21.0	151
156	Metal Sulfides: Novel Synthesis Methods and Recent Developments. , 2016, , 313-360.		9
157	Facile synthesis of Mo 0.91 W 0.09 S 2 ultrathin nanosheets/amorphous carbon composites for lithium-ion battery anode. Ceramics International, 2016, 42, 7803-7809.	4.8	11
158	Trimetallic NiMoW sulfide catalysts by the thermal decomposition of thiosalt blends for the hydrodesulfurization of dibenzothiophene. Reaction Kinetics, Mechanisms and Catalysis, 2017, 121, 593-605.	1.7	12
159	Acceptorless Dehydrogenative Coupling of Neat Alcohols Using Group VI Sulfide Catalysts. ACS Sustainable Chemistry and Engineering, 2017, 5, 4890-4896.	6.7	16
160	Deoxygenation of palm kernel oil to jet fuel-like hydrocarbons using Ni-MoS 2 / γ -Al 2 O 3 catalysts. Energy Conversion and Management, 2017, 134, 188-196.	9.2	82
161	Inorganic Nanotubes and Fullerene-like Nanoparticles at the Crossroads between Solid-State Chemistry and Nanotechnology. Journal of the American Chemical Society, 2017, 139, 12865-12878.	13.7	52
162	A Novel Flakes-Like Structure of Molybdenum Disulphide Modified Glassy Carbon Electrode for the Efficient Electrochemical Detection of Dopamine. International Journal of Electrochemical Science, 2017, 12, 9288-9300.	1.3	17
163	Effects of Pressure and Temperature in Hydrothermal Preparation of MoS2 Catalyst for Methanation Reaction. Catalysis Letters, 2018, 148, 1803-1814.	2.6	15
164	High-temperature solvent-free sulfidation of MoO ₃ confined in a polypyrrole shell: MoS ₂ nanosheets encapsulated in a nitrogen, sulfur dual-doped carbon nanoprism for efficient lithium storage. Nanoscale, 2018, 10, 7536-7543.	5.6	35
165	Anomalous elasticity, fluctuations and disorder in elastic membranes. Annals of Physics, 2018, 392, 340-410.	2.8	73
166	The particular characteristics of the active sites of MoS2, WS2 catalysts in thiophene hydrodesulfurization. Reaction Kinetics, Mechanisms and Catalysis, 2018, 124, 61-74.	1.7	6
167	Application of Uniform Design Method in the Optimization of Hydrothermal Synthesis for Nano MoS2 Catalyst with High HDS Activity. Catalysts, 2018, 8, 654.	3.5	8

#	Article	IF	CITATIONS
168	Using light, X-rays and electrons for evaluation of the nanostructure of layered materials. Nanoscale, 2018, 10, 21142-21150.	5.6	15
169	Structure and Dynamics of a Graphene Melt. ACS Nano, 2018, 12, 5427-5435.	14.6	29
170	Gas phase acceptorless dehydrogenative coupling of ethanol over bulk MoS2 and spectroscopic measurement of structural disorder. Journal of Catalysis, 2018, 366, 159-166.	6.2	12
171	Enhanced sulfurâ€resistant methanation performance over MoO ₃ –ZrO ₂ catalyst prepared by solution combustion method. Applied Organometallic Chemistry, 2019, 33, e5022.	3.5	3
172	Impact of the MoS ₂ Starting Material on the Dispersion Quality and Quantity after Liquid Phase Exfoliation. Chemistry of Materials, 2019, 31, 8424-8431.	6.7	23
173	Nanostructured tungsten sulfides: insights into precursor decomposition and the microstructure using X-ray scattering methods. Dalton Transactions, 2019, 48, 1184-1201.	3.3	19
174	Hydrothermal synthesis of two-dimensional MoS2 and its applications. Tungsten, 2019, 1, 59-79.	4.8	45
175	The unexpected effect of vacancies and wrinkling on the electronic properties of MoS ₂ layers. Physical Chemistry Chemical Physics, 2019, 21, 24731-24739.	2.8	5
176	Size-controlled MoS ₂ nanosheet through ball milling exfoliation: parameter optimization, structural characterization and electrocatalytic application. Nanotechnology, 2020, 31, 075704.	2.6	24
177	Morphology, microstructure, coordinative unsaturation, and hydrogenation activity of unsupported MoS2: How idealized models fail to describe a real sulfide material. Applied Catalysis B: Environmental, 2020, 266, 118623.	20.2	10
178	Cobaltâ€promoted MoS ₂ nanosheets: A promising novel diesel hydrodesulfurization catalyst. International Journal of Chemical Kinetics, 2020, 52, 159-166.	1.6	8
179	Isobutane Dehydrogenation over Bulk and Supported Molybdenum Sulfide Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 1113-1122.	3.7	18
180	Metal telluride nanotubes: Synthesis, and applications. Materials Chemistry and Physics, 2020, 256, 123691.	4.0	16
181	Lithium Batteries: 50 Years of Advances to Address the Next 20 Years of Climate Issues. Nano Letters, 2020, 20, 8435-8437.	9.1	89
182	Unsupported CoNixMo sulfide hydrodesulfurization catalysts prepared by the thermal decomposition of trimetallic tetrabutylammonium thiomolybdate: effect of nickel on sulfur removal. Reaction Kinetics, Mechanisms and Catalysis, 2020, 131, 187-198.	1.7	6
183	MoS2 nanostructured materials for electrode modification in the development of a laccase based amperometric biosensor for non-invasive dopamine detection. Microchemical Journal, 2020, 155, 104792.	4.5	32
184	Effect of Lanthanum Doping on the reactivity of unsupported CoMoS2 catalysts. Applied Catalysis A: General, 2021, 611, 117891.	4.3	5
185	Critical review: hydrothermal synthesis of 1T-MoS ₂ – an important route to a promising material. Journal of Materials Chemistry A, 2021, 9, 9451-9461.	10.3	37

#	Article	IF	CITATIONS
186	Inorganic nanotubes for water treatment through adsorption and photocatalytic degradation. , 2021, , 417-429.		0
187	Exciting Opportunities for Solid-State 95Mo NMR Studies of MoS2 Nanostructures in Materials Research from a Low to an Ultrahigh Magnetic Field (35.2 T). Journal of Physical Chemistry C, 2021, 125, 7824-7838.	3.1	1
188	Hydrodesulfurization of dibenzothiophene using novel unsupported FeMoS catalysts prepared by in-situ activation from Fe (III)-containing thiomolybdate salts. Reaction Kinetics, Mechanisms and Catalysis, 2021, 133, 1027-1044.	1.7	3
189	Microscopic and atomistic mechanisms of sliding friction of MoS2: Effects of undissociated and dissociated H2O. Applied Surface Science, 2021, 563, 150270.	6.1	18
190	Materials for electrodes: Amorphous and thin-films. Kluwer International Series in Engineering and Computer Science, 1994, , 513-578.	0.2	3
191	Compound Crystals. , 2013, , 605-638.		2
192	Crl3 magnetic nanotubes: A comparative DFT and DFT+U study, and strain effect. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 123, 114205.	2.7	12
193	Inorganic Nanotubes and Fullerene-Like Materials of Metal Dichalcogenide and Related Layered Compounds. Advanced Materials and Technologies, 2006, , 135-155.	0.4	2
194	Morphology and Catalytic Performance of MoS2 Hydrothermally Synthesized at Various pH Values. Catalysts, 2021, 11, 1229.	3.5	12
195	Inorganic Nanotubes and Fullerene- Like Materials of Metal Dichalcogenide and Related Layered Compounds. , 2006, , .		2
197	Cycling performances of composite electrodes in solid state lithium batteries. , 1992, , 69-75.		0
198	Properties of disordered MoS2 as cathode material in lithium electrochemical cells. , 1992, , 49-54.		0
199	Materials for Electrodes: Crystalline Compounds. Kluwer International Series in Engineering and Computer Science, 1994, , 369-511.	0.2	0
200	An Overview of Surface Analysis. Application to the Adsorption of Li on Single Crystals of Layered Compounds. , 1995, , 115-131.		0
201	Twoâ€step hydrothermal preparation of poor crystalline MoS 2 and its enhanced performance for dibenzothiophene hydrodesulphurisation. Micro and Nano Letters, 2020, 15, 662-665.	1.3	1
202	CHAPTER 4. Inorganic Nanotubes. RSC Nanoscience and Nanotechnology, 2021, , 240-356.	0.2	0
203	Synthesis of the Elusive Doublewall Nanotubes and Nanocones(Horns) of MoS ₂ via Focused Solar Ablation. Advanced Materials Interfaces, 2023, 10, .	3.7	2
204	A Metal–Organic Frameworks Derived 1Tâ€MoS ₂ with Expanded Layer Spacing for Enhanced Electrocatalytic Hydrogen Evolution. Small, 2023, 19, .	10.0	15

#	Article	IF	CITATIONS
205	Sustainable synthesis of SiS2 for solid-state electrolytes by cascaded metathesis. Materials Today Communications, 2023, 35, 105574.	1.9	4
206	The Dynamic Interaction of Surfactants with Colloidal Molybdenum Disulfide Nanosheets Calls for Thermodynamic Stabilization by Solvents. Langmuir, 2023, 39, 6568-6579.	3.5	0
207	Composites of transition metal dichalcogenides and topological insulators as catalytic materials for HER. Journal of Energy Storage, 2023, 68, 107719.	8.1	2
208	A bibliometric analysis of molybdenum-based nanomaterials in the biomedical field. Tungsten, 2024, 6, 17-47.	4.8	2
209	Modulating Crystallization of MoS ₂ Nanostructures by Dimethyl Sulfoxide for Enhanced Hydrodesulfurization. ACS Applied Nano Materials, 2023, 6, 21752-21762.	5.0	0
210	Temperature-Dependent Frictional Behavior of MoS ₂ in Humid Environments: Insights from Water Molecule Adsorption and DFT Analyses. ACS Applied Materials & Interfaces, 2024, 16, 13267-13281.	8.0	0
211	Superlubricity via operando formation of MoS2/S8 heterojunctions on steel surface with amorphous carbon protection. Nano Energy, 2024, 123, 109404.	16.0	0