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Array of nanosheets render ultrafast and high-capacity Na-ion storage by tunable pseudocapacitance

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1116	High Pseudocapacitance in FeOOH/rGO Composites with Superior Performance for High Rate Anode in Li-Ion Battery. <b>2016</b> , 8, 35253-35263		92
1115	Energy Storage Performance Enhancement by Surface Engineering of Electrode Materials. <b>2016</b> , 3, 1600430		15
1114	3D Interconnected and Multiwalled Carbon@MoS <sub>2</sub> @Carbon Hollow Nanocables as Outstanding Anodes for Na-Ion Batteries. <b>2016</b> , 12, 6033-6041		103
1113	3D-0D Graphene-FeO Quantum Dot Hybrids as High-Performance Anode Materials for Sodium-Ion Batteries. <b>2016</b> , 8, 26878-26885		125
1112	Graphene quantum dots-shielded Na <sub>3</sub> (VO) <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F@C nanocuboids as robust cathode for Na-ion battery. <b>2016</b> , 5, 198-204		61
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1110	Large size nitrogen-doped graphene-coated graphite for high performance lithium-ion battery anode. <b>2016</b> , 6, 104010-104015		10
1109	Rutile TiO <sub>2</sub> mesocrystals with tunable subunits as a long-term cycling performance anode for sodium-ion batteries. <b>2017</b> , 699, 455-462		16
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1083	FeOOH on carbon nanotubes as a cathode material for Na-ion batteries. <b>2017</b> , 8, 147-152	34
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1078	Evolution of controllable urchin-like SrCO <sub>3</sub> with enhanced electrochemical performance via an alternative processing. <b>2017</b> , 411, 197-204	6
1077	Aluminum-Ion-Intercalation Supercapacitors with Ultrahigh Areal Capacitance and Highly Enhanced Cycling Stability: Power Supply for Flexible Electrochromic Devices. <b>2017</b> , 13, 1700380	76
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1075	Design of coherent anode materials with 0D Ni <sub>3</sub> S <sub>2</sub> nanoparticles self-assembled on 3D interconnected carbon networks for fast and reversible sodium storage. <b>2017</b> , 5, 7394-7402	112
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1068	Robust 3D macroporous structures with SnS nanoparticles decorating nitrogen-doped carbon nanosheet networks for high performance sodium-ion batteries. <b>2017</b> , 5, 23460-23470	70
1067	Ternary tin selenium sulfide (SnSe <sub>0.5</sub> S <sub>0.5</sub> ) nano alloy as the high-performance anode for lithium-ion and sodium-ion batteries. <b>2017</b> , 41, 377-386	120
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1063	NbS Nanosheets with M/Se (M = Fe, Co, Ni) Codopants for Li and Na Storage. <b>2017</b> , 11, 10599-10607	68
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982	Ultrahigh Rate and Long-Life Sodium-Ion Batteries Enabled by Engineered Surface and Near-Surface Reactions. <b>2018</b> , 30, 1702486	130
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980	High-capacity and long-life lithium storage boosted by pseudocapacitance in three-dimensional MnO-Cu-CNT/graphene anodes. <b>2018</b> , 10, 2944-2954	19
979	Pseudocapacitive material with 928 mAh cm <sup>3</sup> particle-level volumetric specific capacity enabled by continuous phase-transition. <b>2018</b> , 338, 211-217	15
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976	3D hierarchical defect-rich NiMo <sub>3</sub> S <sub>4</sub> nanosheet arrays grown on carbon textiles for high-performance sodium-ion batteries and hydrogen evolution reaction. <b>2018</b> , 49, 460-470	78
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974	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. <b>2018</b> , 130, 7264-7268	42

973	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. <b>2018</b> , 57, 7146-7150	114
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971	Multi-electron reaction materials for sodium-based batteries. <b>2018</b> , 21, 960-973	77
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964	Pseudocapacitance contribution in boron-doped graphite sheets for anion storage enables high-performance sodium-ion capacitors. <b>2018</b> , 5, 529-535	96
963	High capacity Mg batteries based on surface-controlled electrochemical reactions. <b>2018</b> , 48, 227-237	27
962	SnS <sub>2</sub> nanoparticles anchored on three-dimensional reduced graphene oxide as a durable anode for sodium ion batteries. <b>2018</b> , 339, 78-84	44
961	Three-dimensional NiCo <sub>2</sub> O <sub>4</sub> @NiCo <sub>2</sub> O <sub>4</sub> core-shell nanocones arrays for high-performance supercapacitors. <b>2018</b> , 344, 311-319	125
960	Advanced Na metal anodes. <b>2018</b> , 27, 1584-1596	67
959	Oriented MoS <sub>2</sub> Nanoflakes on N-Doped Carbon Nanosheets Derived from Dodecylamine-Intercalated MoO <sub>3</sub> for High-Performance Lithium-Ion Battery Anodes. <b>2018</b> , 5, 1350-1356	18
958	Cobalt telluride/graphene composite nanosheets for excellent gravimetric and volumetric Na-ion storage. <b>2018</b> , 6, 6335-6343	45
957	An Ultralong Lifespan and Low-Temperature Workable Sodium-Ion Full Battery for Stationary Energy Storage. <b>2018</b> , 8, 1703252	160
956	Sodium Vanadium Fluorophosphates (NVOPF) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. <b>2018</b> , 8, 1800058	124

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954	Multiple heterointerfaces boosted de-/sodiation kinetics towards superior Na storage and Na-Ion full battery. <b>2018</b> , 6, 6578-6586	41
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950	Tubular MoO <sub>2</sub> organized by 2D assemblies for fast and durable alkali-ion storage. <b>2018</b> , 11, 161-169	54
949	Enhanced stability of sodium storage exhibited by carbon coated Sb <sub>2</sub> S <sub>3</sub> hollow spheres. <b>2018</b> , 203, 185-192	54
948	Ultrathin MoS <sub>2</sub> nanosheets tightly anchoring onto nitrogen-doped graphene for enhanced lithium storage properties. <b>2018</b> , 332, 431-439	72
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946	One step synthesis of SnS <sub>2</sub> nanosheets assembled hierarchical tubular structures using metal chelate nanowires as a soluble template for improved Na-ion storage. <b>2018</b> , 332, 548-555	23
945	Porous graphene-polyaniline nanoarrays composite with enhanced interface bonding and electrochemical performance. <b>2018</b> , 154, 76-84	17
944	Carbon-Sheathed MoS <sub>2</sub> Nanothorns Epitaxially Grown on CNTs: Electrochemical Application for Highly Stable and Ultrafast Lithium Storage. <b>2018</b> , 8, 1700174	118
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939	Hierarchical TiO imbedded with graphene quantum dots for high-performance lithium storage. <b>2018</b> , 54, 1413-1416	49
938	Hierarchical hybrid ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles/reduced graphene oxide composite with long-term and high-rate performance for lithium ion batteries. <b>2018</b> , 737, 58-66	30

937	Multi-growth site graphene/polyaniline composites with highly enhanced specific capacitance and rate capability for supercapacitor application. <b>2018</b> , 260, 504-513	47
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808	Sulfur-Doped Mesoporous Carbon Nitride with an Ordered Porous Structure for Sodium-Ion Batteries. <b>2019</b> , 11, 27192-27199	36
807	Interior Supported Hierarchical TiO <sub>2</sub> @Co <sub>3</sub> O <sub>4</sub> Derived from MOF-on-MOF Architecture with Enhanced Electrochemical Properties for Lithium Storage. <b>2019</b> , 6, 3657-3666	16
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804	A multi-shelled V <sub>2</sub> O <sub>3</sub> /C composite with an overall coupled carbon scaffold enabling ultrafast and stable lithium/sodium storage. <b>2019</b> , 7, 19234-19240	20
803	1T'-ReS <sub>2</sub> Confined in 2D-Honeycombed Carbon Nanosheets as New Anode Materials for High-Performance Sodium-Ion Batteries. <b>2019</b> , 9, 1901146	32
802	Dendrite-Free Flexible Fiber-Shaped Zn Battery with Long Cycle Life in Water and Air. <b>2019</b> , 9, 1901434	54
801	General and Scalable Fabrication of Core-Shell Metal Sulfides@C Anchored on 3D N-Doped Foam toward Flexible Sodium Ion Batteries. <b>2019</b> , 15, e1903259	46
800	SnS/Co S Hollow Nanocubes Anchored on S-Doped Graphene for Ultrafast and Stable Na-Ion Storage. <b>2019</b> , 15, e1903873	32
799	Phosphorus-Doping-Induced Surface Vacancies of 3D Na Ti O Nanowire Arrays Enabling High-Rate and Long-Life Sodium Storage. <b>2019</b> , 25, 14881-14889	11
798	N-doped carbon matrix supported Fe <sub>3</sub> Ni <sub>6</sub> S <sub>8</sub> hierarchical architecture with excellent sodium storage capability and electrocatalytic properties. <b>2019</b> , 325, 134925	9
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795	Na Superionic Conductor-Type TiNb(PO) Anode with High Energy Density and Long Cycle Life Enables Aqueous Alkaline-Ion Batteries. <b>2019</b> , 11, 39757-39764	5
794	Surface Anionization of Self-Assembled Iron Sulfide Hierarchitectures to Enhance Capacitive Storage for Alkaline-Metal-Ion Batteries. <b>2019</b> , 11, 39991-39997	14

793	Decoration of Hollow Mesoporous Carbon Spheres by NiCo <sub>2</sub> S <sub>4</sub> Nanoparticles as Electrode Materials for Asymmetric Supercapacitors. <b>2019</b> , 2, 8079-8089	24
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790	A Flexible Solid-State Aqueous Zinc Hybrid Battery with Flat and High-Voltage Discharge Plateau. <b>2019</b> , 9, 1902473	79
789	Capacity Contribution Induced by Pseudo-Capacitance Adsorption Mechanism of Anode Carbonaceous Materials Applied in Potassium-ion Battery. <b>2019</b> , 7, 640	9
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784	Ultra-High Mass-Loading Cathode for Aqueous Zinc-Ion Battery Based on Graphene-Wrapped Aluminum Vanadate Nanobelts. <b>2019</b> , 11, 69	74
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768	Cellular carbon-wrapped FeSe <sub>2</sub> nanocavities with ultrathin walls and multiple rooms for ion diffusion-confined ultrafast sodium storage. <b>2019</b> , 7, 4469-4479	67
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766	Ultras-small-sized SnS nanosheets vertically aligned on carbon microtubes for sodium-ion capacitors with high energy density. <b>2019</b> , 7, 4047-4054	50
765	Long cycle life and high rate capability of three dimensional CoSe <sub>2</sub> grain-attached carbon nanofibers for flexible sodium-ion batteries. <b>2019</b> , 58, 715-723	111
764	MoSe <sub>2</sub> nanosheets-wrapped flexible carbon cloth as binder-free anodes for high-rate lithium and sodium ion storages. <b>2019</b> , 301, 29-38	44
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753	BiSbS@N-doped carbon core-shell nanorods as efficient anode materials for sodium-ion batteries. <b>2019</b> , 48, 10448-10454	16
752	Morphology Engineering of Self-Assembled Nanostructured CuCo <sub>2</sub> O <sub>4</sub> Anodes for Lithium-Ion Batteries. <b>2019</b> , 7, 1900295	14
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744	Robust C≡C bond integrated graphdiyne-MoS <sub>2</sub> nanohybrids for enhanced lithium storage capability. <b>2019</b> , 373, 660-667	35
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742	Nanostructures and Nanomaterials for Sodium Batteries. <b>2019</b> , 265-312	1
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736	Flexible and High-Voltage Coaxial-Fiber Aqueous Rechargeable Zinc-Ion Battery. <b>2019</b> , 19, 4035-4042	128
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733	Self-templating growth of Sb <sub>2</sub> Se <sub>3</sub> @C microtube: a convention-alloying-type anode material for enhanced K-ion batteries. <b>2019</b> , 7, 12283-12291	73
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722	Sacrificial template synthesis of hollow C@MoS <sub>2</sub> @PPy nanocomposites as anodes for enhanced sodium storage performance. <b>2019</b> , 60, 362-370	72



721	Nanoflake-constructed porous Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C hierarchical microspheres as a bicontinuous cathode for sodium-ion batteries applications. <b>2019</b> , 60, 312-323	97
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713	Progressively Exposing Active Facets of 2D Nanosheets toward Enhanced Pseudocapacitive Response and High-Rate Sodium Storage. <b>2019</b> , 31, e1900526	65
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707	Polypyrrole-encapsulated amorphous Bi <sub>2</sub> S <sub>3</sub> hollow sphere for long life sodium ion batteries and lithium-sulfur batteries. <b>2019</b> , 7, 11370-11378	63
706	Hierarchical Metal Sulfide/Carbon Spheres: A Generalized Synthesis and High Sodium-Storage Performance. <b>2019</b> , 58, 7238-7243	57
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704	Designing vertical channels with expanded interlayers for Li-ion batteries. <b>2019</b> , 55, 4258-4261	15



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695	An iron oxyborate FeBO material as a high-performance anode for lithium-ion and sodium-ion batteries. <b>2019</b> , 48, 5741-5748	13
694	Hierarchical SnS/SnS <sub>2</sub> heterostructures grown on carbon cloth as binder-free anode for superior sodium-ion storage. <b>2019</b> , 148, 525-531	48
693	Boosted pseudocapacitance contribution in lithium ion storage performance of Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>7</sub> S <sub>8</sub> anode by nanoscale heterostructuring. <b>2019</b> , 481, 1352-1359	10
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691	Two-dimensional V <sub>4</sub> C <sub>3</sub> MXene as high performance electrode materials for supercapacitors. <b>2019</b> , 307, 414-421	55
690	Size-dependent capacitive behavior of homogeneous MnO nanoparticles on carbon cloth as electrodes for symmetric solid-state supercapacitors with high performance. <b>2019</b> , 307, 442-450	13
689	Multi-shell hollow structured Sb <sub>2</sub> S <sub>3</sub> for sodium-ion batteries with enhanced energy density. <b>2019</b> , 60, 591-599	100
688	Study of pseudocapacitive contribution to superior energy storage of 3D heterostructure CoWO <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> nanocone arrays. <b>2019</b> , 418, 202-210	83
687	Reaction Mechanisms for Long-Life Rechargeable Zn/MnO <sub>2</sub> Batteries. <b>2019</b> , 31, 2036-2047	119
686	Multicore-shell Bi@N-doped Carbon Nanospheres for High Power Density and Long Cycle Life Sodium- and Potassium-Ion Anodes. <b>2019</b> , 29, 1809195	183

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670	Hierarchical Composite of Rose-Like VS @S/N-Doped Carbon with Expanded (001) Planes for Superior Li-Ion Storage. <b>2019</b> , 15, e1903904	30
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624	Hierarchical mesoporous MoSe <sub>2</sub> @CoSe/N-doped carbon nanocomposite for sodium ion batteries and hydrogen evolution reaction applications. <b>2019</b> , 21, 97-106	73
623	Facile construction of ultrathin SnOx nanosheets decorated MXene (Ti <sub>3</sub> C <sub>2</sub> ) nanocomposite towards Li-ion batteries as high performance anode materials. <b>2019</b> , 295, 237-245	47
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579	Encapsulating yolk-shell FeS <sub>2</sub> @carbon microboxes into interconnected graphene framework for ultrafast lithium/sodium storage. <b>2020</b> , 159, 366-377	68
578	Hollow carbon sphere based WS <sub>2</sub> anode for high performance lithium and sodium ion batteries. <b>2020</b> , 741, 137061	11



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566	A cellulose substance derived nanofibrous CoSb nanoparticle/carbon composite as a high-performance anodic material for lithium-ion batteries. <b>2020</b> , 44, 1846-1857	11
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563	Developing an Interpenetrated Porous and Ultrasuperior Hard-Carbon Anode via a Promising Molten-Salt Evaporation Method. <b>2020</b> , 12, 2481-2489	36
562	Hierarchical Porous Carbon Anode Materials Derived from Rice Husks with High Capacity and Long Cycling Stability for Sodium-Ion Batteries. <b>2020</b> , 7, 631-641	12
561	Dual anionic vacancies on carbon nanofiber threaded MoSSe arrays: A free-standing anode for high-performance potassium-ion storage. <b>2020</b> , 27, 591-598	33
560	Hollow Spheres Consisting of SnS Nanosheets Conformally Coated with S-Doped Carbon for Advanced Lithium-/Sodium-Ion Battery Anodes. <b>2020</b> , 7, 914-921	13



559	Biomass-derived highly porous nitrogen-doped graphene orderly supported NiMn <sub>2</sub> O <sub>4</sub> nanocrystals as efficient electrode materials for asymmetric supercapacitors. <b>2020</b> , 507, 145065	31
558	Cobalt-doping SnS nanosheets towards high-performance anodes for sodium ion batteries. <b>2020</b> , 12, 248-255	43
557	Red phosphorus confined in MOF-derived N-doped carbon-based composite polyhedrons on carbon nanotubes for high-areal-capacity lithium storage. <b>2020</b> , 385, 123456	17
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555	Design binder-free Ni <sub>0.66</sub> Co <sub>0.34</sub> -LDH heterostructures as electrode material for supercapacitor application. <b>2020</b> , 282, 121073	4
554	Construction of Hierarchical Nanotubes Assembled from Ultrathin V <sub>3</sub> S <sub>4</sub> @C Nanosheets towards Alkali-Ion Batteries with Ion-Dependent Electrochemical Mechanisms. <b>2020</b> , 132, 2494-2503	13
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552	A flexible CNT@nickel silicate composite film for high-performance sodium storage. <b>2020</b> , 47, 29-37	21
551	Controllable Design of MoS <sub>2</sub> Nanosheets Grown on Nitrogen-Doped Branched TiO <sub>2</sub> /C Nanofibers: Toward Enhanced Sodium Storage Performance Induced by Pseudocapacitance Behavior. <b>2020</b> , 16, e1904589	13
550	Research Progresses on Interfaces in Solid-State Sodium Batteries: A Topic Review. <b>2020</b> , 7, 2001444	13
549	A scalable synthesis of 2D laminate Li <sub>3</sub> VO <sub>4</sub> /C for robust pseudocapacitive Li-ion storage. <b>2020</b> , 8, 21122-21130	28
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547	Heterogeneous interface of Se@Sb@C boosting potassium storage. <b>2020</b> , 78, 105345	27
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544	Sandwich-like SnS/N, S co-doped rGO/SnS structure with pseudocapacitance for high-performance Li- and Na <sup>+</sup> batteries. <b>2020</b> , 55, 14477-14490	5
543	BiSb@BiO/SbO encapsulated in porous carbon as anode materials for sodium/potassium-ion batteries with a high pseudocapacitive contribution. <b>2020</b> , 580, 429-438	28
542	Phytic acid-derived Co <sub>2</sub> P/N-doped carbon nanofibers as flexible free-standing anode for high performance lithium/sodium ion batteries. <b>2020</b> , 846, 156256	8

541	Rational Structure Design of Fast-Charging NiSb Bimetal Nanosheet Anode for Lithium Ion Batteries. <b>2020</b> , 34, 10211-10217	2
540	Boosting Capacitive Sodium-Ion Storage in Electrochemically Exfoliated Graphite for Sodium-Ion Capacitors. <b>2020</b> , 12, 52635-52642	13
539	Effects of Small Molecule Interlayer Engineering in Vanadium Oxide for Zinc Ion Battery. <b>2020</b> , 5, 8951-8958	5
538	High-Voltage and Ultrastable Aqueous Zinc-Ion Battery Enabled by N-Doped Carbon Materials: Revealing the Contributions of Nitrogen Configurations. <b>2020</b> , 8, 13769-13776	48
537	Nanostructured Iron Fluoride Derived from Fe-Based Metal-Organic Framework for Lithium Ion Battery Cathodes. <b>2020</b> , 59, 12700-12710	12
536	Boosting Zn-Ion Storage Performance of Bronze-Type VO Ni-Mediated Electronic Structure Engineering. <b>2020</b> , 12, 36110-36118	34
535	One-pot synthesis of small-sized Ni <sub>3</sub> S <sub>2</sub> nanoparticles deposited on graphene oxide as composite anode materials for high-performance lithium-/sodium-ion batteries. <b>2020</b> , 531, 147316	16
534	Building Fast Diffusion Channel by Constructing Metal Sulfide/Metal Selenide Heterostructures for High-Performance Sodium Ion Batteries Anode. <b>2020</b> , 20, 6199-6205	71
533	Hierarchically Hollow and Porous NiO/NiCoO Nanoprisms Encapsulated in Graphene Oxide for Lithium Storage. <b>2020</b> , 36, 9668-9674	10
532	Carbonated MOF-based graphene hydrogel for hierarchical all-carbon supercapacitors with ultra-high areal and volumetric energy density. <b>2020</b> , 876, 114489	3
531	Fe O @C Nanotubes Grown on Carbon Fabric as a Free-Standing Anode for High-Performance Li-Ion Batteries. <b>2020</b> , 26, 14708-14714	9
530	Assembling free-standing and aligned tungstate/MXene fiber for flexible lithium and sodium-ion batteries with efficient pseudocapacitive energy storage. <b>2020</b> , 33, 82-87	17
529	Free-Standing, Foldable V O /Multichannel Carbon Nanofibers Electrode for Flexible Li-Ion Batteries with Ultralong Lifespan. <b>2020</b> , 16, e2005302	20
528	Anisotropic behavior of excitons in single-crystal FeS. <b>2020</b> , 10, 105003	7
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526	Advanced Battery-Type Anode Materials for High-Performance Sodium-Ion Capacitors. <b>2020</b> , 4, 2000401	30
525	Tunable Surface Selenization on MoO <sub>3</sub> -Based Carbon Substrate for Notably Enhanced Sodium-Ion Storage Properties. <b>2020</b> , 16, e2001905	27
524	Silver nanoparticles decorated molybdenum sulfide/tungstate oxide nanorods as high performance supercapacitor electrode. <b>2020</b> , 32, 101693	27

523	Enhancing the Rapid Na-Storage Performance via Electron/Ion Bridges through GeS/Graphene Heterojunction. <b>2020</b> , 14, 13952-13963	32
522	Bioinspired Interface Design of Sewable, Weavable, and Washable Fiber Zinc Batteries for Wearable Power Textiles. <b>2020</b> , 30, 2004430	25
521	Tuning crystal structure and redox potential of NASICON-type cathodes for sodium-ion batteries. <b>2020</b> , 13, 3330-3337	22
520	Tuning Interface Bridging Between MoSe and Three-Dimensional Carbon Framework by Incorporation of MoC Intermediate to Boost Lithium Storage Capability. <b>2020</b> , 12, 171	15
519	Sodium Ion Microscale Electrochemical Energy Storage Device: Present Status and Future Perspective. <b>2020</b> , 1, 2000053	31
518	Electrochemical properties study on NCM622 by in suit modification of Mg and F. <b>2020</b> , 1605, 012166	
517	Interface-Induced Pseudocapacitance in Nonporous Heterogeneous Particles for High Volumetric Sodium Storage. <b>2020</b> , 30, 2002019	31
516	Graphene-Like Carbon Film Wrapped Tin (II) Sulfide Nanosheet Arrays on Porous Carbon Fibers with Enhanced Electrochemical Kinetics as High-Performance Li and Na Ion Battery Anodes. <b>2020</b> , 7, 1903045	27
515	Iron Oxide/Iron Sulfide Hybrid Nanosheets as High-Performance Conversion-Type Anodes for Sodium-Ion Batteries. <b>2020</b> , 3, 10765-10775	9
514	Scalable One-Pot Synthesis of Hierarchical Bi@C Bulk with Superior Lithium-Ion Storage Performances. <b>2020</b> , 12, 51478-51487	9
513	Carbon-Coated SnS Nanosheets Supported on Porous Microspheres as Negative Electrode Material for Sodium-Ion Batteries. <b>2020</b> , 8, 2000258	12
512	High-Performance Rechargeable Aluminum-Selenium Battery with a New Deep Eutectic Solvent Electrolyte: Thiourea-AlCl. <b>2020</b> , 12, 27064-27073	24
511	High Pseudocapacitance Boosts Ultrafast, High-Capacity Sodium Storage of 3D Graphene Foam-Encapsulated TiO Architecture. <b>2020</b> , 12, 23939-23950	14
510	Stabilized Co <sup>3+</sup> /Co <sup>4+</sup> Redox Pair in In Situ Produced CoSe <sub>2</sub> -Derived Cobalt Oxides for Alkaline Zn Batteries with 10 000-Cycle Lifespan and 1.9-V Voltage Plateau. <b>2020</b> , 10, 2000892	66
509	Graphitic nanorings for super-long lifespan lithium-ion capacitors. <b>2020</b> , 13, 2909-2916	7
508	Metal-organic framework-derived Ni <sub>2</sub> P/nitrogen-doped carbon porous spheres for enhanced lithium storage. <b>2020</b> , 63, 1672-1682	10
507	Freestanding Potassium Vanadate/Carbon Nanotube Films for Ultralong-Life Aqueous Zinc-Ion Batteries. <b>2020</b> , 14, 6752-6760	69
506	Inter-overlapped MoS <sub>2</sub> /C composites with large-interlayer-spacing for high-performance sodium-ion batteries. <b>2020</b> , 5, 1127-1135	18

505	Atomically thin mesoporous NiCo <sub>2</sub> O <sub>4</sub> grown on holey graphene for enhanced pseudocapacitive energy storage. <b>2020</b> , 8, 13443-13451	16
504	High-Performance Aqueous Zinc-Manganese Battery with Reversible Mn/Mn Double Redox Achieved by Carbon Coated MnO Nanoparticles. <b>2020</b> , 12, 110	25
503	MoO <sub>3</sub> nanoplates: a high-capacity and long-life anode material for sodium-ion batteries. <b>2020</b> , 55, 12053-12064	4
502	Sulfur-doped CoP@ Nitrogen-doped porous carbon hollow tube as an advanced anode with excellent cycling stability for sodium-ion batteries. <b>2020</b> , 575, 61-68	25
501	A novel multielement nanocomposite with ultrahigh rate capacity and durable performance for sodium-ion battery anodes. <b>2020</b> , 8, 11598-11606	9
500	Flexible fiber-shaped lithium and sodium-ion batteries with exclusive ion transport channels and superior pseudocapacitive charge storage. <b>2020</b> , 8, 11155-11164	4
499	Sulfur-Mediated Interface Engineering Enables Fast SnS Nanosheet Anodes for Advanced Lithium/Sodium-Ion Batteries. <b>2020</b> , 12, 25786-25797	39
498	First Exploration on Electrochemical Activation of Low-Cost Albite Mineral for Boosting Lithium Storage Capability. <b>2020</b> , 4, 2000057	6
497	Interfacing MXene flakes on fiber fabric as an ultrafast electron transport layer for high performance textile electrodes. <b>2020</b> , 33, 62-70	33
496	Bubble-sheet-like Ni <sub>0.85</sub> Co <sub>2.15</sub> V <sub>2</sub> O <sub>8</sub> nanosheets for high-rate lithium storage. <b>2020</b> , 46, 14488-14495	1
495	Facile synthesis of graphene-like carbon-coated Ni <sub>3</sub> S <sub>2</sub> nanoparticles self-assembled on 3D dendritic nanostructure as high-performance anode materials of sodium-ion batteries. <b>2020</b> , 26, 4511-4522	6
494	Synergistically enhanced sodium/potassium ion storage performance of SnSb alloy particles confined in three-dimensional carbon framework. <b>2020</b> , 26, 5019-5028	11
493	Three-Dimensional Microbatteries beyond Lithium Ion. <b>2020</b> , 2, 1366-1376	54
492	Melamine-assisted synthesis of Fe <sub>3</sub> N featuring highly reversible crystalline-phase transformation for ultrastable sodium ion storage. <b>2020</b> , 8, 6768-6775	31
491	Synthesis of monodisperse rod-shaped silica particles through biotemplating of surface-functionalized bacteria. <b>2020</b> , 12, 8732-8741	5
490	Two-dimensional materials as anodes for sodium-ion batteries. <b>2020</b> , 6, 100054	25
489	Emerging 2D-Layered MnPS <sub>3</sub> /rGO composite as a superior anode for sodium-ion batteries. <b>2020</b> , 831, 154775	7
488	The construction of CuCo <sub>2</sub> O <sub>4</sub> /N-doped reduced graphene oxide hybrid hollow spheres as anodes for sodium-ion batteries. <b>2020</b> , 44, 6739-6746	4

487	Ball milling-derived nanostructured Li <sub>3</sub> VO <sub>4</sub> anode with enhanced surface-confined capacitive contribution for lithium ion capacitors. <b>2020</b> , 26, 4129-4140	7
486	Partial Atomic Tin Nanocomplex Pillared Few-Layered TiCT MXenes for Superior Lithium-Ion Storage. <b>2020</b> , 12, 78	38
485	Co <sub>2</sub> B <sub>2</sub> O <sub>5</sub> as an anode material with high capacity for sodium ion batteries. <b>2020</b> , 39, 1045-1052	10
484	Enhancing the Charge Transportation Ability of Yolk-Shell Structure for High-Rate Sodium and Potassium Storage. <b>2020</b> , 14, 4463-4474	30
483	Using negative thermal expansion effect to grow spiny NiS/C architecture and its application in sodium-ion batteries. <b>2020</b> , 829, 154572	5
482	Constructing BaLi <sub>2</sub> Ti <sub>6</sub> O <sub>14</sub> @C nanofibers with a low carbon content as high-performance anode materials for Li-ion batteries. <b>2020</b> , 44, 4295-4303	3
481	Sb&Sb <sub>2</sub> O <sub>3</sub> @C-enhanced flexible carbon cloth as an advanced self-supporting anode for sodium-ion batteries. <b>2020</b> , 44, 4719-4725	6
480	Engineering carbon-nanochain concatenated hollow Sn <sub>4</sub> P <sub>3</sub> nanospheres architectures as ultrastable and high-rate anode materials for sodium ion batteries. <b>2020</b> , 167, 736-745	23
479	MOF-derived zinc manganese oxide nanosheets with valence-controllable composition for high-performance Li storage. <b>2020</b> ,	8
478	Cagelike CoSe@N-Doped Carbon Aerogels with Pseudocapacitive Properties as Advanced Materials for Sodium-Ion Batteries with Excellent Rate Performance and Cyclic Stability. <b>2020</b> , 12, 33621-33630	29
477	Asymmetric Pseudocapacitors Based on Interfacial Engineering of Vanadium Nitride Hybrids. <b>2020</b> , 10,	11
476	Few-layer MoS <sub>2</sub> embedded in N-doped carbon fibers with interconnected macropores for ultrafast sodium storage. <b>2020</b> , 168, 691-700	27
475	Controlled High-Capacity Storage of Lithium-Ions Using Void-Incorporated 3D MXene Architectures. <b>2020</b> , 7, 2000734	3
474	FeS <sub>2</sub> @C nanorods embedded in three-dimensional graphene as high-performance anode for sodium-ion batteries. <b>2020</b> , 14, 255-265	5
473	Synergizing Phase and Cavity in CoMoO <sub>4</sub> S Yolk-Shell Anodes to Co-Enhance Capacity and Rate Capability in Sodium Storage. <b>2020</b> , 16, e2002487	17
472	Size-tunable SnS <sub>2</sub> nanoparticles assembled on graphene as anodes for high performance lithium/sodium-ion batteries. <b>2020</b> , 354, 136730	21
471	Nitrogen and sulfur co-doped mesoporous carbon derived from ionic liquid as high-performance anode material for sodium ion batteries. <b>2020</b> , 306, 110433	11
470	In situ grown 2D hydrated ammonium vanadate nanosheets on carbon cloth as a free-standing cathode for high-performance rechargeable Zn-ion batteries. <b>2020</b> , 8, 15130-15139	39

469	Supercapacitors with alternating current line-filtering performance. <b>2020</b> , 2,	25
468	Interfacial Bonding of Metal-Sulfides with Double Carbon for Improving Reversibility of Advanced Alkali-Ion Batteries. <b>2020</b> , 30, 1910599	38
467	Electrospinning-based construction of porous Mn <sub>3</sub> O <sub>4</sub> /CNFs as anodes for high-performance lithium-ion batteries. <b>2020</b> , 44, 3888-3895	3
466	Sequential-template synthesis of hollowed carbon polyhedron@SiC@Si for lithium-ion battery with high capacity and electrochemical stability. <b>2020</b> , 514, 145920	5
465	K(OH)MoS as a universal host for rechargeable aqueous cation (K, Na, Li, NH, Mg, Al) batteries. <b>2020</b> , 49, 3488-3494	14
464	SnO <sub>2</sub> nano-crystals anchored on N-doped porous carbon with enhanced lithium storage properties. <b>2020</b> , 515, 145902	13
463	Facile and One-Step in Situ Synthesis of Pure Phase Mesoporous Li <sub>2</sub> MnSiO <sub>4</sub> /CNTs Nanocomposite for Hybrid Supercapacitors. <b>2020</b> , 3, 2450-2464	18
462	Controlled design of metal oxide-based (Mn <sup>2+</sup> /Nb <sup>5+</sup> ) anodes for superior sodium-ion hybrid supercapacitors: Synergistic mechanisms of hybrid ion storage. <b>2020</b> , 71, 104594	46
461	Controllable Orientation of MoSe <sub>2</sub> Nanosheets Anchored on Carbon Cloth as Self-Supporting Anodes for Improved Sodium Storage Performance. <b>2020</b> , 167, 020554	5
460	Building three-dimensional carbon nanotubes-interwoven Ni <sub>3</sub> S <sub>2</sub> micro-nanostructures for improved sodium storage performance. <b>2020</b> , 339, 135938	12
459	Construction of TiP <sub>2</sub> O <sub>7</sub> nanosheets/rGO hierarchical Flower-like heterostructures for superfast and ultralong lithiation/delithiation process. <b>2020</b> , 513, 145854	4
458	SnS <sub>2</sub> quantum dots uniformly anchored on dispersed S-doped graphene as high-rate anodes for sodium-ion batteries. <b>2020</b> , 46, 14416-14424	15
457	Achieving high capacity and long life of aqueous rechargeable zinc battery by using nanoporous-carbon-supported poly(1,5-naphthalenediamine) nanorods as cathode. <b>2020</b> , 28, 64-72	52
456	Enhanced lithium ion storage in dual carbon decorated $\beta$ -Ga <sub>2</sub> O <sub>3</sub> rendered by improved reaction kinetics. <b>2020</b> , 828, 154484	4
455	Highly dispersed ultra-small nano Sn-SnSb nanoparticles anchored on N-doped graphene sheets as high performance anode for sodium ion batteries. <b>2020</b> , 512, 145686	19
454	VO <sub>2</sub> (B) nanobelts and reduced graphene oxides composites as cathode materials for low-cost rechargeable aqueous zinc ion batteries. <b>2020</b> , 390, 124118	77
453	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
452	Ionogel-based sodium ion micro-batteries with a 3D Na-ion diffusion mechanism enable ultrahigh rate capability. <b>2020</b> , 13, 821-829	47

451	Facile Synthesis of Bi <sub>2</sub> MoO <sub>6</sub> Nanosheets@Nitrogen and Sulfur Codoped Graphene Composites for Sodium-ion Batteries. <b>2020</b> , 36, 115-119	5
450	Tailoring mulberry-like Fe <sub>2</sub> O <sub>3</sub> architecture assembled by quantum dots on rGO to enable high pseudocapacitance and controllable solid electrolyte interphase. <b>2020</b> , 388, 124119	11
449	Phosphorus-doped porous hollow carbon nanorods for high-performance sodium-based dual-ion batteries. <b>2020</b> , 8, 4007-4016	36
448	Research status of MoSe <sub>2</sub> and its composites: A review. <b>2020</b> , 139, 106388	8
447	Band-gap engineering using metal-semiconductor interfaces for photocatalysis and supercapacitor application. <b>2020</b> , 391-451	
446	Ni <sub>0.85</sub> Se hexagonal nanosheets as an advanced conversion cathode for Mg secondary batteries. <b>2020</b> , 48, 226-232	7
445	Nickel cobalt oxide nanowires-modified hollow carbon tubular bundles for high-performance sodium-ion hybrid capacitors. <b>2020</b> , 44, 3883-3892	7
444	Red phosphorus confined in N-doped multi-cavity mesoporous carbon for ultrahigh-performance sodium-ion batteries. <b>2020</b> , 450, 227696	17
443	SnS <sub>2</sub> nanoparticle-integrated graphene nanosheets as high-performance and cycle-stable anodes for lithium and sodium storage. <b>2020</b> , 822, 153686	18
442	Sulfur-Modified Carbon-Coated CoMoO <sub>3</sub> Nanohybrid Electrodes for Enhanced Lithium-Storage Capacity. <b>2020</b> , 3, 1808-1820	4
441	Synthesis of CoS <sub>2</sub> Nanoparticles/Nitrogen-Doped Graphitic Carbon/Carbon Nanotubes Composite as an Advanced Anode for Sodium-Ion Batteries. <b>2020</b> , 7, 2752-2761	5
440	Interplay of Porosity, Wettability, and Redox Activity as Determining Factors for Lithium-Organic Electrochemical Energy Storage Using Biomolecules. <b>2020</b> , 13, 1856-1863	11
439	Self-adaptive FeP@C nanocages for reversible and long-term lithium-ion batteries. <b>2020</b> , 395, 125124	11
438	Ultrahigh-Rate-Performance Hierarchical Structured Na <sub>2</sub> Ti <sub>2</sub> O <sub>5</sub> @RGO Sodium-Ion Batteries and Revealing the Storage Mechanism Using In Situ Raman Spectroscopy. <b>2020</b> , 124, 10845-10851	9
437	Extended E-conjugated N-containing heteroaromatic hexacarboxylate organic anode for high performance rechargeable batteries. <b>2020</b> , 51, 303-311	10
436	Facile preparation of Co <sub>3</sub> O <sub>4</sub> nanoparticles incorporating with highly conductive MXene nanosheets as high-performance anodes for lithium-ion batteries. <b>2020</b> , 345, 136203	32
435	Hard Carbon Nanosheets with Uniform Ultramicropores and Accessible Functional Groups Showing High Realistic Capacity and Superior Rate Performance for Sodium-Ion Storage. <b>2020</b> , 32, e2000447	87
434	Controllable synthesis of tunable few-layered MoS <sub>2</sub> chemically bonding with in situ conversion nitrogen-doped carbon for ultrafast reversible sodium and potassium storage. <b>2020</b> , 393, 124703	19



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- 432 Platelet-like  $\text{CuS}$  impregnated with twin crystal structures for high performance sodium-ion storage. **2020**, 8, 8049-8057 24
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- 428 Tremella-like porous carbon derived from one-step electroreduction of molten carbonates with superior rate capability for sodium-ion batteries. **2020**, 26, 2899-2907 2
- 427 Preparation and characterization of three-dimensional  $\text{MnMoS}$  composites on  $\text{rGO}/\text{Ni}$  foam for battery-supercapacitor electrode with high-performance. **2020**, 345, 136260 4
- 426 3D carbon-coated  $\text{MXene}$  architectures with high and ultrafast lithium/sodium-ion storage. **2020**, 29, 163-171 68
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- 423 Superior and Reversible Lithium Storage of  $\text{SnO}/\text{Graphene}$  Composites by Silicon Doping and Carbon Sealing. **2020**, 12, 20824-20837 17
- 422 Search for potential K ion battery cathodes by first principles. **2021**, 54, 377-385 6
- 421 Catalyzing the polysulfide conversion for promoting lithium sulfur battery performances: A review. **2021**, 54, 434-451 53
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- 418  $\text{FeS}_2@C/\text{CNT}$  composite with synergistic battery/capacitor builds outstanding sodium-ion storage. **2021**, 284, 128926 0
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4 <sup>15</sup>	Self-assembly synthesis of SnNb <sub>2</sub> O <sub>6</sub> /amino-functionalized graphene nanocomposite as high-rate anode materials for sodium-ion batteries. <b>2021</b> , 40, 425-432	13
4 <sup>14</sup>	Ultrafine chromium oxide (Cr <sub>2</sub> O <sub>3</sub> ) nanoparticles as a pseudocapacitive electrode material for supercapacitors. <b>2021</b> , 851, 156046	9
4 <sup>13</sup>	Perforated two-dimensional nanoarchitectures for next-generation batteries: Recent advances and extensible perspectives. <b>2021</b> , 116, 100716	12
4 <sup>12</sup>	Ultrathin MoS <sub>2</sub> anchored on 3D carbon skeleton containing SnS quantum dots as a high-performance anode for advanced lithium ion batteries. <b>2021</b> , 403, 126251	55
4 <sup>11</sup>	Raspberry-like hierarchical structure FeS <sub>2</sub> decorated by dual-carbon framework as high-performance cathode for rechargeable lithium batteries. <b>2021</b> , 171, 171-178	6
4 <sup>10</sup>	Metal-organic framework derived porous nanostructured Co <sub>3</sub> O <sub>4</sub> as high-performance anode materials for lithium-ion batteries. <b>2021</b> , 56, 2451-2463	3
4 <sup>09</sup>	Improved Na storage and Coulombic efficiency in TiP <sub>2</sub> O <sub>7</sub> @C microflowers for sodium ion batteries. <b>2021</b> , 14, 139-147	3
4 <sup>08</sup>	Highly stable H <sub>2</sub> V <sub>3</sub> O <sub>8</sub> /Mxene cathode for Zn-ion batteries with superior rate performance and long lifespan. <b>2021</b> , 405, 126737	26
4 <sup>07</sup>	Carbon-coated Sn <sub>2</sub> S <sub>3</sub> hollow spheres as high performance anode materials for sodium-ion batteries. <b>2021</b> , 171, 464-473	11
4 <sup>06</sup>	Maximizing the rate capability of carbon-based anode materials for sodium-ion batteries. <b>2021</b> , 481, 228973	6
4 <sup>05</sup>	Rational design of carbon materials as anodes for potassium-ion batteries. <b>2021</b> , 34, 483-507	59
4 <sup>04</sup>	MnSb <sub>2</sub> S <sub>4</sub> nanorods linked with interconnected reduced graphene oxide as high-performance anode for sodium ion batteries. <b>2021</b> , 366, 137317	5
4 <sup>03</sup>	Gradient electrospinning and controlled pyrolysis derived Fe O @N-doped carbon nanorods towards enhanced lithium storage. <b>2021</b> , 851, 156097	3
4 <sup>02</sup>	A sandwich nanocomposite composed of commercially available SnO and reduced graphene oxide as advanced anode materials for sodium-ion full batteries. <b>2021</b> , 8, 396-404	7
4 <sup>01</sup>	High-Energy Aqueous Magnesium Hybrid Full Batteries Enabled by Carrier-Hosting Potential Compensation. <b>2021</b> , 133, 5503-5512	5
4 <sup>00</sup>	Porous Copper Sulfide Microflowers Grown In Situ on Commercial Copper Foils as Advanced Binder-Free Electrodes with High Rate and Long Cycle Life for Sodium-Ion Batteries. <b>2021</b> , 8, 157-163	4
3 <sup>99</sup>	Investigation the sodium storage kinetics of H <sub>1.07</sub> Ti <sub>1.73</sub> O <sub>4</sub> @rGO composites for high rate and long cycle performance. <b>2021</b> , 104, 1526-1538	4
3 <sup>98</sup>	Designing Hierarchical Porous ZnO/ZnFe <sub>2</sub> O <sub>4</sub> Hybrid Nanofibers with Robust Core/Shell Heterostructure as Competitive Anodes for Efficient Lithium Storage. <b>2021</b> , 9, 2000869	2

397	One-step synthesis of carbon-coated monocrystal molybdenum oxides nanocomposite as high-capacity anode materials for lithium-ion batteries. <b>2021</b> , 7, 498-507	2
396	Bi <sub>2</sub> O <sub>3</sub> /Bi nanocomposites confined by N-doped honeycomb-like porous carbon for high-rate and long-life lithium storage. <b>2021</b> , 22, 100885	3
395	Enhanced reversible sodium storage by thin carbon layer encapsulated MoS <sub>2</sub> nanospheres on interwoven carbon nanotubes. <b>2021</b> , 359, 115522	2
394	In situ growth of Sn nanoparticles confined carbon-based TiO <sub>2</sub> /TiN composite with long-term cycling stability for sodium-ion batteries. <b>2021</b> , 367, 137450	8
393	High-Energy Aqueous Magnesium Hybrid Full Batteries Enabled by Carrier-Hosting Potential Compensation. <b>2021</b> , 60, 5443-5452	21
392	Enhanced Reversible Capacity and Cyclic Performance of Lithium-Ion Batteries Using SnO <sub>2</sub> Interpenetrated MXene V <sub>2</sub> C Architecture as Anode Materials. <b>2021</b> , 9, 2000753	8
391	Highly compacted TiO/C microspheres via in-situ surface-confined intergrowth with ultra-long life for reversible Na-ion storage. <b>2021</b> , 582, 526-534	5
390	Bimetallic metal-organic framework derived porous NiCo <sub>2</sub> S <sub>4</sub> nanosheets arrays as binder-free electrode for hybrid supercapacitor. <b>2021</b> , 542, 148621	24
389	Correlation between lithium-ion accessibility to the electrolyte/active material interface and low-temperature electrochemical performance. <b>2021</b> , 856, 158233	3
388	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
387	A novel vanadium-mediated MoS <sub>2</sub> with metallic behavior for sodium ion batteries: Achieving fast Na <sup>+</sup> diffusion to enhance electrochemical kinetics. <b>2021</b> , 417, 128107	10
386	Novel Fe-based metal-organic cluster-derived iron oxides/S,N dual-doped carbon hybrids for high-performance lithium storage. <b>2021</b> , 13, 716-723	5
385	Free-standing SnS/carbonized cellulose film as durable anode for lithium-ion batteries. <b>2021</b> , 255, 117400	13
384	Heterostructure enhanced sodium storage performance for SnS <sub>2</sub> in hierarchical SnS <sub>2</sub> /Co <sub>3</sub> S <sub>4</sub> nanosheet array composite. <b>2021</b> , 9, 1630-1642	13
383	A general strategy for embedding ultrasmall CoM <sub>x</sub> nanocrystals (M = S, O, Se, and Te) in hierarchical porous carbon nanofibers for high-performance potassium storage. <b>2021</b> , 9, 1487-1494	16
382	Fabrication of Fe nanocomplex pillared few-layered Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene with enhanced rate performance for lithium-ion batteries. <b>2021</b> , 14, 1218-1227	23
381	Capacity and cycle performance of lithium ion batteries employing CoxZn <sub>1-x</sub> S/Co <sub>9</sub> S <sub>8</sub> @N-doped reduced graphene oxide as anode material. <b>2021</b> , 409, 127372	6
380	Intercalation-type MoP and WP nanodots with abundant phase interface embedded in carbon microflower for enhanced Li storage and reaction kinetics. <b>2021</b> , 365, 137354	8

379	Simple synthesis of honeysuckle-like CuCo <sub>2</sub> O <sub>4</sub> /CuO composites as a battery type electrode material for high-performance hybrid supercapacitors. <b>2021</b> , 46, 66-79	17
378	C-plasma derived precise volumetric buffering for high-rate and stable alloying-type energy storage. <b>2021</b> , 80, 105557	0
377	Coordination-assisted fabrication of N-doped carbon nanofibers/ultrasmall Co <sub>3</sub> O <sub>4</sub> nanoparticles for enhanced lithium storage. <b>2021</b> , 855, 157502	4
376	Low temperature and atmospheric pressure fabrication of Li <sub>3</sub> VO <sub>4</sub> /rGO hybrid as high-performance anode for lithium-ion batteries. <b>2021</b> , 27, 1041-1048	4
375	Collaborative compromise of two-dimensional materials in sodium ion capacitors: mechanisms and designing strategies. <b>2021</b> , 9, 8129-8159	2
374	Suppressing cathode dissolution via guest engineering for durable aqueous zinc-ion batteries. <b>2021</b> , 9, 7631-7639	9
373	Na <sub>3</sub> VO <sub>4</sub> as a new anode material for lithium-ion batteries. <b>2021</b> , 45, 11506-11511	4
372	A high performance all-vanadate-based Li-ion full cell. <b>2021</b> , 9, 10345-10353	14
371	Polymerization-tailored polyimides as cathodes for lithium-ion batteries. <b>2021</b> , 2, 5785-5790	2
370	Modulating the kinetics of CoSe <sub>2</sub> yolk-shell spheres via nitrogen doping with high pseudocapacitance toward ultra-high-rate capability and high-energy density sodium-ion half/full batteries. <b>2021</b> , 5, 6873-6882	1
369	CoSe particles encapsulated in the inner wall of nitrogen-doped carbon matrix nanotubes with rational interfacial bonds for high-performance lithium-ion batteries. <b>2021</b> , 50, 11458-11465	0
368	A reverse-design-strategy for C@Li <sub>3</sub> VO <sub>4</sub> nanoflakes toward superb high-rate Li-ion storage. <b>2021</b> , 9, 17270-17280	4
367	Electrochemical Performance Enhancement of Nitrogen-Doped TiO <sub>2</sub> for Lithium-Ion Batteries Investigated by a Film Electrode Model. <b>2021</b> , 35, 2717-2726	5
366	Structural engineering of metal-organic framework derived tin sulfides for advanced Li/Na storage. <b>2021</b> , 9, 11381-11396	9
365	An MnO <sub>2</sub> nanosheet@nitrogen-doped graphene aerogel enables high specific energy and high specific power for supercapacitors and Zn-ion batteries. <b>2021</b> , 9, 5848-5856	3
364	Freestanding Sodium Vanadate/Carbon Nanotube Composite Cathodes with Excellent Structural Stability and High Rate Capability for Sodium-Ion Batteries. <b>2021</b> , 13, 816-826	8
363	Ultrafast and durable Li/Na storage by an iron selenide anode using an elastic hierarchical structure. <b>2021</b> , 8, 3686-3696	2
362	Functional thiophene-diketopyrrolopyrrole-based polymer derivatives as organic anode materials for lithium-ion batteries. <b>2021</b> , 13, 2673-2684	4

- 361 Conductive Metal-Organic Framework for High Energy Sodium-Ion Hybrid Capacitors. **2021**, 4, 1568-1574 8
- 360 A facile synthesis of NiSe@CuSe nanorods as high-performance supercapacitor electrode materials. **2021**, 50, 13543-13553 3
- 359 Surface and Interface Engineering of Nanoarrays toward Advanced Electrodes and Electrochemical Energy Storage Devices. **2021**, 33, e2004959 44
- 358 Study on LiPO<sub>3</sub>@HC composite anodes with high capacity and rate capability for lithium ion capacitors. **2021**, 370, 137810 4
- 357 Confined pulverization promoting durable pseudocapacitance for FeOOH@PEDOT anode in Li-ion battery. **2021**, 882, 115005 6
- 356 Single-Atom Catalysts for Improved Cathode Performance in NaS Batteries: A Density Functional Theory (DFT) Study. **2021**, 125, 4458-4467 15
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- 352 Engineering Textile Electrode and Bacterial Cellulose Nanofiber Reinforced Hydrogel Electrolyte to Enable High-Performance Flexible All-Solid-State Supercapacitors. **2021**, 11, 2003010 49
- 351 A 1D/1D interconnected MnO<sub>2</sub> nanowires network as high-performance and high energy efficiency cathode material for aqueous zinc-ion batteries. **2021**, 370, 137740 17
- 350 Ultrafine ZnS Nanoparticles in the Nitrogen-Doped Carbon Matrix for Long-Life and High-Stable Potassium-Ion Batteries. **2021**, 13, 11007-11017 12
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- 347 Carbon Quantum Dots Promote Coupled Valence Engineering of V<sub>2</sub>O<sub>5</sub> Nanobelts for High-Performance Aqueous Zinc-Ion Batteries. **2021**, 14, 2076-2083 12
- 346 Flexible MoSe<sub>2</sub>/MXene films for Li/Na-ion hybrid capacitors. **2021**, 488, 229452 23
- 345 A Passionfruit-Like Carbon-Confined Cu<sub>2</sub>ZnSnS<sub>4</sub> Anode for Ultralong-Life Sodium Storage. **2021**, 11, 2100082 19
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342	Effect of heteroatom doping and morphology tuning of CNT-derived material for potassium-ion hybrid capacitors. <b>2021</b> , 410, 128421	6
341	Realizing Fast Charge Diffusion in Oriented Iron Carbodiimide Structure for High-Rate Sodium-Ion Storage Performance. <b>2021</b> , 15, 6410-6419	19
340	MnO/C-graphene composite aerogels with uniform nanoparticles anchored on GNS as high-capacity and long-life anode materials promoted by pseudocapacitance. <b>2021</b> , 545, 148913	3
339	Nanosized CoSb Alloy Confined in Honeycomb Carbon Framework Toward High-Property Potassium-Ion and Sodium-Ion Batteries. <b>2021</b> , 9, 2100095	3
338	Boosting Electron Transfer with Heterointerface Effect for High-Performance Lithium-Ion Storage. <b>2021</b> , 36, 365-375	35
337	Engineering active sites on hierarchical ZnNi layered double hydroxide architectures with rich Zn vacancies boosting battery-type supercapacitor performances. <b>2021</b> , 374, 137932	6
336	Battery-type CuCo <sub>2</sub> O <sub>4</sub> /CuO nanocomposites as positive electrode materials for highly capable hybrid supercapacitors. <b>2021</b> , 47, 24877-24877	7
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334	Controllable Synthesis of Novel Orderly Layered VMOs Anode Materials with Super Electrochemical Performance for Sodium-Ion Batteries. <b>2021</b> , 13, 26046-26054	5
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331	Nano Sn S Embedded in Nitrogenous-Carbon Compounds for Long-Life and High-Rate Cycling Sodium-Ion Batteries. <b>2021</b> , 14, 2383-2392	6
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329	Rational regulation ultra-microporous structure size for enhanced potassium ion storage performance. <b>2021</b> , 378, 138141	5
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327	A Chemically Self-Charging Flexible Solid-State Zinc-Ion Battery Based on VO <sub>2</sub> Cathode and Polyacrylamide-Chitin Nanofiber Hydrogel Electrolyte. <b>2021</b> , 11, 2003902	19
326	A Systematic Study of Compositionally Dependent Dielectric Tensors of Sn <sub>x</sub> Se <sub>1-x</sub> Alloys by Spectroscopic Ellipsometry. <b>2021</b> , 11, 548	2

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323	Selenium enriched hybrid metal chalcogenides with enhanced redox kinetics for high-energy density supercapacitors. <b>2021</b> , 414, 128924	25
322	Two-Dimensional Organic/Inorganic Hybrid Nanosheet Electrodes for Enhanced Electrical Conductivity toward Stable and High-Performance Sodium-Ion Batteries. <b>2021</b> , 14, 3244-3256	3
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318	Enhancing the performance of manganous oxide nanoparticles for lithium storage by in-situ construction of porous carbon embedment. <b>2021</b> , 552, 149531	1
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316	Realization of High Energy Density Sodium-Ion Hybrid Capacitors through Interface Engineering of Pseudocapacitive 3D-CoO-NrGO Hybrid Anodes. <b>2021</b> , 13, 27999-28009	4
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314	Boosted Storage Kinetics in Thick Hierarchical MicroNano Carbon Architectures for High Areal Capacity Li-Ion Batteries.	9
313	Design Principle, Optimization Strategies, and Future Perspectives of Anode-Free Configurations for High-Energy Rechargeable Metal Batteries. <b>2021</b> , 4, 601-631	10
312	Self-Supporting Electrodes for Gas-Involved Key Energy Reactions. <b>2021</b> , 31, 2104620	14
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302	Porous yolk-shell structured Na <sub>3</sub> (VO) <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F microspheres with enhanced Na-ion storage properties. <b>2021</b> , 83, 83-89	3
301	Fixing Cu <sub>7</sub> S <sub>4</sub> nanocrystals on flexible carbon nanotube film for distinguished sodium storage performance. <b>2021</b> , 418, 129489	6
300	Structural Evaluation of Coal-Tar-Pitch-Based Carbon Materials and Their Na <sup>+</sup> Storage Properties. <b>2021</b> , 11, 948	0
299	Robust pseudocapacitive charge storage behavior in Li <sub>3</sub> VO <sub>4</sub> induced by N doped MXene. <b>2021</b> , 388, 138567	2
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297	Rational construction of well-defined hollow double shell SnO <sub>2</sub> /mesoporous carbon spheres heterostructure for supercapacitors. <b>2021</b> , 873, 159810	6
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294	Exploration of fast ion diffusion kinetics in graphene nanoscrolls encapsulated CoSe <sub>2</sub> as advanced anode for high-rate sodium-ion batteries. <b>2021</b> , 181, 69-78	10
293	Review of ZnO Binary and Ternary Composite Anodes for Lithium-Ion Batteries. <b>2021</b> , 11,	1
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291	Sn-based metal oxides and sulfides anode materials for Na ion battery. <b>2021</b> , 39, 21-44	16
290	Confining ultrafine SnS nanoparticles in hollow multichannel carbon nanofibers for boosting potassium storage properties. <b>2021</b> , 67, 151-151	20



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288	Biotemplating synthesis of rod-shaped tin sulfides assembled by interconnected nanosheets for energy storage. <b>2021</b> , 506, 230180	3
287	Electrostatic Self-Assembly of CoSe <sub>2</sub> HBs/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Composites for Long-cycle-life Sodium Ion Batteries. <b>2021</b> , 8, 4047	0
286	Hierarchical design of Ni(OH) <sub>2</sub> /MnMoO <sub>4</sub> composite on reduced graphene oxide/Ni foam for high-performances battery-supercapacitors hybrid device. <b>2021</b> , 46, 38198-38198	1
285	SePnanoparticles confined within porous carbon as a lithium-ion battery anode with superior electrochemical performance. <b>2021</b> , 32,	
284	Scalable synthesis of Li <sub>3</sub> VO <sub>4</sub> /nitrogen doped carbon fibers toward self-adaptive Li-ion storage. <b>2021</b> , 893, 162178	0
283	Structural insights into the dynamic and controlled multiphase evolution of layered-spinel heterostructured sodium oxide cathode. <b>2021</b> , 2, 100547	6
282	Pseudocapacitance enhanced by N-defects in Na <sub>3</sub> MnTi(PO <sub>4</sub> ) <sub>3</sub> /N-doped carbon composite for symmetric full sodium-ion batteries. <b>2021</b> , 21, 100754	10
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279	Electrophoretic deposition of nickel ferrite anode for lithium-ion half cell with superior rate performance. <b>2021</b> , 421, 127365	2
278	Ship in bottle synthesis of yolk-shell MnS@hollow carbon spheres for sodium storage. <b>2021</b> , 32,	1
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276	Diacid Molecules Welding Achieved Self-Adaption Layered Structure Ti <sub>3</sub> C <sub>2</sub> MXene toward Fast and Stable Lithium-Ion Storage. <b>2021</b> , 9, 12930-12939	5
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273	An iron based organic framework coated with nickel hydroxide for energy storage, conversion and detection. <b>2021</b> , 600, 150-160	9
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269	RGO wrapped tungsten trioxide hydrate on CNT-modified carbon Cloth as self-supported high-rate lithium-ion battery electrode. <b>2021</b> , 394, 139162	4
268	A novel SnS <sub>2</sub> nanomaterial based on nitrogen-doped cubic-like carbon skeleton with excellent lithium storage. <b>2021</b> , 883, 160834	8
267	Cation-vacancy induced Li <sup>+</sup> intercalation pseudocapacitance at atomically thin heterointerface for high capacity and high power lithium-ion batteries. <b>2021</b> , 62, 281-288	6
266	One-step synthesis of CoON@C with superior energy storage performance for lithium ion battery anode. <b>2021</b> , 565, 150531	
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263	Biomass derived carbon containing in-situ constructed nickel-based hydroxide nanostructures based on MnO <sub>2</sub> template for high performance asymmetric supercapacitors. <b>2021</b> , 884, 161149	1
262	Reduced graphene oxide supported ZIF-67 derived CoP enables high-performance potassium ion storage. <b>2021</b> , 604, 319-326	9
261	Watermelon-like texture lithium titanate and silicon composite films as anodes for lithium-ion battery with high capacity and long cycle life. <b>2021</b> , 885, 160994	1
260	Synthesis of FeS-impregnated heteroatom-doped carbon nanofibers assisted by one-step vulcanization for superior sodium storage. <b>2021</b> , 888, 161513	0
259	Coupling Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>1-x</sub> S@Carbon with carbon-coated MoS <sub>2</sub> nanosheets as a superior anode for sodium-ion batteries. <b>2022</b> , 427, 131652	4
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256	A universal, facile and ultrafast monomer-tuned strategy to construct multi-dimensional hierarchical polymer structures and applications for lithium-ion batteries. <b>2022</b> , 428, 131135	3
255	In-situ vulcanization synthesis of honeycomb-like SnS/C nanocomposites as anode materials for lithium-ion batteries. <b>2022</b> , 891, 162051	2
254	Killing two birds with one stone: Constructing tri-elements doped and hollow-structured carbon sphere by a single template for advanced potassium-ion hybrid capacitors. <b>2022</b> , 65, 556-564	2

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252	Manganese Tetraphosphide (MnP <sub>4</sub> ) as a High Capacity Anode for Lithium-Ion and Sodium-Ion Batteries. <b>2021</b> , 11, 2003609	15
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249	Carbon-coated SnO riveted on a reduced graphene oxide composite (C@SnO/RGO) as an anode material for lithium-ion batteries.. <b>2021</b> , 11, 8521-8529	4
248	Engineering flexible carbon nanofiber concatenated MOF-derived hollow octahedral CoFe <sub>2</sub> O <sub>4</sub> as an anode material for enhanced lithium storage.	5
247	In situ growth of polyimide nanoarrays on conductive carbon supports for high-rate charge storage and long-lived metal-free cathodes. <b>2021</b> , 9, 10652-10660	8
246	Fabrication and electrochemical performances of SnO <sub>2</sub> @C composite materials. <b>2021</b> , 4, 100099	0
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244	Hybrid nanostructured MnO <sub>2</sub> nanowire/graphdiyne with enhanced lithium-ion performance promoting by interfacial storage. <b>2020</b> , 526, 146457	18
243	Sulfur doped ultra-thin anatase TiO <sub>2</sub> nanosheets/graphene nanocomposite for high-performance pseudocapacitive sodium storage. <b>2018</b> , 12, 37-43	67
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241	Electrospun Fe <sub>2</sub> MoC/C nanofibers as an efficient electrode material for high-performance supercapacitors. <b>2020</b> , 451, 227802	10
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238	Integration of Localized Electric-Field Redistribution and Interfacial Tin Nanocoating of Lithium Microparticles toward Long-Life Lithium Metal Batteries. <b>2021</b> , 13, 650-659	13
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- 234 Preparation of ZnS@N-doped-carbon composites a ZnS-amine precursor vacuum pyrolysis route.. **2021**, 11, 33344-33353 1
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- 218 Dense SnS<sub>2</sub> nanoplates vertically anchored on a graphene aerogel for pseudocapacitive sodium storage. 7

217	Ag Nanoparticles decorated few-layer Nb <sub>2</sub> CTx nanosheets architectures with superior lithium/sodium-ion storage. <b>2022</b> , 402, 139566	3
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201	Improving the capacity of zinc-ion batteries through composite defect engineering.. <b>2021</b> , 11, 34079-34085	1
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197	Fabrication of phosphorus doping porous carbon derived from bagasse for highly-efficient removal of La <sup>3+</sup> ions via capacitive deionization. <b>2022</b> , 404, 139735	1
196	Hierarchical CoNb <sub>2</sub> O <sub>6</sub> @CoOOH core-shell composite on carbon fabric for aqueous supercapacitor anode with high capacitance and super-long life. <b>2022</b> , 406, 139845	0
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189	The origin of capacity fluctuation and rescue of dead Mn-based ZnMn batteries: a Mn-based competitive capacity evolution protocol.	15
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186	Dopant-Free Main Group Elements Supported Covalent Organic-Inorganic Hybrid Conducting Polymer for Sodium-Ion Battery Application. <b>2022</b> , 5, 557-566	2
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166	Self-Sacrifice Template Construction of Uniform Yolk-Shell ZnS@C for Superior Alkali-Ion Storage.. <b>2022</b> , e2200247	3
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