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MoS2/graphene composite paper for sodium-ion battery electrodes

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#	Paper	IF	Citations
1046	Dopamine-Assisted Synthesis of MoS2 Nanosheets on Carbon Nanotube for Improved Lithium and Sodium Storage Properties.		
1045	Scalable Synthesis of Few-Layer MoS2 Incorporated into Hierarchical Porous Carbon Nanosheets for High-Performance Li- and Na-Ion Battery Anodes.		
1044	Flexible Paper-like Free-Standing Electrodes by Anchoring Ultrafine SnS2 Nanocrystals on Graphene Nanoribbons for High-Performance Sodium Ion Batteries.		
1043	Rationally Incorporated MoS2/SnS2 Nanoparticles on Graphene Sheets for Lithium-Ion and Sodium-Ion Batteries.		
1042	3D Interconnected MoS2 with Enlarged Interlayer Spacing Grown on Carbon Nanofibers as a Flexible Anode Toward Superior Sodium-Ion Batteries.		
1041	The Rate Performance of Two-Dimensional Material-Based Battery Electrodes May Not Be as Good as Commonly Believed.		
1040	Iron Telluride-Decorated Reduced Graphene Oxide Hybrid Microspheres as Anode Materials with Improved Na-Ion Storage Properties.		
1039	Electrochemical Interaction of Few-Layer Molybdenum Disulfide Composites vs Sodium: New Insights on the Reaction Mechanism.		
1038	MoS2 Nanoflowers with Expanded Interlayers as High-Performance Anodes for Sodium-Ion Batteries. <b>2014</b> , 126, 13008-13012		293
1037	Reduced Graphene Oxide Paper Electrode: Opposing Effect of Thermal Annealing on Li and Na Cyclability. <b>2014</b> , 118, 28401-28408		146
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355	Recent Advances of 2D Nanomaterials in the Electrode Materials of Lithium-Ion Batteries. <b>2019</b> , 14, 1930001	17
354	Sn-interspersed MoS2/C nanosheets with high capacity for Na+/K+ storage. <b>2019</b> , 126, 72-77	27
353	NiTe2/N-doped graphitic carbon nanosheets derived from Ni-hexamine coordination frameworks for Na-ion storage. <b>2019</b> , 359, 1659-1667	36
352	Fabrication of highly porous N/S doped carbon embedded with ZnS as highly efficient photocatalyst for degradation of bisphenol. <b>2019</b> , 121, 415-423	51
351	All-solid-state Z-scheme Co9S8/graphitic carbon nitride photocatalysts for simultaneous reduction of Cr(VI) and oxidation of 2,4-dichlorophenoxyacetic acid under simulated solar irradiation. <b>2019</b> , 360, 1188-1198	41
350	Flat Monolayer Graphene Cathodes for Li-Oxygen Microbatteries. <b>2019</b> , 11, 489-498	11
349	2D transition metal chalcogenides and van der Waals heterostructures: Fundamental aspects of their electrochemistry. <b>2019</b> , 13, 119-124	13
348	Advanced MoS and graphene heterostructures as high-performance anode for sodium-ion batteries. <b>2019</b> , 30, 104003	16
347	Hierarchical MoS2@N-Doped Carbon Hollow Spheres with Enhanced Performance in Sodium Dual-Ion Batteries. <b>2019</b> , 6, 661-667	17
346	Advanced Near-Infrared Light-Responsive Nanomaterials as Therapeutic Platforms for Cancer Therapy. <b>2019</b> , 2, 1800090	20

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345	Facile Synthesis of Hierarchical Iron Phosphide/Biomass Carbon Composites for Binder-Free Sodium-Ion Batteries. <b>2019</b> , 2, 144-152	13
344	Sb2S3-rGO for high-performance sodium-ion battery anodes on Al and Cu foil current collector. <b>2019</b> , 775, 549-553	22
343	Facile preparation of robust porous MoS2/C nanosheet networks as anode material for sodium ion batteries. <b>2019</b> , 54, 2472-2482	16
342	MoS2 nanosheets with expanded interlayer spacing for rechargeable aqueous Zn-ion batteries. <b>2019</b> , 19, 94-101	227
341	Effect of N-doped carbon layer on Co3O4 nanowire-graphene composites as anode materials for lithium ion batteries. <b>2019</b> , 124, 266-273	16
340	Three-dimensional interconnected network few-layered MoS2/N, S co-doped graphene as anodes for enhanced reversible lithium and sodium storage. <b>2019</b> , 293, 47-59	31
339	Three-dimensional (3D) flower-like MoSe2/N-doped carbon composite as a long-life and high-rate anode material for sodium-ion batteries. <b>2019</b> , 357, 226-236	58
338	Hybrid MoS/h-BN Nanofillers As Synergic Heat Dissipation and Reinforcement Additives in Epoxy Nanocomposites. <b>2019</b> , 11, 24485-24492	28
337	Binder-Free Electrodes for Advanced Sodium-Ion Batteries. <b>2020</b> , 32, e1806304	112
336	Uncovering the underlying science behind dimensionality in the potassium battery regime. <b>2020</b> , 25, 416-425	19
335	Dandelion-clock-inspired preparation of core-shell TiO2@MoS2 composites for high performance sodium ion storage. <b>2020</b> , 815, 152386	14
334	Layered Transition Metal Dichalcogenide-Based Nanomaterials for Electrochemical Energy Storage. <b>2020</b> , 32, e1903826	174
333	Metal Chalcogenides: Paving the Way for High-Performance Sodium/Potassium-Ion Batteries. <b>2020</b> , 4, 1900563	97
332	Mn2C monolayer: A superior anode material offering good conductivity, high storage capacity and ultrafast ion diffusion for Li-ion and Na-ion batteries. <b>2020</b> , 503, 144091	22
331	Controllable synthesis of MoS2/graphene low-dimensional nanocomposites and their electrical properties. <b>2020</b> , 504, 144193	6
330	Co0.85Se@C/Ti3C2Tx MXene hybrids as anode materials for lithium-ion batteries. <b>2020</b> , 816, 152566	15
329	Graphene-based composites for electrochemical energy storage. <b>2020</b> , 24, 22-51	214
328	Advances in Surface Engineering for Improved Energy Storage. <b>2020</b> , 245-249	

327	Fe7Se8 nanoparticles anchored on N-doped carbon nanofibers as high-rate anode for sodium-ion batteries. <b>2020</b> , 24, 439-449	66
326	Recent advances in graphene based materials as anode materials in sodium-ion batteries. <b>2020</b> , 42, 91-107	59
325	One pot synthesis and capacitive sodium storage properties of rGO confined CoS2 anode materials. <b>2020</b> , 813, 151598	13
324	Boosting energy and power performance of aqueous energy storage by engineering ultra-fine metallic VSe2 nanoparticles anchored reduced graphene oxide. <b>2020</b> , 448, 227399	25
323	Manipulating 2D Few-Layer Metal Sulfides as Anode Towards Enhanced Sodium-Ion Batteries. <b>2020</b> , 3, 236-253	12
322	Heterostructural composite of few-layered MoS2/hexagonal MoO2 particles/graphene as anode material for highly reversible lithium/sodium storage. <b>2020</b> , 44, 518-527	18
321	In-situ growth of vertically aligned MoS2 nanowalls on reduced graphene oxide enables a large capacity and highly stable anode for sodium ion storage. <b>2020</b> , 445, 227271	34
320	A novel MoS2@C framework architecture composites with three-dimensional cross-linked porous carbon supporting MoS2 nanosheets for sodium storage. <b>2020</b> , 818, 152821	22
319	Modelling of antimonene as an anode material in sodium-ion battery: A first-principles study. <b>2020</b> , 241, 122381	15
318	Fabrication of 3D flower-like MoS2/graphene composite as high-performance electrode for capacitive deionization. <b>2020</b> , 473, 114191	57
317	A General Approach to Direct Growth of Oriented Metal-Organic Framework Nanosheets on Reduced Graphene Oxides. <b>2020</b> , 7, 1901480	14
316	SiOC functionalization of MoS as a means to improve stability as sodium-ion battery anode. <b>2020</b> , 31, 145403	19
315	[email[protected]2@WS2 CoreBhell Architectures: Combining Vapor Phase and Solution-Based Approaches. <b>2020</b> , 124, 2627-2633	4
314	Boron based layered electrode materials for metal-ion batteries. <b>2020</b> , 22, 709-715	5
313	In situ self-assembly of molybdenum disulfide/MgAl layered double hydroxide composite for enhanced photocatalytic activity. <b>2020</b> , 817, 153308	15
312	Electrode Engineering by Atomic Layer Deposition for Sodium-Ion Batteries: From Traditional to Advanced Batteries. <b>2020</b> , 30, 1906890	19
311	Rapid deposition of WS2 platelet thin films as additive-free anode for sodium ion batteries with superior volumetric capacity. <b>2020</b> , 26, 534-542	13
310	Graphene based sensors. <b>2020</b> , 175-199	15

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309	Low-Cost Scalable Production of Freestanding Two-Dimensional Metallic Nanosheets by Polymer Surface Buckling Enabled Exfoliation. <b>2020</b> , 1, 100235	6
308	First-principles study on sodium storage properties of beryllium and boron dual-doped graphyne. <b>2020</b> , 702, 121721	4
307	MoS2 self-embedded in pleated carbon pyrolyzed by ionic liquids as a high-performance anode materials for lithium-/sodium-ion batteries. <b>2020</b> , 31, 18209-18220	
306	Iron nanoparticle templates for constructing 3D graphene framework with enhanced performance in sodium-ion batteries. <b>2020</b> , 12, 21780-21787	3
305	Recent progress in electrode and electrolyte materials for flexible sodium-ion batteries. 2020, 8, 22507-2254	3 23
304	The fabrication of hierarchical MoO2@MoS2/rGO composite as high reversible anode material for lithium ion batteries. <b>2020</b> , 364, 136996	8
303	Boosting the safety and energy density of molybdenum disulfide/carbon nanotubes based solid-state sodium-ion supercapacitors with an ionogel electrolyte. <b>2020</b> , 18, 100527	6
302	Flexible All-Solid-State Li-Ion Battery Manufacturable in Ambient Atmosphere. <b>2020</b> , 12, 37067-37078	7
301	Electrocatalytic properties of two-dimensional transition metal dichalcogenides and their hetrostructures in energy applications. <b>2020</b> , 215-241	3
300	Two-dimensional materials and its heterostructures for energy storage. <b>2020</b> , 385-401	1
299	Electrospun hetero-CoP/FeP embedded in porous carbon nanofibers: enhanced Na kinetics and specific capacity. <b>2020</b> , 12, 24477-24487	19
298	Graphene Materials for Batteries. <b>2020</b> , 69-69	O
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296	Two-dimensional B3P monolayer as a superior anode material for Li and Na ion batteries: a first-principles study. <b>2020</b> , 17, 100486	5
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294	Revealing the Charge Storage Mechanism of Nickel Oxide Electrochromic Supercapacitors. <b>2020</b> , 12, 39098-39107	29
293	Active Materials for Aqueous Zinc Ion Batteries: Synthesis, Crystal Structure, Morphology, and Electrochemistry. <b>2020</b> , 120, 7795-7866	347
292	Promising functional two-dimensional lamellar metal thiophosphates: synthesis strategies, properties and applications. <b>2020</b> , 7, 3131-3160	13

291	Exploring the structure evolution of MoS upon Li/Na/K ion insertion and the origin of the unusual stability in potassium ion batteries. <b>2020</b> , 5, 1618-1627		7
290	Hierarchical Microtubes Constructed by MoS Nanosheets with Enhanced Sodium Storage Performance. <i>ACS Nano</i> , <b>2020</b> , 14, 15577-15586	16.7	37
289	Flexible and Stretchable Microbatteries for Wearable Technologies. <b>2020</b> , 5, 2000412		10
288	Graphene enwrapped molybdenum disulfide for long life rechargeable batteries. <b>2020</b> , 10, 1358-1363		2
287	Design, characterization, and application of elemental 2D materials for electrochemical energy storage, sensing, and catalysis. <b>2020</b> , 1, 2562-2591		6
286	Three-Dimensional Porous Graphene Supported MoS Nanoflower Prepared by a Facile Solvothermal Method with Excellent Rate Performance and Sodium-Ion Storage. <b>2020</b> , 12,		4
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283	Space-Confined Fabrication of MoS2@Carbon Tubes with Semienclosed Architecture Achieving Superior Cycling Capability for Sodium Ion Storage. <b>2020</b> , 7, 2000953		4
282	Borophosphene as a promising Dirac anode with large capacity and high-rate capability for sodium-ion batteries. <b>2020</b> , 22, 20851-20857		9
281	An electrochemical microfluidic biochip for the detection of gliadin using MoS/graphene/gold nanocomposite. <b>2020</b> , 187, 645		5
280	Densified Metallic MoS2/Graphene Enabling Fast Potassium-Ion Storage with Superior Gravimetric and Volumetric Capacities. <b>2020</b> , 30, 2001484		47
279	Recent Advances in Developing Hybrid Materials for Sodium-Ion Battery Anodes. <b>2020</b> , 5, 1939-1966		82
278	Intercalation and exfoliation chemistries of transition metal dichalcogenides. 2020, 8, 15417-15444		69
277	Assessing corrosion resistance of two-dimensional nanomaterial-based coatings on stainless steel substrates. <b>2020</b> , 7, 200214		3
276	Understanding the role of graphene intercalation layers on both sides of sandwich structured graphene@MoS2@porous graphene anode in promoting sodium storage performance and stability. <b>2020</b> , 845, 155336		6
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274	Directing the Morphology of Chemical Vapor Deposition-Grown MoS2 on Sapphire by Crystal Plane Selection. <b>2020</b> , 217, 2000073		6

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271	Yolk-shell spheres constructed of ultrathin MoSe2 nanosheets as a high-performance anode for sodium dual ion batteries. <b>2020</b> , 353, 115373	16
270	Mixing amorphous carbon enhanced electrochemical performances of NiCo2O4 nanoparticles as anode materials for sodium-ion batteries. <b>2020</b> , 126, 1	5
269	A record-high ion storage capacity of T-graphene as two-dimensional anode material for Li-ion and Na-ion batteries. <b>2020</b> , 527, 146849	21
268	Accurate measurement of in-plane thermal conductivity of layered materials without metal film transducer using frequency domain thermoreflectance. <b>2020</b> , 91, 064903	13
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263	Engineering Phase Transformation of MoS/RGO by N-doping as an Excellent Microwave Absorber. <b>2020</b> , 12, 16831-16840	36
262	Two-Dimensional Transition Metal Chalcogenides for Alkali Metal Ions Storage. <b>2020</b> , 13, 1114-1154	37
261	Graphene-based hybrid materials for advanced batteries. <b>2020</b> , 73-95	
260	Construction of robust coupling interface between MoS2 and nitrogen doped graphene for high performance sodium ion batteries. <b>2020</b> , 48, 435-442	11
259	2D honeycomb borophene oxide: a promising anode material offering super high capacity for Li/Na-ion batteries. <b>2020</b> , 32, 065001	11
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257	Enabling remarkable cycling performance of high-loading MoS2@Graphene anode for sodium ion batteries with tunable cut-off voltage. <b>2020</b> , 458, 228040	26
256	Highly pseudocapacitive metal-organic framework derived carbon skeleton supported Fe-Ti-O nanotablets as an anode material for efficient lithium storage. <b>2020</b> , 12, 7849-7856	9

255	TMDs beyond MoS for Electrochemical Energy Storage. <b>2020</b> , 26, 6320-6341	20
254	Synthesis and Electrochemical Study of Three-Dimensional Graphene-Based Nanomaterials for Energy Applications. <b>2020</b> , 10,	8
253	Alchemy-Inspired Green Paper for Spontaneous Recovery of Noble Metals. <b>2020</b> , 16, e1907282	12
252	Synergizing Phase and Cavity in CoMoO S Yolk-Shell Anodes to Co-Enhance Capacity and Rate Capability in Sodium Storage. <b>2020</b> , 16, e2002487	17
251	Zn/Co-ZIF-derived bi-metal embedded N-doped porous carbon as anodes for lithium-ion batteries. <b>2020</b> , 31, 13889-13898	4
250	Towards enhanced sodium storage of anatase TiOvia a dual-modification approach of Mo doping combined with AlF coating. <b>2020</b> , 12, 15896-15904	7
249	Unleashing ultra-fast sodium ion storage mechanisms in interface-engineered monolayer MoS2/C interoverlapped superstructure with robust charge transfer networks. <b>2020</b> , 8, 15002-15011	14
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247	Design strategies for nonaqueous multivalent-ion and monovalent-ion battery anodes. <b>2020</b> , 5, 276-294	151
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244	MoS2/N-doped graphene aerogles composite anode for high performance sodium/potassium ion batteries. <b>2020</b> , 339, 135932	34
243	Graphene-like MoS2-modified magnetic C-dot nanoflowers: an efficient magnetic solid-phase extraction adsorbent for monitoring of trace amounts of ibuprofen. <b>2020</b> , 12, 1570-1578	12
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241	Insights into the phase transformation of NiCo2S4@rGO for sodium-ion battery electrode. <b>2020</b> , 338, 135900	26
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239	A New Adenine-Derived Physical Dispersion System for Graphene/Polyimide Composites. <b>2020</b> , 59, 6309-631	7 3
238	Unveiling a bimetallic FeCo-coupled MoS composite for enhanced energy storage. <b>2020</b> , 12, 10532-10542	8

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236	Double-Layer Honeycomb AlP: A Promising Anode Material for Li-, Na-, and K-Ion Batteries. <b>2020</b> , 124, 2978-2986		5
235	Research Development on K-Ion Batteries. <b>2020</b> , 120, 6358-6466		382
234	Encapsulating N-Doped Carbon Nanorod Bundles/MoO Nanoparticles via Surface Growth of Ultrathin MoS Nanosheets for Ultrafast and Ultralong Cycling Sodium Storage. <b>2020</b> , 12, 6205-6216		14
233	Insights on Redox Properties of Sumanene Derivatives for High-Performance Organic Cathodes. <b>2020</b> , 12, 8333-8341		8
232	Synthesis of two-dimensional nanomaterials. <b>2020</b> , 35-71		3
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230	On battery materials and methods. <b>2020</b> , 6, 100046		40
229	Two-dimensional materials for energy conversion and storage. <b>2020</b> , 111, 100637		73
228	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. <b>2020</b> , 13, 1096-1131		135
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226	3D hierarchical microspheres constructed by ultrathin MoS2-C nanosheets as high-performance anode material for sodium-ion batteries. <b>2020</b> , 49, 307-315		18
225	Higher thermal conductivity and mechanical enhancements in hybrid 2D polymer nanocomposites. <b>2020</b> , 87, 106510		16
224	Facile Growth of Metal-Rich Cu1.75S and Cu1.8S Microspheres Assembled with Mesoporous Nanosheets and Their Application in Na-Ion Batteries. <b>2020</b> , 20, 3325-3333		5
223	Single-Step Synthesis of Mesoporous Carbon Nitride/Molybdenum Sulfide Nanohybrids for High-Performance Sodium-Ion Batteries. <b>2020</b> , 15, 1863-1868		4
222	A promising 3D crystalline red P/reduced graphene oxide aerogel architecture anode for sodium-ion batteries. <b>2020</b> , 393, 124788		14
221	CoreBhell Structure and X-Doped (X = Li, Zr) Comodified O3-NaNi0.5Mn0.5O2: Excellent Electrochemical Performance as Cathode Materials of Sodium-Ion Batteries. <b>2020</b> , 8, 1901504		5
220	Construction of Porous Co9S8 Hollow Boxes with Double Open Ends toward High-Performance Half/Full Sodium-Ion Batteries. <b>2020</b> , 8, 6305-6314		26

219	Impact of edge structures on interfacial interactions and efficient visible-light photocatalytic activity of metallemiconductor hybrid 2D materials. <b>2020</b> , 10, 3279-3289	24
218	Electrochemically intercalated intermediate induced exfoliation of few-layer MoS2 from molybdenite for long-life sodium storage. <b>2021</b> , 64, 115-127	12
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214	On the irreversible sodiation of tin disulfide. <b>2021</b> , 79, 105458	6
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210	In situ cross-linking construction of 3D mesoporous bimetallic phosphide-in-carbon superstructure with atomic interface toward enhanced sodium ion storage performance. <b>2021</b> , 413, 127449	10
209	Mechanically robust, self-healing graphene like defective SiC: A prospective anode of Li-ion batteries. <b>2021</b> , 541, 148417	4
208	Recent Tactics and Advances in the Application of Metal Sulfides as High-Performance Anode Materials for Rechargeable Sodium-Ion Batteries. <b>2021</b> , 31, 2006761	26
207	Advancement in graphene-based nanocomposites as high capacity anode materials for sodium-ion batteries. <b>2021</b> , 9, 2628-2661	17
206	A flexible, integrated film battery configuration for ultrafast sodium ion storage. <b>2021</b> , 9, 1252-1259	O
205	A Stable Biomass-Derived Hard Carbon Anode for High-Performance Sodium-Ion Full Battery. <b>2021</b> , 9, 2000730	4
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203	Metallic VS/graphene heterostructure as an ultra-high rate and high-specific capacity anode material for Li/Na-ion batteries. <b>2021</b> , 23, 18784-18793	3
202	Energy Storage Devices (Supercapacitors and Batteries). <b>2021</b> , 53-75	1

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200	Ti3C2Tx with a hydroxyl-rich surface for metal sulfides as high performance electrode materials for sodium/lithium storage. <b>2021</b> , 9, 14013-14024	10
199	Transition metal dichalcogenide-decorated MXenes: promising hybrid electrodes for energy storage and conversion applications. <b>2021</b> , 5, 3298-3321	15
198	Research Progress of MoS2 Composite rGO Material in Gas Sensor. <b>2021</b> , 267, 02048	O
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195	A modified reduced graphite oxide anode for sodium ion storage in ether-based electrolyte. <b>2021</b> , 51, 753-760	
194	Bi8V2O17 hierarchical framework encapsulated in flexible carbon nanotube-interwoven graphene hybrid for advanced lithium/sodium storage: Experimental and theoretical study. <b>2021</b> , 405, 127032	3
193	A Series of Molecule-Intercalated MoS as Anode Materials for Sodium Ion Batteries. <b>2021</b> , 13, 10870-10877	15
192	Synthesis of ZnS Nanorods Coated by MoS2/N-Doped Carbon Nanosheets with Enhanced Sodium Storage Properties. <b>2021</b> , 168, 020523	
191	Hierarchical Fe2O3@MoS2/C Nanorods as Anode Materials for Sodium Ion Batteries with High Cycle Stability. <b>2021</b> , 4, 3757-3765	1
190	Expanded MoSe Nanosheets Vertically Bonded on Reduced Graphene Oxide for Sodium and Potassium-Ion Storage. <b>2021</b> , 13, 13158-13169	30
189	M2X Monolayers as Anode Materials for Li Ion Batteries. <b>2021</b> , 15,	3
188	Applications of MoS2 in LiD2 Batteries: Development and Challenges. <b>2021</b> , 35, 5613-5626	8
187	Graphene-Based Nanomaterials for Flexible and Stretchable Batteries. <b>2021</b> , 17, e2006262	8
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184	Graphene: A promising candidate for charge regulation in high-performance lithium-ion batteries. <b>2021</b> , 14, 4370	8

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179	2D/2D Heterostructures: Rational Design for Advanced Batteries and Electrocatalysis.	12
178	Polymorph Engineering for Boosted Volumetric Na-Ion and Li-Ion Storage. <b>2021</b> , 33, e2100210	13
177	A DFT study of bismuthene as anode material for alkali-metal (Li/Na/K)-ion batteries. <b>2021</b> , 266, 115061	14
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