

Lithium ion battery applications of molybdenum disulfide nanocomposites

Energy and Environmental Science

7, 209-231

DOI: [10.1039/c3ee42591f](https://doi.org/10.1039/c3ee42591f)

Citation Report

#	ARTICLE	IF	CITATIONS
2	One-Pot Method for Synthesizing Spherical-Like Metal Sulfide-Reduced Graphene Oxide Composite Powders with Superior Electrochemical Properties for Lithium-Ion Batteries. Chemistry - A European Journal, 2014, 20, 12183-12189.	1.7	36
3	Hierarchical MoS ₂ Shells Supported on Carbon Spheres for Highly Reversible Lithium Storage. Chemistry - A European Journal, 2014, 20, 5219-5223.	1.7	164
4	Enhanced Lithium Storage Performance from Three-Dimensional MoS ₂ Nanosheets/Carbon Nanotube Paper. ChemElectroChem, 2014, 1, 1118-1125.	1.7	43
5	Ab initio characterization of layered MoS ₂ as anode for sodium-ion batteries. Journal of Power Sources, 2014, 268, 279-286.	4.0	377
6	Nanostructured transition metal sulfides for lithium ion batteries: Progress and challenges. Nano Today, 2014, 9, 604-630.	6.2	545
8	Effects of graphene on MoO ₂ -MoS ₂ composite as anode material for lithium-ion batteries. Journal of Electroceramics, 2014, 33, 239-245.	0.8	16
9	Superior electrochemical properties of MoS ₂ powders with a MoS ₂ @void@MoS ₂ configuration. Nanoscale, 2014, 6, 4508.	2.8	41
10	Layered transition metal dichalcogenides for electrochemical energy generation and storage. Journal of Materials Chemistry A, 2014, 2, 8981-8987.	5.2	552
11	Hierarchical MoS ₂ nanosheet/active carbon fiber cloth as a binder-free and free-standing anode for lithium-ion batteries. Nanoscale, 2014, 6, 5351-5358.	2.8	197
12	Pre-lithiation of onion-like carbon/MoS ₂ nano-urchin anodes for high-performance rechargeable lithium ion batteries. Nanoscale, 2014, 6, 8884-8890.	2.8	93
13	A binder-free CNT network-MoS ₂ composite as a high performance anode material in lithium ion batteries. Chemical Communications, 2014, 50, 3338-3340.	2.2	111
14	Optical Properties of Triangular Molybdenum Disulfide Nanoflakes. Journal of Physical Chemistry Letters, 2014, 5, 3636-3640.	2.1	35
15	Origin of the Phase Transition in Lithiated Molybdenum Disulfide. ACS Nano, 2014, 8, 11447-11453.	7.3	111
16	Atomic-Scale Clarification of Structural Transition of MoS ₂ upon Sodium Intercalation. ACS Nano, 2014, 8, 11394-11400.	7.3	355
17	Synthesis of Strongly Fluorescent Molybdenum Disulfide Nanosheets for Cell-Targeted Labeling. ACS Applied Materials & Interfaces, 2014, 6, 19888-19894.	4.0	73
18	Direct determination of the local Hamaker constant of inorganic surfaces based on scanning force microscopy. Journal of Chemical Physics, 2014, 141, 164707.	1.2	26
19	Carbon Nanofibers Decorated with Molybdenum Disulfide Nanosheets: Synergistic Lithium Storage and Enhanced Electrochemical Performance. Angewandte Chemie - International Edition, 2014, 53, 11552-11556.	7.2	326
20	Spontaneous exfoliation and tailoring of MoS ₂ in mixed solvents. Chemical Communications, 2014, 50, 15936-15939.	2.2	113

#	ARTICLE	IF	CITATIONS
21	Ab initio study of graphene-like monolayer molybdenum disulfide as a promising anode material for rechargeable sodium ion batteries. <i>RSC Advances</i> , 2014, 4, 43183-43188.	1.7	88
22	A graphene-like MoS ₂ /graphene nanocomposite as a highperformance anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13109-13115.	5.2	238
23	Highly concentrated MoS ₂ nanosheets in water achieved by thioglycolic acid as stabilizer and used as biomarkers. <i>RSC Advances</i> , 2014, 4, 42936-42941.	1.7	66
24	Hemin-functionalized MoS ₂ nanosheets: enhanced peroxidase-like catalytic activity with a steady state in aqueous solution. <i>RSC Advances</i> , 2014, 4, 24256.	1.7	70
25	Nanocups-on-microtubes: a unique host towards high-performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15191-15199.	5.2	23
26	The dopamine-VI complexation-assisted large-scale aqueous synthesis of a single-layer MoS ₂ /carbon sandwich structure for ultrafast, long-life lithium-ion batteries. <i>Chemical Communications</i> , 2014, 50, 9672-9675.	2.2	69
27	Two-dimensional layered semiconductor/graphene heterostructures for solar photovoltaic applications. <i>Nanoscale</i> , 2014, 6, 12682-12689.	2.8	105
28	High-performance hydrogen evolution electrocatalysis by layer-controlled MoS ₂ nanosheets. <i>RSC Advances</i> , 2014, 4, 34733-34738.	1.7	58
29	Core-Shell Structure of Hierarchical Quasi-Hollow MoS ₂ Microspheres Encapsulated Porous Carbon as Stable Anode for Li-ion Batteries. <i>Small</i> , 2014, 10, 4975-4981.	5.2	181
30	Fabrication of 3D Hierarchical MoS ₂ /Polyaniline and MoS ₂ /C Architectures for Lithium-Ion Battery Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14644-14652.	4.0	369
31	Gemini surfactant assisted hydrothermal synthesis of nanotile-like MoS ₂ /graphene hybrid with enhanced lithium storage performance. <i>Nano Energy</i> , 2014, 10, 144-152.	8.2	113
32	Atomic Layer Deposited MoS ₂ as a Carbon and Binder Free Anode in Li-ion Battery. <i>Electrochimica Acta</i> , 2014, 146, 706-713.	2.6	73
33	Nanometer-Sized MoS ₂ Clusters on Graphene Flakes for Catalytic Formic Acid Decomposition. <i>ACS Catalysis</i> , 2014, 4, 3950-3956.	5.5	49
34	N-doped graphene/porous g-C ₃ N ₄ nanosheets supported layered-MoS ₂ hybrid as robust anode materials for lithium-ion batteries. <i>Nano Energy</i> , 2014, 8, 157-164.	8.2	234
35	Alternating Misfit Layered Transition/Alkaline Earth Metal Chalcogenide Ca ₃ Co ₄ O ₉ as a New Class of Chalcogenide Materials for Hydrogen Evolution. <i>Chemistry of Materials</i> , 2014, 26, 4130-4136.	3.2	68
36	Fabrication of Ultralong Hybrid Microfibers from Nanosheets of Reduced Graphene Oxide and Transition-Metal Dichalcogenides and their Application as Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12576-12580.	7.2	119
37	High electrochemical performance based on the TiO ₂ nanobelt@few-layered MoS ₂ structure for lithium-ion batteries. <i>Nanoscale</i> , 2014, 6, 12350-12353.	2.8	78
38	New Horizons for Conventional Lithium Ion Battery Technology. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3313-3324.	2.1	224

#	ARTICLE	IF	CITATIONS
39	Synthesis of copper tin sulfide/reduced graphene oxide composites and their electrochemical properties for lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 143, 305-311.	2.6	41
40	Graphene-based nanocomposite anodes for lithium-ion batteries. <i>Nanoscale</i> , 2014, 6, 11528-11552.	2.8	151
41	Sulfur Refines MoO ₂ Distribution Enabling Improved Lithium Ion Battery Performance. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18387-18396.	1.5	100
42	Layer-by-Layer Hybrids of MoS ₂ and Reduced Graphene Oxide for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2014, 147, 392-400.	2.6	129
43	Rational design of MoS ₂ @graphene nanocables: towards high performance electrode materials for lithium ion batteries. <i>Energy and Environmental Science</i> , 2014, 7, 3320-3325.	15.6	218
44	Improved electrode fabrication method to enhance performance and stability of MoS ₂ -based lithium-ion battery anode. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2701-2708.	1.2	14
45	Molybdenum Disulfide Quantum Dots as a Photoluminescence Sensing Platform for 2,4,6-Trinitrophenol Detection. <i>Analytical Chemistry</i> , 2014, 86, 7463-7470.	3.2	365
46	Hierarchical MoSe ₂ shell microspheres with superior Na-ion storage properties. <i>Nanoscale</i> , 2014, 6, 10511.	2.8	227
47	Thin MoS ₂ Nanoflakes Encapsulated in Carbon Nanofibers as High-Performance Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6392-6398.	4.0	157
48	First-principles study of van der Waals interactions in MoS ₂ and MoO ₃ . <i>Journal of Physics Condensed Matter</i> , 2014, 26, 305502.	0.7	45
49	An experimental and computational study to understand the lithium storage mechanism in molybdenum disulfide. <i>Nanoscale</i> , 2014, 6, 10243-10254.	2.8	103
50	Graphene, inorganic graphene analogs and their composites for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12104.	5.2	251
51	Preparation of carbon coated MoS ₂ flower-like nanostructure with self-assembled nanosheets as high-performance lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7862.	5.2	226
52	Production of few-layer MoS ₂ nanosheets through exfoliation of liquid N ₂ -quenched bulk MoS ₂ . <i>RSC Advances</i> , 2014, 4, 15586-15589.	1.7	29
53	Coaxial growth of carbon coated MoS ₂ nanoparticles on carbon nanotube and their electrochemical evaluation. <i>Materials Letters</i> , 2014, 130, 240-244.	1.3	17
54	Synthesis and structure of two-dimensional transition-metal dichalcogenides. <i>MRS Bulletin</i> , 2015, 40, 566-576.	1.7	43
55	Two-Dimensional Transition Metal Dichalcogenides in Biosystems. <i>Advanced Functional Materials</i> , 2015, 25, 5086-5099.	7.8	306
56	Mesoporous Carbon Nanofibers Embedded with MoS ₂ Nanocrystals for Extraordinary Li ⁺ Ion Storage. <i>Chemistry - A European Journal</i> , 2015, 21, 18248-18257.	1.7	25

#	ARTICLE	IF	CITATIONS
57	Polystyrene-templated Aerosol Synthesis of MoS ₂ -Amorphous Carbon Composite with Open Macropores as Battery Electrode. <i>ChemSusChem</i> , 2015, 8, 2260-2267.	3.6	32
58	Electronic, Structural, and Electrochemical Modulation of Electrostatic Self-Assembled 1T-MoS ₂ Nanosheets via Topotactic Structural Conversion. <i>E-Journal of Surface Science and Nanotechnology</i> , 2015, 13, 1-7.	0.1	0
59	2D Monolayer MoS ₂ -Carbon Interoverlapped Superstructure: Engineering Ideal Atomic Interface for Lithium Ion Storage. <i>Advanced Materials</i> , 2015, 27, 3687-3695.	11.1	504
60	Firework-shaped TiO ₂ microspheres embedded with few-layer MoS ₂ as an anode material for excellent performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6392-6401.	5.2	104
61	Nanoarchitectonics: a new materials horizon for nanotechnology. <i>Materials Horizons</i> , 2015, 2, 406-413.	6.4	270
62	Template synthesis of hollow MoS ₂ -carbon nanocomposites using microporous organic polymers and their lithium storage properties. <i>Nanoscale</i> , 2015, 7, 11280-11285.	2.8	38
63	MoS ₂ ultrathin nanosheets obtained under a high magnetic field for lithium storage with stable and high capacity. <i>Nanoscale</i> , 2015, 7, 10925-10930.	2.8	21
64	Three-Dimensional Crumpled Reduced Graphene Oxide/MoS ₂ Nanoflowers: A Stable Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12625-12630.	4.0	183
65	Reversible reduction of Li ₂ CO ₃ . <i>Journal of Materials Chemistry A</i> , 2015, 3, 14173-14177.	5.2	80
66	Enhanced Li ⁺ storage properties of few-layered MoS ₂ -C composite microspheres embedded with Si nanopowder. <i>Nano Research</i> , 2015, 8, 2492-2502.	5.8	27
67	Fe ₃ O ₄ @MoS ₂ Core-Shell Composites: Preparation, Characterization, and Catalytic Application. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13658-13664.	1.5	137
68	Carbonaceous photonic crystals as ultralong cycling anodes for lithium and sodium batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13786-13793.	5.2	19
69	Adsorption and Diffusion of Lithium on Monolayer Transition Metal Dichalcogenides (MoS ₂ (1-x)/Se ₂ (x) Alloys. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28648-28653.	1.5	76
70	Computational Chemistry Analysis of Hydrodesulfurization Reactions Catalyzed by Molybdenum Disulfide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 29157-29170.	1.5	21
71	Two-Dimensional MnO ₂ as a Better Cathode Material for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28783-28788.	1.5	98
72	Synthesis, Crystal Structure, and Colloidal Dispersions of Vanadium Tetrasulfide (VS ₄). <i>Chemistry - A European Journal</i> , 2015, 21, 4639-4645.	1.7	76
73	Evaluating Pristine and Modified SnS ₂ as a Lithium-Ion Battery Anode: A First-Principles Study. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4000-4009.	4.0	75
74	One-pot synthesis of nitrogen and sulfur co-doped graphene supported MoS ₂ as high performance anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 177, 298-303.	2.6	47

#	ARTICLE	IF	CITATIONS
75	Improved high temperature integration of Al ₂ O ₃ on MoS ₂ by using a metal oxide buffer layer. Applied Physics Letters, 2015, 106, .	1.5	31
76	Cobalt Oxide-Carbon Nanosheet Nanoarchitecture as an Anode for High-Performance Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2015, 7, 2882-2890.	4.0	101
77	Role of Chemical Potential in Flake Shape and Edge Properties of Monolayer MoS ₂ . Journal of Physical Chemistry C, 2015, 119, 4294-4301.	1.5	178
78	Nanostructured Mo-based electrode materials for electrochemical energy storage. Chemical Society Reviews, 2015, 44, 2376-2404.	18.7	599
79	First-Principles Investigation of Transition Metal Dichalcogenide Nanotubes for Li and Mg Ion Battery Applications. Journal of Physical Chemistry C, 2015, 119, 4302-4311.	1.5	47
80	Millisecond Laser Ablation of Molybdenum Target in Reactive Gas toward MoS ₂ Fullerene-Like Nanoparticles with Thermally Stable Photoresponse. ACS Applied Materials & Interfaces, 2015, 7, 1949-1954.	4.0	18
82	Cylindrical nanostructured MoS ₂ directly grown on CNT composites for lithium-ion batteries. Nanoscale, 2015, 7, 3404-3409.	2.8	86
83	Atomic Force Microscopy Studies on Molybdenum Disulfide Flakes as Sodium-Ion Anodes. Nano Letters, 2015, 15, 1018-1024.	4.5	113
84	Synthesis and properties of molybdenum disulphide: from bulk to atomic layers. RSC Advances, 2015, 5, 7495-7514.	1.7	288
85	Facile Synthesis of Mesoporous MoS ₂ @TiO ₂ Nanofibers for Ultrastable Lithium Ion Battery Anodes. ChemElectroChem, 2015, 2, 374-381.	1.7	51
86	Hybrid Fibers Made of Molybdenum Disulfide, Reduced Graphene Oxide, and Multi-Walled Carbon Nanotubes for Solid-State, Flexible, Asymmetric Supercapacitors. Angewandte Chemie - International Edition, 2015, 54, 4651-4656.	7.2	334
87	Structural, optical and electrostatic properties of single and few-layers MoS ₂ : effect of substrate. 2D Materials, 2015, 2, 015005.	2.0	80
88	Reductive hybridization route with exfoliated graphene oxide and MoS ₂ nanosheets to efficient electrode materials. Electrochimica Acta, 2015, 176, 188-196.	2.6	15
89	Aligned carbon nanotube/molybdenum disulfide hybrids for effective fibrous supercapacitors and lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 17553-17557.	5.2	103
90	Hierarchical MoS ₂ @rGO nanosheets with high MoS ₂ loading with enhanced electro-catalytic performance. Applied Surface Science, 2015, 358, 152-158.	3.1	103
91	Two-Dimensional, Ordered, Double Transition Metals Carbides (MXenes). ACS Nano, 2015, 9, 9507-9516.	7.3	1,395
92	Morphology engineering of monolayer MoS ₂ by adjusting chemical environment during growth. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 74, 292-296.	1.3	10
93	MoS ₂ architectures supported on graphene foam/carbon nanotube hybrid films: highly integrated frameworks with ideal contact for superior lithium storage. Journal of Materials Chemistry A, 2015, 3, 17534-17543.	5.2	51

#	ARTICLE	IF	CITATIONS
94	Electrochemical verification of the redox mechanism of FeS ₂ in a rechargeable lithium battery. <i>Electrochimica Acta</i> , 2015, 176, 784-789.	2.6	43
95	In Situ Synthesis of Carbon Nanotube Hybrids with Alternate MoC and MoS ₂ to Enhance the Electrochemical Activities of MoS ₂ . <i>Nano Letters</i> , 2015, 15, 5268-5272.	4.5	84
96	Exfoliated semiconducting pure 2H-MoS ₂ and 2H-WS ₂ assisted by chlorosulfonic acid. <i>Chemical Communications</i> , 2015, 51, 12950-12953.	2.2	127
97	In Situ Study of Lithiation and Delithiation of MoS ₂ Nanosheets Using Electrochemical Liquid Cell Transmission Electron Microscopy. <i>Nano Letters</i> , 2015, 15, 5214-5220.	4.5	135
98	A three-dimensionally interconnected carbon nanotube/layered MoS ₂ nanohybrid network for lithium ion battery anode with superior rate capacity and long-cycle-life. <i>Nano Energy</i> , 2015, 16, 10-18.	8.2	155
99	Electrochemical properties of MnS@C and MnO@C composite powders prepared via spray drying process. <i>Journal of Power Sources</i> , 2015, 295, 9-15.	4.0	36
100	Ultrafast synthesis of MoS ₂ or WS ₂ -reduced graphene oxide composites via hybrid microwave annealing for anode materials of lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 295, 228-234.	4.0	82
101	Reciprocal hybridization of MoO ₃ nanoparticles and few-layer MoS ₂ for stable lithium-ion batteries. <i>Chemical Communications</i> , 2015, 51, 13838-13841.	2.2	67
102	Probing the biocompatibility of MoS ₂ nanosheets by cytotoxicity assay and electrical impedance spectroscopy. <i>Nanotechnology</i> , 2015, 26, 315102.	1.3	92
103	Characterization of MoS ₂ @Graphene Composites for High-Performance Coin Cell Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17388-17398.	4.0	388
104	MoS ₂ nanosheets decorated with gold nanoparticles for rechargeable Li@O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14562-14566.	5.2	107
105	Synthesis, properties and applications of 2D non-graphene materials. <i>Nanotechnology</i> , 2015, 26, 292001.	1.3	101
106	Facile synthesis of 3D few-layered MoS ₂ coated TiO ₂ nanosheet core@shell nanostructures for stable and high-performance lithium-ion batteries. <i>Nanoscale</i> , 2015, 7, 12895-12905.	2.8	85
107	Lignin-assisted exfoliation of molybdenum disulfide in aqueous media and its application in lithium ion batteries. <i>Nanoscale</i> , 2015, 7, 9919-9926.	2.8	79
108	Micro@MoS ₂ with Excellent Reversible Sodium@ion Storage. <i>Chemistry - A European Journal</i> , 2015, 21, 6465-6468.	1.7	55
109	Research Progress on Negative Electrodes for Practical Li@ion Batteries: Beyond Carbonaceous Anodes. <i>Advanced Energy Materials</i> , 2015, 5, 1402225.	10.2	415
110	Ultrathin few-layered molybdenum selenide/graphene hybrid with superior electrochemical Li-storage performance. <i>Journal of Power Sources</i> , 2015, 285, 274-280.	4.0	81
111	Wetting of Mono and Few-Layered WS ₂ and MoS ₂ Films Supported on Si/SiO ₂ Substrates. <i>ACS Nano</i> , 2015, 9, 3023-3031.	7.3	186

#	ARTICLE	IF	CITATIONS
112	Interlayer-Expanded Molybdenum Disulfide Nanocomposites for Electrochemical Magnesium Storage. <i>Nano Letters</i> , 2015, 15, 2194-2202.	4.5	357
113	MoS ₂ /Graphene Hybrid Nanoflowers with Enhanced Electrochemical Performances as Anode for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7959-7968.	1.5	133
114	A flexible free-standing defect-rich MoS ₂ /graphene/carbon nanotube hybrid paper as a binder-free anode for high-performance lithium ion batteries. <i>RSC Advances</i> , 2015, 5, 43130-43140.	1.7	55
115	Porous tremella-like MoS ₂ /polyaniline hybrid composite with enhanced performance for lithium-ion battery anodes. <i>Electrochimica Acta</i> , 2015, 167, 132-138.	2.6	70
116	All-solid-state MoS ₂ /Li ₆ PS ₅ Br/In ⁺ Li batteries as a novel type of Li/S battery. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10698-10702.	5.2	76
117	MoS ₂ Nanoparticles Decorating Titanate-Nanotube Surfaces: Combined Microscopy, Spectroscopy, and Catalytic Studies. <i>Langmuir</i> , 2015, 31, 5469-5478.	1.6	55
118	Layer-Dependent Dopant Stability and Magnetic Exchange Coupling of Iron-Doped MoS ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7534-7541.	4.0	90
119	Facile scalable synthesis and superior lithium storage performance of ball-milled MoS ₂ @graphite nanocomposites. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10466-10470.	5.2	34
120	3D porous hybrids of defect-rich MoS ₂ /graphene nanosheets with excellent electrochemical performance as anode materials for lithium ion batteries. <i>RSC Advances</i> , 2015, 5, 34777-34787.	1.7	57
121	Emerging energy applications of two-dimensional layered transition metal dichalcogenides. <i>Nano Energy</i> , 2015, 18, 293-305.	8.2	236
122	Tin Disulfide Nanoflowers versus Nanosheets as Anodes in Lithium-ion Batteries: How the Nanostructure Controls Performance. <i>Electrochimica Acta</i> , 2015, 184, 239-249.	2.6	22
123	Nanoprobe characterization of MoS ₂ nanosheets fabricated by Li-intercalation. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 08LB07.	0.8	6
124	Nanoscale Mapping of Layer-Dependent Surface Potential and Junction Properties of CVD-Grown MoS ₂ Domains. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20136-20142.	1.5	54
125	Engineering Vertical Aligned MoS ₂ on Graphene Sheet Towards Thin Film Lithium Ion Battery. <i>Electrochimica Acta</i> , 2015, 178, 476-483.	2.6	50
126	Multi-slice nanostructured WS ₂ @rGO with enhanced Li-ion battery performance and a comprehensive mechanistic investigation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29824-29833.	1.3	51
127	From Dispersed Microspheres to Interconnected Nanospheres: Carbon-Sandwiched Monolayered MoS ₂ as High-Performance Anode of Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22927-22934.	4.0	69
128	Vanadium Nitride Nanowire Supported SnS ₂ Nanosheets with High Reversible Capacity as Anode Material for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23205-23215.	4.0	115
129	Synthesis and sensor applications of MoS ₂ -based nanocomposites. <i>Nanoscale</i> , 2015, 7, 18364-18378.	2.8	202

#	ARTICLE	IF	CITATIONS
130	MoS ₂ Nanosheets Hosted in Polydopamine-Derived Mesoporous Carbon Nanofibers as Lithium-Ion Battery Anodes: Enhanced MoS ₂ Capacity Utilization and Underlying Mechanism. ACS Applied Materials & Interfaces, 2015, 7, 24279-24287.	4.0	65
131	Generalized synthesis and evaluation of formation mechanism of metal oxide/sulphide@C hollow spheres. Journal of Materials Chemistry A, 2015, 3, 20297-20304.	5.2	18
132	Fabrication of defect-rich MoS ₂ ultrathin nanosheets for application in lithium-ion batteries and supercapacitors. Journal of Materials Chemistry A, 2015, 3, 19445-19454.	5.2	175
133	Flexible transition metal dichalcogenide nanosheets for band-selective photodetection. Nature Communications, 2015, 6, 8063.	5.8	192
134	A new approach to synthesize MoO ₂ @C for high-rate lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 21314-21320.	5.2	72
135	Hollow-in-Hollow Carbon Spheres for Lithium-ion Batteries with Superior Capacity and Cyclic Performance. Electrochimica Acta, 2015, 186, 436-441.	2.6	28
136	Two-dimensional graphene analogues for biomedical applications. Chemical Society Reviews, 2015, 44, 2681-2701.	18.7	786
137	Glucose-assisted synthesis of the hierarchical TiO ₂ nanowire@MoS ₂ nanosheet nanocomposite and its synergistic lithium storage performance. Journal of Materials Chemistry A, 2015, 3, 2762-2769.	5.2	142
138	Chemical Vapor Synthesized WS ₂ -Embedded Polystyrene-derived Porous Carbon as Superior Long-term Cycling Life Anode Material for Li-ion Batteries. Electrochimica Acta, 2015, 153, 49-54.	2.6	33
139	Enhanced field emission and photocatalytic performance of MoS ₂ titania nanoheterojunctions via two synthetic approaches. Dalton Transactions, 2015, 44, 1664-1672.	1.6	43
140	In Situ Investigations of Li ⁺ @MoS ₂ with Planar Batteries. Advanced Energy Materials, 2015, 5, 1401742.	10.2	87
141	MoS ₂ -reduced graphene oxide composites via microwave assisted synthesis for sodium ion battery anode with improved capacity and cycling performance. Electrochimica Acta, 2015, 153, 55-61.	2.6	170
142	Electrochemical Sensors and Biosensors Based on Nanomaterials and Nanostructures. Analytical Chemistry, 2015, 87, 230-249.	3.2	1,220
143	Guest-host interactions and their impacts on structure and performance of nano-MoS ₂ . Nanoscale, 2015, 7, 637-641.	2.8	47
144	Fate and Transport of Molybdenum Disulfide Nanomaterials in Sand Columns. Environmental Engineering Science, 2015, 32, 163-173.	0.8	19
145	Synthesis of nano-TiO ₂ -decorated MoS ₂ nanosheets for lithium ion batteries. New Journal of Chemistry, 2015, 39, 683-688.	1.4	48
146	Ternary MoS ₂ /SiO ₂ /graphene hybrids for high-performance lithium storage. Carbon, 2015, 81, 203-209.	5.4	53
147	An Advanced MoS ₂ /Carbon Anode for High-Performance Sodium-Ion Batteries. Small, 2015, 11, 473-481.	5.2	390

#	ARTICLE	IF	CITATIONS
148	Exfoliated MoS ₂ in Water without Additives. PLoS ONE, 2016, 11, e0154522.	1.1	98
149	Carbon-Infused MoS ₂ Supported on TiO ₂ Nanosheet Arrays for Intensified Anodes in Lithium Ion Batteries. Electrochimica Acta, 2016, 212, 59-67.	2.6	21
150	Three-dimensional nanotubes composed of carbon-anchored ultrathin MoS ₂ nanosheets with enhanced lithium storage. Physical Chemistry Chemical Physics, 2016, 18, 19792-19797.	1.3	18
151	Nanoscale Engineering of Heterostructured Anode Materials for Boosting Lithium-ion Storage. Advanced Materials, 2016, 28, 7580-7602.	11.1	224
152	Lösungsprozessierte MoS ₂ -Nanoplättchen: Herstellung, Hybridisierung und Anwendungen. Angewandte Chemie, 2016, 128, 8960-8984.	1.6	52
153	Synthesis of MoS ₂ @C Nanotubes Via the Kirkendall Effect with Enhanced Electrochemical Performance for Lithium Ion and Sodium Ion Batteries. Small, 2016, 12, 2484-2491.	5.2	192
154	Exploring Anatase TiO ₂ Nanofibers as New Cathode for Constructing 1.6 V Class "Rocking-Chair"-Type Li-ion Cells. Particle and Particle Systems Characterization, 2016, 33, 306-310.	1.2	13
155	Hydrazine-Assisted Liquid Exfoliation of MoS ₂ for Catalytic Hydrodeoxygenation of 4-Methylphenol. Chemistry - A European Journal, 2016, 22, 2910-2914.	1.7	52
156	Review "Two-Dimensional Layered Materials for Energy Storage Applications. ECS Journal of Solid State Science and Technology, 2016, 5, Q3021-Q3025.	0.9	68
157	A review of the development of full cell lithium-ion batteries: The impact of nanostructured anode materials. Nano Research, 2016, 9, 2823-2851.	5.8	198
158	Solution-Processed Two-Dimensional MoS ₂ Nanosheets: Preparation, Hybridization, and Applications. Angewandte Chemie - International Edition, 2016, 55, 8816-8838.	7.2	557
159	Carbon encapsulated nanosheet-assembled MoS ₂ nanospheres with highly reversible lithium storage. Chemical Engineering Journal, 2016, 304, 511-517.	6.6	30
160	Synthesis of MoS ₂ nanoparticles using MoO ₃ nanobelts as precursor via a PVP-assisted hydrothermal method. Materials Letters, 2016, 182, 347-350.	1.3	29
161	Hierarchical Nanocomposite of Hollow N-Doped Carbon Spheres Decorated with Ultrathin WS ₂ Nanosheets for High-Performance Lithium-Ion Battery Anode. ACS Applied Materials & Interfaces, 2016, 8, 18841-18848.	4.0	131
162	Synthesis of Highly Uniform Molybdenum "Glycerate Spheres and Their Conversion into Hierarchical MoS ₂ Hollow Nanospheres for Lithium-ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 7423-7426.	7.2	288
163	Synthesis of Highly Uniform Molybdenum "Glycerate Spheres and Their Conversion into Hierarchical MoS ₂ Hollow Nanospheres for Lithium-ion Batteries. Angewandte Chemie, 2016, 128, 7549-7552.	1.6	32
164	A MoS ₂ coating strategy to improve the comprehensive electrochemical performance of LiVPO ₄ F. Journal of Power Sources, 2016, 315, 294-301.	4.0	83
165	In Situ Fabrication of CoS and NiS Nanomaterials Anchored on Reduced Graphene Oxide for Reversible Lithium Storage. ACS Applied Materials & Interfaces, 2016, 8, 14488-14493.	4.0	63

#	ARTICLE	IF	CITATIONS
166	High-quality molybdenum disulfide nanosheets with 3D structure for electrochemical sensing. <i>Applied Surface Science</i> , 2016, 385, 63-71.	3.1	27
167	Facile synthesis of hierarchical MoS ₂ carbon microspheres as a robust anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9653-9660.	5.2	73
168	MoS ₂ Enhanced T-Phase Stabilization and Tunability Through Alloying. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2304-2309.	2.1	54
169	Elemental Sulfur and Molybdenum Disulfide Composites for Li-S Batteries with Long Cycle Life and High-Rate Capability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13437-13448.	4.0	108
170	Ultrafast Li-storage of MoS ₂ nanosheets grown on metal-organic framework-derived microporous nitrogen-doped carbon dodecahedrons. <i>Journal of Power Sources</i> , 2016, 324, 1-7.	4.0	53
171	Electrical, Mechanical, and Capacity Percolation Leads to High-Performance MoS ₂ /Nanotube Composite Lithium Ion Battery Electrodes. <i>ACS Nano</i> , 2016, 10, 5980-5990.	7.3	159
172	Hybrid two-dimensional materials in rechargeable battery applications and their microscopic mechanisms. <i>Chemical Society Reviews</i> , 2016, 45, 4042-4073.	18.7	194
173	A facile one-step method to produce MoS ₂ quantum dots as promising bio-imaging materials. <i>RSC Advances</i> , 2016, 6, 25605-25610.	1.7	54
174	Strongly coupled MoS ₂ 3D graphene materials for ultrafast charge slow discharge LIBs and water splitting applications. <i>Energy Storage Materials</i> , 2016, 4, 84-91.	9.5	55
175	Transition from Diffusion-Controlled Intercalation into Extrinsic Pseudocapacitive Charge Storage of MoS ₂ by Nanoscale Heterostructuring. <i>Advanced Energy Materials</i> , 2016, 6, 1501115.	10.2	185
176	Novel hydrothermal synthesis of MoS ₂ nanocluster structure for sensitive electrochemical detection of human and environmental hazardous pollutant 4-aminophenol. <i>RSC Advances</i> , 2016, 6, 40399-40407.	1.7	32
177	Fabrication of ultra-high energy and power asymmetric supercapacitors based on hybrid 2D MoS ₂ /graphene oxide composite electrodes: a binder-free approach. <i>RSC Advances</i> , 2016, 6, 43261-43271.	1.7	41
178	Facile synthesis of CoNi ₂ S ₄ one-dimensional nanorods as anode for high performance lithium ion batteries. <i>Materials Letters</i> , 2016, 176, 87-90.	1.3	21
179	Active sites-enriched hierarchical MoS ₂ nanotubes: highly active and stable architecture for boosting hydrogen evolution and lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7565-7572.	5.2	44
180	Preparation of a Sn@SnO ₂ @C@MoS ₂ composite as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7185-7189.	5.2	91
181	In-situ Formation of Ni ₃ S ₂ Interlayer between MoS ₂ and Ni Foam for High-rate and Highly-durable Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2016, 206, 52-60.	2.6	22
182	Electrochemical Intercalation of Lithium Ions into NbSe ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11390-11395.	4.0	56
183	Multi-layered mesh-like MoS ₂ hierarchical nanostructure fabricated on Ti foil: An efficient noble metal-free photocatalyst for visible-light-driven H ₂ evolution from water. <i>Catalysis Communications</i> , 2016, 82, 7-10.	1.6	15

#	ARTICLE	IF	CITATIONS
184	Monolayer black phosphorus as potential anode materials for Mg-ion batteries. <i>Journal of Materials Science</i> , 2016, 51, 7355-7360.	1.7	51
185	High rate lithium-ion batteries from hybrid hollow spheres with a few-layered MoS ₂ -entrapped carbon sheath synthesized by a space-confined reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10425-10434.	5.2	63
186	Combining Nitrogen-Doped Graphene Sheets and MoS ₂ : A Unique Film-Foam-Film Structure for Enhanced Lithium Storage. <i>Angewandte Chemie</i> , 2016, 128, 12975-12980.	1.6	44
187	Electrochemical Behavior of Layered Vanadium Oxychloride in Rechargeable Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2326-A2332.	1.3	10
188	Combining Nitrogen-Doped Graphene Sheets and MoS ₂ : A Unique Film-Foam-Film Structure for Enhanced Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12783-12788.	7.2	172
189	Aligned MoO _x /MoS ₂ Core-Shell Nanotubular Structures with a High Density of Reactive Sites Based on Self-Ordered Anodic Molybdenum Oxide Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12252-12256.	7.2	100
190	Electrocatalysis of layered Group 5 metallic transition metal dichalcogenides (MX ₂ , M = Tj ETQq0 0 0,rgBT /Overlock 10 Tf	5.2	218
191	Two-dimensional hybrid nanosheets of few layered MoSe ₂ on reduced graphene oxide as anodes for long-cycle-life lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15302-15308.	5.2	167
192	Aligned MoO _x /MoS ₂ Core-Shell Nanotubular Structures with a High Density of Reactive Sites Based on Self-Ordered Anodic Molybdenum Oxide Nanotubes. <i>Angewandte Chemie</i> , 2016, 128, 12440-12444.	1.6	14
193	Layered SnS versus SnS ₂ : Valence and Structural Implications on Electrochemistry and Clean Energy Electrocatalysis. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24098-24111.	1.5	85
194	Enhanced supercapacitance of vertically aligned multi-wall carbon nanotube array covered by MoS ₂ nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2451-2456.	0.7	11
195	Molecular level distribution of black phosphorus quantum dots on nitrogen-doped graphene nanosheets for superior lithium storage. <i>Nano Energy</i> , 2016, 30, 347-354.	8.2	107
196	Controlled Synthesis of Core-Shell Carbon@MoS ₂ Nanotube Sponges as High-Performance Battery Electrodes. <i>Advanced Materials</i> , 2016, 28, 10175-10181.	11.1	145
197	Lamellar MoSe ₂ nanosheets embedded with MoO ₂ nanoparticles: novel hybrid nanostructures promoted excellent performances for lithium ion batteries. <i>Nanoscale</i> , 2016, 8, 17902-17910.	2.8	143
198	Preparation of three-dimensional nanosheet-based molybdenum disulfide nanotubes as anode materials for lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17000-17008.	5.2	40
199	Growth parameter enhancement for MoS ₂ thin films synthesized by pulsed laser deposition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016, 13, 848-854.	0.8	9
200	Scalable synthesis of high-quality transition metal dichalcogenide nanosheets and their application as sodium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17370-17380.	5.2	72
201	Dimensional Effects of MoS ₂ Nanoplates Embedded in Carbon Nanofibers for Bifunctional Li and Na Insertion and Conversion Reactions. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26758-26768.	4.0	62

#	ARTICLE	IF	CITATIONS
202	Emerging Applications of 2D TMDCs. Springer Series in Materials Science, 2016, , 473-512.	0.4	3
203	Molybdenum Disulfide-Coated Lithium Vanadium Fluorophosphate Anode: Experiments and First-Principles Calculations. ChemSusChem, 2016, 9, 2122-2128.	3.6	25
204	Self-Supported Lithium Titanium Oxide Nanosheet Arrays Decorated with Molybdenum Disulfide for High-Performance Lithium-Ion Batteries. Energy Technology, 2016, 4, 1420-1426.	1.8	11
205	Synthesis of core-shell TiO ₂ @MoS ₂ composites for lithium-ion battery anodes. Journal of Alloys and Compounds, 2016, 689, 460-467.	2.8	36
206	Rational design and synthesis of 3D MoS ₂ hierarchy with tunable nanosheets and 2H/1T phase within graphene for superior lithium storage. Electrochimica Acta, 2016, 211, 1048-1055.	2.6	24
207	One-step fabrication of large-area ultrathin MoS ₂ nanofilms with high catalytic activity for photovoltaic devices. Nanoscale, 2016, 8, 16017-16025.	2.8	51
208	A facile synthesis method and electrochemical studies of a hierarchical structured MoS ₂ /C-nanocomposite. RSC Advances, 2016, 6, 76084-76092.	1.7	21
209	Tuning of electronic states and magnetic polarization in monolayered MoS ₂ by codoping with transition metals and nonmetals. Journal of Materials Science, 2016, 51, 9514-9525.	1.7	24
210	Scalable Patterning of MoS ₂ Nanoribbons by Micromolding in Capillaries. ACS Applied Materials & Interfaces, 2016, 8, 20993-21001.	4.0	23
211	Interlayer expanded MoS ₂ enabled by edge effect of graphene nanoribbons for high performance lithium and sodium ion batteries. Carbon, 2016, 109, 461-471.	5.4	114
212	Thermally fabricated MoS ₂ -graphene hybrids as high performance anode in lithium ion battery. Materials Chemistry and Physics, 2016, 183, 383-391.	2.0	27
213	Liquid Phase Exfoliated MoS ₂ Nanosheets Percolated with Carbon Nanotubes for High Volumetric/Areal Capacity Sodium-Ion Batteries. ACS Nano, 2016, 10, 8821-8828.	7.3	258
214	PEG-mediated hydrothermal synthesis of hierarchical microspheres of MoS ₂ nanosheets and their potential for lubrication application. Journal of Industrial and Engineering Chemistry, 2016, 42, 87-94.	2.9	55
215	Molybdenum disulfide nanosheet embedded three-dimensional vertically aligned carbon nanotube arrays for extremely-excellent cycling stability lithium-ion anodes. RSC Advances, 2016, 6, 80320-80327.	1.7	13
216	In Situ Electrochemically Derived Nanoporous Oxides from Transition Metal Dichalcogenides for Active Oxygen Evolution Catalysts. Nano Letters, 2016, 16, 7588-7596.	4.5	186
217	Dopamine-Induced Formation of Ultrasmall Few-Layer MoS ₂ Homogeneously Embedded in N-Doped Carbon Framework for Enhanced Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2016, 8, 33741-33748.	4.0	49
218	Morphological, structural and field emission characterization of hydrothermally synthesized MoS ₂ -RGO nanocomposite. Materials Research Express, 2016, 3, 115023.	0.8	18
219	In situ formation of MoS ₂ /C nanocomposite as an anode for high-performance lithium-ion batteries. RSC Advances, 2016, 6, 92259-92266.	1.7	11

#	ARTICLE	IF	CITATIONS
220	Novel one-step gas-phase reaction synthesis of transition metal sulfide nanoparticles embedded in carbon matrices for reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16849-16855.	5.2	46
221	Structural Evolution of Electrochemically Lithiated MoS ₂ Nanosheets and the Role of Carbon Additive in Li-Ion Batteries. <i>Chemistry of Materials</i> , 2016, 28, 7304-7310.	3.2	89
222	Interfacial thermodynamics and kinetics of sorption of diclofenac on prepared high performance flower-like MoS ₂ . <i>Journal of Colloid and Interface Science</i> , 2016, 481, 210-219.	5.0	27
223	3D composites of layered MoS ₂ and graphene nanoribbons for high performance lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13148-13154.	5.2	47
224	Structural Properties and Phase Transition of Na Adsorption on Monolayer MoS ₂ . <i>Nanoscale Research Letters</i> , 2016, 11, 330.	3.1	45
225	Nitrogen-Doped Carbon Embedded MoS ₂ Microspheres as Advanced Anodes for Lithium and Sodium Ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 11617-11623.	1.7	104
226	Sandwich structured graphene-wrapped FeS-graphene nanoribbons with improved cycling stability for lithium ion batteries. <i>Nano Research</i> , 2016, 9, 2904-2911.	5.8	52
227	Interface strain in vertically stacked two-dimensional heterostructured carbon-MoS ₂ nanosheets controls electrochemical reactivity. <i>Nature Communications</i> , 2016, 7, 11796.	5.8	157
228	Tuning thermal conductivity in molybdenum disulfide by electrochemical intercalation. <i>Nature Communications</i> , 2016, 7, 13211.	5.8	136
229	Intercalation Pseudocapacitance of Exfoliated Molybdenum Disulfide for Ultrafast Energy Storage. <i>ChemNanoMat</i> , 2016, 2, 688-691.	1.5	38
230	Graphene-Amorphous Transition-Metal Chalcogenide (MoS ₂) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 347 Td (W Evolution Reaction. <i>ChemElectroChem</i> , 2016, 3, 565-571.	1.7	41
231	2D sandwich-like carbon-coated ultrathin TiO ₂ @defect-rich MoS ₂ hybrid nanosheets: Synergistic-effect-promoted electrochemical performance for lithium ion batteries. <i>Nano Energy</i> , 2016, 26, 541-549.	8.2	146
232	Large-Area Deposition of MoS ₂ by Pulsed Laser Deposition with <i>In Situ</i> Thickness Control. <i>ACS Nano</i> , 2016, 10, 6054-6061.	7.3	202
233	Design, synthesis, and energy-related applications of metal sulfides. <i>Materials Horizons</i> , 2016, 3, 402-421.	6.4	243
234	Facile preparation of graphene-like and expanded molybdenum disulfide/graphene via a polyquaterronium-assisted method and their electrochemical Na-storage performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 504, 182-189.	2.3	8
235	MoS ₂ -coated vertical graphene nanosheet for high-performance rechargeable lithium-ion batteries and hydrogen production. <i>NPG Asia Materials</i> , 2016, 8, e268-e268.	3.8	113
236	MgO-template-assisted synthesis of worm-like carbon@MoS ₂ composite for lithium ion battery anodes. <i>Electrochimica Acta</i> , 2016, 211, 962-971.	2.6	14
237	Mesoporous MoS ₂ as a Transition Metal Dichalcogenide Exhibiting Pseudocapacitive Li and Na Ion Charge Storage. <i>Advanced Energy Materials</i> , 2016, 6, 1501937.	10.2	395

#	ARTICLE	IF	CITATIONS
238	Hierarchical Ternary MoO ₂ /MoS ₂ /Heteroatom-Doped Carbon Hybrid Materials for High-Performance Lithium-Ion Storage. ChemElectroChem, 2016, 3, 922-932.	1.7	51
239	Salt-Templating Protocol To Realize Few-Layered Ultrasmall MoS ₂ Nanosheets Inlayed into Carbon Frameworks for Superior Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2016, 4, 1148-1153.	3.2	39
240	A NiMoS flower-like structure with self-assembled nanosheets as high-performance hydrodesulfurization catalysts. Nanoscale, 2016, 8, 3823-3833.	2.8	127
241	MoS ₂ with an intercalation reaction as a long-life anode material for lithium ion batteries. Inorganic Chemistry Frontiers, 2016, 3, 532-535.	3.0	70
242	Label-free fluorescent catalytic biosensor for highly sensitive and selective detection of the ferrous ion in water samples using a layered molybdenum disulfide nanozyme coupled with an advanced chemometric model. Analyst, The, 2016, 141, 1822-1829.	1.7	30
243	Fullerene-like MoSe ₂ nanoparticles-embedded CNT balls with excellent structural stability for highly reversible sodium-ion storage. Nanoscale, 2016, 8, 4209-4216.	2.8	131
244	Few-layer MoS ₂ nanosheets incorporated into hierarchical porous carbon for lithium-ion batteries. Chemical Engineering Journal, 2016, 288, 179-184.	6.6	69
245	Biosensors Based on Two-Dimensional MoS ₂ . ACS Sensors, 2016, 1, 5-16.	4.0	310
246	Preparation of hollow microsphere@onion-like solid nanosphere MoS ₂ coated by a carbon shell as a stable anode for optimized lithium storage. Nanoscale, 2016, 8, 420-430.	2.8	53
247	Controllable growth of few-layer spiral WS ₂ . RSC Advances, 2016, 6, 376-382.	1.7	52
248	Thickness Dependence and Percolation Scaling of Hydrogen Production Rate in MoS ₂ Nanosheet and Nanosheet-Carbon Nanotube Composite Catalytic Electrodes. ACS Nano, 2016, 10, 672-683.	7.3	116
249	The Challenge to Develop Metrology at the Nanoscale. Nanoscience and Technology, 2016, , 105-130.	1.5	0
250	Half-cell and full-cell investigations of 3D hierarchical MoS ₂ /graphene composite on anode performance in lithium-ion batteries. Journal of Alloys and Compounds, 2016, 660, 62-72.	2.8	53
251	Promotion of reversible Li ⁺ storage in transition metal dichalcogenides by Ag nanoclusters. NPC Asia Materials, 2016, 8, e247-e247.	3.8	16
252	Recent progress in rechargeable lithium batteries with organic materials as promising electrodes. Journal of Materials Chemistry A, 2016, 4, 7091-7106.	5.2	259
253	One-step growth of 3D CoNi ₂ S ₄ nanorods and cross-linked NiCo ₂ S ₄ nanosheet arrays on carbon paper as anodes for high-performance lithium ion batteries. Chemical Communications, 2016, 52, 5258-5261.	2.2	49
254	MoS ₂ Nanosheet Assembling Superstructure with a Three-Dimensional Ion Accessible Site: A New Class of Bifunctional Materials for Batteries and Electrocatalysis. Chemistry of Materials, 2016, 28, 2074-2080.	3.2	130
255	Scalable shear-exfoliation of high-quality phosphorene nanoflakes with reliable electrochemical cycleability in nano batteries. 2D Materials, 2016, 3, 025005.	2.0	66

#	ARTICLE	IF	CITATIONS
256	In Situ Visualization of Lithium Ion Intercalation into MoS ₂ Single Crystals using Differential Optical Microscopy with Atomic Layer Resolution. <i>Journal of the American Chemical Society</i> , 2016, 138, 3355-3361.	6.6	81
257	Simultaneous tunability of the electronic and phononic gaps in SnS ₂ under normal compressive strain. <i>2D Materials</i> , 2016, 3, 015009.	2.0	16
258	Electrode materials with tailored facets for electrochemical energy storage. <i>Nanoscale Horizons</i> , 2016, 1, 272-289.	4.1	98
259	A facile synthesis of Fe ₃ O ₄ nanoparticles/graphene for high-performance lithium/sodium-ion batteries. <i>RSC Advances</i> , 2016, 6, 16624-16633.	1.7	71
260	Two-dimensional layered MoS ₂ : rational design, properties and electrochemical applications. <i>Energy and Environmental Science</i> , 2016, 9, 1190-1209.	15.6	532
261	Mesoporous transition metal dichalcogenide ME ₂ (M = Mo, W; E = S, Se) with 2-D layered crystallinity as anode materials for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 14253-14260.	1.7	52
262	Microwave-Assisted Hydrothermal Preparation of SnO ₂ /MoS ₂ Composites and their Electrochemical Performance. <i>Nano</i> , 2016, 11, 1650023.	0.5	13
263	Stainless Steel Mesh-Supported NiS Nanosheet Array as Highly Efficient Catalyst for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5509-5516.	4.0	254
264	Quantum dots derived from two-dimensional materials and their applications for catalysis and energy. <i>Chemical Society Reviews</i> , 2016, 45, 2239-2262.	18.7	391
265	A route to synthesis molybdenum disulfide-reduced graphene oxide (MoS ₂ -RGO) composites using supercritical methanol and their enhanced electrochemical performance for Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 309, 202-211.	4.0	89
266	Pyrite FeS ₂ as an efficient adsorbent of lithium polysulphide for improved lithium-sulphur batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4371-4374.	5.2	189
267	Layered MoS ₂ nanoflowers for microwave thermal therapy. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2133-2141.	2.9	55
268	Self-templated formation of tremella-like MoS ₂ with expanded spacing of (002) crystal planes for Li-ion batteries. <i>Journal of Materials Science</i> , 2016, 51, 4739-4747.	1.7	18
269	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe ₂ by Hydrohalic Acid Treatment. <i>ACS Nano</i> , 2016, 10, 1454-1461.	7.3	179
270	Highly Efficient Hydrogen Evolution Reaction Using Crystalline Layered Three-Dimensional Molybdenum Disulfides Grown on Graphene Film. <i>Chemistry of Materials</i> , 2016, 28, 549-555.	3.2	98
271	MoS ₂ /graphene cathodes for reversibly storing Mg ²⁺ and Mg ²⁺ /Li ⁺ in rechargeable magnesium-anode batteries. <i>Chemical Communications</i> , 2016, 52, 1701-1704.	2.2	74
272	Synthesis and characterization of electrospun PAN/2D MoS ₂ composite nanofibers. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 34, 61-65.	2.9	15
273	Electrochemically formed 3D hierarchical thin films of cobalt-manganese (Co-Mn) hexacyanoferrate hybrids for electrochemical applications. <i>Journal of Power Sources</i> , 2016, 305, 249-258.	4.0	53

#	ARTICLE	IF	CITATIONS
274	Layer-by-Layer Polyelectrolyte Assisted Growth of 2D Ultrathin MoS ₂ Nanosheets on Various 1D Carbons for Superior Li-Storage. ACS Applied Materials & Interfaces, 2016, 8, 1398-1405.	4.0	54
275	Advanced N-doped mesoporous molybdenum disulfide nanosheets and the enhanced lithium-ion storage performance. Journal of Materials Chemistry A, 2016, 4, 1440-1445.	5.2	55
276	The capacity fading mechanism and improvement of cycling stability in MoS ₂ -based anode materials for lithium-ion batteries. Nanoscale, 2016, 8, 2918-2926.	2.8	168
277	Self-Assembly-Induced Alternately Stacked Single-Layer MoS ₂ and N-doped Graphene: A Novel van der Waals Heterostructure for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 2372-2379.	4.0	202
278	Core-shell composite of hierarchical MoS ₂ nanosheets supported on graphitized hollow carbon microspheres for high performance lithium-ion batteries. Electrochimica Acta, 2016, 187, 55-64.	2.6	70
279	Microwave synthesized self-standing electrode of MoS ₂ nanosheets assembled on graphene foam for high-performance Li-Ion and Na-Ion batteries. Journal of Alloys and Compounds, 2016, 660, 11-16.	2.8	64
280	Size-Controlled Intercalation-to-Conversion Transition in Lithiation of Transition-Metal Chalcogenides—NbSe ₃ . ACS Nano, 2016, 10, 1249-1255.	7.3	29
281	Electronic and transport properties of P-Si@MoS ₂ nanocables. Physical Chemistry Chemical Physics, 2016, 18, 4333-4344.	1.3	2
282	Synthesis and lithium storage properties of MoS ₂ nanoparticles prepared using supercritical ethanol. Chemical Engineering Journal, 2016, 285, 517-527.	6.6	33
283	Preparation of hierarchical C@MoS ₂ @C sandwiched hollow spheres for lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 3987-3994.	5.2	81
284	Controllable graphene incorporation and defect engineering in MoS ₂ -TiO ₂ based composites: Towards high-performance lithium-ion batteries anode materials. Nano Energy, 2017, 33, 247-256.	8.2	130
285	Spraying Coagulation-Assisted Hydrothermal Synthesis of MoS ₂ /Carbon/Graphene Composite Microspheres for Lithium-Ion Battery Applications. ChemElectroChem, 2017, 4, 2027-2036.	1.7	24
286	Unimer-Assisted Exfoliation for Highly Concentrated Aqueous Dispersion Solutions of Single- and Few-Layered van der Waals Materials. Langmuir, 2017, 33, 1217-1226.	1.6	9
287	Epitaxial Stitching and Stacking Growth of Atomically Thin Transition-Metal Dichalcogenides (TMDCs) Heterojunctions. Advanced Functional Materials, 2017, 27, 1603884.	7.8	73
288	3D Ordered Macroporous MoS ₂ @C Nanostructure for Flexible Li-Ion Batteries. Advanced Materials, 2017, 29, 1603020.	11.1	350
289	Cobalt sulfide nanoparticles anchored in three-dimensional carbon nanosheet networks for lithium and sodium ion batteries with enhanced electrochemical performance. Journal of Colloid and Interface Science, 2017, 492, 41-50.	5.0	65
290	Recent development of two-dimensional transition metal dichalcogenides and their applications. Materials Today, 2017, 20, 116-130.	8.3	1,852
291	A germanium nanoparticles/molybdenum disulphide (MoS ₂) nanocomposite as a high-capacity, high-rate anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 4114-4121.	5.2	30

#	ARTICLE	IF	CITATIONS
292	Recent advances in inorganic 2D materials and their applications in lithium and sodium batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3735-3758.	5.2	329
293	Multi-functional integration of pore P25@C@MoS ₂ core-double shell nanostructures as robust ternary anodes with enhanced lithium storage properties. <i>Applied Surface Science</i> , 2017, 401, 232-240.	3.1	24
294	Hierarchical Structures Based on Two-Dimensional Nanomaterials for Rechargeable Lithium Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601906.	10.2	216
295	Life cycle assessment of high capacity molybdenum disulfide lithium-ion battery for electric vehicles. <i>Energy</i> , 2017, 123, 77-88.	4.5	63
296	MoS ₂ as a long-life host material for potassium ion intercalation. <i>Nano Research</i> , 2017, 10, 1313-1321.	5.8	275
297	3D Conductive Network Supported Monolithic Molybdenum Disulfide Nanosheets for High-Performance Lithium Storage Applications. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601228.	1.9	5
298	Ultrathin MoS ₂ sheets supported on N-rich carbon nitride nanospheres with enhanced lithium storage properties. <i>Applied Surface Science</i> , 2017, 410, 215-224.	3.1	45
299	2D MoS ₂ /polyaniline heterostructures with enlarged interlayer spacing for superior lithium and sodium storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5383-5389.	5.2	102
300	MoO ₃ @MoS ₂ Nanoarchitectures for High-Loading Advanced Lithium-Ion Battery Anodes. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600223.	1.2	50
301	The novel and facile preparation of multilayer MoS ₂ crystals by a chelation-assisted sol-gel method and their electrochemical performance. <i>RSC Advances</i> , 2017, 7, 9009-9014.	1.7	36
302	Ultrasml Fe ₂ O ₃ nanoparticles/MoS ₂ nanosheets composite as high-performance anode material for lithium ion batteries. <i>Scientific Reports</i> , 2017, 7, 42772.	1.6	57
303	Interaction Mechanisms between Air Bubble and Molybdenite Surface: Impact of Solution Salinity and Polymer Adsorption. <i>Langmuir</i> , 2017, 33, 2353-2361.	1.6	67
304	Multiscale structural and electronic control of molybdenum disulfide foam for highly efficient hydrogen production. <i>Nature Communications</i> , 2017, 8, 14430.	5.8	488
305	TiO ₂ @MoS ₂ hybrid nano composites with 3D network architecture as binder-free flexible electrodes for lithium ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9519-9527.	1.1	21
306	Nanoporous MoS ₂ /C Composites for High Performance Lithium Ion Battery Anode Material. <i>Electrochimica Acta</i> , 2017, 239, 74-83.	2.6	25
307	A first-principles study of NbSe ₂ monolayer as anode materials for rechargeable lithium-ion and sodium-ion batteries. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 235501.	1.3	69
308	Protecting Silicon Film Anodes in Lithium-Ion Batteries Using an Atomically Thin Graphene Drape. <i>ACS Nano</i> , 2017, 11, 5051-5061.	7.3	113
309	Superionic and electronic conductivity in monolayer W ₂ C: ab initio predictions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11094-11099.	5.2	51

#	ARTICLE	IF	CITATIONS
310	Phase evolution of lithium intercalation dynamics in 2H-MoS ₂ . <i>Nanoscale</i> , 2017, 9, 7533-7540.	2.8	83
311	Pulsed cathodoluminescence and Raman spectra of MoS ₂ nanocrystals at different excitation electron energy densities and laser wavelengths. <i>Journal of Luminescence</i> , 2017, 188, 529-532.	1.5	28
312	Recent advances in MoS ₂ nanostructured materials for energy and environmental applications – A review. <i>Journal of Solid State Chemistry</i> , 2017, 252, 43-71.	1.4	216
313	Vertical 1T-MoS ₂ nanosheets with expanded interlayer spacing edged on a graphene frame for high rate lithium-ion batteries. <i>Nanoscale</i> , 2017, 9, 6975-6983.	2.8	158
314	Graphene-Assisted Exfoliation of Molybdenum Disulfide to Fabricate 2D Heterostructure for Enhancing Lithium Storage. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601187.	1.9	38
315	Magnetic MoS ₂ on multiwalled carbon nanotubes for sulfide sensing. <i>Analytica Chimica Acta</i> , 2017, 975, 61-69.	2.6	20
316	First-principles investigations of metal (V, Nb, Ta)-doped monolayer MoS ₂ : Structural stability, electronic properties and adsorption of gas molecules. <i>Applied Surface Science</i> , 2017, 419, 522-530.	3.1	104
317	MoS ₂ /Polymer Nanocomposites: Preparation, Properties, and Applications. <i>Polymer Reviews</i> , 2017, 57, 440-466.	5.3	132
318	N-doped carbon-coated MoS ₂ nanosheets on hollow carbon microspheres for high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 698, 68-76.	2.8	40
319	MoC ultrafine nanoparticles confined in porous graphitic carbon as extremely stable anode materials for lithium- and sodium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 289-295.	3.0	42
320	Fabrication of niobium-based oxides/oxynitrides/nitrides and their applications in dye-sensitized solar cells and anaerobic digestion. <i>Journal of Power Sources</i> , 2017, 340, 325-336.	4.0	94
321	Mechanochemical synthesis of silica-lithium manganese oxide composite for the efficient recovery of lithium ions from seawater. <i>Solid State Ionics</i> , 2017, 308, 77-83.	1.3	16
322	Electrochemical presodiation promoting lithium storage performance of Mo-based anode materials. <i>Ceramics International</i> , 2017, 43, 11967-11972.	2.3	13
323	Porous MoS ₂ @C heteroshell with a Si yolk structure with improved lithium transport properties and superior cycle stability. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14906-14913.	5.2	32
324	One-step synthesis of water-soluble and highly fluorescent MoS ₂ quantum dots for detection of hydrogen peroxide and glucose. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 183-190.	4.0	81
325	Synthetic approaches to two-dimensional transition metal dichalcogenide nanosheets. <i>Progress in Materials Science</i> , 2017, 89, 411-478.	16.0	176
326	A simple electrochemical route to metallic phase trilayer MoS ₂ : evaluation as electrocatalysts and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11316-11330.	5.2	119
327	Self-Stacked, Small-Sized MoS ₂ Nanosheets for High-Performance Lithium-Ion Batteries. <i>Energy Technology</i> , 2017, 5, 2039-2045.	1.8	4

#	ARTICLE	IF	CITATIONS
328	Nanosized Li ₂ S-based cathodes derived from MoS ₂ for high-energy density Li ⁺ /S cells and Si ⁺ /Li ₂ S full cells in carbonate-based electrolyte. <i>Energy Storage Materials</i> , 2017, 8, 209-216.	9.5	47
329	Uniform Yolk@Shell MoS ₂ @Carbon Microsphere Anodes for High-Performance Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2017, 23, 9937-9945.	1.7	51
330	Controlled defect creation and removal in graphene and MoS ₂ monolayers. <i>Nanoscale</i> , 2017, 9, 8997-9008.	2.8	21
331	Flower-like molybdenum disulfide nanosheets grown on carbon nanosheets to form nanocomposites: Novel structure and excellent electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2017, 722, 250-258.	2.8	24
332	Unexpected elastic isotropy in a black phosphorene/TiC ₂ van der Waals heterostructure with flexible Li-ion battery anode applications. <i>Nano Research</i> , 2017, 10, 3136-3150.	5.8	67
333	Sc ₂ C as a Promising Anode Material with High Mobility and Capacity: A First-Principles Study. <i>ChemPhysChem</i> , 2017, 18, 1627-1634.	1.0	88
334	S,N co-doped carbon nanotubes decorated with ultrathin molybdenum disulfide nanosheets with highly electrochemical performance. <i>Nanoscale</i> , 2017, 9, 6346-6352.	2.8	20
335	One-pot synthesis of molybdenum disulfide-reduced graphene oxide (MoS ₂ -RGO) composites and their high electrochemical performance as an anode in lithium ion batteries. <i>Journal of Supercritical Fluids</i> , 2017, 127, 81-89.	1.6	29
336	Anisotropic transport in 1T [±] monolayer MoS ₂ and its metal interfaces. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10453-10461.	1.3	18
337	Tungsten diselenide nanoplates as advanced lithium/sodium ion electrode materials with different storage mechanisms. <i>Nano Research</i> , 2017, 10, 2584-2598.	5.8	65
338	Perspectives on in situ electron microscopy. <i>Ultramicroscopy</i> , 2017, 180, 188-196.	0.8	26
339	Exfoliated V ₅ S ₈ /graphite nanosheet with excellent electrochemical performance for enhanced lithium storage. <i>Chemical Engineering Journal</i> , 2017, 320, 485-493.	6.6	55
340	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. <i>Chemical Reviews</i> , 2017, 117, 6225-6331.	23.0	3,940
341	MoS ₂ /Celgard Separator as Efficient Polysulfide Barrier for Long-Life Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1606817.	11.1	746
342	MoS ₂ -Based Nanocomposites for Electrochemical Energy Storage. <i>Advanced Science</i> , 2017, 4, 1600289.	5.6	374
343	A Review on Design Strategies for Carbon Based Metal Oxides and Sulfides Nanocomposites for High Performance Li and Na Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2017, 7, 1601424.	10.2	486
344	Ultrafine Cobalt Sulfide Nanoparticles Encapsulated Hierarchical N-doped Carbon Nanotubes for High-performance Lithium Storage. <i>Electrochimica Acta</i> , 2017, 225, 137-142.	2.6	46
345	Edge-Enriched 2D MoS ₂ Thin Films Grown by Chemical Vapor Deposition for Enhanced Catalytic Performance. <i>ACS Catalysis</i> , 2017, 7, 877-886.	5.5	123

#	ARTICLE	IF	CITATIONS
346	Carbon/two-dimensional MoTe ₂ core/shell-structured microspheres as an anode material for Na-ion batteries. <i>Nanoscale</i> , 2017, 9, 1942-1950.	2.8	93
347	Synergistically Enhanced Electrochemical Performance of Hierarchical MoS ₂ /TiNb ₂ O ₇ Hetero-nanostructures as Anode Materials for Li-Ion Batteries. <i>ACS Nano</i> , 2017, 11, 1026-1033.	7.3	89
348	A study on the interaction between molybdenum disulfide and rhodamine B by spectroscopic methods. <i>Journal of Materials Science</i> , 2017, 52, 3831-3840.	1.7	12
349	Fabrication of few-layer molybdenum disulfide/reduced graphene oxide hybrids with enhanced lithium storage performance through a supramolecule-mediated hydrothermal route. <i>Carbon</i> , 2017, 114, 125-133.	5.4	29
350	Hydrothermal preparation of MoS ₂ nanoflake arrays on Cu foil with enhanced supercapacitive property. <i>Electrochimica Acta</i> , 2017, 227, 101-109.	2.6	15
351	High-Performance Aluminum-Ion Battery with CuS@C Microsphere Composite Cathode. <i>ACS Nano</i> , 2017, 11, 469-477.	7.3	388
352	Hollow Nanostructures of Molybdenum Sulfides for Electrochemical Energy Storage and Conversion. <i>Small Methods</i> , 2017, 1, 1600020.	4.6	87
353	A hierarchical carbon@TiO ₂ @MoS ₂ nanofibrous composite derived from cellulose substance as an anodic material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 728, 506-517.	2.8	32
354	Construction of N-doped carbon@MoSe ₂ core/branch nanostructure via simultaneous formation of core and branch for high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 256, 19-27.	2.6	32
355	Squid Ink-Assisted Fabricating MoS ₂ Nanosheets/Ultrafine Biocarbon Spheres Composites with an Enhanced Lithium Ion Storage Performance. <i>ChemistrySelect</i> , 2017, 2, 8643-8649.	0.7	7
356	Tailored Mesoporous Carbon/Vanadium Pentoxide Hybrid Electrodes for High Power Pseudocapacitive Lithium and Sodium Intercalation. <i>Chemistry of Materials</i> , 2017, 29, 8653-8662.	3.2	34
357	Long-Term Stable 2H-MoS ₂ Dispersion: Critical Role of Solvent for Simultaneous Phase Restoration and Surface Functionalization of Liquid-Exfoliated MoS ₂ . <i>ACS Omega</i> , 2017, 2, 4678-4687.	1.6	55
358	Porous two-dimensional materials for energy applications: Innovations and challenges. <i>Materials Today Energy</i> , 2017, 6, 79-95.	2.5	59
359	MoS ₂ @rGO Nanoflakes as High Performance Anode Materials in Sodium Ion Batteries. <i>Scientific Reports</i> , 2017, 7, 7963.	1.6	53
360	2D material integrated macroporous electrodes for Li-ion batteries. <i>RSC Advances</i> , 2017, 7, 32737-32742.	1.7	12
361	Atomistic observation of the collision and migration of Li on MoSe ₂ and WS ₂ surfaces through ab initio molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27332-27342.	1.3	3
362	Two-Step Synthesis of Hierarchical Dual Layered Fe ₃ O ₄ /MoS ₂ Nanosheets and Their Synergistic Effects on Lithium Storage Performance. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700639.	1.9	20
363	Capillarity Compositing Recycled Paper/Graphene Scaffold for Lithium-Sulfur Batteries with Enhanced Capacity and Extended Lifespan. <i>Small</i> , 2017, 13, 1701927.	5.2	78

#	ARTICLE	IF	CITATIONS
364	Thermal decomposition-reduced layer-by-layer nitrogen-doped graphene/MoS ₂ /nitrogen-doped graphene heterostructure for promising lithium-ion batteries. <i>Nano Energy</i> , 2017, 41, 154-163.	8.2	191
365	Molybdenum disulfide quantum dot based highly sensitive impedimetric immunoassay for prostate specific antigen. <i>Mikrochimica Acta</i> , 2017, 184, 4647-4654.	2.5	21
366	Atomically Thin Transition-Metal Dichalcogenides for Electrocatalysis and Energy Storage. <i>Small Methods</i> , 2017, 1, 1700156.	4.6	98
367	Work Function Modulation of Molybdenum Disulfide Nanosheets by Introducing Systematic Lattice Strain. <i>Scientific Reports</i> , 2017, 7, 9576.	1.6	47
368	In Situ Construction of 3D Interconnected FeS@Fe ₃ C@Graphitic Carbon Networks for High-Performance Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1703390.	7.8	219
369	Petal-like MoS ₂ Nanosheets Space-Confined in Hollow Mesoporous Carbon Spheres for Enhanced Lithium Storage Performance. <i>ACS Nano</i> , 2017, 11, 8429-8436.	7.3	291
370	MoS ₂ nanopowder as anode material for lithium-ion batteries produced by self-propagating high-temperature synthesis. <i>Materials Today: Proceedings</i> , 2017, 4, 4567-4571.	0.9	16
371	Layer-type palladium phosphosulphide and its reduced graphene oxide composite as electrode materials for metal-ion batteries. <i>Journal of Power Sources</i> , 2017, 362, 80-85.	4.0	12
372	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
373	Nanostructured Three-Dimensional (3D) Assembly of 2D MoS ₂ and Graphene Directly Build From Acidic Graphite Oxide. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2528-2532.	1.7	8
374	Oxygen-incorporated few-layer MoS ₂ vertically aligned on three-dimensional graphene matrix for enhanced catalytic performances in quantum dot sensitized solar cells. <i>Carbon</i> , 2017, 123, 756-766.	5.4	67
375	Fabrication of flower-like MoS ₂ /TiO ₂ hybrid as an anode material for lithium ion batteries. <i>RSC Advances</i> , 2017, 7, 38119-38124.	1.7	36
376	Fabrication of Fe ₃ O ₄ Dots Embedded in 3D Honeycomb-Like Carbon Based on Metallo-Organic Molecule with Superior Lithium Storage Performance. <i>Small</i> , 2017, 13, 1701351.	5.2	49
377	Direct Studies on the Lithium-Storage Mechanism of Molybdenum Disulfide. <i>Scientific Reports</i> , 2017, 7, 7275.	1.6	49
378	In situ synthesis of concentric C@MoS ₂ core-shell nanospheres as anode for lithium ion battery. <i>Journal of Materials Science</i> , 2017, 52, 13183-13191.	1.7	22
379	Self-assembled hierarchical hollow CuS@MoS ₂ microcubes with superior lithium storage. <i>Electrochimica Acta</i> , 2017, 250, 376-383.	2.6	33
380	Facile fabrication of CNTs@C@MoSe ₂ @Se hybrids with amorphous structure for high performance anode in lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 435-442.	5.0	27
381	Molybdenum dichalcogenide nanotube arrays for hydrogen-evolution-reaction catalysis: Synergistic effects of sulfur and selenium in a core-shell tube wall. <i>Electrochemistry Communications</i> , 2017, 82, 112-116.	2.3	11

#	ARTICLE	IF	CITATIONS
382	Kinetically-Driven Phase Transformation during Lithiation in Copper Sulfide Nanoflakes. Nano Letters, 2017, 17, 5726-5733.	4.5	67
383	Investigation of the Reversible Intercalation/Deintercalation of Al into the Novel Li_3VO_4 @C Microsphere Composite Cathode Material for Aluminum-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 28486-28494.	4.0	98
384	MoS_2 @ VS_2 Nanocomposite as a Superior Hybrid Anode Material. ACS Applied Materials & Interfaces, 2017, 9, 29942-29949.	4.0	74
385	A scalable approach to fabricate metal sulfides/graphene/carbon nanotubes composites with superior electrochemical performances for lithium and sodium ion batteries. Electrochimica Acta, 2017, 258, 764-772.	2.6	18
386	Carbon coated bimetallic sulfide nanodots/carbon nanorod heterostructure enabling long-life lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 25625-25631.	5.2	41
387	Amorphous MoS_3 as the sulfur-equivalent cathode material for room-temperature Li^+ and Na^+ batteries. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13091-13096.	3.3	170
388	Controlling the H to T^2 structural phase transition via chalcogen substitution in MoTe_2 monolayers. Physical Chemistry Chemical Physics, 2017, 19, 31874-31882.	1.3	19
389	Synthesis, structure and applications of graphene-based 2D heterostructures. Chemical Society Reviews, 2017, 46, 4572-4613.	18.7	275
390	Self-Assembled Framework Formed During Lithiation of Sn_2 Nanoplates Revealed by in Situ Electron Microscopy. Accounts of Chemical Research, 2017, 50, 1513-1520.	7.6	29
391	Molecular adsorption properties of CO and H_2O on Au-, Cu-, and Au_xCu_y -doped MoS_2 monolayer. Applied Surface Science, 2017, 425, 246-253.	3.1	21
392	Theoretical investigation of lithium adsorption, diffusion and coverage on MX_2 ($\text{M} = \text{Mo}, \text{W}; \text{X} = \text{O}, \text{S}$). Tj ETQq0 0 0 rgBT /Overlock 10 T	3.1	55
393	A review on the research progress of tailoring photoluminescence of monolayer transition metal dichalcogenides. FlatChem, 2017, 4, 48-53.	2.8	18
394	Molybdenum disulfide grafted titania nanotube arrays as high capacity retention anode material for lithium ion batteries. Applied Nanoscience (Switzerland), 2017, 7, 67-73.	1.6	4
395	One-pot mass preparation of MoS_2 /C aerogels for high-performance supercapacitors and lithium-ion batteries. Nanoscale, 2017, 9, 10059-10066.	2.8	60
396	Stability and Nature of Chemically Exfoliated MoS_2 in Aqueous Suspensions. Inorganic Chemistry, 2017, 56, 7620-7623.	1.9	35
397	Functionalization of MoS_2 with 1,2-dithiolanes: toward donor-acceptor nanohybrids for energy conversion. Npj 2D Materials and Applications, 2017, 1, .	3.9	85
398	Effects of ZnO and MoS_2 Solid Lubricants on Mechanical and Tribological Properties of M50-Steel-Based Composites at High Temperatures: Experimental and Simulation Study. Tribology Letters, 2017, 65, 1.	1.2	54
399	The Application of Metal Sulfides in Sodium Ion Batteries. Advanced Energy Materials, 2017, 7, 1601329.	10.2	496

#	ARTICLE	IF	CITATIONS
400	Substrate Effects on Growth of MoS ₂ Film by Laser Physical Vapor Deposition on Sapphire, Si and Graphene (on Cu). <i>Journal of Electronic Materials</i> , 2017, 46, 1010-1021.	1.0	3
401	Improved cycling stability of MoS ₂ -coated carbon nanotubes on graphene foam as flexible anodes for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 588-593.	1.4	14
402	MoS ₂ -Based All-Purpose Fibrous Electrode and Self-Powering Energy Fiber for Efficient Energy Harvesting and Storage. <i>Advanced Energy Materials</i> , 2017, 7, 1601208.	10.2	139
403	Amorphous MoS ₃ Infiltrated with Carbon Nanotubes as an Advanced Anode Material of Sodium-Ion Batteries with Large Gravimetric, Areal, and Volumetric Capacities. <i>Advanced Energy Materials</i> , 2017, 7, 1601602.	10.2	164
404	Liquid-exfoliated MoS ₂ nanosheets/graphene composites with high capacity and excellent cycle stability for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2017, 311, 293-301.	6.6	41
405	Large area growth of vertically aligned luminescent MoS ₂ nanosheets. <i>Nanoscale</i> , 2017, 9, 277-287.	2.8	54
406	Syntheses, crystal and electronic structure of a series of quaternary rare-earth sulfides MgRE ₆ Si ₂ S ₁₄ (RE=ÅY, Ce, Pr, Nd and Sm). <i>Journal of Molecular Structure</i> , 2017, 1127, 53-58.	1.8	5
407	Transition metal dichalcogenide based nanomaterials for rechargeable batteries. <i>Chemical Engineering Journal</i> , 2017, 307, 189-207.	6.6	89
408	Low-crystallinity molybdenum sulfide nanosheets assembled on carbon nanotubes for long-life lithium storage: Unusual electrochemical behaviors and ascending capacities. <i>Applied Surface Science</i> , 2017, 392, 297-304.	3.1	27
409	Solvothermal Synthesis of a Molybdenum Disulfide/Reduced Porous Graphene Oxide Nanocomposite as a High-Performance Anode Material for Lithium-Ion Batteries. <i>Energy Technology</i> , 2017, 5, 1200-1207.	1.8	7
410	Pseudocapacitive Charge Storage in Thick Composite MoS ₂ Nanocrystal-Based Electrodes. <i>Advanced Energy Materials</i> , 2017, 7, 1601283.	10.2	230
411	Exploring Advanced Sandwiched Arrays by Vertical Graphene and N-Doped Carbon for Enhanced Sodium Storage. <i>Advanced Energy Materials</i> , 2017, 7, 1601804.	10.2	243
412	Switch-on fluorescence sensor for ascorbic acid detection based on MoS ₂ quantum dots-MnO ₂ nanosheets system and its application in fruit samples. <i>Chinese Chemical Letters</i> , 2017, 28, 338-344.	4.8	50
413	Simultaneous modulation of surface composition, oxygen vacancies and assembly in hierarchical Co ₃ O ₄ mesoporous nanostructures for lithium storage and electrocatalytic oxygen evolution. <i>Nanoscale</i> , 2017, 9, 14431-14441.	2.8	77
414	PEEM and Micro-UPS Studies of Cleaved and Exfoliated Molybdenum Disulfide Surfaces. <i>E-Journal of Surface Science and Nanotechnology</i> , 2017, 15, 115-120.	0.1	7
415	Few-Layered MoS ₂ /Acetylene Black Composite as an Efficient Anode Material for Lithium-Ion Batteries. <i>Nanoscale Research Letters</i> , 2017, 12, 555.	3.1	5
416	Coaxial MoS ₂ @Carbon Hybrid Fibers: A Low-Cost Anode Material for High-Performance Li-Ion Batteries. <i>Materials</i> , 2017, 10, 174.	1.3	33
417	Growth and Mechanism of MoS ₂ Nanoflowers with Ultrathin Nanosheets. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-6.	1.5	8

#	ARTICLE	IF	CITATIONS
418	CaFe ₂ O ₄ -type Structure NaRu ₂ O ₄ : a Novel Cathode Material for Li-ion Batteries. International Journal of Electrochemical Science, 2017, , 280-291.	0.5	2
419	Enhanced Lithium Storage Properties of Hierarchical MoS ₂ -rGO Nanosheets. International Journal of Electrochemical Science, 2017, 12, 5431-5437.	0.5	5
420	Nanoflakes assembled hydrangea-like Fe ₂ O ₃ @C@MoS ₂ @C nanocomposite as high performance anode materials for lithium/sodium ion batteries. Electrochimica Acta, 2018, 265, 419-429.	2.6	37
421	In-situ growth of ultrathin MoS ₂ nanosheets on sponge-like carbon nanospheres for lithium-ion batteries. Science China Materials, 2018, 61, 1049-1056.	3.5	20
422	Fluoroethylene Carbonate Enabling a Robust LiF-rich Solid Electrolyte Interphase to Enhance the Stability of the MoS ₂ Anode for Lithium-ion Storage. Angewandte Chemie, 2018, 130, 3718-3722.	1.6	40
423	Micron-sized encapsulated-type MoS ₂ /C hybrid particulates with an effective confinement effect for improving the cycling performance of LIB anodes. Journal of Materials Chemistry A, 2018, 6, 6289-6298.	5.2	21
424	MoS ₂ -QD-Based Dual-Model Photoluminescence Sensing Platform for Effective Determination of Al ³⁺ and Fe ³⁺ Simultaneously in Various Environment. ChemistrySelect, 2018, 3, 2326-2331.	0.7	19
425	MoS ₂ -TiN nanostructured electrodes fabricated using co-sputtering deposition method for high-performance lithium-ion batteries. Journal of Alloys and Compounds, 2018, 741, 1048-1054.	2.8	5
426	C@MoS ₂ @PPy sandwich-like nanotube arrays as an ultrastable and high-rate flexible anode for Li/Na-ion batteries. Energy Storage Materials, 2018, 14, 118-128.	9.5	65
427	Directionally assembled MoS ₂ with significantly expanded interlayer spacing: a superior anode material for high-rate lithium-ion batteries. Materials Chemistry Frontiers, 2018, 2, 1441-1448.	3.2	12
428	MoS ₂ compounded bidirectionally with TiO ₂ for hydrogen evolution reaction with enhanced humidity sensing performance. Materials Science in Semiconductor Processing, 2018, 82, 75-81.	1.9	7
429	Bottom-up Formation of Carbon-Based Structures with Multilevel Hierarchy from MOF-Guest Polyhedra. Journal of the American Chemical Society, 2018, 140, 6130-6136.	6.6	87
430	Simultaneous Enhancement of the Performance and Stability of MnO ₂ Based Lithium Ion Battery Anodes by Compositing with Fluorine Terminated Functionalized Graphene Oxide. ChemistrySelect, 2018, 3, 3958-3964.	0.7	3
431	Low-temperature plasma-enhanced atomic layer deposition of 2-D MoS ₂ : large area, thickness control and tuneable morphology. Nanoscale, 2018, 10, 8615-8627.	2.8	90
432	MoTe ₂ , A novel anode material for sodium ion battery. AIP Conference Proceedings, 2018, , .	0.3	4
433	Multistep Lithiation of Tin Sulfide: An Investigation Using <i>in Situ</i> Electron Microscopy. ACS Nano, 2018, 12, 3638-3645.	7.3	50
434	MoS ₂ Quantum Dots@TiO ₂ Nanotube Arrays: An Extended-Spectrum-Driven Photocatalyst for Solar Hydrogen Evolution. ChemSusChem, 2018, 11, 1708-1721.	3.6	77
435	Laser-induced fabrication of nanoporous monolayer WS ₂ membranes. 2D Materials, 2018, 5, 035011.	2.0	19

#	ARTICLE	IF	CITATIONS
436	In Situ Repair of 2D Chalcogenides under Electron Beam Irradiation. <i>Advanced Materials</i> , 2018, 30, e1705954.	11.1	36
437	Transition Metal Sulfides Based on Graphene for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1703259.	10.2	679
438	Ultra-high aspect ratio hybrid materials: the role of organic guest and synthesis method. <i>Dalton Transactions</i> , 2018, 47, 2933-2938.	1.6	6
439	Carbon coated nickel-cobalt bimetallic sulfides hollow dodecahedrons for a supercapacitor with enhanced electrochemical performance. <i>New Journal of Chemistry</i> , 2018, 42, 5128-5134.	1.4	38
440	Metal-organic framework-derived Co ₃ O ₄ covered by MoS ₂ nanosheets for high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 744, 220-227.	2.8	46
441	The application of nanostructured transition metal sulfides as anodes for lithium ion batteries. <i>Journal of Energy Chemistry</i> , 2018, 27, 1536-1554.	7.1	212
442	Self-Template Synthesis of Co-Se-S Hierarchical Nanotubes as Efficient Electrocatalysts for Oxygen Evolution under Alkaline and Neutral Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8231-8237.	4.0	43
443	Fluoroethylene Carbonate Enabling a Robust LiF-rich Solid Electrolyte Interphase to Enhance the Stability of the MoS ₂ Anode for Lithium-ion Storage. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3656-3660.	7.2	149
444	Electrochemical Investigation of Natural Ore Molybdenite (MoS ₂) as a First-Hand Anode for Lithium Storages. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6378-6389.	4.0	52
445	Strain-engineered two-dimensional MoS ₂ as anode material for performance enhancement of Li/Na-ion batteries. <i>Scientific Reports</i> , 2018, 8, 2079.	1.6	68
446	A first-principles investigation of the ScO ₂ monolayer as the cathode material for alkali metal-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3171-3180.	5.2	20
447	Transition metal dichalcogenides MX ₂ (M=Mo, W; X=S, Se, Te) and MX ₂ -CIP composites: Promising materials with high microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2018, 743, 26-35.	2.8	37
448	Wearable energy sources based on 2D materials. <i>Chemical Society Reviews</i> , 2018, 47, 3152-3188.	18.7	226
449	Adsorption and Diffusion of Lithium and Sodium on Defective Rhenium Disulfide: A First Principles Study. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5373-5384.	4.0	92
450	Monolayer InP ₃ as a reversible anode material for ultrafast charging lithium- and sodium-ion batteries: a theoretical study. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3634-3641.	5.2	91
451	MoS ₂ -Nanosheet-Decorated Carbon Nanofiber Composites Enable High-Performance Cathode Materials for Mg Batteries. <i>ChemElectroChem</i> , 2018, 5, 996-1001.	1.7	20
452	Fabrication of 3D Porous Hierarchical NiMoS Flowerlike Architectures for Hydrodesulfurization Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 442-454.	2.4	29
453	MoS ₂ intercalated p-Ti ₃ C ₂ anode materials with sandwich-like three dimensional conductive networks for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1262-1270.	2.8	78

#	ARTICLE	IF	CITATIONS
454	An Electrosynthesized 3D Porous Molybdenum Sulfide/Graphene Film with Enhanced Electrochemical Performance for Lithium Storage. <i>Small</i> , 2018, 14, 1703096.	5.2	25
455	MoS ₂ @MXene Heterostructures as Highly Reversible Anode Materials for Lithium-ion Batteries. <i>Angewandte Chemie</i> , 2018, 130, 1864-1868.	1.6	67
456	MoS ₂ @MXene Heterostructures as Highly Reversible Anode Materials for Lithium-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1846-1850.	7.2	520
457	High capacity lithium ion batteries composed of cobalt oxide nanoparticle anodes and Raman spectroscopic analysis of nanoparticle strain dynamics in batteries. <i>Nanotechnology</i> , 2018, 29, 075403.	1.3	7
458	Morphological Effects and Stabilization of the Metallic 1T Phase in Layered V, Nb, and Ta-Doped WSe ₂ for Electrocatalysis. <i>Chemistry - A European Journal</i> , 2018, 24, 3199-3208.	1.7	38
459	Stable Lithium Storage in Nitrogen-Doped Carbon-Coated Ferric Oxide Yolk-Shell Nanospindles with Preserved Hollow Space. <i>ChemPlusChem</i> , 2018, 83, 99-107.	1.3	5
460	Preparation and supercapacitive property of molybdenum disulfide (MoS ₂) nanoflake arrays-tungsten trioxide (WO ₃) nanorod arrays composite heterojunction: A synergistic effect of one-dimensional and two-dimensional nanomaterials. <i>Electrochimica Acta</i> , 2018, 263, 409-416.	2.6	21
461	Electrochemical Reaction Mechanism of the MoS ₂ Electrode in a Lithium-Ion Cell Revealed by in Situ and Operando X-ray Absorption Spectroscopy. <i>Nano Letters</i> , 2018, 18, 1466-1475.	4.5	153
462	Atomic layer deposition of crystalline epitaxial MoS ₂ nanowall networks exhibiting superior performance in thin-film rechargeable Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2302-2310.	5.2	40
463	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
464	Lithium and sodium adsorption properties of two-dimensional aluminum nitride. <i>Applied Surface Science</i> , 2018, 451, 141-147.	3.1	38
465	Molybdenum and tungsten disulfides-based nanocomposite films for energy storage and conversion: A review. <i>Chemical Engineering Journal</i> , 2018, 348, 908-928.	6.6	98
466	A Rechargeable Quasi-symmetrical MoS ₂ Battery. <i>Joule</i> , 2018, 2, 1278-1286.	11.7	33
467	Fabrication and theoretical investigation of MoS ₂ -Co ₃ S ₄ hybrid hollow structure as electrode material for lithium-ion batteries and supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 347, 607-617.	6.6	81
468	Towards thermally stable high performance lithium-ion batteries: the combination of a phosphonium cation ionic liquid and a 3D porous molybdenum disulfide/graphene electrode. <i>Chemical Communications</i> , 2018, 54, 5338-5341.	2.2	10
469	Interface engineering of few-layered MoS ₂ nanosheets with ultrafine TiO ₂ nanoparticles for ultrastable Li-ion batteries. <i>Chemical Engineering Journal</i> , 2018, 345, 320-326.	6.6	51
470	Flower-like MoS ₂ supported on three-dimensional graphene aerogels as high-performance anode materials for sodium-ion batteries. <i>Ionics</i> , 2018, 24, 3431-3437.	1.2	16
471	A Review on the Features and Progress of Dual-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1703320.	10.2	281

#	ARTICLE	IF	CITATIONS
472	General approach for preparing sandwich-structured metal sulfide@reduced graphene oxide as highly reversible Li-ion battery anode. <i>Materials Research Letters</i> , 2018, 6, 307-313.	4.1	12
473	Three-dimensional carbon frameworks enabling MoS ₂ as anode for dual ion batteries with superior sodium storage properties. <i>Energy Storage Materials</i> , 2018, 15, 22-30.	9.5	125
474	Vertically aligned, polypyrrole encapsulated MoS ₂ /graphene composites for high-rate LIBs anode. <i>Ceramics International</i> , 2018, 44, 7611-7617.	2.3	10
475	MoS ₂ nanobelts with (002) plane edges-enriched flat surfaces for high-rate sodium and lithium storage. <i>Energy Storage Materials</i> , 2018, 15, 65-74.	9.5	96
476	Semimetallic vanadium molybdenum sulfide for high-performance battery electrodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9411-9419.	5.2	73
477	Facile synthesis and electrochemical properties of continuous porous spheres assembled from defect-rich, interlayer-expanded, and few-layered MoS ₂ /C nanosheets for reversible lithium storage. <i>Journal of Power Sources</i> , 2018, 387, 16-23.	4.0	51
478	Impact of CTAB on morphology and electrochemical performance of MoS ₂ nanoflowers with improved lithium storage properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3631-3639.	1.1	13
479	High-capacity cathodes for magnesium lithium chlorine tri-ion batteries through chloride intercalation in layered MoS ₂ : a computational study. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6830-6839.	5.2	33
480	Oriented MoS ₂ Nanoflakes on N-Doped Carbon Nanosheets Derived from Dodecylamine-Intercalated MoO ₃ for High-Performance Lithium-Ion Battery Anodes. <i>ChemElectroChem</i> , 2018, 5, 1350-1356.	1.7	21
481	In situ growth of 1T-MoS ₂ on liquid-exfoliated graphene: A unique graphene-like heterostructure for superior lithium storage. <i>Carbon</i> , 2018, 133, 162-169.	5.4	45
482	A spray-freezing approach to reduced graphene oxide/MoS ₂ hybrids for superior energy storage. <i>Energy Storage Materials</i> , 2018, 10, 282-290.	9.5	52
483	High-Pressure High-Temperature Synthesis of MoS ₂ /Holey Graphene Hybrids and Their Performance in Li-Ion Batteries. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700262.	0.7	18
484	Dopamine Self-Polymerization Enables an N-Doped Carbon Coating of Exfoliated MoS ₂ Nanoflakes for Anodes of Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 383-390.	1.7	21
485	Synthesis and characterization of three-dimensional MoS ₂ @carbon fibers hierarchical architecture with high capacity and high mass loading for Li-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2018, 510, 327-333.	5.0	27
486	Effects of dopant separation on electronic states and magnetism in monolayer MoS ₂ . <i>Applied Surface Science</i> , 2018, 428, 226-232.	3.1	16
487	Dreidimensionale Architekturen aus Übergangsmetall-Dichalkogenid-Nanomaterialien zur elektrochemischen Energiespeicherung und -umwandlung. <i>Angewandte Chemie</i> , 2018, 130, 634-655.	1.6	37
488	Three-Dimensional Architectures Constructed from Transition-Metal Dichalcogenide Nanomaterials for Electrochemical Energy Storage and Conversion. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 626-646.	7.2	398
489	<i>In situ</i> synthesis of magnesium hydroxides modified with tripodal ligands in an organic medium. <i>Dalton Transactions</i> , 2018, 47, 3074-3083.	1.6	10

#	ARTICLE	IF	CITATIONS
490	A synergistic "cascade" effect in copper zinc tin sulfide nanowalls for highly stable and efficient lithium ion storage. <i>Nano Energy</i> , 2018, 44, 438-446.	8.2	24
491	Co stabilized metallic 1T 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
492	Mechanically robust and size-controlled MoS ₂ /graphene hybrid aerogels as high-performance anodes for lithium-ion batteries. <i>Journal of Materials Science</i> , 2018, 53, 4482-4493.	1.7	26
493	Group 6 transition metal dichalcogenide nanomaterials: synthesis, applications and future perspectives. <i>Nanoscale Horizons</i> , 2018, 3, 90-204.	4.1	309
494	Holey 2D Nanomaterials for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1702179.	10.2	293
495	Preparation of yolk-shell MoS ₂ nanospheres covered with carbon shell for excellent lithium-ion battery anodes. <i>Applied Surface Science</i> , 2018, 434, 1021-1029.	3.1	20
496	Incorporation of Co into MoS ₂ /graphene nanocomposites: One effective way to enhance the cycling stability of Li/Na storage. <i>Journal of Power Sources</i> , 2018, 373, 103-109.	4.0	67
497	Giant lateral photovoltaic effect in MoS ₂ /SiO ₂ /Si p-i-n junction. <i>Journal of Alloys and Compounds</i> , 2018, 735, 88-97.	2.8	33
498	Preparation of MoS ₂ /TiO ₂ based nanocomposites for photocatalysis and rechargeable batteries: progress, challenges, and perspective. <i>Nanoscale</i> , 2018, 10, 34-68.	2.8	247
499	One step hydrothermal synthesis of novel Cu ₂ S-MoO ₃ nanocomposite for lithium ion battery and photocatalytic applications. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4003-4014.	3.8	28
500	Rational coating of Li ₇ P ₃ S ₁₁ solid electrolyte on MoS ₂ electrode for all-solid-state lithium ion batteries. <i>Journal of Power Sources</i> , 2018, 374, 107-112.	4.0	71
501	New Directions in Science Technology "Atomically-Thin Metal Dichalcogenides. ", 2018, , 181-250.		1
502	Calculation of Young's Modulus of MoS ₂ -Based Single-Wall Nanotubes Using Force-Field and Hybrid Density Functional Theory. <i>Physics of the Solid State</i> , 2018, 60, 2551-2558.	0.2	4
503	Recent Progress in Rechargeable Potassium Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1802938.	7.8	518
504	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
505	Molybdenum carbide promotion on Fe "N-doped carbon nanolayers facily prepared for enhanced oxygen reduction. <i>Nanoscale</i> , 2018, 10, 21944-21950.	2.8	12
506	An Xps Study of Solid Solutions Mo _{1-x} Nb _x S ₂ (0 < x < 0.15). <i>Journal of Structural Chemistry</i> , 2018, 59, 1833-1840.	0.3	1
507	Two-Dimensional MnO ₂ /reduced Graphene Oxide Nanosheet as a High-Capacity and High-Rate Cathode for Lithium-Ion Batteries. <i>International Journal of Electrochemical Science</i> , 2018, 13, 8575-8588.	0.5	13

#	ARTICLE	IF	CITATIONS
508	Mechanistic Origin of the High Performance of Yolk@Shell Bi ₂ S ₃ @N-Doped Carbon Nanowire Electrodes. ACS Nano, 2018, 12, 12597-12611.	7.3	213
509	MoS ₂ Layers Decorated RGO Composite Prepared by a One-Step High-Temperature Solvothermal Method as Anode for Lithium-Ion Batteries. Nano, 2018, 13, 1850135.	0.5	2
510	Hybrid Nanostructures of MoS ₂ /Sisal Fiber Tubular Carbon as Anode Material for Lithium ion Batteries. International Journal of Electrochemical Science, 2018, 13, 2054-2068.	0.5	10
511	In Situ Self-Formed Nanosheet MoS ₃ /Reduced Graphene Oxide Material Showing Superior Performance as a Lithium-Ion Battery Cathode. ACS Nano, 2018, 13, 1490-1498.	7.3	49
512	Molecular-Level CuS@S Hybrid Nanosheets Constructed by Mineral Chemistry for Energy Storage Systems. ACS Applied Materials & Interfaces, 2018, 10, 43669-43681.	4.0	32
513	Theoretical Prediction of Janus MoSSe as a Potential Anode Material for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 23899-23909.	1.5	56
514	Understanding the electrochemical reaction mechanism of VS ₂ nanosheets in lithium-ion cells by multiple <i>in situ</i> and <i>ex situ</i> x-ray spectroscopy. Journal Physics D: Applied Physics, 2018, 51, 494001.	1.3	14
515	Few-layered ReS ₂ nanosheets vertically aligned on reduced graphene oxide for superior lithium and sodium storage. Journal of Materials Chemistry A, 2018, 6, 20267-20276.	5.2	61
516	Carbon Wrapped Ni ₃ S ₂ Nanocrystals Anchored on Graphene Sheets as Anode Materials for Lithium-Ion Battery and the Study on Their Capacity Evolution. Nanomaterials, 2018, 8, 760.	1.9	17
517	Chitosan-Induced Synthesis of Hierarchical Flower Ridge-like MoS ₂ /N-Doped Carbon Composites with Enhanced Lithium Storage. ACS Applied Materials & Interfaces, 2018, 10, 35953-35962.	4.0	42
518	WS ₂ "Graphite Dual-Ion Batteries. Nano Letters, 2018, 18, 7155-7164.	4.5	88
519	Ternary MoS ₂ /MoO ₃ /C Nanosheets as High-Performance Anode Materials for Lithium-Ion Batteries. Journal of Electronic Materials, 2018, 47, 6767-6773.	1.0	8
520	Two-Dimensional WS ₂ @Nitrogen-Doped Graphite for High-Performance Lithium Ion Batteries: Experiments and Molecular Dynamics Simulations. ACS Applied Materials & Interfaces, 2018, 10, 37928-37936.	4.0	28
521	Molybdenum-Based Carbon Hybrid Materials to Enhance the Hydrogen Evolution Reaction. Chemistry - A European Journal, 2018, 24, 18158-18179.	1.7	46
522	Fabrication and Testing of All-solid-state Nanoscale Lithium Batteries Using LiPON for Electrolytes. E3S Web of Conferences, 2018, 53, 01008.	0.2	0
523	Monolayer Transition-Metal Dichalcogenide Mo _{1-x} W _x S ₂ Alloys as Efficient Anode Materials for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 25837-25848.	1.5	28
524	A Pseudolayered MoS ₂ as Li ⁺ Ion Intercalation Host with Enhanced Rate Capability and Durability. Small, 2018, 14, e1803344.	5.2	35
525	Temperature dependence of thermodynamic properties of MoS ₂ monolayer and single-wall nanotubes: Application of the developed three-body force field. Journal of Molecular Graphics and Modelling, 2018, 85, 212-222.	1.3	4

#	ARTICLE	IF	CITATIONS
526	Formation and stability of water clusters at the molybdenum disulfide interface: a molecular dynamics simulation investigation. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 415001.	0.7	6
527	Large-scale Synthesis of Flexible, Stable, and Transparent MoS ₂ Quantum Dots/Polyvinyl Alcohol Sensing Film. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800189.	1.2	3
528	Wearable Thermoelectric Devices Based on Au-Decorated Two-Dimensional MoS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33316-33321.	4.0	57
529	Mechanically interlocked 1T/2H phases of MoS ₂ nanosheets for solar thermal water purification. <i>Nano Energy</i> , 2018, 53, 949-957.	8.2	156
530	Versatile and Scalable Strategy To Grow Sol-Gel Derived 2H-MoS ₂ Thin Films with Superior Electronic Properties: A Memristive Case. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34392-34400.	4.0	22
531	Vertically Oxygen-Incorporated MoS ₂ Nanosheets Coated on Carbon Fibers for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35206-35215.	4.0	81
532	Size-Tunable Natural Mineral-Molybdenite for Lithium-Ion Batteries Toward: Enhanced Storage Capacity and Quicken Ions Transferring. <i>Frontiers in Chemistry</i> , 2018, 6, 389.	1.8	19
533	Cold Sintering of a Covalently Bonded MoS ₂ /Graphite Composite as a High Capacity Li-Ion Electrode. <i>ChemNanoMat</i> , 2018, 4, 1088-1094.	1.5	8
534	Synthesis of MoS ₂ and Graphene Composites as the Anode Materials for Li-Ion Batteries. <i>Energy Technology</i> , 2018, 6, 1913-1920.	1.8	6
535	Fabrication of MoS ₂ @SnO ₂ -SnS ₂ composites and their applications as anodes for lithium ion batteries. <i>Materials Research Bulletin</i> , 2018, 108, 106-112.	2.7	19
536	Bimetallic CoMoS Composite Anchored to Biocarbon Fibers as a High-Capacity Anode for Li-Ion Batteries. <i>ACS Omega</i> , 2018, 3, 10243-10249.	1.6	31
537	Template conversion of MoO ₃ to MoS ₂ nanoribbons: synthesis and electrochemical properties. <i>RSC Advances</i> , 2018, 8, 30346-30353.	1.7	13
538	Pyrolic nitrogen-doped carbon sandwiched monolayer MoS ₂ vertically anchored on graphene oxide for high-performance sodium-ion battery anodes. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2801-2809.	1.2	5
539	Improved lithium storage properties of Co ₃ O ₄ nanoparticles via laser irradiation treatment. <i>Electrochimica Acta</i> , 2018, 281, 31-38.	2.6	41
540	Determination of sulfonamides in milk by capillary electrophoresis with PEG@MoS ₂ as a dispersive solid-phase extraction sorbent. <i>Royal Society Open Science</i> , 2018, 5, 172104.	1.1	22
541	The Role of Geometric Sites in 2D Materials for Energy Storage. <i>Joule</i> , 2018, 2, 1075-1094.	11.7	108
542	Multistep organic-induced scalable synthesis of a mesoporous MoS ₂ -monolayer/carbon composite for high-performance lithium and potassium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11147-11153.	5.2	77
543	Tracking the Chemical and Structural Evolution of the TiS ₂ Electrode in the Lithium-Ion Cell Using Operando X-ray Absorption Spectroscopy. <i>Nano Letters</i> , 2018, 18, 4506-4515.	4.5	51

#	ARTICLE	IF	CITATIONS
544	Building Next-Generation Li-ion Capacitors with High Energy: An Approach beyond Intercalation. Journal of Physical Chemistry Letters, 2018, 9, 3946-3958.	2.1	51
545	Conversion reaction of vanadium sulfide electrode in the lithium-ion cell: Reversible or not reversible?. Nano Energy, 2018, 51, 391-399.	8.2	55
546	Rational design of a 3D MoS ₂ /dual-channel graphene framework hybrid as a free-standing electrode for enhanced lithium storage. Journal of Materials Chemistry A, 2018, 6, 13797-13805.	5.2	23
547	Porous coin-like Fe@MoS ₂ composite with optimized impedance matching for efficient microwave absorption. Applied Surface Science, 2018, 457, 271-279.	3.1	116
548	Review of Hybrid Ion Capacitors: From Aqueous to Lithium to Sodium. Chemical Reviews, 2018, 118, 6457-6498.	23.0	741
549	Highly catalytic and reflective dual-phase nickel sulfide electrodes for solar energy conversion. Applied Surface Science, 2018, 457, 1151-1157.	3.1	21
550	Molybdenum disulfide nanosheets embedded in hollow nitrogen-doped carbon spheres for efficient lithium/sodium storage with enhanced electrochemical kinetics. Electrochimica Acta, 2018, 283, 646-654.	2.6	24
551	Few-atomic-layered hollow nanospheres constructed from alternate intercalation of carbon and MoS ₂ monolayers for sodium and lithium storage. Nano Energy, 2018, 51, 546-555.	8.2	98
552	Effect of in-plane size of MoS ₂ nanoparticles grown over multilayer graphene on the electrochemical performance of anodes in Li-ion batteries. Electrochimica Acta, 2018, 283, 45-53.	2.6	17
553	Glassy carbon electrode modified with Gâ€MoS ₂ â€Nafion acts as an electrochemical biosensor to determine uric acid in human serum. Molecular Medicine Reports, 2018, 18, 3193-3202.	1.1	4
554	Metallic MoS ₂ for High Performance Energy Storage and Energy Conversion. Small, 2018, 14, e1800640.	5.2	218
555	Exploring the correlation between MoS ₂ nanosheets and 3D graphene-based nanostructures for reversible lithium storage. Applied Surface Science, 2018, 459, 98-104.	3.1	11
556	Electrostatic Association of Ammonium-Functionalized Layered-Transition-Metal Dichalcogenides with an Anionic Porphyrin. ACS Applied Materials & Interfaces, 2018, 10, 23476-23480.	4.0	32
557	Revealing the Effects of Electrode Crystallographic Orientation on Battery Electrochemistry via the Anisotropic Lithiation and Sodiation of ReS ₂ . ACS Nano, 2018, 12, 7875-7882.	7.3	28
558	Uniform small-sized MoS ₂ from novel solution-based microwave-assisted method with exceptional reversible lithium storage properties. Nanoscale, 2018, 10, 15222-15228.	2.8	14
559	In vitro and in vivo toxicity evaluation of halloysite nanotubes. Journal of Materials Chemistry B, 2018, 6, 7204-7216.	2.9	89
560	Graphene-analogous structural MoS ₂ modification to improve electrochemical properties of Ni-rich layered oxide cathode material for lithium-ion batteries. Journal of Power Sources, 2018, 397, 288-295.	4.0	33
561	A flexible 3D graphene@CNT@MoS ₂ hybrid foam anode for high-performance lithium-ion battery. Chemical Engineering Journal, 2018, 353, 419-424.	6.6	108

#	ARTICLE	IF	CITATIONS
562	One-pot synthesis of highly stable carbon@MoS ₂ nanosphere electrodes using a co-growth mechanism for supercapacitors. <i>New Journal of Chemistry</i> , 2018, 42, 10111-10117.	1.4	16
563	XPS experimental and DFT investigations on solid solutions of Mo _{1-x} Re _x S ₂ (0 x ≤ 0.20). <i>Nanoscale</i> , 2018, 10, 10232-10240.	2.8	23
564	In-situ TEM investigation of MoS ₂ upon alkali metal intercalation. <i>Science China Chemistry</i> , 2018, 61, 222-227.	4.2	26
565	MoS ₂ nanosheets uniformly coated TiO ₂ nanowire arrays with enhanced electrochemical performances for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 758, 91-98.	2.8	18
566	Role of oxygen adsorption in modification of optical and surface electronic properties of MoS ₂ . <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	23
567	Controlled synthesis of hollow C@TiO ₂ @MoS ₂ hierarchical nanospheres for high-performance lithium-ion batteries. <i>Nanoscale</i> , 2018, 10, 17327-17334.	2.8	65
568	Bamboo-Like Hollow Tubes with MoS ₂ /N-Doped Interfaces Boost Potassium-Ion Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1803409.	7.8	263
569	2D Nanospace Confined Synthesis of Pseudocapacitance-Dominated MoS ₂ @Ti ₃ C ₂ Superstructure for Ultrafast and Stable Li/Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1804306.	7.8	194
570	Elemental Sulfur Nanoparticles Chemically Boost the Sodium Storage Performance of MoS ₂ /rGO Anodes. <i>Batteries and Supercaps</i> , 2018, 1, 184-191.	2.4	10
571	Core-shell MoS ₂ @graphene composite microspheres as stable anodes for Li-ion batteries. <i>New Journal of Chemistry</i> , 2018, 42, 15340-15345.	1.4	15
572	A flexible three-dimensional MoS ₂ /carbon architecture derived from melamine foam as free-standing anode for high performance lithium-ion batteries. <i>Applied Surface Science</i> , 2018, 462, 337-343.	3.1	27
573	Hydrothermal synthesis of Co-doped-MoS ₂ /reduced graphene oxide hybrids with enhanced electrochemical lithium storage performances. <i>Materials Chemistry and Physics</i> , 2018, 219, 399-410.	2.0	19
574	Three-dimensional S-MoS ₂ @Fe ₂ O ₃ nanoparticles composites as lithium-ion battery anodes for enhanced electrochemical performance. <i>Materials Chemistry and Physics</i> , 2018, 219, 311-317.	2.0	11
575	High-performance sodium-ion hybrid capacitors based on an interlayer-expanded MoS ₂ /rGO composite: surpassing the performance of lithium-ion capacitors in a uniform system. <i>NPG Asia Materials</i> , 2018, 10, 775-787.	3.8	71
576	Electrochemical formation of molybdenum phosphate on a pencil graphite electrode and its potential application for the detection of phosphate ions. <i>Analytical Methods</i> , 2018, 10, 4282-4291.	1.3	23
577	Recent Progress on Two-Dimensional Nanoflake Ensembles for Energy Storage Applications. <i>Nano-Micro Letters</i> , 2018, 10, 66.	14.4	71
578	Electrochemical investigation of MoTe ₂ /rGO composite materials for sodium-ion battery application. <i>AIP Conference Proceedings</i> , 2018, . .	0.3	7
579	Preparation of 2D material dispersions and their applications. <i>Chemical Society Reviews</i> , 2018, 47, 6224-6266.	18.7	459

#	ARTICLE	IF	CITATIONS
580	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
581	MoS ₂ /C/C nanofiber with double-layer carbon coating for high cycling stability and rate capability in lithium-ion batteries. <i>Nano Research</i> , 2018, 11, 5866-5878.	5.8	55
582	Three-dimensionally integrated carbon tubes/MoS ₂ with reduced graphene oxide foam as a binder-free anode for lithium ion battery. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 307-314.	1.9	18
583	Ultrafast lithium energy storage enabled by interfacial construction of interlayer-expanded MoS ₂ /N-doped carbon nanowires. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13419-13427.	5.2	86
584	Unusual Li ⁺ Storage Behaviour of Two-Dimensional ReS ₂ Single Crystals. <i>Batteries and Supercaps</i> , 2018, 1, 69-74.	2.4	4
585	Controllable morphologies and electrochemical performances of self-assembled nano-honeycomb WS ₂ anodes modified by graphene doping for lithium and sodium ion batteries. <i>Carbon</i> , 2019, 142, 697-706.	5.4	76
586	Sb ₂ Se ₃ nanorods with N-doped reduced graphene oxide hybrids as high-capacity positive electrode materials for rechargeable aluminum batteries. <i>Nanoscale</i> , 2019, 11, 16437-16444.	2.8	38
587	Unraveling the Formation of Amorphous MoS ₂ Nanograins during the Electrochemical Delithiation Process. <i>Advanced Functional Materials</i> , 2019, 29, 1904843.	7.8	38
588	Multiple roles of a heterointerface in two-dimensional van der Waals heterostructures: insights into energy-related applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23577-23603.	5.2	43
589	Tailoring MoS ₂ Ultrathin Sheets Anchored on Graphene Flexible Supports for Superstable Lithium-ion Battery Anodes. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900197.	1.2	7
590	Importance of carbon quantum dots for improving the electrochemical performance of MoS ₂ @ZnS composite. <i>Journal of Materials Science</i> , 2019, 54, 13509-13522.	1.7	20
591	ALD growth of MoS ₂ nanosheets on TiO ₂ nanotube supports. <i>FlatChem</i> , 2019, 17, 100130.	2.8	22
592	Structural and electrochemical mechanism study of layered MoTe ₂ anode material for sodium-ion battery. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
593	Microwave synthesis of MoS ₂ /MoO ₃ @CNT nanocomposites with excellent cycling stability for supercapacitor electrodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9545-9555.	2.7	77
594	A Four-Electron Sulfur Electrode Hosting a Cu ²⁺ /Cu ⁺ Redox Charge Carrier. <i>Angewandte Chemie</i> , 2019, 131, 12770-12775.	1.6	18
595	A Four-Electron Sulfur Electrode Hosting a Cu ²⁺ /Cu ⁺ Redox Charge Carrier. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12640-12645.	7.2	77
596	The influences of Mg intercalation on the structure and supercapacitive behaviors of MoS ₂ . <i>Journal of Materials Science</i> , 2019, 54, 13247-13254.	1.7	10
597	A review on synthesis of graphene, h-BN and MoS ₂ for energy storage applications: Recent progress and perspectives. <i>Nano Research</i> , 2019, 12, 2655-2694.	5.8	283

#	ARTICLE	IF	CITATIONS
598	Ultra-thin solid electrolyte interphase evolution and wrinkling processes in molybdenum disulfide-based lithium-ion batteries. <i>Nature Communications</i> , 2019, 10, 3265.	5.8	69
599	Effective indirect exchange interaction in p-doped MoS ₂ nanoribbons in the presence of intrinsic spin-orbit interaction. <i>Physical Review B</i> , 2019, 100, .	1.1	2
600	Porous MoS ₂ Framework and Its Functionality for Electrochemical Hydrogen Evolution Reaction and Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 5900-5908.	2.5	30
601	Pressure-Assisted Interface Engineering in MoS ₂ /Holey Graphene Hybrids for Improved Performance in Li-ion Batteries. <i>Energy Technology</i> , 2019, 7, 1900659.	1.8	10
602	Facile synthesis and electrochemical performances of activated bamboo charcoal supported MoS ₂ nanoflakes as anodes materials for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 847, 113265.	1.9	11
603	Nearly monodispersed MoS ₂ hierarchical architectures as superior anodes for electrochemical lithium-storage. <i>Nanotechnology</i> , 2019, 30, 415402.	1.3	7
604	Orientation-Dependent Intercalation Channels for Lithium and Sodium in Black Phosphorus. <i>Advanced Materials</i> , 2019, 31, e1904623.	11.1	44
605	Fibrous Network of C@MoS ₂ Nanocapsule-Decorated Cotton Linters Interconnected by Bacterial Cellulose for Lithium- and Sodium-ion Batteries. <i>ChemSusChem</i> , 2019, 12, 5075-5080.	3.6	20
606	Ni ₃ S ₂ @Graphene oxide nanosheet arrays grown on NF as binder-free anodes for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151861.	2.8	15
607	Two-dimensional Janus MoSSe as a potential anode material for Na/K-ion batteries: A theoretical study. <i>Chemical Physics Letters</i> , 2019, 735, 136777.	1.2	15
608	Few-Layer MoS ₂ Nanosheets Encapsulated in N-Doped Carbon Hollow Spheres as Long-Life Anode Materials for Lithium-ion Batteries. <i>Chemistry - A European Journal</i> , 2019, 25, 14598-14603.	1.7	25
609	Atomic-Scale Visualization of Electrochemical Lithiation Processes in Monolayer MoS ₂ by Cryogenic Electron Microscopy. <i>Advanced Energy Materials</i> , 2019, 9, 1902773.	10.2	33
610	Synthesis of V-MoS ₂ Layered Alloys as Stable Li-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 8625-8632.	2.5	19
611	<i>ENAM</i> mutations and digenic inheritance. <i>Molecular Genetics & Genomic Medicine</i> , 2019, 7, e00928.	0.6	14
612	Electrochemical Lithiation Mechanism of Two-Dimensional Transition-Metal Dichalcogenide Anode Materials: Intercalation versus Conversion Reactions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2139-2146.	1.5	47
613	Amorphous Sb ₂ S ₃ Anodes by Reactive Radio Frequency Magnetron Sputtering for High-Performance Lithium-ion Half/Full Cells. <i>Energy Technology</i> , 2019, 7, 1900928.	1.8	15
614	A Facile One-Pot Stepwise Hydrothermal Method for the Synthesis of 3D MoS ₂ /RGO Composites with Improved Lithium Storage Properties. <i>Nano</i> , 2019, 14, 1950037.	0.5	4
615	Toward a high performance asymmetric hybrid capacitor by electrode optimization. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2824-2831.	3.0	52

#	ARTICLE	IF	CITATIONS
616	Untapped Potential of Polymorph MoS ₂ : Tuned Cationic Intercalation for High-Performance Symmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33955-33965.	4.0	80
617	A unique hierarchical composite with auricular-like MoS ₂ nanosheets erected on graphene for enhanced lithium storage. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 2759-2770.	1.2	3
618	Ultrahigh-capacity tetrahydroxybenzoquinone grafted graphene material as a novel anode for lithium-ion batteries. <i>Carbon</i> , 2019, 155, 445-452.	5.4	33
619	First-principles study of ultrathin molybdenum sulfides nanowires: Electronic and catalytic hydrogen evolution properties. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 267-272.	0.6	3
620	A paradigm of storage batteries. <i>Energy and Environmental Science</i> , 2019, 12, 3203-3224.	15.6	154
621	Understanding and Predicting Lithium Crystal Growth on Perfect and Defective Interfaces: A Kohn-Sham Density Functional Study. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37239-37246.	4.0	14
622	Chemical Trend of Transition-Metal Doping in WSe ₂ . <i>Physical Review Applied</i> , 2019, 12, .	1.5	16
623	A fantastic two-dimensional MoS ₂ material based on the inert basal planes activation: Electronic structure, synthesis strategies, catalytic active sites, catalytic and electronics properties. <i>Coordination Chemistry Reviews</i> , 2019, 399, 213020.	9.5	101
624	Two-dimensionally porous cobalt sulfide nanosheets as a high-performance cathode for aluminum-ion batteries. <i>Journal of Power Sources</i> , 2019, 440, 227147.	4.0	33
625	Controlled synthesis of transition metal disulfides (MoS ₂ and WS ₂) on carbon fibers: Effects of phase and morphology toward lithium-sulfur battery performance. <i>Applied Materials Today</i> , 2019, 16, 529-537.	2.3	42
626	Hierarchical growth of MoS ₂ @CNT heterostructure for all solid state symmetric supercapacitor: Insights into the surface science and storage mechanism. <i>Electrochimica Acta</i> , 2019, 324, 134767.	2.6	96
627	Rodlike FeSe ₂ @C derived from metal organic gel wrapped with reduced graphene as an anode material with excellent performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2019, 323, 134817.	2.6	34
628	Thickness-dependent electrochemical response of plasma enhanced atomic layer deposited WS ₂ anodes in Na-ion battery. <i>Electrochimica Acta</i> , 2019, 322, 134766.	2.6	18
629	Preserved Layered Structure Enables Stable Cyclic Performance of MoS ₂ upon Potassium Insertion. <i>Chemistry of Materials</i> , 2019, 31, 8801-8809.	3.2	39
630	Ex Situ and Operando XRD and XAS Analysis of MoS ₂ : A Lithiation Study of Bulk and Nanosheet Materials. <i>ACS Applied Energy Materials</i> , 2019, 2, 7635-7646.	2.5	42
631	Insights into the intrinsic capacity of interlayer-expanded MoS ₂ as a Li-ion intercalation host. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1187-1195.	5.2	32
632	Powders for Composites. , 2019, , 351-372.		2
633	Powder exfoliated MoS ₂ nanosheets with highly monolayer-rich structures as high-performance lithium/sodium-ion-battery electrodes. <i>Nanoscale</i> , 2019, 11, 1887-1900.	2.8	93

#	ARTICLE	IF	CITATIONS
634	Controlled Vapor Growth and Nonlinear Optical Applications of Large Area 3R Phase WS ₂ and WSe ₂ Atomic Layers. <i>Advanced Functional Materials</i> , 2019, 29, 1806874.	7.8	92
635	Facile microwave assisted synthesis of vastly edge exposed 1T/2H-MoS ₂ with enhanced activity for hydrogen evolution catalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3563-3569.	5.2	24
636	MoSe ₂ nanosheets-wrapped flexible carbon cloth as binder-free anodes for high-rate lithium and sodium ion storages. <i>Electrochimica Acta</i> , 2019, 301, 29-38.	2.6	56
637	Creating ultrathin amorphous metal hydroxide and oxide nanosheet libraries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4383-4388.	5.2	34
638	Electroanalytical characterization of F-doped MoS ₂ cathode material for rechargeable magnesium battery. <i>Functional Materials Letters</i> , 2019, 12, 1950041.	0.7	12
639	Enhanced photocatalytic performance and stability of 1T MoS ₂ transformed from 2H MoS ₂ via Li intercalation. <i>Results in Physics</i> , 2019, 12, 2218-2224.	2.0	29
640	Integrating Water-Soluble Polythiophene with Transition-Metal Dichalcogenides for Managing Photoinduced Processes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5947-5956.	4.0	11
641	Processing and Industrial Applications of Sustainable Nanocomposites Containing Nanofillers. , 2019, , 451-478.		1
642	Two-dimensional MoS ₂ modified using CoFe ₂ O ₄ nanoparticles with enhanced microwave response in the X and Ku band. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 590-597.	3.0	82
643	Silicon nanoparticle-sandwiched ultrathin MoS ₂ -graphene layers as an anode material for Li-ion batteries. <i>Materials Chemistry Frontiers</i> , 2019, 3, 587-596.	3.2	14
644	Multi nitrogen doped small honeycomb structure: investigation of their on SEM and TEM microscopy dynamic hierarchal self-assembles for high performance anodes lithium ion storage. <i>Materials Research Express</i> , 2019, 6, 085084.	0.8	0
645	Microwave-assisted synthesis of 1T MoS ₂ /Cu nanowires with enhanced capacity and stability as anode for LIBs. <i>Chemical Engineering Journal</i> , 2019, 374, 429-436.	6.6	42
646	Recent advances in metal sulfides: from controlled fabrication to electrocatalytic, photocatalytic and photoelectrochemical water splitting and beyond. <i>Chemical Society Reviews</i> , 2019, 48, 4178-4280.	18.7	810
647	Chemical Mass Production of MoS ₂ /Graphene van der Waals Heterostructure as a High-Performance Li-ion Intercalation Host. <i>ChemElectroChem</i> , 2019, 6, 3393-3400.	1.7	12
648	Porous-hollow nanorods constructed from alternate intercalation of carbon and MoS ₂ monolayers for lithium and sodium storage. <i>Nano Research</i> , 2019, 12, 1912-1920.	5.8	39
649	Microalgae-derived hollow carbon-MoS ₂ composite as anode for lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 79, 106-114.	2.9	25
650	Electrical properties of MoSe ₂ metal-oxide-semiconductor capacitors. <i>Materials Letters</i> , 2019, 253, 209-212.	1.3	15
651	Defect induced magnetism in monolayer HfSe ₂ : An ab initio study. <i>Applied Surface Science</i> , 2019, 491, 517-525.	3.1	7

#	ARTICLE	IF	CITATIONS
652	Layered MoS ₂ Nanosheets Fabricated by Vacuum Electron Beam Evaporation and Thickness-Dependent Field Emission Properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900180.	0.8	4
653	A sensitive and selective approach for detection of tetracyclines using fluorescent molybdenum disulfide nanoplates. <i>Food Chemistry</i> , 2019, 297, 124969.	4.2	79
654	Vacancy-mediated lithium adsorption and diffusion on MXene. <i>Applied Surface Science</i> , 2019, 488, 578-585.	3.1	46
655	A Facile Synthesis of MoS ₂ /g-C ₃ N ₄ Composite as an Anode Material with Improved Lithium Storage Capacity. <i>Materials</i> , 2019, 12, 1730.	1.3	28
656	Interconnected Vertically Stacked 2D-MoS ₂ for Ultrastable Cycling of Rechargeable Li-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20762-20769.	4.0	37
657	Expanding Interlayer Spacing in MoS ₂ for Realizing an Advanced Supercapacitor. <i>ACS Energy Letters</i> , 2019, 4, 1602-1609.	8.8	195
658	Surface Modified MXene-Based Nanocomposites for Electrochemical Energy Conversion and Storage. <i>Small</i> , 2019, 15, e1901503.	5.2	159
659	Hierarchically 3D structured milled lamellar MoS ₂ /nano-silicon@carbon hybrid with medium capacity and long cycling sustainability as anodes for lithium-ion batteries. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1840-1850.	5.6	14
660	Molybdenum trisulfide based anionic redox driven chemistry enabling high-performance all-solid-state lithium metal batteries. <i>Energy Storage Materials</i> , 2019, 23, 168-180.	9.5	51
661	Vertically aligned nanosheets with MoS ₂ /N-doped-carbon interfaces enhance lithium-ion storage. <i>Applied Surface Science</i> , 2019, 487, 285-294.	3.1	19
662	Ultra-Thin ReS ₂ Nanosheets Grown on Carbon Black for Advanced Lithium-Ion Battery Anodes. <i>Materials</i> , 2019, 12, 1563.	1.3	7
663	The use of two-dimensional materials in high-temperature rechargeable batteries: current issues and preventative measures. <i>Materials Research Express</i> , 2019, 6, 092003.	0.8	2
664	Exfoliated MoS ₂ as Electrode for All-Solid-State Rechargeable Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12126-12134.	1.5	57
665	Adsorption of formaldehyde on transition metal doped monolayer MoS ₂ : A DFT study. <i>Applied Surface Science</i> , 2019, 484, 1244-1252.	3.1	65
666	Facile synthesis and improved Li-storage performance of Fe-doped MoS ₂ /reduced graphene oxide as anode materials. <i>Applied Surface Science</i> , 2019, 483, 688-695.	3.1	35
667	Pseudocapacitive Behavior and Ultrafast Kinetics from Solvated Ion Cointercalation into MoS ₂ for Its Alkali Ion Storage. <i>ACS Applied Energy Materials</i> , 2019, 2, 3726-3735.	2.5	9
668	Micron-scaled MoS ₂ /N-C particles with embedded nano-MoS ₂ : A high-rate anode material for enhanced lithium storage. <i>Applied Surface Science</i> , 2019, 486, 519-526.	3.1	8
669	Reverse micelle assisted hydrothermal reaction route for the synthesis of homogenous MoS ₂ nanospheres. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	7

#	ARTICLE	IF	CITATIONS
670	Planar NiC ₃ as a reversible anode material with high storage capacity for lithium-ion and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13356-13363.	5.2	47
671	Vanadium disulfide flakes with nanolayered titanium disulfide coating as cathode materials in lithium-ion batteries. <i>Nature Communications</i> , 2019, 10, 1764.	5.8	73
672	The rational design of hierarchical MoS ₂ nanosheet hollow spheres sandwiched between carbon and TiO ₂ @graphite as an improved anode for lithium-ion batteries. <i>Nanoscale Advances</i> , 2019, 1, 1957-1964.	2.2	4
673	Seaweed-Like WS ₂ /rGO Enabling Ultralong Cycling Life and Enhanced Rate Capability for Lithium-Ion Batteries. <i>Nanomaterials</i> , 2019, 9, 469.	1.9	15
674	High capacity conversion anodes in Li-ion batteries: A review. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10852-10905.	3.8	88
675	MoS ₂ Nanoclusters Grown on TiO ₂ : Evidence for New Adsorption Sites at Edges and Sulfur Vacancies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7185-7201.	1.5	18
676	Hierarchical MoS ₂ @carbon porous nanorods towards atomic interfacial engineering for high-performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7553-7564.	5.2	31
677	Solvent exfoliation stabilizes TiS ₂ nanosheets against oxidation, facilitating lithium storage applications. <i>Nanoscale</i> , 2019, 11, 6206-6216.	2.8	44
678	T-Nb ₂ O ₅ embedded carbon nanosheets with superior reversibility and rate capability as an anode for high energy Li-ion capacitors. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1055-1065.	2.5	23
679	Glucose-Induced Synthesis of 1T-MoS ₂ /C Hybrid for High-Rate Lithium-Ion Batteries. <i>Small</i> , 2019, 15, e1805420.	5.2	138
680	Effects of Impurities on the Electrochemical Characterization of Liquid-Phase Exfoliated Niobium Diselenide Nanosheets. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8671-8680.	1.5	18
682	A Usage Scenario Independent Air Chargeable Flexible Zinc Ion Energy Storage Device. <i>Advanced Energy Materials</i> , 2019, 9, 1900509.	10.2	80
683	A polymer-direct-intercalation strategy for MoS ₂ /carbon-derived hetero-aerogels with ultrahigh pseudocapacitance. <i>Nature Communications</i> , 2019, 10, 1372.	5.8	155
684	Reviving bulky MoS ₂ as an advanced anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10988-10997.	5.2	36
685	Charge Storage by Electrochemical Reaction of Water Bilayers Absorbed on MoS ₂ Monolayers. <i>Scientific Reports</i> , 2019, 9, 3980.	1.6	16
686	Gyroidal Niobium Sulfide/Carbon Hybrid Monoliths for Electrochemical Energy Storage. <i>Batteries and Supercaps</i> , 2019, 2, 668-672.	2.4	8
687	Binder-Free Electrodes Derived from Interlayer-Expanded MoS ₂ Nanosheets on Carbon Cloth with a 3D Porous Structure for Lithium Storage. <i>ChemElectroChem</i> , 2019, 6, 2338-2343.	1.7	22
688	Three-dimensional porous carbon nanofiber loading MoS ₂ nanoflake-flowerballs as a high-performance anode material for Li-ion capacitor. <i>Applied Surface Science</i> , 2019, 484, 392-402.	3.1	38

#	ARTICLE	IF	CITATIONS
689	Enhanced high rate capability of Li intercalation in planar and edge defect-rich MoS ₂ nanosheets. <i>Nanoscale</i> , 2019, 11, 8882-8897.	2.8	24
690	Boron Doped Graphene Quantum Structure and MoS ₂ Nanohybrid as Anode Materials for Highly Reversible Lithium Storage. <i>Frontiers in Chemistry</i> , 2019, 7, 116.	1.8	20
691	Carbon Cloth Decorated with MoS ₂ Microflowers as Flexible Binder-Free Anodes for Lithium and Sodium Storage. <i>Energy Technology</i> , 2019, 7, 1801086.	1.8	13
692	Sequential growth of hierarchical N-doped carbon-MoS ₂ nanocomposites with variable nanostructures. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6197-6204.	5.2	22
693	Electrochemical intercalation of sodium in vertically aligned molybdenum disulfide for hydrogen evolution reaction. <i>FlatChem</i> , 2019, 14, 100086.	2.8	5
694	Fe ₃ O ₄ nanoparticle decorated three-dimensional porous carbon/MoS ₂ composites as anodes for high performance lithium-ion batteries. <i>Nanoscale</i> , 2019, 11, 4837-4845.	2.8	13
695	Binding low crystalline MoS ₂ nanoflakes on nitrogen-doped carbon nanotube: towards high-rate lithium and sodium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6439-6449.	5.2	65
696	Unraveling the Na-ion storage performance of a vertically aligned interlayer-expanded two-dimensional MoS ₂ @C/MoS ₂ heterostructure. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24557-24568.	5.2	60
697	Emerging two-dimensional noncarbon nanomaterials for flexible lithium-ion batteries: opportunities and challenges. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25227-25246.	5.2	44
698	Engineering MoS ₂ Nanosheets Anchored on Metal Organic Frameworks Derived Carbon Polyhedra for Superior Lithium and Potassium Storage. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	18
699	Hierarchical MoS ₂ /MoO ₃ nanotubes with excellent electrochemical performance: MoS ₂ bubbles on MoO ₃ nanotubes. <i>CrystEngComm</i> , 2019, 21, 6698-6702.	1.3	8
700	MoS ₂ /carbon composites prepared by ball-milling and pyrolysis for the high-rate and stable anode of lithium ion capacitors. <i>RSC Advances</i> , 2019, 9, 42316-42323.	1.7	16
701	Ambient atmosphere laser-induced local ripening of MoS ₂ nanoparticles. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13261-13266.	2.7	2
702	Fabrication of MoS ₂ Nanoflakes Supported on Carbon Nanotubes for High Performance Anode in Lithium-Ion Batteries (LIBs). <i>Journal of Nanomaterials</i> , 2019, 2019, 1-7.	1.5	5
703	Rational design of few-layered ReS ₂ nanosheets/N-doped mesoporous carbon nanocomposites for high-performance pseudocapacitive lithium storage. <i>Chemical Engineering Journal</i> , 2019, 356, 1052-1061.	6.6	19
704	Carbon-Based Photocathode Materials for Solar Hydrogen Production. <i>Advanced Materials</i> , 2019, 31, e1801446.	11.1	83
705	Uniform coating of molybdenum disulfide over porous carbon substrates and its electrochemical application. <i>Chemical Engineering Journal</i> , 2019, 356, 292-302.	6.6	10
706	MoS ₂ Domains on TiO ₂ -Based Nanostructures: Role of Titanate/TiO ₂ Transformation and Sulfur Doping on the Interaction with the Support. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7799-7809.	1.5	5

#	ARTICLE	IF	CITATIONS
707	Core-shell structured MoS ₂ @Mesoporous hollow carbon spheres nanocomposite for supercapacitors applications with enhanced capacitance and energy density. <i>Electrochimica Acta</i> , 2019, 298, 630-639.	2.6	48
708	Solution-processed flexible paper-electrode for lithium-ion batteries based on MoS ₂ nanosheets exfoliated with cellulose nanofibrils. <i>Electrochimica Acta</i> , 2019, 298, 22-30.	2.6	29
709	Facile method to synthesis hybrid phase 1T@2H MoSe ₂ nanostructures for rechargeable lithium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 333-339.	1.9	39
710	Ionic modulation and ionic coupling effects in MoS ₂ devices for neuromorphic computing. <i>Nature Materials</i> , 2019, 18, 141-148.	13.3	426
711	Co ₉ S ₈ @MoS ₂ core-shell nanostructure anchored on reduced graphene oxide with improved electrochemical performance for lithium-ion batteries. <i>Applied Surface Science</i> , 2019, 473, 918-927.	3.1	34
712	Synthesis of hierarchical molybdenum disulfide microplates consisting of numerous crosslinked nanosheets for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 781, 174-185.	2.8	10
713	Mitigation of Shuttle Effect in Li-S Battery Using a Self-Assembled Ultrathin Molybdenum Disulfide Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3080-3086.	4.0	58
714	Anomalous interfacial stress generation during sodium intercalation/extraction in MoS ₂ thin-film anodes. <i>Science Advances</i> , 2019, 5, eaav2820.	4.7	60
715	Synthesis of Surface Grown Pt Nanoparticles on Edge-Enriched MoS ₂ Porous Thin Films for Enhancing Electrochemical Performance. <i>Chemistry of Materials</i> , 2019, 31, 387-397.	3.2	40
716	Suppression of Electrochemically Driven Phase Transitions in Nanostructured MoS ₂ Pseudocapacitors Probed Using <i>Operando</i> X-ray Diffraction. <i>ACS Nano</i> , 2019, 13, 1223-1231.	7.3	36
717	Solvothermal processed Li ₃ VO ₄ /MoS ₂ composites and its enhanced electrochemical performance as lithium battery anode materials. <i>Applied Surface Science</i> , 2019, 469, 923-932.	3.1	19
718	Applications of 2D MXenes in energy conversion and storage systems. <i>Chemical Society Reviews</i> , 2019, 48, 72-133.	18.7	1,354
719	Tubular hierarchical structure composed of O-doped ultrathin MoS ₂ nanosheets grown on carbon microtubes with enhanced lithium ion storage properties. <i>Journal of Alloys and Compounds</i> , 2019, 779, 156-166.	2.8	15
720	Theoretical investigations of TiNbC MXenes as anode materials for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 778, 53-60.	2.8	49
721	In-situ encapsulating FeS/Fe ₃ C nanoparticles into nitrogen-sulfur dual-doped graphene networks for high-rate and ultra-stable lithium storage. <i>Journal of Alloys and Compounds</i> , 2019, 779, 193-201.	2.8	26
722	Approaching the Lithiation Limit of MoS ₂ While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3521-3526.	7.2	62
723	Vertically Grown Few-Layer MoS ₂ Nanosheets on Hierarchical Carbon Nanocages for Pseudocapacitive Lithium Storage with Ultrahigh Rate Capability and Long-Term Recyclability. <i>Chemistry - A European Journal</i> , 2019, 25, 3843-3848.	1.7	11
724	Approaching the Lithiation Limit of MoS ₂ While Maintaining Its Layered Crystalline Structure to Improve Lithium Storage. <i>Angewandte Chemie</i> , 2019, 131, 3559-3564.	1.6	18

#	ARTICLE	IF	CITATIONS
725	One-pot synthesis of SL-MoS ₂ /C/Ti ₃ C ₂ Tx@C hierarchical superstructures for ultralong cycle-life Li-ion batteries. <i>Electrochimica Acta</i> , 2019, 295, 286-293.	2.6	8
726	Preparation of ZnCo ₂ O ₄ @reduced graphene oxide nanocomposite for high-capacity Li-ion battery anodes. <i>Materials Research Bulletin</i> , 2019, 111, 34-42.	2.7	16
727	A top-down approach to build Li ₂ S@rGO cathode composites for high-loading lithium-sulfur batteries in carbonate-based electrolyte. <i>Electrochimica Acta</i> , 2019, 296, 243-250.	2.6	21
728	High-Voltage Supercapacitors Based on Aqueous Electrolytes. <i>ChemElectroChem</i> , 2019, 6, 976-988.	1.7	133
729	MoS ₂ nanosheets@N-carbon microtubes: A rational design of sheet-on-tube architecture for enhanced lithium storage performances. <i>Electrochimica Acta</i> , 2019, 293, 432-438.	2.6	23
730	Green synthesis of FeS anchored carbon fibers using eggshell membrane as a bio-template for energy storage application. <i>Journal of Alloys and Compounds</i> , 2019, 777, 974-981.	2.8	24
731	Novel Nanostructured Coating on PDMS Substrates Featuring High Resistance to Urine. <i>ACS Applied Bio Materials</i> , 2019, 2, 255-265.	2.3	11
732	Enhanced Li-ion Storage Performance of MoS ₂ through Multistage Structural Design. <i>ChemElectroChem</i> , 2019, 6, 1475-1484.	1.7	12
733	3D structures of graphene oxide and graphene analogue MoS ₂ with polypyrrole for supercapacitor electrodes. <i>Materials Letters</i> , 2019, 238, 121-125.	1.3	21
734	In ₂ S ₃ nanosheets anchored on N-doped carbon fibers for improved lithium storage performances. <i>Solid State Ionics</i> , 2019, 329, 8-14.	1.3	29
735	Uniform ReS ₂ porous nanospheres assembled from curly ReS ₂ few-layers with an expanded interlayer spacing for high-performance lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019, 357, 112-119.	6.6	23
736	Hierarchical MoS ₂ anchored on core-shell Si@C with increased active-sites and charge transfer for superior cycling and rate capability in lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019, 357, 625-632.	6.6	37
737	Dandelion-clock-inspired preparation of core-shell TiO ₂ @MoS ₂ composites for high performance sodium ion storage. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152386.	2.8	22
738	Going green with batteries and supercapacitor: Two dimensional materials and their nanocomposites based energy storage applications. <i>Progress in Solid State Chemistry</i> , 2020, 58, 100254.	3.9	87
739	Layered Transition Metal Dichalcogenide-Based Nanomaterials for Electrochemical Energy Storage. <i>Advanced Materials</i> , 2020, 32, e1903826.	11.1	329
740	Bowl-like mesoporous polymer-induced interface growth of molybdenum disulfide for stable lithium storage. <i>Chemical Engineering Journal</i> , 2020, 381, 122651.	6.6	37
741	A bifunctional hydrogel incorporated with CuS@MoS ₂ microspheres for disinfection and improved wound healing. <i>Chemical Engineering Journal</i> , 2020, 382, 122849.	6.6	124
742	MoS ₂ -decorated 2D Ti ₃ C ₂ (MXene): a high-performance anode material for lithium-ion batteries. <i>Ionics</i> , 2020, 26, 51-59.	1.2	29

#	ARTICLE	IF	CITATIONS
743	Natural Cellulose Derived Nanocomposites as Anodic Materials for Lithium-ion Batteries. <i>Chemical Record</i> , 2020, 20, 187-208.	2.9	18
744	Advances in Surface Engineering for Improved Energy Storage. , 2020, , 245-249.		0
745	Two-dimensional MoS ₂ for Li-ion Batteries: Structural Design and Electronic Modulation. <i>ChemSusChem</i> , 2020, 13, 1392-1408.	3.6	31
746	Preparation of Cu ₂ S@rGO hybrid composites as anode materials for enhanced electrochemical properties of lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152539.	2.8	21
747	2D Materials as Ionic Sieves for Inhibiting the Shuttle Effect in Batteries. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2294-2302.	1.7	20
748	Solid-state template-free fabrication of uniform Mo ₂ C microflowers with lithium storage towards Li-ion batteries. <i>Chinese Chemical Letters</i> , 2020, 31, 1670-1673.	4.8	5
749	Heterostructural composite of few-layered MoS ₂ /hexagonal MoO ₃ particles/graphene as anode material for highly reversible lithium/sodium storage. <i>International Journal of Energy Research</i> , 2020, 44, 518-527.	2.2	29
750	Long-term stable NbSe ₂ nanosheet aqueous ink for printable electronics. <i>Applied Surface Science</i> , 2020, 504, 144342.	3.1	10
751	Chinese hydrangea lantern-like Co ₉ S ₈ @MoS ₂ composites with enhanced lithium-ion battery properties. <i>Nanoscale</i> , 2020, 12, 3435-3442.	2.8	20
752	Dual light-induced <i>in situ</i> antibacterial activities of biocompatible TiO ₂ /MoS ₂ /PDA/RGD nanorod arrays on titanium. <i>Biomaterials Science</i> , 2020, 8, 391-404.	2.6	44
753	Voltage issue of aqueous rechargeable metal-ion batteries. <i>Chemical Society Reviews</i> , 2020, 49, 180-232.	18.7	522
754	Mitochondria-targeted TPP-MoS ₂ with dual enzyme activity provides efficient neuroprotection through M1/M2 microglial polarization in an Alzheimer's disease model. <i>Biomaterials</i> , 2020, 232, 119752.	5.7	123
755	Hollow carbon sphere based WS ₂ anode for high performance lithium and sodium ion batteries. <i>Chemical Physics Letters</i> , 2020, 741, 137061.	1.2	17
756	Flexible amorphous MoS ₂ nanoflakes/N-doped carbon microtubes/reduced graphene oxide composite paper as binder free anode for full cell lithium ion batteries. <i>Electrochimica Acta</i> , 2020, 333, 135568.	2.6	37
757	Biocarbon based template synthesis of uniform lamellar MoS ₂ nanoflowers with excellent energy storage performance in lithium-ion battery and supercapacitors. <i>Electrochimica Acta</i> , 2020, 331, 135262.	2.6	41
758	Mo ₂ C@MoS ₂ embedded reduced graphene oxide nanohybrid: Epitaxial synthesis of Mo ₂ C to augment the lithium storage properties of MoS ₂ . <i>Carbon</i> , 2020, 158, 756-765.	5.4	12
759	Direct Imaging of Individual Molecular Binding to Clean Nanopore Edges in 2D Monolayer MoS ₂ . <i>ACS Nano</i> , 2020, 14, 153-165.	7.3	19
760	Confined growth of 2D MoS ₂ nanosheets in N-doped pearl necklace-like structured carbon nanofibers with boosted lithium and sodium storage performance. <i>Chemical Communications</i> , 2020, 56, 141-144.	2.2	56

#	ARTICLE	IF	CITATIONS
761	Sulfur-Rich Molybdenum Sulfide as an Anode Coating to Improve Performance of Lithium Metal Batteries. <i>ChemElectroChem</i> , 2020, 7, 222-228.	1.7	4
762	Atomic-Scale Fabrication of In-Plane Heterojunctions of Few-Layer MoS ₂ via In Situ Scanning Transmission Electron Microscopy. <i>Small</i> , 2020, 16, e1905516.	5.2	29
763	Pingpong-Energietransfer in kovalent verknüpfte Porphyrin-MoS ₂ -Architekturen. <i>Angewandte Chemie</i> , 2020, 132, 4004-4009.	1.6	7
764	Heteroatoms-doped 3D carbon nanosphere cages embedded with MoS ₂ for lithium-ion battery. <i>Electrochimica Acta</i> , 2020, 332, 135490.	2.6	25
765	Ping-Pong Energy Transfer in Covalently Linked Porphyrin-MoS ₂ Architectures. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3976-3981.	7.2	31
766	Aggregation morphology of planar engineered nanomaterials. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 849-853.	5.0	7
767	High-quality rGO/MoS ₂ composite via a facile pre-reduction-microwave-strategy for enhanced lithium and sodium storage. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153207.	2.8	22
768	Tailoring Magnetically Active Defect Sites in MoS ₂ Nanosheets for Spintronic Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 576-587.	2.4	37
769	Pyrene-functionalized tungsten disulfide as stable resistive photosensor. <i>Materials Advances</i> , 2020, 1, 2459-2466.	2.6	3
770	Engineering 2D Materials: A Viable Pathway for Improved Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2020, 10, 2002621.	10.2	45
771	Synthesis of Porous Nanostructured MoS ₂ Materials in Thermal Shock Conditions and Their Performance in Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 10802-10813.	2.5	8
772	2D Square Octagonal Molybdenum Disulfide: An Effective Anode Material for LIB/SIB Applications. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000157.	1.3	8
773	Study of the structural and electronic properties of three- and two-dimensional transition-metal dioxides using first-principles calculations. <i>Computational Condensed Matter</i> , 2020, 25, e00498.	0.9	5
774	Colloidal WSe ₂ nanocrystals as anodes for lithium-ion batteries. <i>Nanoscale</i> , 2020, 12, 22307-22316.	2.8	26
775	Two-Dimensional Near-Atom-Thickness Materials for Emerging Neuromorphic Devices and Applications. <i>IScience</i> , 2020, 23, 101676.	1.9	44
776	Prediction of a New Layered Polymorph of FeS ₂ with Fe ³⁺ S ²⁻ (S ₂) _{1/2} Structure. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8861-8866.	2.1	7
777	Low Crystalline MoS ₂ Nanotubes from MoS ₂ Nanomasks for Lithium Ion Battery Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 7580-7586.	2.4	27
778	Elucidating the Mechanism of Li Insertion into Fe _{1-x} S/Carbon <i>via In Operando</i> Synchrotron Studies. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52691-52700.	4.0	9

#	ARTICLE	IF	CITATIONS
779	MoS ₂ /graphene composites: Fabrication and electrochemical energy storage. <i>Energy Storage Materials</i> , 2020, 33, 470-502.	9.5	85
780	Inkjet-defined site-selective (IDSS) growth for controllable production of in-plane and out-of-plane MoS ₂ device arrays. <i>Nanoscale</i> , 2020, 12, 16917-16927.	2.8	7
781	Core-Sheath Structured MoO ₃ @MoS ₂ Composite for High-Performance Lithium-Ion Battery Anodes. <i>Energy & Fuels</i> , 2020, 34, 11498-11507.	2.5	18
782	Stable Lithium Sulfur Battery Based on In Situ Electrocatalytically Formed Li ₂ S on Metallic MoS ₂ -Carbon Cloth Support. <i>Small Methods</i> , 2020, 4, 2000353.	4.6	49
783	Controllable S-Vacancies of monolayered MoS ₂ nanocrystals for highly harvesting lithium storage. <i>Nano Energy</i> , 2020, 78, 105235.	8.2	41
784	Vertically Stacked 2H-1T Dual-Phase MoS ₂ Microstructures during Lithium Intercalation: A First Principles Study. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6603-6614.	1.9	15
785	Multi-dimensional hybrid heterostructure MoS ₂ @C nanocomposite as a highly reversible anode for high-energy lithium-ion capacitors. <i>Applied Surface Science</i> , 2020, 531, 147222.	3.1	27
786	Recent progress of molybdenum-based materials in aqueous rechargeable batteries. <i>Materials Today Advances</i> , 2020, 8, 100100.	2.5	18
787	2D Re ₂ -Based Transition Metal Chalcogenides: Progress, Challenges, and Opportunities. <i>Advanced Science</i> , 2020, 7, 2002320.	5.6	62
788	In situ electron microscopic observation of electrochemical Li-intercalation into MoS ₂ . <i>Solid State Ionics</i> , 2020, 357, 115488.	1.3	10
789	Two-Dimensional Black Phosphorus Nanomaterials: Emerging Advances in Electrochemical Energy Storage Science. <i>Nano-Micro Letters</i> , 2020, 12, 179.	14.4	82
790	Novel Two-Dimensional MoS ₂ -Ti ⁴⁺ Nanomaterial for Efficient Enrichment of Phosphopeptides and Large-Scale Identification of Histidine Phosphorylation by Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 12801-12808.	3.2	15
791	Three-Dimensional Porous Graphene Supported MoS ₂ Nanoflower Prepared by a Facile Solvothermal Method with Excellent Rate Performance and Sodium-Ion Storage. <i>Polymers</i> , 2020, 12, 2134.	2.0	11
792	Nonthermal Plasma-Enhanced Chemical Vapor Deposition of Two-Dimensional Molybdenum Disulfide. <i>ACS Omega</i> , 2020, 5, 21853-21861.	1.6	11
793	Synthesis of Honeycomb-Like Co ₃ S ₄ /MoS ₂ Composites with Hollow Structure As Anode Materials for High-Performance Lithium-Ion and Sodium-Ion Batteries. <i>Journal of Electronic Materials</i> , 2020, 49, 6519-6527.	1.0	5
794	3D carbon-coated stannous sulfide-molybdenum disulfide anodes for advanced lithium-ion batteries. <i>Materials Advances</i> , 2020, 1, 2323-2331.	2.6	5
795	Facile preparation of MoS ₂ /maleic acid composite as high-performance anode for lithium ion batteries. <i>New Journal of Chemistry</i> , 2020, 44, 15887-15894.	1.4	1
796	Boosting Redox-Active Sites of 1T MoS ₂ Phase by Phosphorus-Incorporated Hierarchical Graphene Architecture for Improved Li Storage Performances. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51329-51336.	4.0	16

#	ARTICLE	IF	CITATIONS
797	Peroxide-Induced Tuning of the Conductivity of Nanometer-Thick MoS ₂ Films for Solid-State Sensors. ACS Applied Nano Materials, 2020, 3, 10864-10877.	2.4	9
798	Recent Advances of Bimetallic Sulfide Anodes for Sodium Ion Batteries. Frontiers in Chemistry, 2020, 8, 353.	1.8	24
799	Selective Formation of the Li ₄ Mn ₅ O ₁₂ Surface Spinel Phase in Sulfur-Doped Li-Excess-Layered Cathode Materials for Improved Cycle Life. ACS Sustainable Chemistry and Engineering, 2020, 8, 8037-8048.	3.2	17
800	Construction of nanocage-structured heterogeneous binary metal sulfides <i>via</i> step-by-step confined growth for boosted lithium storage properties. Chemical Communications, 2020, 56, 6798-6801.	2.2	21
801	Multi-component (Ag–Au–Cu–Pd–Pt) alloy nanoparticle-decorated p-type 2D-molybdenum disulfide (MoS ₂) for enhanced hydrogen sensing. Nanoscale, 2020, 12, 11830-11841.	2.8	42
802	Covalent Assembly of MoS ₂ Nanosheets with SnS Nanodots as Linkages for Lithium/Sodium-Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 14621-14627.	7.2	124
803	Facile fabrication of flower-like MoS ₂ /nanodiamond nanocomposite toward high-performance humidity detection. Sensors and Actuators B: Chemical, 2020, 317, 128168.	4.0	28
804	Transition Metal Dichalcogenides for the Application of Pollution Reduction: A Review. Nanomaterials, 2020, 10, 1012.	1.9	73
805	Unveiling the solid-solution charge storage mechanism in 1T vanadium disulfide nanoarray cathodes. Journal of Materials Chemistry A, 2020, 8, 9068-9076.	5.2	36
806	Covalent Assembly of MoS ₂ Nanosheets with SnS Nanodots as Linkages for Lithium/Sodium-Ion Batteries. Angewandte Chemie, 2020, 132, 14729-14735.	1.6	26
807	Two-Dimensional Metal-Containing Nanomaterials for Battery Anode Applications. ChemElectroChem, 2020, 7, 3193-3210.	1.7	2
808	Enhanced electrochemical performance of MoS ₂ /graphene nanosheet nanocomposites. RSC Advances, 2020, 10, 19077-19082.	1.7	16
809	Carbon Nanobowls Filled with MoS ₂ Nanosheets as Electrode Materials for Supercapacitors. ACS Applied Nano Materials, 2020, 3, 6448-6459.	2.4	38
810	Supercritical hydrothermal synthesis of MoS ₂ nanosheets with controllable layer number and phase structure. Dalton Transactions, 2020, 49, 9377-9384.	1.6	17
811	Crystallization of TiO ₂ -MoS ₂ Hybrid Material under Hydrothermal Treatment and Its Electrochemical Performance. Materials, 2020, 13, 2706.	1.3	8
812	Electrical properties of Al ₂ O ₃ /WSe ₂ interface based on capacitance-voltage characteristics. Journal Physics D: Applied Physics, 2020, 53, 32LT01.	1.3	2
813	<i>In situ</i> Scanning Electron Microscopy Observation of MoS ₂ Nanosheets during Lithiation in Lithium Ion Batteries. ACS Applied Energy Materials, 2020, 3, 7066-7072.	2.5	20
814	Construction of Hierarchical Hollow MoS ₂ /Carbon Microspheres for Enhanced Lithium Storage Performance. Journal of the Electrochemical Society, 2020, 167, 100525.	1.3	10

#	ARTICLE	IF	CITATIONS
815	Enhanced electrochemical performance of MoS ₂ anode material with novel composite binder. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1607-1614.	1.2	6
816	Influence of extensive disorder on the first order phase transformation and its implications on the rate capability and cycling stability of MoS ₂ nanosheets in intercalation regime. <i>Journal of Power Sources</i> , 2020, 453, 227867.	4.0	3
817	Two-Dimensional Transition Metal Chalcogenides for Alkali Metal Ions Storage. <i>ChemSusChem</i> , 2020, 13, 1114-1154.	3.6	69
818	Transition metal dichalcogenides for biomedical applications. , 2020, , 211-247.		2
819	Single-Atom Catalytic Materials for Advanced Battery Systems. <i>Advanced Materials</i> , 2020, 32, e1906548.	11.1	156
820	Engaging tailored capacity of layered WS ₂ via sulphur bonding coupled with polyetherimide (WS ₂ @NC) nanocomposite for high power and improved lithium-ion storage. <i>Materials Chemistry and Physics</i> , 2020, 246, 122832.	2.0	12
821	Anode materials from MoS ₂ and multilayered holey graphene for Li-ion batteries. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020, 28, 328-334.	1.0	8
822	Reversible M ⁿ⁺ M Bonding by Alkaline Earth Metals (Mg, Ca, Sr, Ba) in Graphite Intercalation Compounds. <i>Chemistry - A European Journal</i> , 2020, 26, 8101-8104.	1.7	4
823	TMDs beyond MoS ₂ for Electrochemical Energy Storage. <i>Chemistry - A European Journal</i> , 2020, 26, 6320-6341.	1.7	52
824	Extraordinary lithium storage capacity and lithiation mechanism of partially amorphous molybdenum sulfide on chemically exfoliated graphene. <i>Electrochimica Acta</i> , 2020, 354, 136636.	2.6	10
825	Dual-Functional Multichannel Carbon Framework Embedded with CoS ₂ Nanoparticles: Promoting the Phase Transformation for High-Loading Li ⁺ S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32726-32735.	4.0	40
826	Natural Soft/Rigid Superlattices as Anodes for High-Performance Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17494-17498.	7.2	20
827	Photoinduced Electron Transfer in a MoS ₂ /Anthracene Mixed-Dimensional Heterojunction in Aqueous Media. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 745-750.	2.0	7
828	Natural Soft/Rigid Superlattices as Anodes for High-Performance Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 17647-17651.	1.6	2
829	Engineering defect-enabled 3D porous MoS ₂ /C architectures for high performance lithium-ion batteries. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4453-4462.	1.9	20
830	Atomic-scale investigation of enhanced lithium, sodium and magnesium storage performance from defects in MoS ₂ /graphene heterostructures. <i>Nanoscale</i> , 2020, 12, 7098-7108.	2.8	29
831	First-principles prediction of a two-dimensional vanadium carbide (MXene) as the anode for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5807-5818.	1.3	40
832	Application of MoS ₂ in the cathode of lithium sulfur batteries. <i>RSC Advances</i> , 2020, 10, 7384-7395.	1.7	23

#	ARTICLE	IF	CITATIONS
833	Oxalate-Based High-Capacity Conversion Anode for Potassium Storage. ACS Sustainable Chemistry and Engineering, 2020, 8, 3743-3750.	3.2	15
834	Rapid and mass-producible synthesis of high-crystallinity MoSe ₂ nanosheets by ampoule-loaded chemical vapor deposition. Nanoscale, 2020, 12, 6991-6999.	2.8	6
835	Comprehensive insights and perspectives into the recent progress of electrode materials for non-aqueous K-ion battery. Journal of Materiomics, 2020, 6, 431-454.	2.8	22
836	Simple hydrothermal approach for synthesis of fluorescent molybdenum disulfide quantum dots: Sensing of Cr ³⁺ ion and cellular imaging. Materials Science and Engineering C, 2020, 111, 110778.	3.8	21
837	Amorphous MoS _x embedded within edges of modified graphite as fast-charging anode material for rechargeable batteries. Applied Surface Science, 2020, 509, 145352.	3.1	13
838	Nonvolatile Resistive Switching in Nanocrystalline Molybdenum Disulfide with Ion-Based Plasticity. Advanced Electronic Materials, 2020, 6, 1900892.	2.6	19
839	On battery materials and methods. Materials Today Advances, 2020, 6, 100046.	2.5	81
840	Aloe vera-peel derived porous carbon integrated Co/Mn-oxide based nano-hybrids: An efficient electrocatalyst in advanced photovoltaics. Journal of Power Sources, 2020, 451, 227731.	4.0	29
841	Electrochemical generation of liquid and solid sulfur on two-dimensional layered materials with distinct areal capacities. Nature Nanotechnology, 2020, 15, 231-237.	15.6	65
842	Room temperature processed in-situ carbon-coated vanadium carbide (VC@C) as a high capacity robust Li/Na battery anode material. Carbon, 2020, 161, 108-116.	5.4	24
843	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. Energy and Environmental Science, 2020, 13, 1096-1131.	15.6	266
844	How does Molybdenum Disulfide Store Charge: A Mini-review. ChemSusChem, 2020, 13, 1354-1365.	3.6	30
845	Lithium-ion storage in molybdenum phosphides with different crystal structures. Dalton Transactions, 2020, 49, 2225-2233.	1.6	12
846	Strongly anchored MnO nanoparticles on graphene as high-performance anode materials for lithium-ion batteries. Ionics, 2020, 26, 3315-3323.	1.2	14
847	Sodium-Storage Behavior of Exfoliated MoS ₂ as an Electrode Material for Solid-State Batteries with Na ₃ PS ₄ as the Solid Electrolyte. Journal of Physical Chemistry C, 2020, 124, 10298-10305.	1.5	13
848	Layered transition metal dichalcogenide/carbon nanocomposites for electrochemical energy storage and conversion applications. Nanoscale, 2020, 12, 8608-8625.	2.8	32
849	Black Phosphorus/Hollow Porous Carbon for High Rate Performance Lithium-Ion Battery. ChemElectroChem, 2020, 7, 2184-2189.	1.7	11
850	Interstratified heterostructures of metal hydroxide nanoclusters and MoS ₂ monolayers with improved electrode performance. Nanoscale, 2020, 12, 11759-11766.	2.8	7

#	ARTICLE	IF	CITATIONS
851	Ultrahigh capacity 2D anode materials for lithium/sodium-ion batteries: an entirely planar B ₇ P ₂ monolayer with suitable pore size and distribution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10301-10309.	5.2	44
852	Solvothermal-assisted assembly of MoS ₂ nanocages on graphene sheets to enhance the electrochemical performance of lithium-ion battery. <i>Nano Research</i> , 2020, 13, 1029-1034.	5.8	28
853	Self-supporting and 3D MoS ₂ /MoO ₂ /CNT/graphene foam as high-performance anode for lithium ion batteries. <i>Ionics</i> , 2021, 27, 75-84.	1.2	6
854	Facile synthesis of hetero-structured few-layer MoS ₂ -coated MoO ₂ as superior anode materials of lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156726.	2.8	5
855	Molybdenum disulfide synthesized by molybdenum-based metal organic framework with high activity for sodium ion battery. <i>Electrochimica Acta</i> , 2021, 365, 137353.	2.6	33
856	Biomedical applications of transition metal dichalcogenides (TMDCs). <i>Synthetic Metals</i> , 2021, 271, 116610.	2.1	39
857	Ultrathin MoS ₂ anchored on 3D carbon skeleton containing SnS quantum dots as a high-performance anode for advanced lithium ion batteries. <i>Chemical Engineering Journal</i> , 2021, 403, 126251.	6.6	105
858	WS ₂ and MoS ₂ counter electrode materials for dye-sensitized solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2021, 29, 238-261.	4.4	48
859	Metal-Organic Framework Derived Bimetallic Materials for Electrochemical Energy Storage. <i>Angewandte Chemie</i> , 2021, 133, 11148-11167.	1.6	12
860	Lithium-activated Sn-graphene alternating nanolayers enable dendrite-free cycling of thin sodium metal anodes in carbonate electrolyte. <i>Energy and Environmental Science</i> , 2021, 14, 382-395.	15.6	65
861	Nanoscale coupling of MoS ₂ and graphene via rapid thermal decomposition of ammonium tetrathiomolybdate and graphite oxide for boosting capacity of Li-ion batteries. <i>Carbon</i> , 2021, 173, 194-204.	5.4	25
862	Atomic investigation on structural rearrangement of MoS ₂ /graphene heterostructure upon electrochemical lithiation and delithiation. <i>Materials Letters</i> , 2021, 282, 128846.	1.3	2
863	2D interspace confined growth of ultrathin MoS ₂ -intercalated graphite hetero-layers for high-rate Li/K storage. <i>Nano Research</i> , 2021, 14, 1061-1068.	5.8	19
864	In situ electron-doping of MoS ₂ thin films by embedded MoO _x S _y particles during chemical vapor deposition. <i>Journal of Materials Science</i> , 2021, 56, 2879-2886.	1.7	3
865	Advanced Applications of Emerging 2D Nanomaterials in Construction Materials. <i>Lecture Notes in Civil Engineering</i> , 2021, , 247-256.	0.3	0
866	Molecular Understanding of Charge Storage in MoS ₂ Supercapacitors with Ionic Liquids. <i>Energy and Environmental Materials</i> , 2021, 4, 631-637.	7.3	20
867	Two-dimensional Janus van der Waals heterojunctions: A review of recent research progresses. <i>Frontiers of Physics</i> , 2021, 16, 1.	2.4	37
868	The role of substrate on the growth of 2D heterostructures by CVD. <i>Applied Surface Science</i> , 2021, 539, 148226.	3.1	7

#	ARTICLE	IF	CITATIONS
869	Novel Designed MnSâ€MoS ₂ Heterostructure for Fast and Stable Li/Na Storage: Insights into the Advanced Mechanism Attributed to Phase Engineering. <i>Advanced Functional Materials</i> , 2021, 31, 2007132.	7.8	91
870	Metalâ€Organic Framework Derived Bimetallic Materials for Electrochemical Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11048-11067.	7.2	179
871	Tin oxide for optoelectronic, photovoltaic and energy storage devices: a review. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16621-16684.	5.2	146
872	Two-dimensional WS ₂ /MoS ₂ heterostructures: properties and applications. <i>Nanoscale</i> , 2021, 13, 5594-5619.	2.8	73
873	Engineering of Excitonâ€Plasmon Coupling Using 2D-WS ₂ Nanosheets for 1000-Fold Fluorescence Enhancement in Surface Plasmon-Coupled Emission Platforms. <i>Langmuir</i> , 2021, 37, 1954-1960.	1.6	10
874	Structure and properties of 2D materials in general and their importance to energy storage. , 2021, , 11-75.		0
875	Nanostructured transition metal chalcogenides for rechargeable batteries. , 2021, , 383-431.		0
876	Multimodal hybrid 2D networks via the thiol-epoxide reaction on 1T/2H MoS ₂ polytypes. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3470-3479.	3.2	1
877	Defect-Free MoS ₂ -Flakes/Amorphous-Carbon Hybrid as an Advanced Anode for Lithium-Ion Batteries. <i>Energy & Fuels</i> , 2021, 35, 3459-3468.	2.5	17
878	GeP ₃ /NbX ₂ (X=S, Se) Nano-Heterostructures: Promising Isotropic Flexible Anodes for Lithium-Ion Batteries with High Lithium Storage Capacity. <i>ACS Omega</i> , 2021, 6, 2956-2965.	1.6	6
879	Structural and chemical characterization of MoO ₂ /MoS ₂ triple-hybrid materials using electron microscopy in up to three dimensions. <i>Nanoscale Advances</i> , 2021, 3, 1067-1076.	2.2	2
880	A solvent decomposition and explosion approach for boron nanoplate synthesis. <i>Chemical Communications</i> , 2021, 57, 4922-4925.	2.2	3
881	Transition metal dichalcogenide-decorated MXenes: promising hybrid electrodes for energy storage and conversion applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3298-3321.	3.2	66
882	Engineering two-dimensional materials for high-performance supercapacitor devices. , 2021, , 359-387.		6
883	Polyoxometalate@MOF derived porous carbon-supported MoO ₂ /MoS ₂ octahedra boosting high-rate lithium storage. <i>Dalton Transactions</i> , 2021, 50, 14595-14601.	1.6	15
884	Crystalline coordination polymer-derived MoS ₂ quantum dot-doped carbon nanoflakes with ultrafast Li ⁺ transfer. <i>Chemical Communications</i> , 2021, 57, 8151-8153.	2.2	5
885	Preparation of a polymer nanocomposite <i>via</i> the polymerization of pyrroleâ€biphenyldisulfonic acidâ€pyrrole as a two-monomer-connected precursor on MoS ₂ for electrochemical energy storage. <i>Nanoscale</i> , 2021, 13, 5868-5874.	2.8	11
886	Freeâ€standing molybdenum disulfides on porous carbon cloth for lithiumâ€ion battery anodes. <i>International Journal of Energy Research</i> , 2021, 45, 11329-11337.	2.2	7

#	ARTICLE	IF	CITATIONS
887	The structural characteristics and electrical of MoS ₂ and MoS ₂ /graphene: a first-principles study. IOP Conference Series: Earth and Environmental Science, 2021, 675, 012198.	0.2	2
888	Electrochemical exfoliation of molybdenum disulfide nanosheets for high-performance supercapacitors. Journal of Materials Science: Materials in Electronics, 2021, 32, 7237-7248.	1.1	8
889	Lithium-Ion Capacitors: A Review of Design and Active Materials. Energies, 2021, 14, 979.	1.6	41
890	Improving Lithium-Ion Diffusion Kinetics in Nano-Si@C Anode Materials with Hierarchical MoS ₂ Decoration for High-Performance Lithium-Ion Batteries. ChemElectroChem, 2021, 8, 1270-1279.	1.7	11
891	Recent Developments and Future Prospects for Zinc-Ion Hybrid Capacitors: a Review. Advanced Energy Materials, 2021, 11, 2003994.	10.2	219
892	Nanocomposites of 1D MoS ₂ with Polymer-Functionalized Nanotubes of Carbon and Borocarbonitride, and Their HER Activity. ACS Applied Energy Materials, 2021, 4, 2339-2347.	2.5	21
893	Assemble of Bi-doped TiO ₂ onto 2D MoS ₂ : an efficient p-n heterojunction for photocatalytic H ₂ generation under visible light. Nanotechnology, 2021, 32, 195402.	1.3	20
894	Unique three-dimensional hierarchical heterogeneous MoS ₂ /graphene structures as a high-performance anode material for lithium-ion batteries. Ionics, 2021, 27, 1977-1986.	1.2	5
895	Three-Dimensional Flower-like Fe, C-Doped-MoS ₂ /Ni ₃ S ₂ Heterostructures Spheres for Accelerating Electrocatalytic Oxygen and Hydrogen Evolution. Crystals, 2021, 11, 340.	1.0	12
896	Evidence for the Coexistence of Polysulfide and Conversion Reactions in the Lithium Storage Mechanism of MoS ₂ Anode Material. Chemistry of Materials, 2021, 33, 1935-1945.	3.2	16
897	Atomic-Layer-Deposition-Based 2D Transition Metal Chalcogenides: Synthesis, Modulation, and Applications. Advanced Materials, 2021, 33, e2005907.	11.1	42
898	Advances of 2D MoS ₂ for High-Energy Lithium Metal Batteries. Frontiers in Energy Research, 2021, 9, .	1.2	15
899	Glucose-Assisted One-Pot Hydrothermal Synthesis of Hierarchical-Structured MoS ₂ /C Quasi-Hollow Microspheres for High-Performance Lithium Ion Battery. Polymers, 2021, 13, 837.	2.0	6
900	Metallic Transition Metal Dichalcogenides of Group VIB: Preparation, Stabilization, and Energy Applications. Small, 2021, 17, e2005573.	5.2	19
901	Interlayer spacing engineering in N doped MoS ₂ for efficient lithium ion storage. Materials Chemistry and Physics, 2021, 261, 124166.	2.0	11
902	Ag Nanoparticle-Decorated MoS ₂ Nanosheets for Enhancing Electrochemical Performance in Lithium Storage. Nanomaterials, 2021, 11, 626.	1.9	21
903	Advances in transition metal dichalcogenide-based two-dimensional nanomaterials. Materials Today Chemistry, 2021, 19, 100399.	1.7	50
904	One-pot hydrothermal synthesis of MoS ₂ anchored corn-cob-derived carbon nanospheres for use as a high-capacity anode for reversible Li-ion battery. Journal of Solid State Chemistry, 2021, 296, 122020.	1.4	19

#	ARTICLE	IF	CITATIONS
905	Enhancing the Capacity and Stability of a Tungsten Disulfide Anode in a Lithium-Ion Battery Using Excess Sulfur. ACS Applied Materials & Interfaces, 2021, 13, 20213-20221.	4.0	8
906	Tubular MoSSe/carbon nanotube electrodes for hybrid-ion capacitors. Electrochimica Acta, 2021, 374, 137971.	2.6	7
907	Atomically Thin Nanosheets Confined in 2D Heterostructures: Metal-Ion Batteries Prospective. Advanced Energy Materials, 2021, 11, 2100451.	10.2	35
908	Phase evolution and structural modulation during in situ lithiation of MoS ₂ , WS ₂ and graphite in TEM. Scientific Reports, 2021, 11, 9014.	1.6	10
909	Two-Dimensional Graphene/BlueP/MoS ₂ van der Waals Multilayer Heterostructure as a High-Performance Anode Material for LIBs. Journal of Physical Chemistry C, 2021, 125, 8980-8992.	1.5	8
910	A biomass-derived biochar-supported NiS/C anode material for lithium-ion batteries. Ceramics International, 2021, 47, 20948-20955.	2.3	26
911	Designing Nanostructured Metal Chalcogenides as Cathode Materials for Rechargeable Magnesium Batteries. Small, 2021, 17, e2007683.	5.2	52
912	Phase-engineering strategy of MoS ₂ nanosheets embedded in Bronze-TiO ₂ nanobelts for boosting lithium storage. Ceramics International, 2021, 47, 21610-21617.	2.3	11
913	Tuning growth of MoS ₂ nanowires over NiTiCu nanostructured array for flexible supercapacitive electrodes with enhanced Li-ion storage. Applied Physics Letters, 2021, 118, .	1.5	29
914	Boosting high-rate Li storage of bulb-like O-MoS@C nanoreactors with sulfur vacancies and carbon. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 617, 126406.	2.3	6
915	Tungsten Disulfide/Polyaniline High Frequency Supercapacitors. Advanced Electronic Materials, 2021, 7, 2100025.	2.6	25
916	MoS ₂ for beyond lithium-ion batteries. APL Materials, 2021, 9, .	2.2	22
917	Nano Biosensors: Properties, applications and electrochemical techniques. Journal of Materials Research and Technology, 2021, 12, 1649-1672.	2.6	166
918	A Review on the Current Progress and Challenges of 2D Layered Transition Metal Dichalcogenides as Li/Na-Ion Battery Anodes. ChemElectroChem, 2021, 8, 2358-2396.	1.7	25
919	Composite Fabrics of Conformal MoS ₂ Grown on CNT Fibers: Tough Battery Anodes without Metals or Binders. ACS Applied Energy Materials, 2021, 4, 5668-5676.	2.5	12
920	Strain-tunable electronic and optical properties of Zr ₂ CO ₂ MXene and MoSe ₂ van der Waals heterojunction: A first principles calculation. Applied Surface Science, 2021, 548, 149249.	3.1	33
921	Direct Identification of Surface Bound MoO ₃ on Single MoS ₂ Flakes Heated in Dry and Humid Air. Advanced Materials Interfaces, 2021, 8, 2100328.	1.9	11
922	Photo/electrochemical Carbon Dioxide Conversion into C ₃₊ Hydrocarbons: Reactivity and Selectivity. ChemNanoMat, 2021, 7, 969-981.	1.5	10

#	ARTICLE	IF	CITATIONS
923	Recent Advances in Transition Metal Dichalcogenide Cathode Materials for Aqueous Rechargeable Multivalent Metal-Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 1517.	1.9	27
924	Ordered mesoporous carbon with tubular framework supported SnO ₂ nanoparticles intertwined in MoS ₂ nanosheets as an anode for advanced lithium-ion batteries with outstanding performances. <i>Electrochimica Acta</i> , 2021, 380, 138195.	2.6	10
925	Improving stability using a mixed ion/hybrid electrolyte strategy in a sodium ion capacitor. <i>Journal of Power Sources</i> , 2021, 500, 229918.	4.0	5
926	Boosting the Activity and Stability with Dual Metal Couplings for Li ⁺ /O ₂ Battery. <i>Energy and Environmental Materials</i> , 2022, 5, 918-927.	7.3	11
927	Heteroatoms/molecules to tune the properties of 2D materials. <i>Materials Today</i> , 2021, 47, 108-130.	8.3	20
928	Layered 2H-MoTe ₂ : A novel anode material for lithium-ion batteries. <i>Materials Today: Proceedings</i> , 2021, , .	0.9	3
929	Unusual n-type doping of monolayer WSe ₂ by CF ₄ plasma treatment. <i>Materials Letters</i> , 2021, 295, 129865.	1.3	5
930	Capacitance-voltage analysis of Al ₂ O ₃ /WS ₂ metal-oxide-semiconductor capacitors. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 41LT01.	1.3	1
931	Enhanced performance of multilayer MoS ₂ transistors encapsulated with a photoresist. <i>Nanotechnology</i> , 2021, 32, 42LT01.	1.3	1
932	Eutectoid WxC embedded WS ₂ nanosheets as a hybrid composite anode for lithium-ion batteries. <i>Ceramics International</i> , 2021, 47, 18646-18655.	2.3	12
933	Supersized Graphitic Tube@MoS ₂ Pipelines with Abundant Ion Channels Synthesized by Selective Deposition toward High-Performance Anodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 6866-6873.	2.5	5
934	Revisiting lithium-storage mechanisms of molybdenum disulfide. <i>Chinese Chemical Letters</i> , 2022, 33, 1779-1797.	4.8	21
935	Enabling superior sodium storage behavior of MoS ₂ in ether-based electrolytes. <i>Functional Materials Letters</i> , 0, , .	0.7	1
936	Recent Advances and Need of Green Synthesis in Two-Dimensional Materials for Energy Conversion and Storage Applications. <i>Current Nanoscience</i> , 2021, 17, 554-571.	0.7	8
937	MoS ₂ /Polythiophene Composite Cathode as a Potential Host for Rechargeable Aluminum Batteries: Deciphering the Impact of Processing on the Performance. <i>ACS Applied Energy Materials</i> , 2021, 4, 9227-9239.	2.5	11
938	Characterizing Batteries by In Situ Electrochemical Atomic Force Microscopy: A Critical Review. <i>Advanced Energy Materials</i> , 2021, 11, 2101518.	10.2	40
939	MoS ₂ @Mo ₂ C hybrid nanostructures formation as an efficient anode material for lithium-ion batteries. <i>Journal of Materials Research and Technology</i> , 2021, 14, 2382-2393.	2.6	20
940	Interlayer Coupling Dependent Discrete H ⁺ T ² Phase Transition in Lithium Intercalated Bilayer Molybdenum Disulfide. <i>ACS Nano</i> , 2021, 15, 15039-15046.	7.3	15

#	ARTICLE	IF	CITATIONS
941	Reshaping two-dimensional MoS ₂ for superior magnesium-ion battery anodes. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 401-408.	5.0	16
942	Synthesis and electrochemical performances of MoS _x /ZnS/C composites for lithium ion battery application. <i>Ionics</i> , 2022, 28, 477-485.	1.2	1
943	Macrophage-Like NiSe ₂ @C@Ni Nanofoams As High-Performance Anode Material for Lithium-Ion Batteries. <i>Russian Journal of Physical Chemistry A</i> , 2021, 95, 1911-1917.	0.1	0
944	The construction of three-dimensional CdIn ₂ S ₄ /MoS ₂ composite materials for efficient hydrogen production. <i>Journal of Alloys and Compounds</i> , 2022, 892, 162168.	2.8	18
945	Anode Material for Lithium-Ion Batteries Based on MoS ₂ and Conductive Polymer Binder: Effects of Electrode Thickness. <i>International Journal of Electrochemical Science</i> , 2021, 16, 211023.	0.5	1
946	Electrochemical kinetics as a function of transition metal dichalcogenide thickness. <i>Electrochimica Acta</i> , 2021, 393, 139027.	2.6	12
947	The effect of hydrogen induced point defects on lithiation kinetics in manganese niobate anode. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160190.	2.8	6
948	Sulfur-atom-expanded MoS ₂ nanosheets with enhanced lithium-ion storage. <i>Applied Surface Science</i> , 2021, 563, 150261.	3.1	4
949	Doubling the cyclic stability of 3D hierarchically structured composites of 1T-MoS ₂ /polyaniline/graphene through the formation of LiF-rich solid electrolyte interphase. <i>Applied Surface Science</i> , 2021, 565, 150582.	3.1	13
950	A CNT/MoS ₂ @PPy composite with double electron channels and boosting charge transport for high-rate lithium storage. <i>Applied Surface Science</i> , 2021, 566, 150693.	3.1	24
951	3D tremella-like nitrogen-doped carbon encapsulated few-layer MoS ₂ for lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 594-603.	5.0	19
952	Robust ferromagnetism in Mn and Co doped 2D-MoS ₂ nanosheets: Dopant and phase segregation effects. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 537, 168226.	1.0	5
953	2D materials for bone therapy. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113970.	6.6	23
954	Synthesis of bimetallic sulfide FeCoS ₄ @carbon nanotube graphene hybrid as a high-performance anode material for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 423, 130070.	6.6	23
955	Low crystalline 1T-MoS ₂ @S-doped carbon hollow spheres as an anode material for Lithium-ion battery. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 411-417.	5.0	21
956	Investigating the potentials of TiVC MXenes as anode materials for Li-ion batteries by DFT calculations. <i>Applied Surface Science</i> , 2021, 569, 151002.	3.1	13
957	Engineering solid-electrolyte interface from aqueous deep-eutectic solvent to enhance the capacity and lifetime of self-assembled heterostructures of 1T-MoS ₂ /graphene. <i>Chemical Engineering Journal</i> , 2022, 427, 130966.	6.6	16
958	Core-shell GaP@C nanoparticles with a thin and uniform carbon coating as a promising anode material for rechargeable lithium-ion batteries. <i>Dalton Transactions</i> , 2021, 50, 1703-1711.	1.6	6

#	ARTICLE	IF	CITATIONS
959	Nanomaterials for electrochemical energy storage. <i>Frontiers of Nanoscience</i> , 2021, 18, 421-484.	0.3	2
960	Atomic Layer Deposition of 2D Metal Dichalcogenides for Electronics, Catalysis, Energy Storage, and Beyond. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001677.	1.9	39
961	Layered electrode materials for non-aqueous multivalent metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19317-19345.	5.2	15
962	The precise synthesis of twin-born Fe ₃ O ₄ /FeS/carbon nanosheets for high-rate lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4579-4588.	3.2	28
963	3D Chemical Cross-Linking Structure of Black Phosphorus@CNTs Hybrid as a Promising Anode Material for Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1909372.	7.8	92
964	Conductor-Free Anode of Transition Metal Dichalcogenide Nanosheets Self-Assembled with Graft Polymer Li-ion Channels. <i>Advanced Energy Materials</i> , 2021, 11, 2003243.	10.2	11
965	In-Plane Isotropic/Anisotropic 2D van der Waals Heterostructures for Future Devices. <i>Small</i> , 2019, 15, e1804733.	5.2	46
966	Nanosheet-stacked flake graphite for high-performance Al storage in inorganic molten AlCl ₃ -NaCl salt. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 1711-1722.	2.4	5
967	How does the active site in the MoSe ₂ surface affect its electrochemical performance as anode material for metal-ion batteries?. <i>Applied Surface Science</i> , 2020, 526, 146637.	3.1	16
968	Hollow I-Cu ₂ MoS ₄ nanocubes coupled with an ether-based electrolyte for highly reversible lithium storage. <i>Journal of Colloid and Interface Science</i> , 2020, 577, 86-91.	5.0	17
969	Metallic 1T MoS ₂ nanosheet arrays vertically grown on activated carbon fiber cloth for enhanced Li-ion storage performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14061-14069.	5.2	232
970	Improving the electrochemical performance of a natural molybdenite/N-doped graphene composite anode for lithium-ion batteries via short-time microwave irradiation. <i>RSC Advances</i> , 2020, 10, 43012-43020.	1.7	3
971	Editors' Choice Review Conductive Forms of MoS ₂ and Their Applications in Energy Storage and Conversion. <i>Journal of the Electrochemical Society</i> , 2020, 167, 126517.	1.3	46
972	VS ₂ ; Nanosheets: A Potential Anode Material for Li-ion Batteries. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2015, 30, 1339.	0.6	10
973	A FIRST-PRINCIPLES INVESTIGATIONS OF LITHIUM ADSORPTION AND DIFFUSION ON BN, AlN AND GaN MONOLAYERS. <i>Eskişehir Technical University Journal of Science and Technology A - Applied Sciences and Engineering</i> , 0, , .	0.4	3
974	Hydrogen adsorption mechanism on single-layer MoSe ₂ for hydrogen evolution reaction: First-principles study. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 217102.	0.2	2
975	Synthesis of few-layer MoS ₂ @N-doped carbon core-shell hollow spheres using a cationic surfactant as a template for highly stable lithium-ion storage. <i>Materials Advances</i> , 0, , .	2.6	2
976	Promising Cathode Material Based on Inorganic Nanocomposites for Li ⁺ -intercalation Current Generation. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
977	Characterizing Li in partially lithiated layer materials using atomic-resolution imaging, modeling, and simulation. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1581.	1.9	1
978	Phase engineering of transition metal compounds for boosting lithium/sodium storage. <i>APL Materials</i> , 2021, 9, .	2.2	3
979	Understanding LiI-LiBr Catalyst Activity for Solid State Li ₂ S/S Reactions in an All-Solid-State Lithium Battery. <i>Nano Letters</i> , 2021, 21, 8488-8494.	4.5	30
980	Organic/Inorganic Hybrid Fibers: Controllable Architectures for Electrochemical Energy Applications. <i>Advanced Science</i> , 2021, 8, e2102859.	5.6	32
981	Preparation and Characterization of Graphene-MoS ₂ Composite Anode Materials. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2016, 31, 345.	0.6	0
983	In situ investigation of dynamic processes in materials for energy storage. , 2018, , .		0
984	A First-Principles Study of MBene as Anode Material for Mg-Ion Battery. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	1.1	9
985	Electronic structure and electrical transport properties of MoS ₂ single-walled nanotubes based on first principles. <i>International Journal of Modern Physics B</i> , 2021, 35, .	1.0	1
986	T-Nb ₂ O ₅ @Nb ₂ O ₅ @C Composites Based on the Intercalation-Conversion Mechanism as an Anode Material for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 12365-12373.	2.5	5
987	Ultrathin MoS ₂ nanosheets anchored on carbon nanofibers as free-standing flexible anode with stable lithium storage performance. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162550.	2.8	58
988	Few-Layered MoS ₂ Nanoparticles Covering Anatase TiO ₂ Nanosheets: Comparison between Ex Situ and In Situ Synthesis Approaches. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 143.	1.3	5
989	Bionanohybrid composed of metalloprotein/DNA/MoS ₂ /peptides to control the intracellular redox states of living cells and its applicability as a cell-based biomemory device. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113725.	5.3	6
990	Enhanced field emission behavior of BiVO ₄ -MoS ₂ nanocomposite. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
991	Facile fabrication of conductive MoS ₂ thin films by sonication in hot water and evaluation of their electrocatalytic performance in the hydrogen evolution reaction. <i>Nanoscale Advances</i> , 2021, 4, 125-137.	2.2	10
992	A promising rosy future for supercapacitors: Suitability of MoS ₂ hollow nanoroses for supercapacitor electrodes. <i>International Journal of Materials Research</i> , 0, , .	0.1	1
993	Simultaneous optimization of K/Co co-substituted Na ₃ V ₂ (PO ₄) ₃ /C nano particles enwrapped on lamellar rGO substrate with high performance for asymmetric sodium ion full cell. <i>Applied Surface Science</i> , 2022, 578, 152000.	3.1	14
994	Progress in additive manufacturing of MoS ₂ -based structures for energy storage applications – A review. <i>Materials Science in Semiconductor Processing</i> , 2022, 139, 106331.	1.9	24
995	Development of a Liquid Immersion-Type Nickel-Metal Hydride Battery Under High-Pressure. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120511.	1.3	2

#	ARTICLE	IF	CITATIONS
996	Revisiting the Structural Evolution of MoS ₂ During Alkali Metal (Li, Na, and K) Intercalation. ACS Applied Energy Materials, 2021, 4, 14180-14190.	2.5	7
997	Engineering metal-sulfides with cations-tunable metal-oxides electrocatalysts with promoted catalytic conversion for robust ions-storage capability. Energy Storage Materials, 2022, 45, 1183-1200.	9.5	26
998	Microwave-assisted oxidative coupling of thiols using polystyrene supported bromoderivatives of 2-oxazolidone. Polymers and Polymer Composites, 2021, 29, S1351-S1360.	1.0	0
999	2D-2D MXene/ReS ₂ hybrid from Ti ₃ C ₂ T _x MXene conductive layers supporting ultrathin ReS ₂ nanosheets for superior sodium storage. Chemical Engineering Journal, 2022, 431, 133796.	6.6	36
1000	Hydrothermal synthesis of Co ₃ O ₄ nanoparticles decorated three dimensional MoS ₂ nanoflower for exceptionally stable supercapacitor electrode with improved capacitive performance. Journal of Energy Storage, 2022, 47, 103551.	3.9	18
1001	Photo Rechargeable Li-ion Batteries Using Nanorod Heterostructure Electrodes. Small, 2021, 17, e2105029.	5.2	25
1002	Effect of porous structural properties on lithium-ion and sodium-ion storage: illustrated by the example of a micro-mesoporous graphene (MoS ₂) anode. RSC Advances, 2021, 11, 34152-34159.	1.7	8
1003	Effect of different shell structure on lithium storage properties of MoS ₂ anode. Journal of Electroanalytical Chemistry, 2022, 905, 115972.	1.9	3
1004	Polyaniline intercalated MoS ₂ nanosheet array aligned on reduced oxide graphene as high performance anode for lithium-ion batteries. Solid State Ionics, 2022, 375, 115838.	1.3	14
1005	MoS ₂ /C ₃ N heterostructure: A promising anode material for Lithium-ion batteries. Applied Surface Science, 2022, 580, 152371.	3.1	15
1006	Review Molybdenum Disulfide for Different Applications -A Review. Pakistan Journal of Scientific and Industrial Research Series A: Physical Sciences, 2020, 63, 220-230.	0.2	0
1007	Influence of Crystal Disorder in MoS. Australian Journal of Chemistry, 2021, 74, 819-825.	0.5	2
1008	Rapid In-Situ Synthesis and Patterning of Edge-Unsaturated MoS ₂ by Femtosecond Laser-Induced Photo-Chemical Reaction. ACS Applied Materials & Interfaces, 2022, 14, 5558-5566.	4.0	6
1009	Computational Studies of MoS ₂ Nanotubes for Hydrodesulfurization. ACS Applied Nano Materials, 2022, 5, 2029-2037.	2.4	3
1010	Molybdenum Disulfide/Tin Disulfide Ultrathin Nanosheets as Cathodes for Sodium-Carbon Dioxide Batteries. ACS Applied Materials & Interfaces, 2022, 14, 5834-5842.	4.0	10
1011	Economical preparation of porous polyacrylonitrile-derived carbon/molybdenum disulfide composite anode for high-performance lithium-ion battery. Journal of Materials Science, 2022, 57, 1246-1260.	1.7	2
1012	Uniform growth of MoS ₂ films using ultra-low MoO ₃ precursor in one-step heating chemical vapor deposition. Thin Solid Films, 2022, 744, 139092.	0.8	6
1013	Constructing hierarchical heterojunction structure for K/Co co-substituted Na ₃ V ₂ (PO ₄) ₃ by integrating carbon quantum dots. Journal of Colloid and Interface Science, 2022, 613, 536-546.	5.0	12

#	ARTICLE	IF	CITATIONS
1014	Dual Roles of Mos2 Nanosheets in Advanced Oxidation Processes: Activating Permonosulfate and Quenching Radicals. SSRN Electronic Journal, 0, , .	0.4	0
1015	Exploring Structural, Electronic, Magnetic, and Optical Properties of Mn Doped Mos2 with and Without Hubbard Correction. SSRN Electronic Journal, 0, , .	0.4	0
1016	MoP ₂ /C@rGO synthesised by phosphating the molybdenum-based metal organic framework and GO coating with excellent lithium ion storage performance. Dalton Transactions, 2022, 51, 6390-6398.	1.6	3
1017	Toward layered MoS ₂ anode for harvesting superior lithium storage. RSC Advances, 2022, 12, 9917-9922.	1.7	0
1018	MXene based Heterostructures for electrode materials of Batteries: A Review. IOP Conference Series: Materials Science and Engineering, 2022, 1225, 012018.	0.3	3
1019	CRYSTALLINE AND NANOSTRUCTURED MATERIALS BASED ON TRANSITION METAL DICHALCOGENIDES: SYNTHESIS AND ELECTRONIC PROPERTIES. Journal of Structural Chemistry, 2022, 63, 176-226.	0.3	6
1020	Nanohybridization of CoS ₂ /MoS ₂ Heterostructure with Polyoxometalate on Functionalized Reduced Graphene Oxide for High-Performance LIBs. Chemistry - A European Journal, 2022, 28, .	1.7	8
1021	Comparison and evaluation of the performance of graphene-based biosensors. Carbon Letters, 2022, 32, 927-951.	3.3	34
1022	Highly Sensitive and Selective Triethylamine Sensing through High-Entropy Alloy (Ti-Zr-Cr-V-Ni) Nanoparticle-Induced Fermi Energy Control of MoS ₂ Nanosheets. ACS Applied Materials & Interfaces, 2022, 14, 13653-13664.	4.0	13
1023	Hybrid MoS ₂ +x Nanosheet/Nanocarbon Heterostructures for Lithium-Ion Batteries. ACS Applied Nano Materials, 2022, 5, 5103-5118.	2.4	7
1024	In Situ Growth of W ₂ C/WS ₂ with Carbon-Nanotube Networks for Lithium-Ion Storage. Nanomaterials, 2022, 12, 1003.	1.9	8
1025	Boron Oxide Enhancing Stability of MoS ₂ Anode Materials for Lithium-Ion Batteries. Materials, 2022, 15, 2034.	1.3	5
1026	Tuning the Chemical and Mechanical Properties of Conductive MoS ₂ Thin Films by Surface Modification with Aryl Diazonium Salts. Langmuir, 2022, 38, 3666-3675.	1.6	4
1027	A new 2-methylimidazole-assisted liquid-exfoliation method for a rapid scalable fabrication of chemically pure MoS ₂ nanosheets. Colloids and Interface Science Communications, 2022, 47, 100604.	2.0	5
1028	An annular porous column (5) aromatics as anode material for lithium-ion batteries. Journal of Solid State Electrochemistry, 0, , 1.	1.2	0
1029	Embedding of ultra-dispersed MoS ₂ nanosheets in N,O heteroatom-modified carbon nanofibers for improved adsorption of Hg ²⁺ . Composites Communications, 2022, 31, 101106.	3.3	28
1030	First principles study of Li adsorption properties of a Borophene based hybrid 2D material B ₅ Se. Applied Surface Science Advances, 2022, 8, 100218.	2.9	1
1031	A novel molybdenum disulfide nanosheet loaded Titanium/Zirconium bimetal oxide affinity probe for efficient enrichment of phosphopeptides in A549 cells. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2022, 1199, 123235.	1.2	7

#	ARTICLE	IF	CITATIONS
1032	PPy modified 1T-MoS ₂ hollow spheres with cohesive architecture as high-performance anode material for Li-ion batteries. <i>Ceramics International</i> , 2022, 48, 9781-9787.	2.3	9
1033	Improved Li storage capacity of 2D MoS ₂ upon chlorophyll derivative composition. <i>Materials Today Communications</i> , 2022, 31, 103465.	0.9	0
1034	Restructuring NiO to LiNiO ₂ : Ultrastable and reversible anodes for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 437, 135292.	6.6	14
1035	Dual roles of MoS ₂ nanosheets in advanced oxidation Processes: Activating permonosulfate and quenching radicals. <i>Chemical Engineering Journal</i> , 2022, 440, 135866.	6.6	24
1036	High-Performance Supercapacitor Electrodes Based on Composites of MoS ₂ Nanosheets, Carbon Nanotubes, and ZIF-8 Metal-Organic Framework Nanoparticles. <i>ACS Applied Nano Materials</i> , 2022, 5, 1491-1499.	2.4	13
1037	Machine-Learning Assisted Exploration: Toward the Next-Generation Catalyst for Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2021, 168, 126523.	1.3	4
1038	Coal-Derived Graphene/MoS ₂ Heterostructure Electrodes for Li-Ion Batteries: Experiment and Simulation Study. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59950-59961.	4.0	15
1040	MoS ₂ /Graphene Hybrid Nanosheets Prepared by Xylitol Assisted Ball Milling as High-Performance Anode Materials for Lithium-Ion Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1041	Metal-organic framework-derived MCF/PPy/MoS ₂ hybrid nanocomposites as an anode for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2022, 46, 10073-10080.	1.4	2
1042	2,5-Diformylfuran production by photocatalytic selective oxidation of 5-hydroxymethylfurfural in water using MoS ₂ /CdIn ₂ S ₄ flower-like heterojunctions. <i>Chinese Journal of Chemical Engineering</i> , 2023, 54, 180-191.	1.7	15
1043	Effect of poly(acrylic acid) binder on the stability of sulfur-enriched crystalline MoS ₃ S ₁₃ clusters for high capacity of Li-ion batteries. <i>International Journal of Energy Research</i> , 2022, 46, 13476-13486.	2.2	2
1044	Unveiling the relationship between the multilayer structure of metallic MoS ₂ and the cycling performance for lithium ion batteries. <i>Nanoscale</i> , 2022, 14, 8621-8627.	2.8	9
1045	Li+ additive accelerated structural transformation of MoS ₂ cathodes for performance-enhancing rechargeable Mg ²⁺ batteries. <i>Materials Today Energy</i> , 2022, 27, 101047.	2.5	5
1046	Imaging Spatial Distribution of Photogenerated Carriers in Monolayer MoS ₂ with Kelvin Probe Force Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26295-26302.	4.0	5
1047	The Potential Application of Exfoliated MoS ₂ to Aqueous Lithium-Ion Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1048	Facile preparation of Nb ₂ O ₅ microspheres and their excellent electrochemical performance in aqueous zinc-ion hybrid supercapacitors. <i>Rare Metals</i> , 2022, 41, 3129-3141.	3.6	13
1049	Lithium-induced intralayer rearrangement of molybdenum disulfide: Effect of graphene coating. <i>Applied Surface Science</i> , 2022, 598, 153846.	3.1	5
1050	Sulfonic acid/sulfur trioxide (SO ₃ H/SO ₃) functionalized two-dimensional MoS ₂ nanosheets for high-performance photocatalysis of organic pollutants. <i>New Journal of Chemistry</i> , 2022, 46, 13636-13642.	1.4	12

#	ARTICLE	IF	CITATIONS
1051	Encapsulating chalcogens as the rate accelerator into MoS ₂ with expanded interlayer spacing to boost the capacity and cyclic stability of Liâ€S batteries. 2D Materials, 2022, 9, 034002.	2.0	4
1052	Simple Fabrication of Photodetectors Based on MoS ₂ Nanoflakes and Ag Nanoparticles. Sensors, 2022, 22, 4695.	2.1	0
1053	S-sphere/C/MoS ₂ composite for high-performance Lithiumâ€Sulfur batteries. Ceramics International, 2022, 48, 27672-27680.	2.3	7
1054	Ether-Induced Phase Transition toward Stabilized Layered Structure of MoS ₂ with Extraordinary Sodium Storage Performance. , 2022, 4, 1341-1349.		11
1055	ReS ₂ vs MoS ₂ : Viable electrodes for batteries and capacitors. Electrochemistry Communications, 2022, 139, 107313.	2.3	5
1056	The potential application of exfoliated MoS ₂ to aqueous lithium-ion batteries. Electrochemistry Communications, 2022, 139, 107307.	2.3	0
1057	Recent advances in transition metal chalcogenides for lithium-ion capacitors. Rare Metals, 2022, 41, 2971-2984.	3.6	46
1058	Nitrogen-doped reduced graphene oxide incorporated Ni ₂ O ₃ -Co ₃ O ₄ @MoS ₂ hollow nanocubes for high-performance energy storage devices. Journal of Alloys and Compounds, 2022, 922, 166131.	2.8	12
1059	MoS ₂ /C nanotubes synthesized using halloysite as template through one-pot hydrothermal method for Li-ion batteries. Journal of Alloys and Compounds, 2022, 923, 166314.	2.8	9
1060	Double-phase 1T/2Hâ€MoS ₂ heterostructure loaded in N-doped carbon/CNT complex carbon for efficient and rapid lithium storage. Materials Today Energy, 2022, 29, 101103.	2.5	9
1061	Hollow nanospheres constructed by ultrafine few-layered MoS ₂ partially with amorphous fragments homogeneously incorporated in N-doped amorphous carbon for enhanced lithium storage performance. Journal of Colloid and Interface Science, 2022, 627, 804-814.	5.0	4
1062	Advances in Atomic Layer Deposition of Metal Sulfides: From a Precursors Perspective. Chemistry of Materials, 2022, 34, 7106-7138.	3.2	11
1063	Two Birds with One Stone: Prelithiated Two-Dimensional Nanohybrids as High-Performance Anode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 35673-35681.	4.0	6
1064	A Review on Recent Advancements of Ni-NiO Nanocomposite as an Anode for High-Performance Lithium-Ion Battery. Nanomaterials, 2022, 12, 2930.	1.9	12
1065	MoS ₂ -Graphene Composite Electrode for High Energy Hybrid Li-Ion Capacitors. , 0, , .		1
1066	A multifunctional nanostructured molybdenum disulphide (MoS ₂): an overview on synthesis, structural features, and potential applications. Materials Research Innovations, 2023, 27, 177-193.	1.0	6
1067	A carbon@SnO ₂ @MoO ₂ nanoarchitectonic derived from cellulose substance as an anodic material for lithium-ion batteries. Journal of Nanoparticle Research, 2022, 24, .	0.8	3
1068	Charge Transfer in Metallocene Intercalated Transition Metal Dichalcogenides. Journal of Physical Chemistry C, 2022, 126, 13994-14002.	1.5	4

#	ARTICLE	IF	CITATIONS
1069	Durable antibacterial cotton fabric via spray-coating of photocatalytic MoS ₂ . <i>Materials Chemistry and Physics</i> , 2022, 290, 126658.	2.0	14
1070	Tuning Oxygen Vacancies in MoS ₂ @MoO ₂ Hierarchical Tubular Heterostructure for High Performance Lithium-ion Batteries. <i>New Journal of Chemistry</i> , 0, , .	1.4	4
1071	Constructing a multidimensional porous structure of K/Co co-substituted Na ₃ V ₂ (PO ₄) ₃ /C attached on the lamellar Ti ₃ C ₂ T _x MXene substrate for superior sodium storage property. <i>Dalton Transactions</i> , 2022, 51, 15425-15435.	1.6	12
1072	Fabrication of 3D graphene/MoS ₂ spherical heterostructure as anode material in Li-ion battery. <i>Frontiers in Energy Research</i> , 0, 10, .	1.2	5
1074	Long-term aging of CVD grown 2D-MoS ₂ nanosheets in ambient environment. <i>Npj Materials Degradation</i> , 2022, 6, .	2.6	4
1075	Perspective of Vanadium Disulfide: A Rising Star Finds Plenty of Room in Single and Multielectron Energy Storage. <i>Energy & Fuels</i> , 2022, 36, 13931-13955.	2.5	4
1076	Laser-assisted growth of hierarchically architected 2D MoS ₂ crystals on metal substrate for potential energy applications. <i>International Journal of Extreme Manufacturing</i> , 2022, 4, 045102.	6.3	4
1077	Ultrafine Mix-Phase SnO-SnO ₂ Nanoparticles Anchored on Reduced Graphene Oxide Boost Reversible Li-Ion Storage Capacity beyond Theoretical Limit. <i>ACS Nano</i> , 2022, 16, 15358-15368.	7.3	23
1078	Flexible Mn ₃ O ₄ /MXene Films with 2D Architectures as Stable and Ultrafast Anodes for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 46502-46512.	4.0	10
1079	Enhancement of thermoelectric power factor via electron energy filtering in Cu doped MoS ₂ on carbon fabric for wearable thermoelectric generator applications. <i>Journal of Colloid and Interface Science</i> , 2023, 633, 120-131.	5.0	11
1080	Green preparation of nanostructured Î ² -MoO ₃ /hexagonal-shaped MoS ₂ /graphene with enhanced lithium-ion storage performance. <i>Journal of Alloys and Compounds</i> , 2023, 932, 167724.	2.8	13
1081	3D nanoflower-like MoS ₂ grown on wheat straw cellulose carbon for lithium-ion battery anode material. <i>Journal of Alloys and Compounds</i> , 2023, 933, 167689.	2.8	15
1082	In Situ Assembly of Well-Defined MoS ₂ Slabs on Shape-Tailored Anatase TiO ₂ Nanostructures: Heterojunctions Role in Phenol Photodegradation. <i>Catalysts</i> , 2022, 12, 1414.	1.6	0
1083	A high-performance Cu-Al dual-ion battery realized by high-concentration Cl ⁻ electrolyte and CuS cathode. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
1084	Recent progress of nanotechnology in the research framework of all-solid-state batteries. <i>Nano Energy</i> , 2023, 105, 107994.	8.2	8
1085	Activation of 2D MoS ₂ electrodes induced by high-rate lithiation processes. <i>Journal of Energy Chemistry</i> , 2023, 78, 56-70.	7.1	7
1086	Co/Zn bimetallic organic framework nanoparticles on carbon fibers as cathode for a high-performance rechargeable aqueous Zn-ion hybrid supercapacitor. <i>Scripta Materialia</i> , 2023, 225, 115171.	2.6	6
1087	Progress and prospects of 2D VS ₂ transition metal dichalcogenides. <i>FlatChem</i> , 2022, 36, 100455.	2.8	5

#	ARTICLE	IF	CITATIONS
1088	Cathode materials for single-phase solid-solid conversion Li-S batteries. <i>Matter</i> , 2023, 6, 316-343.	5.0	14
1089	N-doped coralline Co ₉ S ₈ ~xNx for inducing Amitriptyline decontamination in Electro-Fenton Process: Degradation scheme Elucidation, nitrogen activating catalyst delocalized electron and enhancing 2-Electron oxygen reduction reaction mechanism investigation. <i>Chemical Engineering Journal</i> , 2023, 457, 141171.	6.6	3
1090	MoS ₂ /graphene nanosheet composites prepared by xylitol-assisted ball milling as high-performance anode materials for lithium-ion batteries. <i>Ionics</i> , 2023, 29, 917-930.	1.2	4
1091	Synergistic Construction of Efficient Heterostructure Electrocatalysis for High-Performance Lithium~Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 15392-15400.	2.5	3
1092	Improving the Performance of the Lamellar Reduced Graphene Oxide/Molybdenum Sulfide Nanofiltration Membrane through Accelerated Water-Transport Channels and Capacitively Enhanced Charge Density. <i>Environmental Science & Technology</i> , 2023, 57, 615-625.	4.6	3
1093	Recent progress in the fabrication of nanostructured zinc-based ternary metal oxides for high-performance lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , 2023, 53, 1077-1107.	1.5	2
1094	Structural engineering of double shells decoration for preparing a high-efficiency electromagnetic wave absorber. <i>Ceramics International</i> , 2023, 49, 14538-14550.	2.3	5
1095	Design of ultra-thick graphene-molybdenum disulfide electrodes to reduce volume expansion and capacity fading by first principles. <i>Journal of Alloys and Compounds</i> , 2023, 939, 168623.	2.8	3
1096	Recent developments in metal/metalloid nanomaterials for battery applications; a comparative review. <i>Fuel</i> , 2023, 340, 127399.	3.4	9
1097	Atomic-level understanding on progressive lithiation of few-layer MoS ₂ with surface vacancies. <i>Journal of Alloys and Compounds</i> , 2023, 939, 168663.	2.8	1
1098	Phase engineering of layered anode materials during ion-intercalation in Van der Waal heterostructures. <i>Scientific Reports</i> , 2023, 13, .	1.6	1
1099	Dynamic phase evolution of MoS ₃ accompanied by organodiselenide mediation enables enhanced performance rechargeable lithium battery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	3.3	6
1100	Effect of molybdenum disulfide doping with substitutional nitrogen and sulfur vacancies on lithium intercalation. <i>Journal of Alloys and Compounds</i> , 2023, 947, 169689.	2.8	5
1101	An interlayer spacing design approach for efficient sodium ion storage in N-doped MoS ₂ . <i>Nanoscale Horizons</i> , 2023, 8, 473-482.	4.1	10
1102	Synthesis of homogeneous honeycomb MoS ₂ as the anode material for lithium-ion batteries using chemical vapor deposition and a template method. <i>New Journal of Chemistry</i> , 2023, 47, 6631-6638.	1.4	3
1103	Thin Film Deposition Techniques in Surface Engineering Strategies for Advanced Lithium-Ion Batteries. <i>Coatings</i> , 2023, 13, 505.	1.2	5
1104	Novel Ratiometric Electrochemical Biosensor for Determination of Cytokeratin 19 Fragment Antigen 21-1 (Cyfra-21-1) as a Lung Cancer Biomarker. <i>Analytical Letters</i> , 2023, 56, 2708-2724.	1.0	0
1105	Molten Salt-Assisted Catalytic Preparation of MoS ₂ /MoO ₃ /Graphene as High-Performance Anode of Li-Ion Battery. <i>Catalysts</i> , 2023, 13, 499.	1.6	3

#	ARTICLE	IF	CITATIONS
1106	A Composite of Nb ₂ O ₅ and MoO ₂ as a High-Capacity High-Rate Anode Material for Lithium-Ion Batteries. Batteries and Supercaps, 0, , .	2.4	1
1107	Black Phosphorus Degradation during Intercalation and Alloying in Batteries. ACS Nano, 2023, 17, 6220-6233.	7.3	6
1108	Nanocomposites of Quasicrystal Nanosheets and MoS ₂ Nanoflakes for NO ₂ Gas Sensors. ACS Applied Nano Materials, 2023, 6, 5952-5962.	2.4	9
1109	Carbon skeleton materials derived from rare earth phthalocyanines (MPcs) (M = Yb, La) used as high performance anode materials for lithium-ion batteries. Dalton Transactions, 2023, 52, 6641-6655.	1.6	1
1110	Optimized Pinecone-Squama-Structure MoS ₂ -Coated CNT and Graphene Framework as Binder-Free Anode for Li-Ion Battery with High Capacity and Cycling Stability. Materials, 2023, 16, 3218.	1.3	2
1111	MoS ₂ -based core-shell nanostructures: Highly efficient materials for energy storage and conversion applications. Journal of Energy Storage, 2023, 66, 107393.	3.9	8
1143	Transition Metal Dichalcogenides—An Important Class of Layered Materials. Engineering Materials, 2023, , 103-140.	0.3	0
1147	Transition Metal Dichalcogenides, Conducting Polymers, and Their Nanocomposites as Supercapacitor Electrode Materials. Polymer Science - Series A, 2023, 65, 447-471.	0.4	1