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1858	Mitigating irreversible capacity losses from carbon agents via surface modification. <b>2015</b> , 275, 605-611	12
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1822	Honeycomb-like Macro-Germanium as High-Capacity Anodes for Lithium-Ion Batteries with Good Cycling and Rate Performance. <b>2015</b> , 27, 4156-4164	61
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1819	Chemical vapor deposition and atomic layer deposition for advanced lithium ion batteries and supercapacitors. <b>2015</b> , 8, 1889-1904	185
1818	Chemically Reduced Organic Small-Molecule-Based Lithium Battery with Improved Efficiency. <b>2015</b> , 27, 2121-2126	62
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1801	Graphene for Flexible Lithium-Ion Batteries: Development and Prospects. <b>2015</b> , 119-177	2
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1269	Lithium Azide as an Electrolyte Additive for All-Solid-State Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15368-15372	·4	152
1268	Suppressing Lithium Dendrite Growth by Metallic Coating on a Separator. <b>2017</b> , 27, 1704391		104
1267	Lithium Azide as an Electrolyte Additive for All-Solid-State Lithium Bulfur Batteries. 2017, 129, 15570-1557	4	12
1266	Group IVA Element (Si, Ge, Sn)-Based Alloying/Dealloying Anodes as Negative Electrodes for Full-Cell Lithium-Ion Batteries. <b>2017</b> , 13, 1702000		120
1265	Highly stable lithium ion capacitor enabled by hierarchical polyimide derived carbon microspheres combined with 3D current collectors. <b>2017</b> , 5, 23283-23291		66

1264	Comb-like solid polymer electrolyte based on polyethylene glycol-grafted sulfonated polyether ether ketone. <b>2017</b> , 255, 396-404		43
1263	Carbon-Based Nanomaterials Using Low-Temperature Plasmas for Energy Storage Application. <b>2017</b> , 739-805		
1262	Prediction of Charge-Discharge and Impedance Characteristics of Electric Double-Layer Capacitors Using Porous Electrode Theory. <b>2017</b> , 164, A2899-A2913		13
1261	Spherical graphene and Si nanoparticle composite particles for high-performance lithium batteries. <b>2017</b> , 34, 3195-3199		18
1260	High-performance stretchable electrodes prepared from elastomeric current collectors and binders. <b>2017</b> , 5, 21550-21559		11
1259	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14847-14852	16.4	71
1258	Formation of Micron-Sized Nickel Cobalt Sulfide Solid Spheres with High Tap Density for Enhancing Pseudocapacitive Properties. <b>2017</b> , 5, 9945-9954		34
1257	Advances in Structure and Property Optimizations of Battery Electrode Materials. <b>2017</b> , 1, 522-547		163
1256	Flexible Aqueous Li-Ion Battery with High Energy and Power Densities. <b>2017</b> , 29, 1701972		121
1255	Flexible, High-Wettability and Fire-Resistant Separators Based on Hydroxyapatite Nanowires for Advanced Lithium-Ion Batteries. <b>2017</b> , 29, 1703548		192
1254	Electrochemical Properties of Sulfurized-Polyacrylonitrile Cathode for Lithium-Sulfur Batteries: Effect of Polyacrylic Acid Binder and Fluoroethylene Carbonate Additive. <b>2017</b> , 8, 5331-5337		79
1253	The effect of cation mixing controlled by thermal treatment duration on the electrochemical stability of lithium transition-metal oxides. <b>2017</b> , 19, 29886-29894		50
1252	ZnO Nanomembrane/Expanded Graphite Composite Synthesized by Atomic Layer Deposition as Binder-Free Anode for Lithium Ion Batteries. <b>2017</b> , 9, 38522-38529		44
1251	Scalable fabrication of core-shell structured Li 4 Ti 5 O 12 /PPy particles embedded in N-doped graphene networks as advanced anode for lithium-ion batteries. <b>2017</b> , 369, 42-49		26
1250	Recent approaches to improving lithium metal electrodes. <b>2017</b> , 6, 70-76		5
1249	ZnAlxCo2🛮O4 Spinels as Cathode Materials for Non-Aqueous Zn Batteries with an Open Circuit Voltage of 🛮 V. <b>2017</b> , 29, 9351-9359		67
1248	TiO2-rGO nanocomposite hollow spheres: large scale synthesis and application as an efficient anode material for lithium-ion batteries. <b>2017</b> , 5, 23853-23862		48
1247	Smart Electrochemical Energy Storage Devices with Self-Protection and Self-Adaptation Abilities. <b>2017</b> , 29, 1703040		57

1246	Synthesis and electrochemical performances of LiV3O8/poly (3, 4-ethylenedioxythiophene) composites as cathode materials for rechargeable lithium batteries. <b>2017</b> , 310, 30-37	15
1245	Macroscopic-Scale Three-Dimensional Carbon Nanofiber Architectures for Electrochemical Energy Storage Devices. <b>2017</b> , 7, 1700826	109
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1242	Charge storage at the nanoscale: understanding the trends from the molecular scale perspective. <b>2017</b> , 5, 21049-21076	39
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1236	Pseudocapacitance of Mesoporous Spinel-Type MCoO (M = Co, Zn, and Ni) Rods Fabricated by a Facile Solvothermal Route. <b>2017</b> , 2, 6003-6013	61
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1228	A candidate strategy to achieve high initial Coulombic efficiency and long cycle life of Si anode materials: exterior carbon coating on porous Si microparticles. <b>2017</b> , 5, 299-304	17
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1213	Spinels: Controlled Preparation, Oxygen Reduction/Evolution Reaction Application, and Beyond. <b>2017</b> , 117, 10121-10211	789
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1211	Overview of Lithium-lon Grid-Scale Energy Storage Systems. <b>2017</b> , 4, 197-208	8

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1197	Synergistic Effect of Partially Fluorinated Ether and Fluoroethylene Carbonate for High-Voltage Lithium-Ion Batteries with Rapid Chargeability and Dischargeability. <b>2017</b> , 9, 44161-44172	28
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1184	Review of nanostructured current collectors in lithiumBulfur batteries. <b>2017</b> , 10, 4027-4054	74
1183	Preparation of One-dimensional Bamboo-like Cu2-xS@C Nanorods with Enhanced Lithium Storage Properties. <b>2017</b> , 247, 271-280	14
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1120	A facile one-step hydrothermal approach to synthesize hierarchical core-shell NiFeO@NiFeO nanosheet arrays on Ni foam with large specific capacitance for supercapacitors <b>2018</b> , 8, 15222-15228	24
1119	Effect of Long-Range and Local Order of Exfoliated and Proton-Beam-irradiated WSe2 Nanosheets for Sodium Ion Battery Application. <b>2018</b> , 39, 665-670	6
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1102	Stretchable and Tailorable Triboelectric Nanogenerator Constructed by Nanofibrous Membrane for Energy Harvesting and Self-Powered Biomechanical Monitoring. <b>2018</b> , 3, 1700370	39
1101	Transition Metal Sulfides Based on Graphene for Electrochemical Energy Storage. <b>2018</b> , 8, 1703259	479
1100	Boron and nitrogen dual-doped carbon as a novel cathode for high performance hybrid ion capacitors. <b>2018</b> , 29, 624-628	23
1099	Recent Advances in Layered Ti C T MXene for Electrochemical Energy Storage. <b>2018</b> , 14, e1703419	478
1098	Green Synthesis of Hierarchically Porous Carbon Nanotubes as Advanced Materials for High-Efficient Energy Storage. <b>2018</b> , 14, e1703950	71
1097	The investigation of lithium doping perovskite oxide LiMnO3 as possible LIB anode material. <b>2018</b> , 44, 8223-8231	12
1096	Fabrication and characterization of monodispersed Mn0.8Ni0.2Co2O4 mesoporous microspheres for supercapacitor application. <b>2018</b> , 44, 8864-8869	7
1095	Design of high-performance cathode materials with single-phase pathway for sodium ion batteries: A study on P2-Nax(LiyMn1-y)O2 compounds. <b>2018</b> , 381, 171-180	44
1094	Elektrolytadditive ffiLithiummetallanoden und wiederaufladbare Lithiummetallbatterien: Fortschritte und Perspektiven. <b>2018</b> , 130, 15220-15246	41
1093	Stochastic model for the 3D microstructure of pristine and cyclically aged cathodes in Li-ion batteries. <b>2018</b> , 26, 035005	15
1092	Au-doped Li1.2Ni0.7Co0.1Mn0.2O2 electrospun nanofibers: synthesis and enhanced capacity retention performance for lithium-ion batteries. <b>2018</b> , 8, 4112-4118	9
1091	V2O5-Based nanomaterials: synthesis and their applications. <b>2018</b> , 8, 4014-4031	83
1090	Electrochemical Activity of Hematite Phase in Full-Cell Li-ion Assemblies. 2018, 8, 1702841	15
1089	Molecular Design of Phenanthrenequinone Derivatives as Organic Cathode Materials. 2018, 11, 1215-1222	14
1088	Deciphering the Ethylene Carbonate-Propylene Carbonate Mystery in Li-Ion Batteries. <b>2018</b> , 51, 282-289	145
1087	Functionalization of graphene oxide with naphthalenediimide diamine for high-performance cathode materials of lithium-ion batteries. <b>2018</b> , 2, 803-810	14
1086	Nickel phosphide decorated Pt nanocatalyst with enhanced electrocatalytic properties toward common small organic molecule oxidation and hydrogen evolution reaction: A strengthened composite supporting effect. <b>2018</b> , 43, 3203-3215	7
1085	Freestanding nano crystalline Tin@carbon anode electrodes for high capacity Li-ion batteries. <b>2018</b> , 446, 122-130	13

1084	1D porous MnO@N-doped carbon nanotubes with improved Li-storage properties as advanced anode material for lithium-ion batteries. <b>2018</b> , 264, 292-300	127
1083	Three-dimensional design and fabrication of reduced graphene oxide/polyaniline composite hydrogel electrodes for high performance electrochemical supercapacitors. <b>2018</b> , 29, 175402	41
1082	Electrolyte Additives for Lithium Metal Anodes and Rechargeable Lithium Metal Batteries: Progress and Perspectives. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 15002-15027	359
1081	Minimization of Ion-Solvent Clusters in Gel Electrolytes Containing Graphene Oxide Quantum Dots for Lithium-Ion Batteries. <b>2018</b> , 14, e1703571	34
1080	Hybrid functional microfibers for textile electronics and biosensors. <b>2018</b> , 39, 011009	2
1079	In situ sulfur loading in graphene-like nano-cell by template-free method for Li-S batteries. <b>2018</b> , 10, 3877-3883	16
1078	Thermal-Responsive Polymers for Enhancing Safety of Electrochemical Storage Devices. <b>2018</b> , 30, e1704347	54
1077	Trapping Lithium into Hollow Silica Microspheres with a Carbon Nanotube Core for Dendrite-Free Lithium Metal Anodes. <b>2018</b> , 18, 297-301	111
1076	A zwitterionic block-copolymer, based on glutamic acid and lysine, reduces the biofouling of UF and RO membranes. <b>2018</b> , 549, 507-514	28
1075	Issues and Challenges Facing Flexible Lithium-Ion Batteries for Practical Application. <b>2018</b> , 14, e1702989	99
1074	IonBolvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode. <b>2018</b> , 130, 742-745	22
1073	Assembly and Self-Assembly of Nanomembrane Materials-From 2D to 3D. <b>2018</b> , 14, e1703665	40
1072	Pyrolytic synthesis of MoO nanoplates within foam-like carbon nanoflakes for enhanced lithium ion storage. <b>2018</b> , 514, 686-693	19
1071	A Flexible Solid Electrolyte Interphase Layer for Long-Life Lithium Metal Anodes. <b>2018</b> , 130, 1521-1525	58
1070	Exploiting a hybrid lithium ion power source with a high energy density over 30 Wh/kg. <b>2018</b> , 7, 51-57	18
1069	Reticular VO 0.6HO Xerogel as Cathode for Rechargeable Potassium Ion Batteries. 2018, 10, 642-650	52
1068	In situ electrochemical synchrotron radiation for Li-ion batteries. <b>2018</b> , 25, 151-165	9
1067	Optimization of the Pore Structure of Biomass-Based Carbons in Relation to Their Use for CO Capture under Low- and High-Pressure Regimes. <b>2018</b> , 10, 1623-1633	93

1066	Aqueous-Processable Redox-Active Supramolecular Polymer Binders for Advanced Lithium/Sulfur Cells. <b>2018</b> , 30, 685-691	33
1065	A Dual-Insertion Type Sodium-Ion Full Cell Based on High-Quality Ternary-Metal Prussian Blue Analogs. <b>2018</b> , 8, 1702856	98
1064	Fundamental Understanding of Nanostructured Si Electrodes: Preparation and Characterization. <b>2018</b> , 4, 319-337	17
1063	High Tap Density Li4Ti5O12 Anode Materials Synthesized for High Rate Performance Lithium Ion Batteries. <b>2018</b> , 3, 348-353	4
1062	Bismuth oxide nanoflake@carbon film: A free-standing battery-type electrode for aqueous sodium ion hybrid supercapacitors. <b>2018</b> , 29, 629-632	16
1061	Nano-TiO2 decorated carbon coating on the separator to physically and chemically suppress the shuttle effect for lithium-sulfur battery. <b>2018</b> , 378, 537-545	119
1060	Rational Design Oxygen and Sulfur Dual-Doped 3D Hierarchical Porous Carbons for High-Performance Lithium-Sulfur Batteries. <b>2018</b> , 165, A31-A39	5
1059	Bilayered nanoporous graphene/molybdenum oxide for high rate lithium ion batteries. <b>2018</b> , 45, 273-279	45
1058	Na/Vacancy Disordered P2-NaCoTiO: High-Energy and High-Power Cathode Materials for Sodium Ion Batteries. <b>2018</b> , 10, 3562-3570	63
1057	A New Porous Polymer for Highly Efficient Capacitive Energy Storage. <b>2018</b> , 6, 202-209	54
1056	Capacitive effects in Li1Ni0.3Co0.3Mn0.3O2IIi C Li-ion cells. <b>2018</b> , 18, 72-83	4
1055	Piperidinium ionic liquids as electrolyte solvents for sustained high temperature supercapacitor operation. <b>2018</b> , 54, 5590-5593	29
1054	Double Interlayers to Improve Cycle Performance for Liß Batteries by Using Multiwall Carbon Nanotubes/Reduced Graphene Oxide. <b>2018</b> , 57, 6741-6745	8
1053	High-Performance Hard Carbon Anode: Tunable Local Structures and Sodium Storage Mechanism. <b>2018</b> , 1, 2295-2305	41
1052	An acid-pasting strategy towards PTCDA based high performance lithium/sodium ion battery cathodes. <b>2018</b> , 276, 207-213	15
1051	Intermetallic Ni3Sn4-based graphene@carbon hybrid composites for lithium-ion batteries. <b>2018</b> , 42, 2961-2970	5
1050	Surface Zn doped LiMnO for an improved high temperature performance. <b>2018</b> , 54, 5326-5329	31
1049	Synchronous synthesis of Kirkendall effect induced hollow FeSe/C nanospheres as anodes for high performance sodium ion batteries. <b>2018</b> , 54, 5704-5707	55

1048	Enhanced kinetics of polysulfide redox reactions on MoC/CNT in lithium-sulfur batteries. 2018, 29, 295401	25	
1047	Electrochemical Oxidation of Lithium Carbonate Generates Singlet Oxygen. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 5529-5533	137	
1046	High-performance of sodium carboxylate-derived materials for electrochemical energy storage. <b>2018</b> , 61, 707-718	18	
1045	Effect of lithium content on electrochemical property of Li 1+x (Mn 0.6 Ni 0.2 Co 0.2 ) 1-x O 2 (0lk 0.3) composite cathode materials for rechargeable lithium-ion batteries. <b>2018</b> , 28, 145-150	7	
1044	Lithium Bond Impact on Lithium Polysulfide Adsorption with Functionalized Carbon Fiber Paper Interlayers for LithiumBulfur Batteries. <b>2018</b> , 122, 7033-7040	39	
1043	Double-Confined Sulfur Inside Compressed Nickel Foam and Pencil-Plating Graphite for LithiumBulfur Battery. <b>2018</b> , 57, 4880-4886	1	
1042	Effect of Lewis Acids on Graphite-Electrode Properties in EC-Based Electrolyte Solutions with Organophosphorus Compounds. <b>2018</b> , 165, A680-A687	5	
1041	Thermal Lithiated-TiO: A Robust and Electron-Conducting Protection Layer for Li-Si Alloy Anode. <b>2018</b> , 10, 12750-12758	29	
1040	Influence of the Nature of the Alkali Metal Cations on the Electrical Double-Layer Capacitance of Model Pt(111) and Au(111) Electrodes. <b>2018</b> , 9, 1927-1930	46	
1039	Li2OB2O3LeO2 glass as a high performance anode material for rechargeable lithium-ion batteries. <b>2018</b> , 6, 6860-6866	13	
1038	Nanocellulose: a promising nanomaterial for advanced electrochemical energy storage. <b>2018</b> , 47, 2837-2872	401	
1037	Semimetallic vanadium molybdenum sulfide for high-performance battery electrodes. <b>2018</b> , 6, 9411-9419	60	
1036	Fundamental Insight into Zr Modification of Li- and Mn-Rich Cathodes: Combined Transmission Electron Microscopy and Electrochemical Impedance Spectroscopy Study. <b>2018</b> , 30, 2566-2573	84	
1035	Correlating Li-Solvation Structure and its Electrochemical Reaction Kinetics with Sulfur in Subnano Confinement. <b>2018</b> , 9, 1739-1745	16	
1034	Improvement of energy storage density with trace amounts of ZrO2 additives fabricated by wet-chemical method. <b>2018</b> , 747, 495-504	16	
1033	Microporous carbons derived from organosilica-containing carbon dots with outstanding supercapacitance. <b>2018</b> , 47, 5961-5967	13	
1032	A Flexible and Ultrahigh Energy Density Capacitor via Enhancing Surface/Interface of Carbon Cloth Supported Colloids. <b>2018</b> , 8, 1703329	51	
1031	Enhanced electrochemical performance of SnS nanoparticles/CNTs composite as anode material for sodium-ion battery. <b>2018</b> , 29, 187-190	43	

1030	N-doped yolk-shell hollow carbon sphere wrapped with graphene as sulfur host for high-performance lithium-sulfur batteries. <b>2018</b> , 427, 823-829	43
1029	Self-templating thermolysis synthesis of Cu2⊠S@M (M = C, TiO2, MoS2) hollow spheres and their application in rechargeable lithium batteries. <b>2018</b> , 11, 831-844	23
1028	Nitrogen and sulfur dual-doped carbon films as flexible free-standing anodes for Li-ion and Na-ion batteries. <b>2018</b> , 126, 9-16	98
1027	Graphite modified AlNbO4 with enhanced lithium IIon storage behaviors and its electrochemical mechanism. <b>2018</b> , 97, 405-410	10
1026	MnS decorated N/S codoped 3D graphene which used as cathode of the lithium-sulfur battery. <b>2018</b> , 433, 10-15	34
1025	Simple solution-combustion synthesis of Ni-NiO@C nanocomposites with highly electrocatalytic activity for methanol oxidation. <b>2018</b> , 112, 119-126	44
1024	Copper incorporated in Li3V2(PO4)3/C cathode materials and its effects on high-rate Li-ion batteries. <b>2018</b> , 730, 103-109	17
1023	Dreidimensionale Architekturen aus Bergangsmetall-Dichalkogenid-Nanomaterialien zur elektrochemischen Energiespeicherung und -umwandlung. <b>2018</b> , 130, 634-655	33
1022	Three-Dimensional Architectures Constructed from Transition-Metal Dichalcogenide Nanomaterials for Electrochemical Energy Storage and Conversion. <i>Angewandte Chemie - International Edition</i> , 16.4 <b>2018</b> , 57, 626-646	305
1021	A gel polymer electrolyte based lithium-sulfur battery with low self-discharge. <b>2018</b> , 318, 82-87	32
1020	Sodium storage mechanism of N, S co-doped nanoporous carbon: Experimental design and theoretical evaluation. <b>2018</b> , 11, 274-281	83
1019	Spherical FeF30.33H2O/MWCNTs nanocomposite with mesoporous structure as cathode material of sodium ion battery. <b>2018</b> , 27, 573-581	19
1018	Carbon-Sheathed MoS2 Nanothorns Epitaxially Grown on CNTs: Electrochemical Application for Highly Stable and Ultrafast Lithium Storage. <b>2018</b> , 8, 1700174	118
1017	Improved Li-storage performance of CNTs-decorated LiVPO4F/C cathode material for electrochemical energy storage. <b>2018</b> , 44, 3825-3829	8
1016	Superelastic Hybrid CNT/Graphene Fibers for Wearable Energy Storage. <b>2018</b> , 8, 1702047	126
1015	Electronic and Ionic Materials for Neurointerfaces. <b>2018</b> , 28, 1704335	41
1014	The roles of graphene in advanced Li-ion hybrid supercapacitors. <b>2018</b> , 27, 43-56	50
1013	Well-Dispersed Vanadium Nitride on Porous Carbon Networks Derived from Block Copolymer of PAN-b-PDMC-b-PAN Absorbed with Ammonium Metavanadate for Energy Storage Application. <b>2018</b> , 122, 143-149	12

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1012	A Flexible Solid Electrolyte Interphase Layer for Long-Life Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1505-1509	16.4	438
1011	Electrolyte mobility in supercapacitor electrodes <b>(Solid state NMR studies on hierarchical and narrow pore sized carbons. 2018</b> , 12, 183-190		25
1010	Novel MOF shell-derived surface modification of Li-rich layered oxide cathode for enhanced lithium storage. <b>2018</b> , 63, 46-53		53
1009	A green and scalable route to yield porous carbon sheets from biomass for supercapacitors with high capacity. <b>2018</b> , 6, 1244-1254		244
1008	Self-assembly of polyoxometalate/reduced graphene oxide composites induced by ionic liquids as a high-rate cathode for batteries: ☑illing two birds with one stone□ <b>2018</b> , 6, 1743-1750		18
1007	Stable interstitial layer to alleviate fatigue fracture of high nickel cathode for lithium-ion batteries. <b>2018</b> , 376, 200-206		21
1006	Unveiling the Structural Evolution of Ag1.2Mn8O16 under Coulombically Controlled (De)Lithiation. <b>2018</b> , 30, 366-375		10
1005	Modern Applications of Green Chemistry: Renewable Energy. <b>2018</b> , 771-860		2
1004	Boron-enriched advanced energy materials. <b>2018</b> , 471, 577-586		23
1003	Highly Conductive, Light Weight, Robust, Corrosion-Resistant, Scalable, All-Fiber Based Current Collectors for Aqueous Acidic Batteries. <b>2018</b> , 8, 1702615		46
1002	Assembly of Ni(OH)2-based electrodes without material synthesis step for application in supercapacitors. <b>2018</b> , 85, 349-355		1
1001	Vertical graphene/Ti2Nb10O29/hydrogen molybdenum bronze composite arrays for enhanced lithium ion storage. <b>2018</b> , 12, 137-144		93
1000	Prospect and Reality of Ni-Rich Cathode for Commercialization. <b>2018</b> , 8, 1702028		391
999	In-situ grown CNTs modified SiO2/C composites as anode with improved cycling stability and rate capability for lithium storage. <b>2018</b> , 433, 428-436		30
998	Carbon nanotubes: A potential material for energy conversion and storage. <b>2018</b> , 64, 219-253		129
997	General oriented assembly of uniform carbon-confined metal oxide nanodots on graphene for stable and ultrafast lithium storage. <b>2018</b> , 5, 78-85		32
996	Recent Developments on and Prospects for Electrode Materials with Hierarchical Structures for Lithium-Ion Batteries. <b>2018</b> , 8, 1701415		321
995	Gel Polymer Electrolytes for Electrochemical Energy Storage. <b>2018</b> , 8, 1702184		435

994	Binder-free carbon fiber-based lithium-nickel-manganese-oxide composite cathode with improved electrochemical stability against high voltage: Effects of composition on electrode performance. <b>2018</b> , 735, 580-587	5
993	Anomalous electrokinetics at hydrophobic surfaces: Effects of ion specificity and interfacial water structure. <b>2018</b> , 259, 1011-1020	11
992	Scalable and general synthesis of spinel manganese-based cathodes with hierarchical yolk@hell structure and superior lithium storage properties. <b>2018</b> , 11, 246-253	13
991	Electrosprayed porous Fe3O4/carbon microspheres as anode materials for high-performance lithium-ion batteries. <b>2018</b> , 11, 892-904	89
990	Interface Engineering of Carbon-Based Nanocomposites for Advanced Electrochemical Energy Storage. <b>2018</b> , 5, 1800430	76
989	Ultrastretchable carbon nanotube composite electrodes for flexible lithium-ion batteries. <b>2018</b> , 10, 19972-	199 <del>38</del>
988	A rechargeable metal-free full-liquid sulfurBromine battery for sustainable energy storage. <b>2018</b> , 6, 20737-20745	5
987	Facile synthesis of graphene nanoribbons from zeolite-templated ultra-small carbon nanotubes for lithium ion storage. <b>2018</b> , 6, 21327-21334	5
986	High-Conductivity Argyrodite LiPSCl Solid Electrolytes Prepared via Optimized Sintering Processes for All-Solid-State Lithium-Sulfur Batteries. <b>2018</b> , 10, 42279-42285	94
985	Simultaneously Porous Structure and Chemical Anchor: A Multifunctional Composite by One-Step Mechanochemical Strategy toward High-Performance and Safe Lithium-Sulfur Battery. <b>2018</b> , 10, 41359-413	69 <sup>10</sup>
984	Direct Visualization of Li Dendrite Effect on LiCoO Cathode by In Situ TEM. <b>2018</b> , 14, e1803108	28
983	Green synthesis of high-performance LiFePO4 nanocrystals in pure water. <b>2018</b> , 20, 5215-5223	20
982	MoS2 Layers Decorated RGO Composite Prepared by a One-Step High-Temperature Solvothermal Method as Anode for Lithium-Ion Batteries. <b>2018</b> , 13, 1850135	2
981	Ion Conducting Behavior of Silsesquioxane-Based Materials Used in Fuel Cell and Rechargeable Battery Applications. <b>2018</b> , 59, 1744-1752	4
980	In Situ Self-Formed Nanosheet MoS/Reduced Graphene Oxide Material Showing Superior Performance as a Lithium-Ion Battery Cathode. <b>2019</b> , 13, 1490-1498	42
979	Revisiting Scientific Issues for Industrial Applications of LithiumBulfur Batteries. 2018, 1, 196-208	101
978	In Situ Constructing Flexible V2O5@GO Composite Thin Film Electrode for Superior Electrochemical Energy Storage. <b>2018</b> , 165, A3738-A3747	15
977	WSe2/Reduced Graphene Oxide Nanocomposite with Superfast Sodium Ion Storage Ability as Anode for Sodium Ion Capacitors. <b>2018</b> , 165, A3642-A3647	18

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976	Thermal Behavior of Ni-Rich Layered Oxide Cathode Materials during Cycling of 20 Ah-Scale Li-Ion Batteries. <b>2018</b> , 165, A3837-A3843	4
975	Recent Progress in Micro-Supercapacitor Design, Integration, and Functionalization. <b>2018</b> , 3, 1800367	71
974	A pH dependent high voltage aqueous supercapacitor with dual electrolytes. 2018, 712, 160-164	8
973	Metal@rganic Framework-Derived Sea-Cucumber-like FeS2@C Nanorods with Outstanding Pseudocapacitive Na-Ion Storage Properties. <b>2018</b> , 1, 6234-6241	29
972	Preparation of high-capacitance N,S co-doped carbon nanospheres with hierarchical pores as supercapacitors. <b>2018</b> , 291, 168-176	31
971	Interface engineering of sulfide electrolytes for all-solid-state lithium batteries. <b>2018</b> , 53, 958-966	133
970	Three-Electron Redox Enabled Dithiocarboxylate Electrode for Superior Lithium Storage Performance. <b>2018</b> , 10, 35469-35476	18
969	One-step hydrothermal reduction synthesis of tiny Sn/SnO2 nanoparticles sandwiching between spherical graphene with excellent lithium storage cycling performances. <b>2018</b> , 292, 72-80	18
968	Boosting long-cycle-life energy storage with holey graphene supported TiNb2O7 network nanostructure for lithium ion hybrid supercapacitors. <b>2018</b> , 403, 66-75	63
967	Nitrogen-doped thermally reduced graphene oxide quantum dotsMnO composite toward enhanced-performance Li-ion battery. <b>2018</b> , 124, 1	1
966	Advanced Nanocarbon Materials for Future Energy Applications. 2018, 305-325	1
965	Rate and Composition Dependence on the Structural Electrochemical Relationships in P2Na2/3Fe1NmyO2 Positive Electrodes for Sodium-Ion Batteries. <b>2018</b> , 30, 7503-7510	17
964	Poly(carbazole)-Coated Selenium@Conical Carbon Nanofibers Hybrid for LithiumBelenium Batteries with Enhanced Lifespan. <b>2018</b> , 1, 6964-6976	8
963	Ameliorating Interfacial Ionic Transportation in All-Solid-State Li-Ion Batteries with Interlayer Modifications. <b>2018</b> , 3, 2775-2795	45
962	Impedance Characterization of an LCO-NMC/Graphite Cell: Ohmic Conduction, SEI Transport and Charge-Transfer Phenomenon. <b>2018</b> , 4, 43	38
961	Self-Healing Lamellar Structure Boosts Highly Stable Zinc-Storage Property of Bilayered Vanadium Oxides. <b>2018</b> , 10, 35079-35089	101
960	Assessment on the Self-Discharge Behavior of Lithium-Sulfur Batteries with LiNO-Possessing Electrolytes. <b>2018</b> , 10, 35175-35183	32
959	Low-Dose Aberration-Free Imaging of Li-Rich Cathode Materials at Various States of Charge Using Electron Ptychography. <b>2018</b> , 18, 6850-6855	34

958	Toward a high-performance Li-ion battery: Constructing a Co1\( \text{IS}/ZnS@C composite derived from metal-organic framework @3D disordered polystyrene sphere template. <b>2018</b> , 160, 636-641	16
957	Solvothermal preparation of Al/Fe-doped V6O13 as cathode materials for lithium-ion batteries with enhanced electrochemical performance. <b>2018</b> , 829, 20-26	10
956	Polymer-Laden Composite Lignin-Based Electrolyte Membrane for High-Performance Lithium Batteries. <b>2018</b> , 6, 14460-14469	32
955	Li <b>D</b> xygen Battery: Parasitic Reactions. <b>2018</b> , 95-124	
954	Hierarchical Graphene-Scaffolded Silicon/Graphite Composites as High Performance Anodes for Lithium-Ion Batteries. <b>2018</b> , 14, e1802457	59
953	A Multifunctional Silly-Putty Nanocomposite Spontaneously Repairs Cathode Composite for Advanced Li <b>ß</b> Batteries. <b>2018</b> , 28, 1804777	33
952	Towards more Durable Electrochemical Capacitors by Elucidating the Ageing Mechanisms under Different Testing Procedures. <b>2019</b> , 6, 566-573	12
951	Facile synthesis of a high-performance, fire-retardant organic gel polymer electrolyte for flexible solid-state supercapacitors. <b>2018</b> , 290, 262-272	33
950	Acid-Assisted Strategy Combined with KOH Activation to Efficiently Optimize Carbon Architectures from Green Copolymer Adhesive for Solid-State Supercapacitors. <b>2018</b> , 6, 14838-14846	12
949	Recessed deposition of TiN into N-doped carbon as a cathode host for superior Li-S batteries performance. <b>2018</b> , 54, 1-9	82
948	Water-processable Li4Ti5O12 electrodes featuring eco-friendly sodium alginate binder. <b>2018</b> , 289, 112-119	12
947	Storing electricity as chemical energy: beyond traditional electrochemistry and double-layer compression. <b>2018</b> , 11, 3069-3074	24
946	Zinc Battery Driven by an Electro-Organic Reactor Cathode. 2018, 6, 15007-15014	1
945	Design and Mechanisms of Asymmetric Supercapacitors. <b>2018</b> , 118, 9233-9280	1396
944	Role of Stefan-Maxwell fluxes in the dynamics of concentrated electrolytes. <b>2018</b> , 14, 8267-8275	15
943	Recent advances in effective protection of sodium metal anode. <b>2018</b> , 53, 630-642	133
942	Sheet-membrane Mn-doped nickel hydroxide encapsulated via heterogeneous Ni3S2 nanoparticles for efficient alkaline battery upercapacitor hybrid devices. <b>2018</b> , 6, 19020-19029	40
941	Electrode Edge Effects and the Failure Mechanism of Lithium-Metal Batteries. <b>2018</b> , 11, 3821-3828	25

940	Potassium Superoxide: A Unique Alternative for Metal-Air Batteries. 2018, 51, 2335-2343	72
939	Lithium Ion Capacitors in Organic Electrolyte System: Scientific Problems, Material Development, and Key Technologies. <b>2018</b> , 8, 1801243	146
938	In Situ Doping Boron Atoms into Porous Carbon Nanoparticles with Increased Oxygen Graft Enhances both Affinity and Durability toward Electrolyte for Greatly Improved Supercapacitive Performance. <b>2018</b> , 28, 1804190	101
937	Biopolymer-assisted synthesis of 3D interconnected Fe3O4@carbon core@shell as anode for asymmetric lithium ion capacitors. <b>2018</b> , 140, 296-305	66
936	A High-Performance Sodium-Ion Hybrid Capacitor Constructed by Metal®rganic Framework®erived Anode and Cathode Materials. <b>2018</b> , 28, 1800757	151
935	Comparative Study of Li4Ti5O12 Composites Prepared withPristine, Oxidized, and Surfactant-Treated Multiwalled Carbon Nanotubes for High-Power Hybrid Supercapacitors. <b>2018</b> , 5, 2357-236	56 <sup>10</sup>
934	Manipulating electrolyte and solid electrolyte interphase to enable safe and efficient Li-S batteries. <b>2018</b> , 50, 431-440	84
933	ZnNixMnxCo2🗹xO4 Spinel as a High-Voltage and High-Capacity Cathode Material for Nonaqueous Zn-Ion Batteries. <b>2018</b> , 8, 1800589	72
932	Hollow TiNb O @C Spheres with Superior Rate Capability and Excellent Cycle Performance as Anode Material for Lithium-Ion Batteries. <b>2018</b> , 24, 12932-12937	34
931	Aqueous intercalation-type electrode materials for grid-level energy storage: Beyond the limits of lithium and sodium. <b>2018</b> , 50, 229-244	78
930	Nickel@Nickel Oxide CoreBhell Electrode with Significantly Boosted Reactivity for Ultrahigh-Energy and Stable Aqueous Ni <b>Z</b> n Battery. <b>2018</b> , 28, 1802157	92
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751	Interlayers for lithium-based batteries. <b>2019</b> , 23, 112-136	22
75°	Anode material with Li-Si nano-domains in three-dimensional carbon network. <b>2019</b> , 29, 310-315	3
749	Nonflammable, Low-Cost, and Fluorine-Free Solvent for Liquid Electrolyte of Rechargeable Lithium Metal Batteries. <b>2019</b> , 11, 17333-17340	16
748	Recent Advances and Perspectives of Carbon-Based Nanostructures as Anode Materials for Li-ion Batteries. <b>2019</b> , 12,	67
747	Synthesis of ZnFe2O4@MnO2 Multilevel Nanosheets Structure and Its Electrochemical Properties as Positive Electrodes for Asymmetric Supercapacitors. <b>2019</b> , 4, 5168-5177	3
746	Capacitive Sodium-Ion Storage Based on Double-Layered Mesoporous Graphene with High Capacity and Charging/Discharging Rate. <b>2019</b> , 12, 4323-4331	7
745	Pseudocapacitive Behavior and Ultrafast Kinetics from Solvated Ion Cointercalation into MoS2 for Its Alkali Ion Storage. <b>2019</b> , 2, 3726-3735	2
744	The rise of bio-inspired energy devices. <b>2019</b> , 23, 390-408	8
743	Boosting the cycling stability of LixSi alloy microparticles through electroless copper deposition. <b>2019</b> , 370, 1019-1026	12

742	Synthesis, microstructure, and electrochemical performance of Li-rich layered oxide cathode materials for Li-ion batteries. <b>2019</b> , 68, 301-312	3
741	Study on the Fading Mechanism of SiO-based Anodes Using Styrene Butadiene Rubber and Carboxymethyl Cellulose as Binders for Lithium-ion Batteries. <b>2019</b> , 242, 042014	1
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737	Morphology inheritance synthesis of carbon-coated Li3VO4 rods as anode for lithium-ion battery. <b>2019</b> , 62, 1105-1114	11
736	Hierarchical flower-like Fe2O3 mesoporous nanosheets with superior electrochemical lithium storage performance. <b>2019</b> , 23, 363-370	12
735	Carbonyl-based polyimide and polyquinoneimide for potassium-ion batteries. <b>2019</b> , 7, 9997-10003	69
734	Co-Electrodeposited porous PEDOT-CNT microelectrodes for integrated micro-supercapacitors with high energy density, high rate capability, and long cycling life. <b>2019</b> , 11, 7761-7770	49
733	Liquid electrolyte immobilized in compact polymer matrix for stable sodium metal anodes. <b>2019</b> , 23, 610-616	21
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731	An asymmetric electric double-layer capacitor with a janus membrane and two different aqueous electrolytes. <b>2019</b> , 423, 68-71	11
730	A novel flexible fiber-shaped dual-ion battery with high energy density based on omnidirectional porous Al wire anode. <b>2019</b> , 60, 285-293	30
729	Direct production of porous carbon nanosheets/particle composites from wasted litchi shell for supercapacitors. <b>2019</b> , 788, 677-684	27
728	Toward high energy-density and long cycling-lifespan lithium ion capacitors: a 3D carbon modified low-potential Li2TiSiO5 anode coupled with a lignin-derived activated carbon cathode. <b>2019</b> , 7, 8234-8244	38
727	Toward a low-cost high-voltage sodium aqueous rechargeable battery. <b>2019</b> , 29, 26-36	101
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724	A review of rechargeable batteries for portable electronic devices. <b>2019</b> , 1, 6-32	400
723	Recent advance in new-generation integrated devices for energy harvesting and storage. <b>2019</b> , 60, 600-619	126
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721	Introduction to Lithium-Sulfur Batteries. <b>2019</b> , 5-13	5
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709	Mesoporous carbon nanotube microspheres supported microporous pyrolytic carbon for high-performance supercapacitors. <b>2019</b> , 840, 423-429	4
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700	Functional Hydrogels for Next-Generation Batteries and Supercapacitors. <b>2019</b> , 1, 335-348	103
699	High-Safety All-Solid-State Lithium-Metal Battery with High-Ionic-Conductivity Thermoresponsive Solid Polymer Electrolyte. <b>2019</b> , 19, 3066-3073	64
698	5 V Stable Nitrile-Bearing Polymer Electrolyte with Aliphatic Segment as Internal Plasticizer. <b>2019</b> , 2, 3264-3273	9
697	Hierarchical flower-like structures composed of cross-shaped vanadium dioxide nanobelts as superior performance anode for lithium and sodium ions batteries. <b>2019</b> , 480, 882-887	23
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641	Supercapacitor Energy Storage Device Using Biowastes: A Sustainable Approach to Green Energy. <b>2019</b> , 11, 414	82
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622	Activating Inert Metallic Compounds for High-Rate LithiumBulfur Batteries Through In Situ Etching of Extrinsic Metal. <b>2019</b> , 131, 3819-3823	34
621	1D Nb-doped LiNi1/3Co1/3Mn1/3O2 nanostructures as excellent cathodes for Li-ion battery. <b>2019</b> , 297, 258-266	50
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581	A review on doping/coating of nickel-rich cathode materials for lithium-ion batteries. <b>2020</b> , 819, 153048	59

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580	Recent Advances and Challenges of Two-Dimensional Materials for High-Energy and High-Power Lithium-Ion Capacitors. <b>2020</b> , 3, 10-29		26
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218	Chapter 17:Applications of Solid-state NMR in Crystalline Solid Polymer Electrolytes. <b>2019</b> , 387-419	
217	3D Graphene and Its Nanocomposites: From Synthesis to Multifunctional Applications. <b>2019</b> , 363-388	1
216	Composite Electrolytes Based on Tetragonal Li7La3Zr2O12 for Lithium Batteries. <b>2019</b> , 167-193	
215	Ultrathin MoS2 nanosheets anchored on carbon nanofibers as free-standing flexible anode with stable lithium storage performance. <b>2021</b> , 894, 162550	27
214	In-situ construction of edge site-enriched VS4/graphene hybrids toward high-performance lithium storage. <b>2022</b> , 430, 133044	О
213	Graphene/Phosphorene nano-heterostructure as a potential anode material for (K/Na)-ion batteries: Insights from DFT and AIMD. <b>2022</b> , 202, 110936	7
212	MOF-derived porous carbon inlaid with MnO nanoparticles as stable aqueous Zn-ion battery cathodes. <b>2021</b> , 50, 17723-17733	2
211	Electrochemical Functions of Nanostructured Liquid Crystals with Electronic and Ionic Conductivity. <b>2020</b> , 359-377	
<b>2</b> 10	Design of a Dual-Electrolyte Battery System Based on a High-Energy NCM811-Si/C Full Battery Electrode-Compatible Electrolyte. <b>2021</b> , 13, 54069-54078	1
209	Rational design and synthesis of multi-shelled NiCo2S4 hollow microspheres for high performance supercapacitors. <b>2021</b> , 44, 103407	О
208	Past, present, and future of electrochemical energy storage: A brief perspective. <b>2021</b> , 1-28	0
207	A truncated octahedron metal-organic framework derived TiO2@C@MoS2 composite with superior lithium-ion storage properties. <b>2022</b> , 518, 230746	2
206	Next-generation Li-ion capacitor with high energy and high power by limiting alloying-intercalation process using SnO2@Graphite composite as battery type electrode. <b>2022</b> , 230, 109487	4
205	SWCNTs/phthalocyanine polymer composite derived nitrogen self-doped graphene-like carbon for high-performance supercapacitors electrodes. <b>2022</b> , 277, 125433	O
204	The Functions and Applications of Fluorinated Interface Engineering in Li-Based Secondary Batteries. <b>2021</b> , 1, 2100066	3
203	Communication@ross-Linked Anionic Polymer Coating Prepared by UV and Thermal Curing for Long-Life Lithium-Sulfur Battery. <b>2021</b> , 168, 110552	1

202	Intercalation in 2D transition metal chalcogenides: interlayer engineering and applications.	0
201	Graphdiyne-Based Materials in Rechargeable Batteries Applications. <b>2022</b> , 221-285	O
200	An overview on the use of metal vanadium oxides and vanadates in supercapacitors and rechargeable batteries.	2
199	A Review of Performance Attenuation and Mitigation Strategies of Lithium-Ion Batteries. 2107769	4
198	Facile synthesis of NiCo2O4 nanosheets with oxygen vacancies for aqueous zinc-ion supercapacitors. <b>2021</b> , 896, 162925	2
197	Tailoring the capacitive performance of ZnCo2O4 by doping of Ni2+ and fabrication of asymmetric supercapacitor. <b>2021</b> , 45, 21919-21927	O
196	Challenge-driven printing strategies toward high-performance solid-state lithium batteries.	
195	Disordered carbon coating free Li0.2375La0.5875TiO3: a superior perovskite anode material for high power long-life lithium-ion batteries. <b>2022</b> , 57, 2825	O
194	Enhancement of discharge capacity and energy density by oxygen vacancies in nickel doped SrTiO3 as cathode for rechargeable alkaline zinc battery. <b>2022</b> , 404, 139705	0
193	Structural engineering of tin sulfides anchored on nitrogen/phosphorus dual-doped carbon nanofibres in sodium/potassium-ion batteries. <b>2022</b> , 189, 46-56	12
192	All-electrospun performance-enhanced triboelectric nanogenerator based on the charge-storage process. <b>2022</b> , 57, 5334	2
191	In-situ constructed lithium-salt lithiophilic layer inducing bi-functional interphase for stable LLZO/Li interface. <b>2022</b> , 47, 61-69	8
190	Achieving long cycle life for all-solid-state rechargeable Li-I battery by a confined dissolution strategy <b>2022</b> , 13, 125	2
189	Materials and technologies for energy storage: Status, challenges, and opportunities. <b>2021</b> , 46, 1153	3
188	Rechargeable hybrid organic Zn battery (ReHOZnB) with non-flammable electrolyte. 2022, 904, 115949	5
187	Graphitic carbon nitride for batteries. <b>2022</b> , 367-392	
186	Enabling Silicon Anodes with Novel Isosorbide-Based Electrolytes. <b>2022</b> , 7, 897-905	2
185	Application of Guar Gum and its Derivatives as Green Binder/Separator for Advanced Lithium-lon Batteries <b>2022</b> , 11, e202100209	1

184	High-voltage lithium-ion capacitors enabled by a multifunctional phosphite electrolyte additive. <b>2022</b> , 46, 431-442	1
183	TiO2 encrusted MXene as a High-Performance anode material for Li-ion batteries. <b>2022</b> , 583, 152441	2
182	Supercapacitor-Inspired Triboelectric Nanogenerator Based on Electrostatic Double Layer. <b>2022</b> , 95, 106971	3
181	Chemical-Mechanical Effects in Ni-Rich Cathode Materials.	3
180	An Iron Supramolecular Compound Containing Terpyridine Polycarboxylic Acid for High Performance Lithium-Ion Batteries. <b>2022</b> , 120848	
179	Evaluating the effectiveness of in situ characterization techniques in overcoming mechanistic limitations in lithiumBulfur batteries.	4
178	Synthesis of a graphitized hierarchical porous carbon material supported with a transition metal for electrochemical conversion.	1
177	Understanding the interactions between lithium polysulfides and anchoring materials in advanced lithium-sulfur batteries using density functional theory <b>2022</b> ,	3
176	Life-Related Hazards of Materials Applied to MgB Batteries. <b>2022</b> , 15, 1543	
175	MXenes for metal-ion and metal-sulfur batteries: Synthesis, properties, and electrochemistry. <b>2022</b> , 2, 100077	
174	Importance of Mass Transport in High Energy Density Lithium-Sulfur Batteries Under Lean Electrolyte Conditions.	1
173	Current international research into cellulose as a functional nanomaterial for advanced applications. <b>2022</b> , 57, 5697-5767	10
172	Bitumen and asphaltene derived nanoporous carbon and nickel oxide/carbon composites for supercapacitor electrodes <b>2022</b> , 12, 4095	1
171	3DG/Se4.7S3.3 composites with different morphologies as new all-solid-state lithium storage electrode materials. <b>2022</b> , 9, 035601	
170	A Liquid-Metal Electrocatalyst as a Self-Healing Anchor to Suppress Polysulfide Shuttling in Lithium-Sulfur Batteries.	
169	A Cobalt Enrichment Strategy for Suppressing the 4.2 V Adverse Phase Transition in Ni-Rich Layered Materials.	
168	ReviewRevealing the Intercrystalline Cracking Mechanism of NCM and Some Regulating Strategies. <b>2022</b> , 169, 040512	
167	Tuning the Porous Structure in PMMA-Templated Mesoporous MoO2 for Pseudocapacitive Li-Ion Electrodes.	O

166	Porous core-shell B-doped silicondarbon composites as electrode materials for lithium ion capacitors. <b>2022</b> , 531, 231345	1
165	Practical $4.4\mathrm{V}$ Li  NCM811 batteries enabled by a thermal stable and HF free carbonate-based electrolyte. <b>2022</b> , 96, 107122	5
164	Bifunctional separators design for safe lithium-ion batteries: Suppressed lithium dendrites and fire retardance. <b>2022</b> , 97, 107204	5
163	Stabilization of crystal and interfacial structure of Ni-rich cathode material by vanadium-doping <b>2022</b> , 617, 193-203	Ο
162	Hollow TiNb2O7 Nanospheres with a Carbon Coating as High-Efficiency Anode Materials for Lithium-Ion Batteries. <b>2022</b> , 10, 61-70	6
161	Specific Ion Solvation and Pairing Effects in Glycerol Carbonate <b>2021</b> , 125, 13635-13643	2
160	Recent progress of battery grade metal sulfides for hybrid energy storage devices. <b>2022</b> , 46, 3906-3938	1
159	Utilization of Cellulose to Its Full Potential: A Review on Cellulose Dissolution, Regeneration, and Applications <b>2021</b> , 13,	5
158	Design of Functional Carbon Composite Materials for Energy Conversion and Storage. 1	О
157	Advanced Current Collector Materials for High-Performance Lithium Metal Anodes <b>2022</b> , e2200010	6
156	Fundamental mechanism revealed for lithium deficiencies engineering in a new spherical Li-Rich Mn-based layered Li1.23Mn0.46Ni0.246Co0.046Al0.015O2 cathode. <b>2022</b> , 418, 140379	О
155	Combination of chemical foaming strategy and laser-induced graphene technology for enhanced paper-based microsupercapacitor. <b>2022</b> , 535, 231488	1
154	Data_Sheet_1.docx. <b>2019</b> ,	
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152	Dual-Layered Interfacial Evolution of Lithium Metal Anode: SEI Analysis via TOF-SIMS Technology <b>2022</b> ,	1
151	Exchange-Mediated Transport in Battery Electrolytes: Ultrafast or Ultraslow?. 2022,	3
150	Mechanical properties of cathode materials for lithium-ion batteries. 2022,	5
149	Advances of Synthesis Methods for Porous Silicon-Based Anode Materials <b>2022</b> , 10, 889563	O

148	A Robust Bundled and Wrapped Structure Design of Ultrastable Silicon Anodes for Antiaging Lithium-Ion Batteries.	
147	Bi 3+ Induced Crystal Growth of a Symbiotic Heterojunction Enables Long-Lifespan Zn-Ion Batteries. <b>2022</b> , 9,	
146	4-Fluorophenylsulfonylacetonitrile as an Electrolyte Additive for Improving the High-Voltage Performance of LiNi0.83Co0.11Mn0.06O2 Cathode Batteries.	
145	Achieving high-performance aqueous Zn-ion hybrid supercapacitors by utilizing zinc-based MOF-derived N-doped carbon. 1	O
144	Synthesis and characterization of porous-crystalline C/Fe3O4 microspheres by spray pyrolysis with steam oxidation as anode materials for Li-ion batteries. <b>2022</b> , 33, 103606	Ο
143	A hydrophobic membrane to enable lithium-air batteries to operate in ambient air with a long cycle life. <b>2022</b> , 421, 140517	2
142	Malonatophosphate as an SEI- and CEI-forming additive that outperforms malonatoborate for thermally robust lithium-ion batteries. <b>2022</b> , 50, 75-85	2
141	Development of high areal capacity electrolytic MnO 2 -Zn battery via an iodine mediator.	1
140	Spherical CoS2 with high load capacity as cathode carrier material of lithium sulfur batteries for improving the volume energy density.	О
139	Mo C Nanoparticles Embedded in Carbon Nanowires with Surface Pseudocapacitance Enables High-Energy and High-Power Sodium Ion Capacitors <b>2022</b> , e2200805	1
138	Biochar electrocatalysts for clean energy applications. <b>2022</b> , 333-343	
137	Advances in Electrode Materials for Rechargeable Batteries. <b>2022</b> , 243-318	
136	Study on the Relationship Between Open-Circuit Voltage, Time Constant And Polarization Resistance of Lithium-Ion Batteries.	3
135	High-areal-capacity of micron-sized silicon anodes in lithium-ion batteries by using wrinkled-multilayered-graphenes. <b>2022</b> , 50, 234-242	6
134	Unraveling diffusion kinetics of honeycomb structured Na\$_2\$Ni\$_2\$TeO\$_6\$ as a high-potential and stable electrode for sodium-ion batteries.	3
133	Preparation of bulk doped NiCo2O4 bimetallic oxide supercapacitor materials by in situ growth method. 1-10	
132	Dual carbon Li-ion capacitor with high energy density and ultralong cycling life at a wide voltage window.	0
131	Porphyrin-based Framework Materials for Energy Conversion. <b>2022</b> , null	26

130	Thorn-Like Carbon Nanofibers Combined with Molybdenum Nitride Nanosheets as a Modified Separator Coating: An Efficient Chemical Anchor and Catalyst for Liß Batteries.	1
129	Potassium formate-based electrolytes for high performance aqueous electrochemical capacitors. <b>2022</b> , 541, 231657	Ο
128	Rational design of 3D net-like carbon based Mn3O4 anode materials with enhanced lithium storage performance.	0
127	Vapor-Solid-Solid Growth of Si Nanowires Using Mg Seeds and Their Electrochemical Performance in Li-Ion Battery Anodes.	
126	A Novel Ethanol-Mediated Synthesis of Superionic Halide Electrolytes for High-Voltage All-Solid-State LithiumMetal Batteries.	0
125	Impact of Overlithiation and Al doping on the battery performance of Li-rich layered oxide materials. <b>2022</b> , 140737	2
124	Prussian blue analogue/KB-derived Ni/Co/KB composite as a superior adsorption-catalysis separator modification material for Li-S batteries. <b>2022</b> , 625, 425-434	0
123	Engineering thermoelectric and mechanical properties by nanoporosity in calcium cobaltate films from reactions of Ca(OH)2/Co3O4 multilayers.	O
122	Polymethylene Blue Nanospheres Supported Honeycomb-Like Nico-Ldh for High-Performance Supercapacitors.	
121	Hierarchical Diagnostics and Risk Assessment for Energy Supply in Military Vehicles. <b>2022</b> , 15, 4791	O
120	Integrated Photovoltaic Charging and Energy Storage Systems: Mechanism, Optimization, and Future. 2203014	2
119	Design Criteria for Silicon-Based Anode Binders in Half and Full Cells. 2200850	8
118	Structural Oxygen Vacancies and Crystalline Defects in Iron Vanadate with Multiple Redox Centers Boosting Surface Migration for High-Performance Zinc-Ion Battery. 2200641	0
117	A dual-lithiophilic interfacial layer with intensified Lewis basicity and orbital hybridization for high-performance lithium metal batteries. <b>2022</b> ,	O
116	Recent Advanced Development of Stabilizing Sodium Metal Anodes. 2022,	1
115	Sn nanoparticles embedded into porous hydrogel-derived pyrolytic carbon as composite anode materials for lithium-ion batteries.	2
114	In Situ Grown MnO2 Nanoflower Arrays on Ni Foam (MnO2@NF) as 3D Lithiophilic Hosts for a Stable Lithium Metal Anode.	О
113	Tailoring crystallinity of 2D cobalt phosphate to introduce pseudocapacitive behavior. <b>2022</b> , 54, 105371	0

112	Hybrid Electrolytes Enabling in-situ Interphase Protection and Suppressed Electrode Dissolution for Aqueous Sodium-Ion Batteries.	О
111	Research progress and potential materials of porous thick electrode with directional structure for lithium-sulfur batteries.	О
110	Probing Electrolyte Influence on CO2 Reduction in Aprotic Solvents. <b>2022</b> , 126, 13595-13606	2
109	Three-dimensional Ti3C2 MXene@silicon@nitrogen-doped carbon foam for high performance self-standing lithium-ion battery anodes. <b>2022</b> , 921, 116664	O
108	Synthesis and electrochemical characterization of polyaniline doped cadmium oxide (PANI-CdO) nanocomposites for supercapacitor applications. <b>2022</b> , 55, 105446	1
107	Hydrothermally prepared composite of Na3V2(PO4)2F3 with gelatin and graphene used as a high-performance sodium ion battery cathode. <b>2022</b> , 926, 166857	o
106	A room-temperature ionic liquid-based superionic conductive polymer electrolyte with high thermal stability for long-cycle-life lithium batteries.	О
105	Applications of graphene-based composites in the anode of lithium-ion batteries. 4,	О
104	Copper-Coated Graphite Felt as Current Collector for Li-Ion Batteries. 2022, 12, 1321	0
103	Corrosion suppression of aluminium current collectors within Li-ion cells using 3-methoxypropionitrile-based electrolytes. <b>2022</b> , 431, 141105	О
102	Navel orange peel-derived hard carbons as high performance anode materials of Na and Li-ion batteries. <b>2022</b> , 129, 109329	0
101	3D-architectured spherical Ce2Mo5O16 by a time-dependent hydrothermal process and their energy storage application. <b>2022</b> , 928, 167215	o
100	Ultrathin two-dimensional nanosheet metal-organic frameworks with high-density ligand active sites for advanced lithium-ion capacitors. <b>2022</b> , 103, 107797	2
99	Two-dimensional redox polydopamine with in-plane cylindrical mesochannels on graphene for high-energy and high-power lithium-ion capacitors. <b>2023</b> , 452, 139095	O
98	Vapor-solid-solid growth of silicon nanowires using magnesium seeds and their electrochemical performance in Li-ion battery anodes. <b>2023</b> , 452, 139397	О
97	Nano/Microstructures of Nickel Sulphide for Energy Storage and Conversion Devices. <b>2022</b> , 347-370	O
96	A functional electrolyte additive enabling robust interphases in high-voltage Li?LiNi0.8Co0.1Mn0.1O2 batteries at elevated temperatures.	1
95	Electrochemically induced catalytic adsorption sites in spent lithium-ion battery cathodes for high-rate vanadium redox flow batteries. <b>2022</b> , 10, 18626-18635	1

94	Leveraging Advanced X-ray Imaging for Sustainable Battery Design. 2022, 7, 3151-3176	О
93	Shape-Memory Electrochemical Energy Storage Devices.	Ο
92	Amylopectin-Assisted Fabrication of In Situ Carbon-Coated Na3V2(PO4)2F3 Nanosheets for Ultra-Fast Sodium Storage. <b>2022</b> , 14, 40812-40821	1
91	MXene/PVA Fiber-based Supercapacitor with Stretchability for Wearable Energy Storage.	3
90	An Efficient Structure Manipulation Strategy of Preparing Vanadium Carbide, V8C7/C, for Improving Lithium and Zinc Storage. <b>2022</b> , 51, 6047-6055	О
89	Recent Advance in Two-Dimensional MXenes: New Horizons in Flexible Batteries and Supercapacitors Technologies. <b>2022</b> ,	1
88	Carbonaceous-Material-Induced Gelation of Concentrated Electrolyte Solutions for Application in LithiumBulfur Battery Cathodes.	0
87	Caesium acetate based electrolytes for aqueous electrical double layer capacitors.	O
86	Development of Proteins for High-Performance Energy Storage Devices: Opportunities, Challenges, and Strategies. 2202568	0
85	High-Energy and Long-Lasting Organic Electrode for a Rechargeable Aqueous Battery. 3637-3645	O
84	A Self-Standing Flexible Gel Polymer Electrolyte for Dendrite-Free Lithium-Metal Batteries.	0
83	Trichloroisocyanuric Acid (TCCA): A Suitable Reagent for the Synthesis of Selanyl-benzo[b]chalcogenophenes.	1
82	Effect of Solvents on a Li10GeP2S12-Based Composite Electrolyte via Solution Method for Solid-State Battery Applications.	1
81	Few layer graphene nanosheets from kinnow peel waste for high-performance supercapacitors: A comparative study with three different electrolytes. <b>2022</b> , 55, 105729	1
80	Perpetual Voltage Control with Flexible Thin Battery from Green Garbage Materials. 2022, 1-9	0
79	Surface engineering towards high-energy carbon cathode for advanced aqueous zinc-ion hybrid capacitors. <b>2022</b> , 107919	0
78	Development of a lithium-oxygen battery with an improved redox mediator applicable to gel polymer electrolytes. <b>2022</b> ,	0
77	Acceleration of Cathode Interfacial Kinetics by Liquid Organosulfides in Lithium Metal Batteries.	2

76	Rational design of thermally stable polymorphic layered cathode materials for next generation lithium rechargeable batteries. <b>2022</b> ,	O
75	Desolvation Synergy of Multiple H/LiBonds on IronDextranBased Catalyst Stimulates LithiumBulfur Cascade Catalysis. 2207074	1
74	Acceleration of Cathode Interfacial Kinetics by Liquid Organosulfides in Lithium Metal Batteries.	O
73	Ultrathin Ti 3 C 2 T x nanosheets modified separators for Lithium-sulfur batteries.	Ο
72	Facile synthesis of lithium argyrodite Li5.5PS4.5Br1.5 with high ionic conductivity for all-solid-state batteries. 4,	1
71	Storage of Na in 2D SnS for Na ion batteries: A DFT Prediction.	O
70	Two-dimensional porous CeO2@Co3O4 sheet-like heterostructures for high-performance aqueous hybrid supercapacitors.	0
69	Enhancing the reversibility of Li deposition/dissolution in sulfur batteries using high-concentration electrolytes to develop anode-less batteries with lithium sulfide cathode. <b>2023</b> , 554, 232323	Ο
68	Recent advances of emerging oxyhydroxide for electrochemical energy storage applications. <b>2023</b> , 554, 232309	1
67	Hollow ppy@Ti2Nb10O29-x@NC bowls: A stressfelease structure with vacancy defects and coating interface for Li capacitor. <b>2023</b> , 454, 140287	1
66	Scalable Advanced Li(Ni0.8Co0.1Mn0.1)O2 Cathode Materials from a Slug Flow Continuous Process.	О
65	Evalerolactone as sustainable and low-toxic solvent for electrical double layer capacitors.	O
64	Activation of 2D MoS2 electrodes induced by high-rate lithiation processes. 2022,	1
63	Introducing oxidant to expand laser-induced in-plane microsupercapacitor in depth. <b>2023</b> , 555, 232394	O
62	Internally-externally molecules-scissored ramie carbon for high performance electric double layer supercapacitors. <b>2023</b> , 439, 141583	О
61	Fabrication of honeycomb-structured composite material of Pr2O3, Co3O4, and graphene on nickel foam for high-stability supercapacitors. <b>2022</b> , 47, 211-219	Ο
60	Enabling a compatible Li/garnet interface via a multifunctional additive of sulfur. 2022, 11, 251-258	O
59	Polymethylene blue nanospheres supported honeycomb-like NiCo-LDH for high-performance supercapacitors. <b>2023</b> , 439, 141683	O

58	Cation-doped V2O5 microsphere as a bidirectional catalyst to activate sulfur redox reactions for lithium-sulfur batteries. <b>2023</b> , 456, 140948	1
57	MOF derived metal oxide composites and their applications in energy storage. <b>2023</b> , 477, 214949	O
56	Building Na-ion full cells using homologous Prussian blue and its phosphide derivative. <b>2023</b> , 612, 155952	O
55	2,2,5,5-Tetramethyl-2,5-disila-1-oxacyclopentane as a bifunctional electrolyte additive for Ni-rich (LiNi0.9Co0.05Mn0.05O2) cathode in Li-ion batteries. <b>2023</b> , 556, 232411	O
54	Fundamentals and advances of ligand field theory in understanding structure-electrochemical property relationship of intercalation-type electrode materials for rechargeable batteries. <b>2023</b> , 133, 101055	2
53	Low-cost iron-based electrocatalysts for high-performance LiD2 batteries. 2023, 17, 100351	О
52	Operando Observation of Coupled Discontinuous-Continuous Transitions in Ion-Stabilized Intercalation Cathodes. <b>2022</b> , 8, 252	Ο
51	Nanostructured Manganese Dioxide for Hybrid Supercapacitor Electrodes. <b>2022</b> , 8, 263	1
50	Smart Deep Eutectic Electrolyte Enabling Thermally Induced Shutdown Toward High-Safety Lithium Metal Batteries. 2202529	0
49	Polymer Electrolytes Based on the Lithium Form of Nafion Sulfonic Cation-Exchange Membranes: Current State of Research and Prospects for Use in Electrochemical Power Sources. <b>2022</b> , 4, 433-454	O
48	Three-Dimensional Unified Electrode Design Using CuO Embedded MnO2 Nano-Dandelions@Ni(OH)2 Nanoflakes as Electrode Material for High-Performance Supercapacitors. <b>2022</b> , 168603	0
47	Metal-air batteries: progress and perspective. <b>2022</b> , 67, 2449-2486	2
46	Polyacrylonitrile-Polyvinyl Alcohol-Based Composite Gel-Polymer Electrolyte for All-Solid-State Lithium-Ion Batteries. <b>2022</b> , 14, 5327	0
45	Modified cathode-electrolyte interphase toward high-performance batteries. <b>2022</b> , 3, 101197	O
44	Biomass Hierarchical Porous Carbonized Typha angustifolia Prepared by Green Pore-Making Technology for Energy Storage.	0
43	A Rising 2D Star: Novel MBenes with Excellent Performance in Energy Conversion and Storage. <b>2023</b> , 15,	O
42	SnS@C nanoparticles anchored on graphene oxide as high-performance anode materials for lithium-ion batteries. 10,	О
41	Cobalt hydroxide nanoflakes intercalated into nitrogen-doped reduced graphene oxidell nanosheets for supercapattery application.	O

40	Microwave-assisted synthesis and electrochemical characterization of TiNb2O7 microspheres as anode materials for lithium ion batteries.	Ο
39	Future potential for lithium-sulfur batteries. <b>2023</b> , 558, 232566	Ο
38	Nature-inspired self-activation method for the controllable synthesis of highly porous carbons for high-performance supercapacitors. <b>2023</b> , 205, 1-9	0
37	Increasing sinterability and ionic conductivity of Na3Zr2Si2PO12 ceramics by high energy ball-milling. <b>2023</b> , 391, 116139	O
36	LiNi0.8Fe0.1Al0.1O2 as a Cobalt-Free Cathode Material with High Capacity and High Capability for Lithium-Ion Batteries. <b>2023</b> , 9, 23	0
35	Ni 3 Se 4 Nanostructure as a Battery-type Positive Electrode for Hybrid Capacitors.	Ο
34	SDF-based conjugated microporous polymers cathode materials with high cycle stability for lithium-ion batteries. <b>2023</b> , 34,	0
33	Pendant Length-Dependent Electrochemical Performances for Conjugated Organic Polymers as Solid-State Polymer Electrolytes in Lithium Metal Batteries. <b>2023</b> , 15, 5283-5292	Ο
32	Key approaches and challenges in fabricating advanced flexible zinc-ion batteries with functional hydrogel electrolytes. <b>2023</b> , 56, 351-393	0
31	Stimuli-responsive structureproperty switchable polymer materials.	O
30	Catalytic performance of binary transition metal sulfide FeCoS2/rGO for lithiumBulfur batteries. <b>2023</b> , 27, 1045-1053	O
29	Efficient boron-based electrolytes constructed by anionic and interfacial co-regulation for rechargeable magnesium batteries. <b>2023</b> , 461, 141901	0
28	Elastic Interfacial Layer Enabled the High-Temperature Performance of Lithium-Ion Batteries via Utilization of Synthetic Fluorosulfate Additive.	О
27	An integrated study on the ionic migration across the nano lithium lanthanum titanate (LLTO) and lithium iron phosphate-carbon (LFP-C) interface in all-solid-state Li-ion batteries. <b>2023</b> , 565, 232907	O
26	Preparation of porous carbon spheres and their application as anode materials for lithium-ion batteries: A review. <b>2023</b> , 22, 100321	O
25	MXene/carbon composites for electrochemical energy storage and conversion. <b>2023</b> , 22, 100350	0
24	Crystal structure regulation boosts the conductivity and redox chemistry of T-Nb2O5 anode material. <b>2023</b> , 110, 108377	О
23	Facile synthesis of C, N, P co-doped SiO as anode material for lithium-ion batteries with excellent rate performance. <b>2023</b> , 64, 107147	Ο

22	Liquid crystalline electrolytes derived from the 1,12-disubstituted [closo-CB11H12][anion. <b>2023</b> , 377, 121525	О
21	Cyclotetrabenzil Derivatives for Electrochemical Lithium-Ion.	O
20	A 10 years-developmental study on conducting polymers composites for supercapacitors electrodes: A review for extensive data interpretation. <b>2023</b> , 122, 27-45	0
19	Preparation of functional groups-rich graphene oxide for high-performance lithium ulfur batteries. <b>2023</b> , 21, 100300	1
18	Highly defective N-doped carbon/reduced graphene oxide composite cathode material with rapid electrons/ions dual transport channels for high energy density lithium-ion capacitor. <b>2023</b> , 443, 141704	0
17	Enhanced energy density and power density of asymmetric supercapacitor by induced defects on the surface of MoS2 with strontium atoms. <b>2023</b> , 34,	O
16	Enhancing the Electrochemical Performance of High Voltage LiNi0.5Mn1.5O4 Cathode Materials by Surface Modification with Li1.3Al0.3Ti1.7(PO4)3/C. <b>2023</b> , 13, 628	0
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