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## Pseudocapacitive oxide materials for high-rate electrochemical energy storage

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2083	Effect of Meso- and Micro-Porosity in Carbon Electrodes on Atomic Layer Deposition of Pseudocapacitive V <sub>2</sub> O <sub>5</sub> for High Performance Supercapacitors. <b>2015</b> , 27, 6524-6534	65
2082	High Energy Density Aqueous Electrochemical Capacitors with a KI-KOH Electrolyte. <b>2015</b> , 7, 19978-85	61
2081	Effect of hydrogenation on performance of TiO <sub>2</sub> (B) nanowire for lithium ion capacitors. <b>2015</b> , 60, 199-203	41
2080	Beyond graphene: materials chemistry toward high performance inorganic functional materials. <b>2015</b> , 3, 2441-2453	65
2079	Three-dimensional, sulfur-incorporated graphene aerogels for the enhanced performances of pseudocapacitive electrodes. <b>2015</b> , 278, 484-489	81
2078	Layer-Structured Copper Antimony Chalcogenides (CuSb <sub>6</sub> SexS <sub>24</sub> ): Stable Electrode Materials for Supercapacitors. <b>2015</b> , 27, 379-386	62
2077	3D graphene nanomaterials for binder-free supercapacitors: scientific design for enhanced performance. <b>2015</b> , 7, 6957-90	148

2076	Hierarchical NiCo <sub>2</sub> O <sub>4</sub> nanosheets grown on Ni nanofoam as high-performance electrodes for supercapacitors. <b>2015</b> , 11, 804-8	211
2075	A high-rate aqueous symmetric pseudocapacitor based on highly graphitized onion-like carbon/birnessite-type manganese oxide nanohybrids. <b>2015</b> , 3, 3480-3490	74
2074	Facile synthesis of ultrathin manganese dioxide nanosheets arrays on nickel foam as advanced binder-free supercapacitor electrodes. <b>2015</b> , 277, 36-43	138
2073	Structural optimization of 3D porous electrodes for high-rate performance lithium ion batteries. <b>2015</b> , 9, 2194-202	105
2072	Nanoconfined nonequilibrium electrodeposition of metal-metal hydroxide one-dimensional nanostructures. <b>2015</b> , 151, 347-354	5
2071	A binary A(x)B(1-x) ionic alkaline pseudocapacitor system involving manganese, iron, cobalt, and nickel: formation of electroactive colloids via in situ electric field assisted coprecipitation. <b>2015</b> , 7, 1161-6	38
2070	Amorphous 3D nanoflake array-assembled porous 2D cobalt oxalate coordination polymer thin sheets with excellent pseudocapacitive performance. <b>2015</b> , 3, 1847-1852	63
2069	High Rate Capacity through Redox Electrolytes Confined in Macroporous Electrodes. <b>2015</b> , 162, A86-A91	22
2068	Reversible Aluminum-Ion Intercalation in Prussian Blue Analogs and Demonstration of a High-Power Aluminum-Ion Asymmetric Capacitor. <b>2015</b> , 5, 1401410	115
2067	Hierarchical Co <sub>3</sub> O <sub>4</sub> @Au-decorated PPy core/shell nanowire arrays: an efficient integration of active materials for energy storage. <b>2015</b> , 3, 2535-2540	24
2066	Carbon with ultrahigh capacitance when graphene paper meets K <sub>3</sub> Fe(CN) <sub>6</sub> . <b>2015</b> , 7, 432-9	81
2065	VO <sub>2</sub> nanoflake arrays for supercapacitor and Li-ion battery electrodes: performance enhancement by hydrogen molybdenum bronze as an efficient shell material. <b>2015</b> , 2, 237-244	142
2064	Polyaniline/graphene/carbon fiber ternary composites as supercapacitor electrodes. <b>2015</b> , 140, 43-47	39
2063	High interfacial storage capability of porous NiMn <sub>2</sub> O <sub>4</sub> /C hierarchical tremella-like nanostructures as the lithium ion battery anode. <b>2015</b> , 7, 225-31	132
2062	Hydrothermal synthesis of mesoporous metal oxide arrays with enhanced properties for electrochemical energy storage. <b>2015</b> , 61, 54-57	7
2061	Mixed Nickel Cobalt Manganese Oxide Nanorods for supercapacitor application. <b>2016</b> , 9, 540-546	7
2060	Hierarchically structured layered-double-hydroxide@zeolitic-imidazolate-framework derivatives for high-performance electrochemical energy storage. <b>2016</b> , 4, 12526-12534	65
2059	Hierarchical Ni <sub>2</sub> O Hydroxide Petals on Mechanically Robust Graphene Petal Foam for High-Energy Asymmetric Supercapacitors. <b>2016</b> , 26, 5460-5470	117

2058	A Scalable Free-Standing V <sub>2</sub> O <sub>5</sub> /CNT Film Electrode for Supercapacitors with a Wide Operation Voltage (1.6 V) in an Aqueous Electrolyte. <b>2016</b> , 26, 6114-6120	88
2057	Synthesis of Two-Dimensional Materials for Capacitive Energy Storage. <b>2016</b> , 28, 6104-35	441
2056	Nanoscale Engineering of Heterostructured Anode Materials for Boosting Lithium-Ion Storage. <b>2016</b> , 28, 7580-602	177
2055	High-Rate and High-Volumetric Capacitance of Compact Graphene/Polyaniline Hydrogel Electrodes. <b>2016</b> , 6, 1600185	79
2054	Ultrafast Nanocrystalline-TiO <sub>2</sub> (B)/Carbon Nanotube Hyperdispersion Prepared via Combined Ultracentrifugation and Hydrothermal Treatments for Hybrid Supercapacitors. <b>2016</b> , 28, 6751-7	50
2053	In-situ assembly of three-dimensional MoS <sub>2</sub> nanoleaves/carbon nanofiber composites derived from bacterial cellulose as flexible and binder-free anodes for enhanced lithium-ion batteries. <b>2016</b> , 211, 404-410	52
2052	Gallium Nitride Crystals: Novel Supercapacitor Electrode Materials. <b>2016</b> , 28, 3768-76	96
2051	Neutral pH Gel Electrolytes for VO <sub>2</sub> .5HO-Based Energy Storage Devices. <b>2016</b> , 8, 34455-34463	7
2050	N,O-codoped porous carbon nanosheets for capacitors with ultra-high capacitance. <b>2016</b> , 59, 547-557	18
2049	Solubility-Dependent NiMoO Nanoarchitectures: Direct Correlation between Rationally Designed Structure and Electrochemical Pseudokinetics. <b>2016</b> , 8, 35227-35234	32
2048	Electrosorption. <b>2016</b> , 1-11	5
2047	Facile and Sustainable Synthesis of Co <sub>3</sub> O <sub>4</sub> @Hollow-Carbon-Fiber for a Binder-Free Supercapacitor Electrode. <b>2016</b> , 1, 6469-6475	18
2046	Flexible, three-dimensional ordered macroporous TiO <sub>2</sub> electrode with enhanced electrode/electrolyte interaction in high-power Li-ion batteries. <b>2016</b> , 24, 72-77	71
2045	Sustainable Synthesis and Assembly of Biomass-Derived B/N Co-Doped Carbon Nanosheets with Ultrahigh Aspect Ratio for High-Performance Supercapacitors. <b>2016</b> , 26, 111-119	492
2044	Ultrafast charge/discharge characteristics of a nanosized core/shell structured LiFePO <sub>4</sub> material for hybrid supercapacitor applications. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2143-2151	35.4 99
2043	Facile synthesis of hierarchical MoS <sub>2</sub> /Carbon microspheres as a robust anode for lithium ion batteries. <b>2016</b> , 4, 9653-9660	68
2042	Pseudocapacitive effect and Li <sup>+</sup> diffusion coefficient in three-dimensionally ordered macroporous vanadium oxide for energy storage. <b>2016</b> , 69, 46-49	28
2041	Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. <b>2016</b> , 28, 3937-3943	172

2040	Synthesis of reduced graphene oxide/tungsten trioxide nanocomposite electrode for high electrochemical performance. <b>2016</b> , 42, 13128-13135	21
2039	Electrodeposition of honeycomb-shaped NiCo <sub>2</sub> O <sub>4</sub> on carbon cloth as binder-free electrode for asymmetric electrochemical capacitor with high energy density. <b>2016</b> , 6, 37562-37573	24
2038	Architecture engineering of supercapacitor electrode materials. <b>2016</b> , 09, 1640001	18
2037	Transition from Diffusion-Controlled Intercalation into Extrinsicly Pseudocapacitive Charge Storage of MoS <sub>2</sub> by Nanoscale Heterostructuring. <b>2016</b> , 6, 1501115	133
2036	Facile synthesis of a metal-organic framework-derived Mn <sub>2</sub> O <sub>3</sub> nanowire coated three-dimensional graphene network for high-performance free-standing supercapacitor electrodes. <b>2016</b> , 4, 8283-8290	134
2035	Fast pseudocapacitive reactions of three-dimensional manganese dioxide structures synthesized via self-limited redox deposition on microwave-expanded graphite oxide. <b>2016</b> , 6, 8330-8335	2
2034	Beaded manganese oxide (Mn <sub>2</sub> O <sub>3</sub> ) nanofibers: preparation and application for capacitive energy storage. <b>2016</b> , 4, 7883-7891	48
2033	The modified activated carbon treated with a low-temperature iodine plasma used as electrode material for electrochemical capacitors. <b>2016</b> , 175, 96-100	14
2032	Materials chemistry toward electrochemical energy storage. <b>2016</b> , 4, 7522-7537	110
2031	Redox electrode materials for supercapatteries. <b>2016</b> , 326, 604-612	128
2030	A 2.0 V capacitive device derived from shape-preserved metal nitride nanorods. <b>2016</b> , 26, 1-6	23
2029	A negative working potential supercapacitor electrode consisting of a continuous nanoporous Fe-Ni network. <b>2016</b> , 8, 11875-81	12
2028	Pseudocapacitance and excellent cyclability of 2,5-dimethoxy-1,4-benzoquinone on graphene. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2586-2594	35.4 101
2027	Carbon Dot-Mediated Synthesis of Manganese Oxide Decorated Graphene Nanosheets for Supercapacitor Application. <b>2016</b> , 4, 3008-3016	76
2026	A self-healable and easily recyclable supramolecular hydrogel electrolyte for flexible supercapacitors. <b>2016</b> , 4, 8769-8776	178
2025	All-solid-state flexible asymmetric micro supercapacitors based on cobalt hydroxide and reduced graphene oxide electrodes. <b>2016</b> , 6, 43844-43854	29
2024	Functionalization of chemically derived graphene for improving its electrocapacitive energy storage properties. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1891-1930	35.4 181
2023	A pseudo-capacitive chalcogenide-based electrode with dense 1-dimensional nanoarrays for enhanced energy density in asymmetric supercapacitors. <b>2016</b> , 4, 10084-10090	44

2022	Ethanol reduced molybdenum trioxide for Li-ion capacitors. <b>2016</b> , 26, 100-107	60
2021	Microwave Combustion for Modification of Transition Metal Oxides. <b>2016</b> , 26, 7263-7270	32
2020	In situ electrochemical activation of Ni-based colloids from an NiCl electrode and their advanced energy storage performance. <b>2016</b> , 8, 17090-17095	24
2019	A novel pseudocapacitance mechanism of elm seed-like mesoporous MoO <sub>3</sub> nanosheets as electrodes for supercapacitors. <b>2016</b> , 4, 14560-14566	44
2018	A bismuth oxide nanosheet-coated electrospun carbon nanofiber film: a free-standing negative electrode for flexible asymmetric supercapacitors. <b>2016</b> , 4, 16635-16644	87
2017	Densely packed hybrid films comprising SnO <sub>2</sub> and reduced graphite oxide for high-density electrochemical capacitors. <b>2016</b> , 4, 16175-16183	17
2016	Tuning porous nanostructures of MnCo <sub>2</sub> O <sub>4</sub> for application in supercapacitors and catalysis. <b>2016</b> , 6, 96296-96305	37
2015	Controllable synthesis of Ni(OH) <sub>2</sub> /Co(OH) <sub>2</sub> hollow nano-hexagons wrapped in reduced graphene oxide for supercapacitors. <b>2016</b> , 6, 97172-97179	18
2014	Ultra-small vanadium nitride quantum dots embedded in porous carbon as high performance electrode materials for capacitive energy storage. <b>2016</b> , 333, 61-71	66
2013	Ultrafine nickel-cobalt alloy nanoparticles incorporated into three-dimensional porous graphitic carbon as an electrode material for supercapacitors. <b>2016</b> , 4, 17080-17086	37
2012	Efficient storage mechanisms for building better supercapacitors. <b>2016</b> , 1,	1256
2011	Self-Assembled Nb <sub>2</sub> O <sub>5</sub> Nanosheets for High Energy High Power Sodium Ion Capacitors. <b>2016</b> , 28, 5753-5760	201
2010	Surfactant-free large scale synthesis of Co <sub>3</sub> O <sub>4</sub> quantum dots at room temperature. <b>2016</b> , 27, 2019-2024	5
2009	Electro-precipitation via oxygen reduction: a new technique for thin film manganese oxide deposition. <b>2016</b> , 4, 13555-13562	
2008	Nanostructured CuS networks composed of interconnected nanoparticles for asymmetric supercapacitors. <b>2016</b> , 18, 24471-6	64
2007	Improved capacitive energy storage via surface functionalization of activated carbon as cathodes for lithium ion capacitors. <b>2016</b> , 109, 163-172	30
2006	Fundamentals of Electrochemical Supercapacitors. <b>2016</b> , 1-30	3
2005	Electrolytes for Electrochemical Supercapacitors. <b>2016</b> , 31-254	4

2004	Ultrafast-Charging Supercapacitors Based on Corn-Like Titanium Nitride Nanostructures. <b>2016</b> , 3, 1500299	132
2003	Synthesis and characterization of Y2O3-reduced graphene oxide nanocomposites for photocatalytic applications. <b>2016</b> , 3, 075502	10
2002	Conducting Polymers for Pseudocapacitive Energy Storage. <b>2016</b> , 28, 5989-5998	277
2001	Direct Growth of Birnessite-Type MnO <sub>2</sub> on Treated Carbon Cloth for a Flexible Asymmetric Supercapacitor with Excellent Cycling Stability. <b>2016</b> , 163, A2340-A2348	23
2000	Structure variation of nickel cobalt sulfides using Ni foam and nickel salt as the nickel source and the application on the supercapacitor electrode. <b>2016</b> , 7, 295-304	16
1999	One-pot synthesis of hollow NiSe <sub>2</sub> @Se nanoparticles with improved performance for hybrid supercapacitors. <b>2016</b> , 329, 314-322	110
1998	Commercial Dacron cloth supported Cu(OH) <sub>2</sub> nanobelt arrays for wearable supercapacitors. <b>2016</b> , 4, 14781-14788	62
1997	Iron-Based Supercapacitor Electrodes: Advances and Challenges. <b>2016</b> , 6, 1601053	270
1996	Electrochemical capacitors: mechanism, materials, systems, characterization and applications. <b>2016</b> , 45, 5925-5950	2202
1995	Electrochemical kinetics of nanostructure LiFePO <sub>4</sub> /graphitic carbon electrodes. <b>2016</b> , 72, 10-14	16
1994	Electrochemical behavior of high performance on-chip porous carbon films for micro-supercapacitors applications in organic electrolytes. <b>2016</b> , 328, 520-526	31
1993	Hybrid supercapacitor devices based on MnCo <sub>2</sub> O <sub>4</sub> as the positive electrode and FeMn <sub>2</sub> O <sub>4</sub> as the negative electrode. <b>2016</b> , 390, 202-208	93
1992	Nanostructured Ni compounds as electrode materials towards high-performance electrochemical capacitors. <b>2016</b> , 4, 14509-14538	77
1991	In situ removal of template to synthesize mesoporous NiCo <sub>2</sub> O <sub>4</sub> for high performance battery type electrode. <b>2016</b> , 782, 133-137	9
1990	High-performance hybrid supercapacitors based on self-supported 3D ultrathin porous quaternary Zn-Ni-Al-Co oxide nanosheets. <b>2016</b> , 28, 475-485	143
1989	Advanced Li-Ion Hybrid Supercapacitors Based on 3D Graphene-Foam Composites. <b>2016</b> , 8, 25941-25953	57
1988	SYNTHESIS AND CHARACTERIZATION OF ELECTROCHEMICALLY EXFOLIATED GRAPHENE-MOLYBDOPHOSPHATE HYBRID MATERIALS FOR CHARGE STORAGE DEVICES. <b>2016</b> , 217, 34-46	4
1987	Intercalation Pseudocapacitance in Ultrathin VOPO <sub>4</sub> Nanosheets: Toward High-Rate Alkali-Ion-Based Electrochemical Energy Storage. <b>2016</b> , 16, 742-7	205

1986	Fe <sub>3</sub> O <sub>4</sub> /carbon nanocomposite: Investigation of capacitive & magnetic properties for supercapacitor applications. <b>2016</b> , 183, 571-579	58
1985	Soft-template-synthesis of hollow CuO/Co <sub>3</sub> O <sub>4</sub> composites for pseudo-capacitive electrode: A synergetic effect on electrochemical performance. <b>2016</b> , 244, 75-83	11
1984	Capacitance enhancement in supercapacitors by incorporating ultra-long hydrated vanadium-oxide nanobelts into graphene. <b>2016</b> , 688, 814-821	20
1983	Oxidation-Resistant and Elastic Mesoporous Carbon with Single-Layer Graphene Walls. <b>2016</b> , 26, 6418-6427	70
1982	Efficient Charge Storage in Dual-Redox Electrochemical Capacitors through Reversible Counterion-Induced Solid Complexation. <b>2016</b> , 138, 9373-6	61
1981	Nanostructured Manganese Oxides in Supercapacitors. <b>2016</b> , 345-376	3
1980	High power high safety battery with electrospun Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode and Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anode with 95% energy efficiency. <b>2016</b> , 5, 93-102	40
1979	Hierarchical MoO <sub>2</sub> /Mo <sub>2</sub> C/C Hybrid Nanowires as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. <b>2016</b> , 8, 19987-93	78
1978	Two-dimensional cobalt-manganese binary metal oxide porous nanosheets for high-performance supercapacitors. <b>2016</b> , 20, 3473-3480	2
1977	Application of Chemical Doping and Architectural Design Principles To Fabricate Nanowire Co <sub>2</sub> Ni <sub>3</sub> ZnO <sub>8</sub> Arrays for Aqueous Asymmetric Supercapacitors. <b>2016</b> , 8, 20157-67	15
1976	Rational design of sandwich-like exfoliated nickel hydroxide-carbon nanotubes as a novel electrode for supercapacitors. <b>2016</b> , 6, 70999-71005	4
1975	A high performance solid state asymmetric supercapacitor device based upon NiCo <sub>2</sub> O <sub>4</sub> nanosheets//MnO <sub>2</sub> microspheres. <b>2016</b> , 6, 70292-70302	15
1974	Plasma-induced, nitrogen-doped graphene-based aerogels for high-performance supercapacitors. <b>2016</b> , 5, e16130	125
1973	Electrochemical Energy Storage Application and Degradation Analysis of Carbon-Coated Hierarchical NiCo <sub>2</sub> S <sub>4</sub> Core-Shell Nanowire Arrays Grown Directly on Graphene/Nickel Foam. <b>2016</b> , 6, 20264	54
1972	Charge storage mechanisms of manganese oxide nanosheets and N-doped reduced graphene oxide aerogel for high-performance asymmetric supercapacitors. <b>2016</b> , 6, 37560	75
1971	Facile synthesis of MnO <sub>2</sub> nanorod/graphene nanocomposite paper electrodes using a 3D precursor for supercapacitors and sensing platform to detect 4-nitrophenol. <b>2016</b> , 222, 717-727	52
1970	Fe <sub>2</sub> O <sub>3</sub> -decorated millimeter-long vertically aligned carbon nanotube arrays as advanced anode materials for asymmetric supercapacitors with high energy and power densities. <b>2016</b> , 4, 19026-19036	41
1969	Nanoarchitected Nb <sub>2</sub> O <sub>5</sub> hollow, Nb <sub>2</sub> O <sub>5</sub> @carbon and NbO <sub>2</sub> @carbon Core-Shell Microspheres for Ultrahigh-Rate Intercalation Pseudocapacitors. <b>2016</b> , 6, 21177	97



1968	Understanding the pseudocapacitance of RuO <sub>2</sub> from joint density functional theory. <b>2016</b> , 28, 464004	20
1967	Scalable salt-templated synthesis of two-dimensional transition metal oxides. <b>2016</b> , 7, 11296	300
1966	Array of nanosheets render ultrafast and high-capacity Na-ion storage by tunable pseudocapacitance. <b>2016</b> , 7, 12122	990
1965	Porous carbon derived from sorghum stalk for symmetric supercapacitors. <b>2016</b> , 6, 103508-103516	32
1964	Enhancing Specific Energy and Power in Asymmetric Supercapacitors - A Synergetic Strategy based on the Use of Redox Additive Electrolytes. <b>2016</b> , 6, 25793	62
1963	Novel Dual-Ion Hybrid Supercapacitor Based on a NiCoO Nanowire Cathode and MoO-C Nanofilm Anode. <b>2016</b> , 8, 30232-30238	77
1962	The role of carbon nanotubes on the capacitance of MnO <sub>2</sub> /CNTs. <b>2016</b> , 89, 1189-1195	2
1961	Mesoporous MnNiCoO <sub>4</sub> @MnO <sub>2</sub> core-shell nanowire/nanosheet arrays on flexible carbon cloth for high-performance supercapacitors. <b>2016</b> , 222, 505-517	50
1960	Fully Printed Ultraflexible Supercapacitor Supported by a Single-Textile Substrate. <b>2016</b> , 8, 32317-32323	72
1959	Illustrating the redox roles of amine and nitro groups linked to p-phenylenediamine and p-nitroaniline upon the improved capacitive performances. <b>2016</b> , 783, 295-303	6
1958	Carbon Redox-Polymer-Gel Hybrid Supercapacitors. <b>2016</b> , 6, 22194	40
1957	Investigation into the origin of high stability of MnO <sub>2</sub> pseudo-capacitive electrode using operando Raman spectroscopy. <b>2016</b> , 30, 293-302	71
1956	Large-scale synthesis of hybrid metal oxides through metal redox mechanism for high-performance pseudocapacitors. <b>2016</b> , 6, 20021	56
1955	Pseudocapacitive Na-Ion Storage Boosts High Rate and Areal Capacity of Self-Branched 2D Layered Metal Chalcogenide Nanoarrays. <b>2016</b> , 10, 10211-10219	702
1954	Expansion of titanate nanotubes by the use of a surfactant and its improved performance as an anode in Li-ion batteries. <b>2016</b> , 220, 453-464	12
1953	Three-dimensional hierarchical nickel-cobalt-sulfide nanostructures for high performance electrochemical energy storage electrodes. <b>2016</b> , 4, 18335-18341	39
1952	Vanadium pentoxide/carbide-derived carbon core-shell hybrid particles for high performance electrochemical energy storage. <b>2016</b> , 4, 18899-18909	27
1951	Solar Energy and Energy Storage Materials and Devices Research in Singapore. <b>2016</b> , 113-156	

1950	Thin Film Electrochemical Capacitors Based on Organolead Triiodide Perovskite. <b>2016</b> , 2, 1600114	23
1949	Intercalation Pseudocapacitance of Exfoliated Molybdenum Disulfide for Ultrafast Energy Storage. <b>2016</b> , 2, 688-691	29
1948	Directly-Grown Hierarchical Carbon Nanotube@Polypyrrole Core-Shell Hybrid for High-Performance Flexible Supercapacitors. <b>2016</b> , 9, 370-8	40
1947	Remarkable Improvements in Volumetric Energy and Power of 3D MnO <sub>2</sub> Microsupercapacitors by Tuning Crystallographic Structures. <b>2016</b> , 26, 1830-1839	96
1946	MoS <sub>2</sub> -Quantum-Dot-Interspersed Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Nanosheets with Enhanced Performance for Li- and Na-Ion Batteries. <b>2016</b> , 26, 3349-3358	115
1945	Layered Orthorhombic Nb <sub>2</sub> O <sub>5</sub> @Nb <sub>4</sub> C <sub>3</sub> T <sub>x</sub> and TiO <sub>2</sub> @Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Hierarchical Composites for High Performance Li-ion Batteries. <b>2016</b> , 26, 4143-4151	244
1944	Origin and Tunability of Unusually Large Surface Capacitance in Doped Cerium Oxide Studied by Ambient-Pressure X-Ray Photoelectron Spectroscopy. <b>2016</b> , 28, 4692-7	28
1943	Low-Temperature Synthesis and Electrochemical Properties of Mesoporous Titanium Oxysulfides. <b>2016</b> , 3, 256-265	2
1942	Facile construction of novel CoMoO <sub>4</sub> microplates@CoMoO <sub>4</sub> microprisms structures for well-stable supercapacitors. <b>2016</b> , 26, 243-252	18
1941	Mesoporous Mo <sub>2</sub> C/N-doped carbon heteronanowires as high-rate and long-life anode materials for Li-ion batteries. <b>2016</b> , 4, 10842-10849	119
1940	Tin/vanadium redox electrolyte for battery-like energy storage capacity combined with supercapacitor-like power handling. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3392-3398	35-4 95
1939	Macroscopic porous MnO <sub>2</sub> aerogels for supercapacitor electrodes. <b>2016</b> , 3, 1043-1047	24
1938	Potentiodynamic and galvanostatic testing of NaFe <sub>0.95</sub> V <sub>0.05</sub> PO <sub>4</sub> /C composite in aqueous NaNO <sub>3</sub> solution, and the properties of aqueous Na <sub>1.2</sub> V <sub>3</sub> O <sub>8</sub> /NaNO <sub>3</sub> /NaFe <sub>0.95</sub> V <sub>0.05</sub> PO <sub>4</sub> /C battery. <b>2016</b> , 325, 185-193	19
1937	Colloidal supercapacitor electrode materials. <b>2016</b> , 83, 201-206	31
1936	Preparation of sandwich-like ternary hierarchical nanosheets manganese dioxide/polyaniline/reduced graphene oxide as electrode material for supercapacitor. <b>2016</b> , 304, 29-38	53
1935	Simultaneous reduction and covalent grafting of polythiophene on graphene oxide sheets for excellent capacitance retention. <b>2016</b> , 6, 52945-52949	42
1934	Fabrication of TiNb <sub>2</sub> O <sub>7</sub> thin film electrodes for Li-ion micro-batteries by pulsed laser deposition. <b>2016</b> , 213, 90-97	23
1933	Hybrid Film from Nickel Oxide and Oxygenated Carbon Nanotube as Flexible Electrodes for Pseudocapacitors. <b>2016</b> , 2, 698-703	8

1932	General Preparation of Three-Dimensional Porous Metal Oxide Foams Coated with Nitrogen-Doped Carbon for Enhanced Lithium Storage. <b>2016</b> , 8, 17402-8	32
1931	Scalable, Binderless, and Carbonless Hierarchical Ni Nanodendrite Foam Decorated with Hydrous Ruthenium Dioxide for 1.6 V Symmetric Supercapacitors. <b>2016</b> , 3, 1500503	20
1930	Mesoporous MoS <sub>2</sub> as a Transition Metal Dichalcogenide Exhibiting Pseudocapacitive Li and Na-Ion Charge Storage. <b>2016</b> , 6, 1501937	332
1929	MnO nanoparticles with cationic vacancies and discrepant crystallinity dispersed into porous carbon for Li-ion capacitors. <b>2016</b> , 4, 3362-3370	71
1928	Flower-like manganese-cobalt oxysulfide supported on Ni foam as a novel faradaic electrode with commendable performance. <b>2016</b> , 191, 916-922	41
1927	Facile preparation of free-standing rGO paper-based Ni-Mn LDH/graphene superlattice composites as a pseudocapacitive electrode. <b>2016</b> , 52, 3694-6	41
1926	A self-assembled intercalated metal-organic framework electrode with outstanding area capacity for high volumetric energy asymmetric capacitors. <b>2016</b> , 4, 3398-3405	26
1925	Band gap engineering of MnO <sub>2</sub> through in situ Al-doping for applicable pseudocapacitors. <b>2016</b> , 6, 13914-13919	39
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1916	High power layered titanate nano-sheets as pseudocapacitive lithium-ion battery anodes. <b>2016</b> , 305, 115-121	23
1915	Facile Synthesis of Microsphere Copper Cobalt Carbonate Hydroxides Electrode for Asymmetric Supercapacitor. <b>2016</b> , 188, 898-908	102

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1910	Preparation of mesoporous microspheres of NiO with high surface area and analysis on their pseudocapacitive behavior. <b>2016</b> , 193, 145-153	39
1909	Ceria nanoparticles uniformly decorated on graphene nanosheets with coral-like morphology for high-performance supercapacitors. <b>2016</b> , 78, 163-171	14
1908	Electrochemical Transport Phenomena in Hybrid Pseudocapacitors under Galvanostatic Cycling. <b>2016</b> , 163, A229-A243	11
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1892	Comparison of amorphous, pseudo-hexagonal and orthorhombic Nb <sub>2</sub> O <sub>5</sub> for high-rate lithium ion insertion. <b>2016</b> , 18, 2532-2540	96
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1887	Electrochromic energy storage devices. <b>2016</b> , 19, 394-402	293
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1879	Graphene-based materials for electrochemical energy storage devices: Opportunities and challenges. <b>2016</b> , 2, 107-138	314

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1865	Graphene-based Composites for Electrochemical Energy Storage. <b>2017</b> ,	9
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1862	MOF-Derived Hollow Cage Ni Co O and Their Synergy with Graphene for Outstanding Supercapacitors. <b>2017</b> , 13, 1603102	176
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1831	Facile synthesis of three dimensional flower-like Co <sub>3</sub> O <sub>4</sub> @MnO <sub>2</sub> core-shell microspheres as high-performance electrode materials for supercapacitors. <b>2017</b> , 43, 6054-6062	26
1830	Construction of high electrical conductive nickel phosphide alloys with controllable crystalline phase for advanced energy storage. <b>2017</b> , 232, 387-395	31
1829	Achieving High Pseudocapacitance of 2D Titanium Carbide (MXene) by Cation Intercalation and Surface Modification. <b>2017</b> , 7, 1602725	360
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1825	Recent progresses in high-energy-density all pseudocapacitive-electrode-materials-based asymmetric supercapacitors. <b>2017</b> , 5, 9443-9464	218



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1823	NiO/CoN Porous Nanowires as Efficient Bifunctional Catalysts for Zn-Air Batteries. <b>2017</b> , 11, 2275-2283	355
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1819	2-Methylimidazole-Derived Ni-Co Layered Double Hydroxide Nanosheets as High Rate Capability and High Energy Density Storage Material in Hybrid Supercapacitors. <b>2017</b> , 9, 15510-15524	256
1818	Computational Insights into Materials and Interfaces for Capacitive Energy Storage. <b>2017</b> , 4, 1700059	122
1817	Design and synthesis of H-TiO <sub>2</sub> /MnO <sub>2</sub> core-shell nanotube arrays with high capacitance and cycling stability for supercapacitors. <b>2017</b> , 52, 7744-7753	10
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1815	Methyl-functionalized MoS nanosheets with reduced lattice breathing for enhanced pseudocapacitive sodium storage. <b>2017</b> , 19, 13696-13702	50
1814	Asymmetric Faradaic systems for selective electrochemical separations. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1272-1283	35.4 111
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1805	Controlled synthesis of MnO nanosheets vertically covered FeCoO nanoflakes as a binder-free electrode for a high-power and durable asymmetric supercapacitor. <b>2017</b> , 28, 235401	20
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1802	Pseudocapacitive titanium oxynitride mesoporous nanowires with iso-oriented nanocrystals for ultrahigh-rate sodium ion hybrid capacitors. <b>2017</b> , 5, 10827-10835	73
1801	Freestanding Gold/Graphene-Oxide/Manganese Oxide Microsupercapacitor Displaying High Areal Energy Density. <b>2017</b> , 10, 2736-2741	13
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1792	Mixed-metallic MOF based electrode materials for high performance hybrid supercapacitors. <b>2017</b> , 5, 1094-1102	285
1791	A high-energy, long cycle-life hybrid supercapacitor based on graphene composite electrodes. <b>2017</b> , 7, 32-39	124
1790	Novel Preparation of N-Doped SnO Nanoparticles via Laser-Assisted Pyrolysis: Demonstration of Exceptional Lithium Storage Properties. <b>2017</b> , 29, 1603286	109
1789	Oxygen vacancies enhance pseudocapacitive charge storage properties of MoO. <b>2017</b> , 16, 454-460	1164

1788	Atomically thin Co <sub>3</sub> O <sub>4</sub> nanosheet-coated stainless steel mesh with enhanced capacitive Na <sup>+</sup> storage for high-performance sodium-ion batteries. <b>2017</b> , 4, 015022	36
1787	Laser in-situ synthesis of SnO <sub>2</sub> /N-doped graphene nanocomposite with enhanced lithium storage properties based on both alloying and insertion reactions. <b>2017</b> , 422, 645-653	15
1786	Cyclic voltammetry modeling of proton transport effects on redox charge storage in conductive materials: application to a TiO <sub>2</sub> mesoporous film. <b>2017</b> , 19, 17944-17951	13
1785	Design of V <sub>2</sub> O <sub>5</sub> ·xH <sub>2</sub> O cathode for highly enhancing sodium storage. <b>2017</b> , 722, 278-286	24
1784	NiCo S Materials for Supercapacitor Applications. <b>2017</b> , 12, 1969-1984	90
1783	Hierarchical CuO octahedra inherited from copper metal-organic frameworks: high-rate and high-capacity lithium-ion storage materials stimulated by pseudocapacitance. <b>2017</b> , 5, 12828-12837	61
1782	MnO <sub>x</sub> -decorated carbonized porous silicon nanowire electrodes for high performance supercapacitors. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1505-1516	35.4 84
1781	Improvement in Electrochemical Performance of Spray Deposited V <sub>2</sub> O <sub>5</sub> Thin Film Electrode by Anodization.. <b>2017</b> , 4, 3549-3556	4
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1779	Tuning pseudocapacitive and battery-like lithium intercalation in vanadium dioxide/carbon onion hybrids for asymmetric supercapacitor anodes. <b>2017</b> , 5, 13039-13051	34
1778	A Patterned Graphene/ZnO UV Sensor Driven by Integrated Asymmetric Micro-Supercapacitors on a Liquid Metal Patterned Foldable Paper. <b>2017</b> , 27, 1700135	85
1777	Fully Biodegradable Microsupercapacitor for Power Storage in Transient Electronics. <b>2017</b> , 7, 1700157	145
1776	Hydrogenated Core-Shell MAX@K <sub>2</sub> Ti <sub>8</sub> O <sub>17</sub> Pseudocapacitance with Ultrafast Sodium Storage and Long-Term Cycling. <b>2017</b> , 7, 1700700	39
1775	One-Step Solvothermal Synthesis of 3D Hierarchical Ni <sub>x</sub> Co <sub>9-x</sub> S <sub>8</sub> Structures for High-Performance Supercapacitors. <b>2017</b> , 4, 2250-2259	3
1774	Structure and lithium storage performances of nickel hydroxides synthesized with different nickel salts. <b>2017</b> , 23, 1625-1636	11
1773	Pseudocapacitive Li <sup>+</sup> intercalation in ZnO/ZnO@C composites enables high-rate lithium-ion storage and stable cyclability. <b>2017</b> , 43, 11998-12004	20
1772	Template Synthesis of 2D Carbon Nanosheets: Improving Energy Density of Supercapacitors by Dual Redox Additives Anthraquinone-2-sulfonic Acid Sodium and KI. <b>2017</b> , 5, 5972-5981	25
1771	Tensile force-induced tearing and collapse of ultrathin carbon shells to surface-wrinkled grape skins for high performance supercapacitor electrodes. <b>2017</b> , 5, 14190-14197	17

1770	MnO <sub>2</sub> -Carbon Nanotube Electrodes for Supercapacitors with High Active Mass Loadings. <b>2017</b> , 164, A1673-A1678	67
1769	Unrivaled combination of surface area and pore volume in micelle-templated carbon for supercapacitor energy storage. <b>2017</b> , 5, 13511-13525	51
1768	Designing Pseudocapacitance for NbO/Carbide-Derived Carbon Electrodes and Hybrid Devices. <b>2017</b> , 33, 9407-9415	56
1767	Modelling and optimization of electrodes utilization in symmetric electrochemical capacitors for high energy and power. <b>2017</b> , 12, 261-275	4
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1765	Three-Dimensional Binder-Free Nanoarchitectures for Advanced Pseudocapacitors. <b>2017</b> , 29,	72
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1763	Nano-sized Mo- and Nb-doped TiO as anode materials for high energy and high power hybrid Li-ion capacitors. <b>2017</b> , 28, 195403	25
1762	New class of two-dimensional bimetallic nanoplatelets for high energy density and electrochemically stable hybrid supercapacitors. <b>2017</b> , 10, 3018-3034	12
1761	Phase control of TiO <sub>2</sub> nanobelts by microwave irradiation as anode materials with tunable Li-diffusion kinetics. <b>2017</b> , 96, 365-371	13
1760	Low temperature synthesis of ternary metal phosphides using plasma for asymmetric supercapacitors. <b>2017</b> , 35, 331-340	242
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1593	Self-Assembly of 3D Fennel-Like Co <sub>3</sub> O <sub>4</sub> with Thirty-Six Surfaces for High Performance Supercapacitor. <b>2017</b> , 2017, 1-8	2
1592	Liquid Phase Synthesis of CoP Nanoparticles with High Electrical Conductivity for Advanced Energy Storage. <b>2017</b> , 2017, 1-8	7
1591	Capacitive and Pseudocapacitive Electrodes for Electrochemical Capacitors and Hybrid Devices. <b>2017</b> , 1-24	2

1590	Fundamentals of Binary Metal OxideBased Supercapacitors. <b>2017</b> , 79-98	4
1589	Structure and Basic Properties of Ternary Metal Oxides and Their Prospects for Application in Supercapacitors. <b>2017</b> , 99-132	10
1588	Lanthanide doping induced electrochemical enhancement of NaTiO anodes for sodium-ion batteries. <b>2018</b> , 9, 3421-3425	42
1587	High energy density supercapacitive material based on a ternary hybrid nanocomposite of cobalt hexacyanoferrate/carbon nanofibers/polypyrrole. <b>2018</b> , 268, 411-423	30
1586	Nanostructure selenium compounds as pseudocapacitive electrodes for high-performance asymmetric supercapacitor. <b>2018</b> , 5, 171186	16
1585	Room-temperature vertically-aligned copper oxide nanoblades synthesized by electrochemical restructuring of copper hydroxide nanorods: An electrode for high energy density hybrid device. <b>2018</b> , 383, 124-132	34
1584	Lamellar Oxygen-Enriched Graphene Hydrogel with Linking-up Network Porous Structure for High-Performance Supercapacitors. <b>2018</b> , 122, 6526-6538	13
1583	Diffusion-Controlled Faradaic Charge Storage in High-Performance Solid Electrolyte-Gated Zinc Oxide Thin-Film Transistors. <b>2018</b> , 10, 9782-9791	30
1582	Facile synthesis of pyrite (FeS/C) nanoparticles as an electrode material for non-aqueous hybrid electrochemical capacitors. <b>2018</b> , 10, 5938-5949	38
1581	Flexible Asymmetric Supercapacitor Based on Functionalized Reduced Graphene Oxide Aerogels with Wide Working Potential Window. <b>2018</b> , 10, 7996-8009	39
1580	Facile Synthesis of A 3D Flower-Like Mesoporous Ni@C Composite Material for High-Energy Aqueous Asymmetric Supercapacitors. <b>2018</b> , 13, 1005-1011	2
1579	Interface charges boosted ultrafast lithiation in Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> revealed by in-situ electron holography. <b>2018</b> , 27, 1397-1401	17
1578	Oxygen vacancy derived local build-in electric field in mesoporous hollow Co <sub>3</sub> O <sub>4</sub> microspheres promotes high-performance Li-ion batteries. <b>2018</b> , 6, 6967-6976	173
1577	High-Potential Metalless Nanocarbon Foam Supercapacitors Operating in Aqueous Electrolyte. <b>2018</b> , 14, e1702444	9
1576	Enhanced High-Temperature Cyclic Stability of Al-Doped Manganese Dioxide and Morphology Evolution Study Through in situ NMR under High Magnetic Field. <b>2018</b> , 10, 9398-9406	27
1575	Nano-Sized Structurally Disordered Metal Oxide Composite Aerogels as High-Power Anodes in Hybrid Supercapacitors. <b>2018</b> , 12, 2753-2763	97
1574	Electrochemical properties of TiO <sub>2</sub> -V <sub>2</sub> O <sub>5</sub> nanocomposites as a high performance supercapacitors electrode material. <b>2018</b> , 443, 581-591	45
1573	Pseudocapacitive Energy Storage in Schiff Base Polymer with Salphen-Type Ligands. <b>2018</b> , 122, 5325-5333	19

1572	Thermal Decomposition Synthesis of Graphene Nanosheets Anchored on Mn <sub>3</sub> O <sub>4</sub> Nanoparticles as Anodes in Lithium Ion Batteries. <b>2018</b> , 301, 012108	
1571	High Performance One Dimensional HMoO <sub>3</sub> Nanorods for Supercapacitor Applications. <b>2018</b> , 44, 9967-9975	64
1570	C@MoS <sub>2</sub> @PPy sandwich-like nanotube arrays as an ultrastable and high-rate flexible anode for Li/Na-ion batteries. <b>2018</b> , 14, 118-128	43
1569	A dual Ni/Co-MOF-reduced graphene oxide nanocomposite as a high performance supercapacitor electrode material. <b>2018</b> , 275, 76-86	170
1568	Pseudocapacitive Sodium Storage by Ferroelectric Sn P S with Layered Nanostructure. <b>2018</b> , 14, e1704367	27
1567	Electrochemical energy storage of nanocrystalline vanadium oxide thin films prepared from various plating solutions for supercapacitors. <b>2018</b> , 273, 257-263	6
1566	Homogeneous growth of TiO <sub>2</sub> -based nanotubes on nitrogen-doped reduced graphene oxide and its enhanced performance as a Li-ion battery anode. <b>2018</b> , 29, 255402	15
1565	Copper metal-organic framework-derived CuO <sub>x</sub> -coated three-dimensional reduced graphene oxide and polyaniline composite: Excellent candidate free-standing electrodes for high-performance supercapacitors. <b>2018</b> , 275, 133-144	28
1564	Synthesis of BiFeO <sub>3</sub> nanoparticle anchored TiO <sub>2</sub> -BiFeO <sub>3</sub> nano-heterostructure and exploring its different electrochemical aspects as electrode. <b>2018</b> , 5, 10177-10184	18
1563	Oriented, One-Dimensional Tin Dioxide-Titanium Dioxide Composites as Anode Materials for Lithium-Ion Batteries. <b>2018</b> , 6, 1966-1974	6
1562	A Dendritic Nickel Cobalt Sulfide Nanostructure for Alkaline Battery Electrodes. <b>2018</b> , 28, 1705937	112
1561	Design of Carbon/Metal Oxide Hybrids for Electrochemical Energy Storage. <b>2018</b> , 24, 12143-12153	27
1560	Hybrid Iron Oxide on Three-Dimensional Exfoliated Graphite Electrode with Ultrahigh Capacitance for Energy Storage Applications. <b>2018</b> , 5, 1501-1508	7
1559	Nanoengineering S-Doped TiO <sub>2</sub> Embedded Carbon Nanosheets for Pseudocapacitance-Enhanced Li-Ion Capacitors. <b>2018</b> , 1, 1708-1715	21
1558	One-Dimensional Hetero-Nanostructures for Rechargeable Batteries. <b>2018</b> , 51, 950-959	66
1557	The system of mobile ions in lattice models: Screening effects, thermodynamic and electrophysical properties. <b>2018</b> , 270, 183-190	3
1556	Coral-like Cu-Co-mixed oxide for stable electro-properties of glucose determination. <b>2018</b> , 273, 502-510	25
1555	Charge storage mechanisms of birnessite-type MnO <sub>2</sub> nanosheets in Na <sub>2</sub> SO <sub>4</sub> electrolytes with different pH values: In situ electrochemical X-ray absorption spectroscopy investigation. <b>2018</b> , 273, 17-25	23

1554	Preparation of nanoporous nickelcopper sulfide on carbon cloth for high-performance hybrid supercapacitors. <b>2018</b> , 273, 170-180	34
1553	Anions induced evolution of Co <sub>3</sub> X <sub>4</sub> (X = O, S, Se) as sodium-ion anodes: The influences of electronic structure, morphology, electrochemical property. <b>2018</b> , 48, 617-629	171
1552	Interface-rich core-shell ammonium nickel cobalt phosphate for high-performance aqueous hybrid energy storage device without a depressed power density. <b>2018</b> , 272, 184-191	59
1551	Extraordinary pseudocapacitive energy storage triggered by phase transformation in hierarchical vanadium oxides. <b>2018</b> , 9, 1375	77
1550	Encapsulating ionic liquids into POM-based MOFs to improve their conductivity for superior lithium storage. <b>2018</b> , 6, 8735-8741	59
1549	Intercalated Water and Organic Molecules for Electrode Materials of Rechargeable Batteries. <b>2018</b> , 30, e1705851	50
1548	In situ template synthesis of SnO nanoparticles on nickel foam with high electrochemical performance. <b>2018</b> , 86, 423-430	3
1547	MnO-deposited lignin-based carbon nanofiber mats for application as electrodes in symmetric pseudocapacitors. <b>2018</b> , 112, 943-950	32
1546	Pseudocapacitive layered iron vanadate nanosheets cathode for ultrahigh-rate lithium ion storage. <b>2018</b> , 47, 294-300	70
1545	Ti <sup>3+</sup> Induced Brown TiO <sub>2</sub> Nanotubes for High Performance Sodium-Ion Hybrid Capacitors. <b>2018</b> , 6, 5401-5412	56
1544	Novel inorganic tin phosphate gel: multifunctional material. <b>2018</b> , 54, 2682-2685	6
1543	Materials for supercapacitors: When Li-ion battery power is not enough. <b>2018</b> , 21, 419-436	234
1542	High-rate and ultra-stable Na-ion storage for Ni <sub>3</sub> S <sub>2</sub> nanoarrays via self-adaptive pseudocapacitance. <b>2018</b> , 265, 709-716	63
1541	Emergent Pseudocapacitance of 2D Nanomaterials. <b>2018</b> , 8, 1702930	172
1540	Effect of various electrolytes on the electrochemical properties of Ni(OH) <sub>2</sub> nanostructures. <b>2018</b> , 446, 177-186	14
1539	S-doped carbon@TiO <sub>2</sub> to store Li <sup>+</sup> /Na <sup>+</sup> with high capacity and long life-time. <b>2018</b> , 13, 215-222	41
1538	Chemically Preintercalated Bilayered K <sub>x</sub> V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O Nanobelts as a High-Performing Cathode Material for K-Ion Batteries. <b>2018</b> , 3, 562-567	75
1537	Towards flexible solid-state supercapacitors for smart and wearable electronics. <b>2018</b> , 47, 2065-2129	936



1536	Amphiphilic ligand exchange reaction-induced supercapacitor electrodes with high volumetric and scalable areal capacitances. <b>2018</b> , 440, 730-740	7
1535	Fabrication and characterization of monodispersed Mn <sub>0.8</sub> Ni <sub>0.2</sub> Co <sub>2</sub> O <sub>4</sub> mesoporous microspheres for supercapacitor application. <b>2018</b> , 44, 8864-8869	7
1534	Layer - Structured partially reduced graphene oxide sheathed mesoporous MoS particles for energy storage applications. <b>2018</b> , 518, 234-241	17
1533	Network structure of SnO hollow sphere/PANI nanocomposites for electrochemical performance. <b>2018</b> , 47, 2368-2375	17
1532	Beyond Insertion for Na-Ion Batteries: Nanostructured Alloying and Conversion Anode Materials. <b>2018</b> , 8, 1702582	173
1531	Flower-like Ni <sub>2</sub> O hydroxides on Ni foam for high-performance supercapacitor applications. <b>2018</b> , 42, 4175-4181	9
1530	Micro- and Nanocrystalline Inverse Spinel LiCoVO <sub>4</sub> for Intercalation Pseudocapacitive Li <sup>+</sup> Storage with Ultrahigh Energy Density and Long-Term Cycling. <b>2018</b> , 1, 393-401	4
1529	Synthesis of hierarchical porous carbon from metal carbonates towards high-performance lithium storage. <b>2018</b> , 20, 1484-1490	28
1528	Oxygen-deficient anatase TiO <sub>2</sub> @C nanospindles with pseudocapacitive contribution for enhancing lithium storage. <b>2018</b> , 6, 4013-4022	161
1527	Achieving rapid Li-ion insertion kinetics in TiO mesoporous nanotube arrays for bifunctional high-rate energy storage smart windows. <b>2018</b> , 10, 3254-3261	33
1526	Battery-like Supercapacitors from Vertically Aligned Carbon Nanofiber Coated Diamond: Design and Demonstrator. <b>2018</b> , 8, 1702947	59
1525	Pseudocapacitive charge storage induced by self-enhanced electrical conductivity and Li-ion diffusion in high performance Li <sub>3</sub> VO <sub>4</sub> @LiVO <sub>2</sub> anode for Li-ion batteries. <b>2018</b> , 741, 442-448	10
1524	Enhanced cycling stability of hierarchical NiCo <sub>2</sub> S <sub>4</sub> @Ni(OH) <sub>2</sub> @PPy core-shell nanotube arrays for aqueous asymmetric supercapacitors. <b>2018</b> , 6, 2482-2493	251
1523	Electrochemical, top-down nanostructured pseudocapacitive electrodes for enhanced specific capacitance and cycling efficiency. <b>2018</b> , 10, 3663-3672	7
1522	Metal-Organic Frameworks Mediated Synthesis of One-Dimensional Molybdenum-Based/Carbon Composites for Enhanced Lithium Storage. <b>2018</b> , 12, 1990-2000	166
1521	Nanocomposites based on hierarchical porous carbon fiber@vanadium nitride nanoparticles as supercapacitor electrodes. <b>2018</b> , 47, 4128-4138	40
1520	Nitrogen/sulfur co-doped graphene networks uniformly coupled N-Fe <sub>2</sub> O <sub>3</sub> nanoparticles achieving enhanced supercapacitor performance. <b>2018</b> , 266, 242-253	42
1519	Tailoring synthesis of Ni <sub>3</sub> S <sub>2</sub> nanosheets with high electrochemical performance by electrodeposition. <b>2018</b> , 29, 1092-1098	7

1518	Fabrication of polyanilinefew-layer MoS2 nanocomposite for high energy density supercapacitors. <b>2018</b> , 75, 4359-4375	30
1517	Toast-like porous carbon derived from one-step reduction of CaCO3 for electrochemical lithium storage. <b>2018</b> , 130, 559-565	20
1516	Approaching the lithium-manganese oxides' energy storage limit with Li2MnO3 nanorods for high-performance supercapacitor. <b>2018</b> , 43, 168-176	103
1515	Synthesis of Pseudocapacitive Polymer Chain Anode and Subnanoscale Metal Oxide Cathode for Aqueous Hybrid Capacitors Enabling High Energy and Power Densities along with Long Cycle Life. <b>2018</b> , 8, 1702895	24
1514	Antimicrobial, electrochemical and photo catalytic activities of Zn doped Fe3O4 nanoparticles. <b>2018</b> , 29, 6040-6050	15
1513	Spinel Nickel Cobaltite Mesostructures Assembled from Ultrathin Nanosheets for High-Performance Electrochemical Energy Storage. <b>2018</b> , 1, 684-691	11
1512	FeOOH and amorphous NiMn hydroxide on carbon nanofoam paper electrodes for hybrid supercapacitors. <b>2018</b> , 6, 2612-2624	47
1511	Proton Ion Exchange Reaction in Li3IrO4: A Way to New H3+xIrO4 Phases Electrochemically Active in Both Aqueous and Nonaqueous Electrolytes. <b>2018</b> , 8, 1702855	24
1510	All Pseudocapacitive MXene-RuO2 Asymmetric Supercapacitors. <b>2018</b> , 8, 1703043	459
1509	Phosphorized SnO2/graphene heterostructures for highly reversible lithium-ion storage with enhanced pseudocapacitance. <b>2018</b> , 6, 3479-3487	96
1508	Synthesis of periodically stacked 2D composite of Ni(OH)2 monolayer and reduced graphene oxide as electrode material for high performance supercapacitor. <b>2018</b> , 29, 631-638	9
1507	High energy density symmetric capacitor using zinc cobaltate flowers grown in situ on Ni foam. <b>2018</b> , 261, 265-274	25
1506	One pot synthesis of nitrogen-doped hierarchical porous carbon derived from phenolic formaldehyde resin with sodium citrate as activation agent for supercapacitors. <b>2018</b> , 29, 4639-4648	12
1505	Nitrogen-doped carbon spider webs derived from pyrolysis of polyaniline nanofibers in ammonia for capacitive energy storage. <b>2018</b> , 33, 1109-1119	10
1504	Layer structured bismuth selenides BiSe and BiSe for high energy and flexible all-solid-state micro-supercapacitors. <b>2018</b> , 29, 085401	8
1503	Combining battery-like and pseudocapacitive charge storage in 3D MnOx@carbon electrode architectures for zinc-ion cells. <b>2018</b> , 2, 626-636	57
1502	Incorporating Manganese Dioxide in Carbon NanotubeChitosan as a Pseudocapacitive Composite Electrode for High-Performance Desalination. <b>2018</b> , 6, 3196-3205	30
1501	Electrochemical impedance spectroscopic studies on aging-dependent electrochemical degradation of p-toluene sulfonic acid-doped polypyrrole thin film. <b>2018</b> , 24, 2335-2342	8

1500	Reticular VO <sub>2</sub> ·6H <sub>2</sub> O Xerogel as Cathode for Rechargeable Potassium Ion Batteries. <b>2018</b> , 10, 642-650	52
1499	The synthesis of hierarchical ZnCo <sub>2</sub> O <sub>4</sub> @MnO <sub>2</sub> core-shell nanosheet arrays on Ni foam for high-performance all-solid-state asymmetric supercapacitors. <b>2018</b> , 5, 597-604	43
1498	Solvent-Controlled Charge Storage Mechanisms of Spinel Oxide Electrodes in Mg Organohalosaluminate Electrolytes. <b>2018</b> , 18, 763-772	13
1497	Amorphous Ni-C nanoparticles with high electric conductivity and high specific capacitance for rechargeable charge storage. <b>2018</b> , 205, 494-501	7
1496	Electrodeposition of hydrated vanadium pentoxide on nanoporous carbon cloth for hybrid energy storage. <b>2018</b> , 2, 577-588	23
1495	Facile synthesis of cost-effective Ni <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> ·6H <sub>2</sub> O microstructures as a supercapattery electrode material. <b>2018</b> , 7, 129-135	30
1494	Nickel-foam-supported ruthenium oxide/graphene sandwich composite constructed via one-step electrodeposition route for high-performance aqueous supercapacitors. <b>2018</b> , 439, 612-622	19
1493	Covalent organic framework-derived microporous carbon nanoparticles coated with conducting polypyrrole as an electrochemical capacitor. <b>2018</b> , 439, 833-838	37
1492	Design and fabrication of modular supercapacitors using 3D printing. <b>2018</b> , 16, 1-7	34
1491	Ruddlesden-Popper type La <sub>2</sub> NiO <sub>4</sub> +x oxide as a pseudocapacitor electrode. <b>2018</b> , 217, 23-26	8
1490	Ultrahigh Rate and Long-Life Sodium-Ion Batteries Enabled by Engineered Surface and Near-Surface Reactions. <b>2018</b> , 30, 1702486	130
1489	ZnO/carbon hybrids derived from polymer nanocomposite precursor materials for pseudocapacitor electrodes with high cycling stability. <b>2018</b> , 137, 370-377	19
1488	Engineering capacitive contribution in nitrogen-doped carbon nanofiber films enabling high performance sodium storage. <b>2018</b> , 130, 145-152	48
1487	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
1486	Ternary nickel cobalt iron sulfides ultrathin nanosheets grown on 3-D nickel nanocone arrays-nickel plate current collector as a binder free electrode for fabrication of highly performance supercapacitors. <b>2018</b> , 810, 78-85	52
1485	A general fabrication approach on spinel MCo <sub>2</sub> O <sub>4</sub> (M = Co, Mn, Fe, Mg and Zn) submicron prisms as advanced positive materials for supercapacitor. <b>2018</b> , 262, 241-251	37
1484	Electrochemical investigation of magnetite-carbon nanocomposite in situ grown on nickel foam as a high-performance binderless pseudocapacitor. <b>2018</b> , 22, 2597-2604	8
1483	Hierarchical CuO nanorod arrays in situ generated on three-dimensional copper foam via cyclic voltammetry oxidation for high-performance supercapacitors. <b>2018</b> , 6, 10474-10483	117

1482	Rose-like Ni <sub>3</sub> S <sub>4</sub> as battery-type electrode for hybrid supercapacitor with excellent charge storage performance. <b>2018</b> , 350, 523-533	141
1481	Facile synthesis of Cu <sub>1.96</sub> S nanoparticles for enhanced energy density in flexible all-solid-state asymmetric supercapacitors. <b>2018</b> , 29, 11187-11198	9
1480	Hierarchical MoS <sub>2</sub> -Coated V <sub>2</sub> O <sub>3</sub> composite nanosheet tubes as both the cathode and anode materials for pseudocapacitors. <b>2018</b> , 277, 218-225	15
1479	Nanostructured LiMn <sub>2</sub> O <sub>4</sub> composite as high-rate cathode for high performance aqueous Li-ion hybrid supercapacitors. <b>2018</b> , 392, 116-122	38
1478	Accordion-like nanoporous carbon derived from Al-MOF as advanced anode material for sodium ion batteries. <b>2018</b> , 270, 67-74	14
1477	Fast and stable lithium-ion storage kinetics of anatase titanium dioxide/carbon onion hybrid electrodes. <b>2018</b> , 6, 9480-9488	33
1476	Self-Generated Nanoporous Silver Framework for High-Performance Iron Oxide Pseudocapacitor Anodes. <b>2018</b> , 10, 17223-17231	15
1475	Sprinkling MnFe <sub>2</sub> O <sub>4</sub> quantum dots on nitrogen-doped graphene sheets: the formation mechanism and application for high-performance supercapacitor electrodes. <b>2018</b> , 6, 9997-10007	49
1474	Deconvolving double-layer, pseudocapacitance, and battery-like charge-storage mechanisms in nanoscale LiMn <sub>2</sub> O <sub>4</sub> at 3D carbon architectures. <b>2018</b> , 275, 225-235	38
1473	Carbon Nanocomposites in Electrochemical Capacitor Applications. <b>2018</b> , 33-65	
1472	One-step co-electrodeposition of hierarchical radial Ni <sub>3</sub> P nanospheres on Ni foam as highly active flexible electrodes for hydrogen evolution reaction and supercapacitor. <b>2018</b> , 348, 310-318	84
1471	High performance MnO@C microcages with a hierarchical structure and tunable carbon shell for efficient and durable lithium storage. <b>2018</b> , 6, 9723-9736	176
1470	Mg <sup>2+</sup> -assisted hydrothermal growth of vertically-aligned Ni <sub>3</sub> S <sub>2</sub> nanorod bundles on nickel foam for application as binder-free supercapacitor electrodes. <b>2018</b> , 29, 9588-9595	2
1469	Preparation of flexible and free-standing graphene-based current collector via a new and facile self-assembly approach: Leading to a high performance porous graphene/polyaniline supercapacitor. <b>2018</b> , 152, 178-189	11
1468	Surface Functional Groups and Interlayer Water Determine the Electrochemical Capacitance of TiC T MXene. <b>2018</b> , 12, 3578-3586	259
1467	Nanoporous carbons derived from poplar catkins for high performance supercapacitors with a redox active electrolyte of p-phenylenediamine. <b>2018</b> , 748, 473-480	11
1466	High Mass Loading MnO with Hierarchical Nanostructures for Supercapacitors. <b>2018</b> , 12, 3557-3567	305
1465	Transition metal oxides for aqueous sodium-ion electrochemical energy storage. <b>2018</b> , 5, 999-1015	34

1464	Effect of electrolyte cation on the charge storage mechanism of manganese dioxide for electrochemical capacitors. <b>2018</b> , 271, 337-350	33
1463	Tuning Pseudocapacitance via C-S Bonding in WS Nanorods Anchored on N,S Codoped Graphene for High-Power Lithium Batteries. <b>2018</b> , 10, 13606-13613	49
1462	Immobilization of tungsten disulfide nanosheets on active carbon fibers as electrode materials for high performance quasi-solid-state asymmetric supercapacitors. <b>2018</b> , 6, 7835-7841	27
1461	Suitability of representative electrochemical energy storage technologies for ramp-rate control of photovoltaic power. <b>2018</b> , 384, 396-407	15
1460	A single-walled carbon nanotubes/poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate)/copper hexacyanoferrate hybrid film for high-volumetric performance flexible supercapacitors. <b>2018</b> , 386, 96-105	26
1459	Superelastic 3D few-layer MoS <sub>2</sub> /carbon framework heterogeneous electrodes for highly reversible sodium-ion batteries. <b>2018</b> , 48, 526-535	78
1458	MXene-Based Electrode with Enhanced Pseudocapacitance and Volumetric Capacity for Power-Type and Ultra-Long Life Lithium Storage. <b>2018</b> , 12, 3928-3937	120
1457	Anion De/Intercalation in Nickel Hydroxychloride Microspheres: A Mechanistic Study of Structural Impact on Energy Storage Performance of Multianion-Containing Layered Materials. <b>2018</b> , 1, 1522-1533	10
1456	Enhanced pseudocapacitance contribution to outstanding Li-storage performance for a reduced graphene oxide-wrapped FeS composite anode. <b>2018</b> , 6, 7155-7161	33
1455	Insert Zn Nanoparticles into the 3D Porous Carbon Ultrathin Films as a Superior Anode Material for Lithium Ion Battery. <b>2018</b> , 35, 1700355	10
1454	Three-dimensional poly(aniline- co -pyrrole)/thermally reduced graphene oxide composite as a binder-free electrode for high-performance supercapacitors. <b>2018</b> , 145, 232-239	25
1453	Epitaxial growth of NiCo <sub>2</sub> S <sub>4</sub> /Co <sub>9</sub> S <sub>8</sub> @Graphene heterogenous nanocomposites with high-rate lithium storage performance. <b>2018</b> , 747, 926-933	8
1452	Novel layered iron vanadate cathode for high-capacity aqueous rechargeable zinc batteries. <b>2018</b> , 54, 4041-4044	127
1451	Graphitic carbon foams as anodes for sodium-ion batteries in glyme-based electrolytes. <b>2018</b> , 270, 236-244	15
1450	Helical carbon tubes derived from epitaxial Cu-MOF coating on textile for enhanced supercapacitor performance. <b>2018</b> , 47, 5558-5563	20
1449	Pseudocapacitance contribution in boron-doped graphite sheets for anion storage enables high-performance sodium-ion capacitors. <b>2018</b> , 5, 529-535	96
1448	High capacity Mg batteries based on surface-controlled electrochemical reactions. <b>2018</b> , 48, 227-237	27
1447	High-performance hybrid supercapacitor of mixed-valence manganese oxide/N-doped graphene aerogel nanoflower using an ionic liquid with a redox additive as the electrolyte: In situ electrochemical X-ray absorption spectroscopy. <b>2018</b> , 271, 110-119	32

1446	Tanghulu-like NiO microcubes on Co <sub>3</sub> O <sub>4</sub> nanowires arrays anchored on Ni foam with improved electrochemical performances for supercapacitors. <b>2018</b> , 748, 496-503	24
1445	Encapsulating SnS <sub>2</sub> nanosheets into hollow carbon sphere: A yolk-shell SnS <sub>2</sub> @C composite with enhanced sodium storage performance. <b>2018</b> , 270, 1-8	30
1444	Incorporation of iron oxide into CNT/GNF as a high-performance supercapacitor electrode. <b>2018</b> , 212, 318-324	9
1443	Metal-organic framework-derived hollow CoS nanobox for high performance electrochemical energy storage. <b>2018</b> , 341, 618-627	74
1442	Porous CrN thin films by selectively etching CrCuN for symmetric supercapacitors. <b>2018</b> , 385, 39-44	34
1441	Tailoring the oxygenated groups of graphene hydrogels for high-performance supercapacitors with large areal mass loadings. <b>2018</b> , 6, 6587-6594	39
1440	Self-supported one-dimensional materials for enhanced electrochromism. <b>2018</b> , 3, 261-292	40
1439	Electrode Materials, Electrolytes, and Challenges in Nonaqueous Lithium-Ion Capacitors. <b>2018</b> , 30, e1705670	236
1438	Wide potential window and high specific capacitance triggered via rough NiCo <sub>2</sub> S <sub>4</sub> nanorod arrays with open top for symmetric supercapacitors. <b>2018</b> , 269, 397-404	59
1437	High Interfacial Charge Storage Capability of Carbonaceous Cathodes for Mg Batteries. <b>2018</b> , 12, 2998-3009	16
1436	Carbon dioxide in the cage: manganese metal-organic frameworks for high performance CO <sub>2</sub> electrodes in Li-CO <sub>2</sub> batteries. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1318-1325	35-4 121
1435	Core/shell structure NiCo <sub>2</sub> O <sub>4</sub> @MnCo <sub>2</sub> O <sub>4</sub> nanofibers fabricated by different temperatures for high-performance supercapacitors. <b>2018</b> , 5, 035503	6
1434	Significantly enhanced energy density of magnetite/polypyrrole nanocomposite capacitors at high rates by low magnetic fields. <b>2018</b> , 1, 127-134	59
1433	CoFe <sub>2</sub> O <sub>4</sub> nanoparticles as efficient bifunctional catalysts applied in Zn-air battery. <b>2018</b> , 33, 590-600	12
1432	Graphene fiber based supercapacitors: Strategies and perspective toward high performances. <b>2018</b> , 27, 6-11	28
1431	Binder-Free Hybrid Titanium-Niobium Oxide/Carbon Nanofiber Mats for Lithium-Ion Battery Electrodes. <b>2018</b> , 11, 159-170	27
1430	Optimized core-shell polypyrrole-coated NiCo <sub>2</sub> O <sub>4</sub> nanowires as binder-free electrode for high-energy and durable aqueous asymmetric supercapacitor. <b>2018</b> , 53, 2658-2668	28
1429	A flexible and high voltage symmetric supercapacitor based on hybrid configuration of cobalt hexacyanoferrate/reduced graphene oxide hydrogels. <b>2018</b> , 335, 321-329	43

1428	New insights into evaluating catalyst activity and stability for oxygen evolution reactions in alkaline media. <b>2018</b> , 2, 237-251	107
1427	Pseudocapacitive Li <sup>+</sup> intercalation in porous Ti <sub>2</sub> Nb <sub>10</sub> O <sub>29</sub> nanospheres enables ultra-fast lithium storage. <b>2018</b> , 11, 57-66	119
1426	Activated pyrene decorated graphene with enhanced performance for electrochemical energy storage. <b>2018</b> , 334, 845-854	32
1425	Metal (M = Co, Ni) phosphate based materials for high-performance supercapacitors. <b>2018</b> , 5, 11-28	110
1424	High-performance cobalt carbonate hydroxide nano-dot/NiCo(CO <sub>3</sub> )(OH) <sub>2</sub> electrode for asymmetric supercapacitors. <b>2018</b> , 433, 16-26	63
1423	Simple and novel strategy to fabricate ultra-thin, lightweight, stackable solid-state supercapacitors based on MnO <sub>2</sub> -incorporated CNT-web paper. <b>2018</b> , 142, 608-616	28
1422	Reduced graphene oxide/MnO nanohybrid for high-rate pseudocapacitive electrodes. <b>2018</b> , 511, 434-439	16
1421	Perovskite LaNiO <sub>3</sub> -oxide as an anion-intercalated pseudocapacitor electrode. <b>2018</b> , 731, 381-388	66
1420	Colloidal Supercapattery: Redox Ions in Electrode and Electrolyte. <b>2018</b> , 18, 282-292	32
1419	Synthesis of In <sub>2</sub> O <sub>3</sub> nanostructures with different morphologies as potential supercapacitor electrode materials. <b>2018</b> , 427, 956-964	27
1418	Understanding electrochemical performance of Ni(OH) <sub>2</sub> films: a study contributions to energy storage. <b>2018</b> , 22, 1621-1628	4
1417	Hydrothermally formed three-dimensional hexagon-like P doped Ni(OH) <sub>2</sub> rod arrays for high performance all-solid-state asymmetric supercapacitors. <b>2018</b> , 428, 250-257	29
1416	Polymerized fuchsin and modified carbon nanotube electrodes for electrochemical capacitors. <b>2018</b> , 15, 173-179	12
1415	High and Reversible Lithium Ion Storage in Self-Exfoliated Triazole-Triformyl Phloroglucinol-Based Covalent Organic Nanosheets. <b>2018</b> , 8, 1702170	107
1414	Hierarchical hollow MnO nanofibers with enhanced supercapacitor performance. <b>2018</b> , 513, 448-454	73
1413	In-Plane Assembled Orthorhombic Nb <sub>2</sub> O <sub>5</sub> Nanorod Films with High-Rate Li <sup>+</sup> Intercalation for High-Performance Flexible Li-Ion Capacitors. <b>2018</b> , 28, 1704330	171
1412	Hierarchical FeCo <sub>2</sub> O <sub>4</sub> @NiCo layered double hydroxide core/shell nanowires for high performance flexible all-solid-state asymmetric supercapacitors. <b>2018</b> , 334, 1573-1583	265
1411	Fabrication of porous ZnCo <sub>2</sub> O <sub>4</sub> nanoribbon arrays on nickel foam for high-performance supercapacitors and lithium-ion batteries. <b>2018</b> , 260, 823-829	42

1410	Titanium Disulfide Coated Carbon Nanotube Hybrid Electrodes Enable High Energy Density Symmetric Pseudocapacitors. <b>2018</b> , 30, 1704754	76
1409	Hierarchical TiO imbedded with graphene quantum dots for high-performance lithium storage. <b>2018</b> , 54, 1413-1416	49
1408	Engineering rGO-CNT wrapped Co <sub>3</sub> S <sub>4</sub> nanocomposites for high-performance asymmetric supercapacitors. <b>2018</b> , 334, 66-80	133
1407	Multi-growth site graphene/polyaniline composites with highly enhanced specific capacitance and rate capability for supercapacitor application. <b>2018</b> , 260, 504-513	47
1406	Rapid redox kinetics in uniform sandwich-structured mesoporous Nb <sub>2</sub> O <sub>5</sub> /graphene/mesoporous Nb <sub>2</sub> O <sub>5</sub> nanosheets for high-performance sodium-ion supercapacitors. <b>2018</b> , 13, 223-232	87
1405	Facile Synthesis of Ag-Decorated Ni <sub>3</sub> S <sub>2</sub> Nanosheets with 3D Bush Structure Grown on rGO and Its Application as Positive Electrode Material in Asymmetric Supercapacitor. <b>2018</b> , 5, 1700985	79
1404	Holey 2D Nanomaterials for Electrochemical Energy Storage. <b>2018</b> , 8, 1702179	211
1403	Vanadium dioxide-anchored porous carbon nanofibers as a Na <sup>+</sup> intercalation pseudocapacitance material for development of flexible and super light electrochemical energy storage systems. <b>2018</b> , 10, 72-85	63
1402	Facile synthesis of porous tubular NiO with considerable pseudocapacitance as high capacity and long life anode for lithium-ion batteries. <b>2018</b> , 44, 2568-2577	50
1401	Synthesis of Cu <sub>2</sub> O by oxidation-assisted dealloying method for flexible all-solid-state asymmetric supercapacitors. <b>2018</b> , 29, 2080-2090	17
1400	Oriented Multiwalled Organic Co(OH) <sub>2</sub> Nanotubes for Energy Storage. <b>2018</b> , 28, 1702320	23
1399	Binary NiCu layered double hydroxide nanosheets for enhanced energy storage performance as supercapacitor electrode. <b>2018</b> , 61, 296-302	20
1398	Flexible metallic fabric supercapacitor based on graphene/polyaniline composites. <b>2018</b> , 259, 968-974	75
1397	Biphase Cobalt Manganese Oxide with High Capacity and Rate Performance for Aqueous Sodium-Ion Electrochemical Energy Storage. <b>2018</b> , 28, 1703266	20
1396	Three-dimensional interconnected MnCo <sub>2</sub> O <sub>4</sub> nanosheets@MnMoO <sub>4</sub> nanosheets core-shell nanoarrays on Ni foam for high-performance supercapacitors. <b>2018</b> , 336, 64-73	57
1395	Advanced Energy Storage Devices: Basic Principles, Analytical Methods, and Rational Materials Design. <b>2018</b> , 5, 1700322	630
1394	Facile synthesis of hollow Ni <sub>0.2</sub> Mn <sub>0.8</sub> O <sub>1.5</sub> twin microspheres for electrochemical energy storage. <b>2018</b> , 48, 15-26	3
1393	Effect of crystallite size on the intercalation pseudocapacitance of lithium nickel vanadate in aqueous electrolyte. <b>2018</b> , 22, 1-9	23



1392	Embedding ZnSe nanodots in nitrogen-doped hollow carbon architectures for superior lithium storage. <b>2018</b> , 11, 966-978	89
1391	The effect of NaCl concentration on the ionic NaCl solutions electrical impedance value using electrochemical impedance spectroscopy methods. <b>2018</b> ,	11
1390	Tracking the interfacial charge transfer behavior of hydrothermally synthesized ZnO nanostructures via complementary electrogravimetric methods. <b>2018</b> , 20, 27140-27148	7
1389	A rechargeable metal-free full-liquid sulfur/bromine battery for sustainable energy storage. <b>2018</b> , 6, 20737-20745	5
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1387	Tunable pseudocapacitive contribution in nanosheet-constructed titania hierarchical tubes to achieve superior lithium-storage properties by phase control. <b>2018</b> , 6, 24298-24310	19
1386	Porous NiCoP in situ grown on Ni foam using molten-salt electrodeposition for asymmetric supercapacitors. <b>2018</b> , 6, 23746-23756	55
1385	A Procedure for Evaluating the Capacity Associated with Battery-Type Electrode and Supercapacitor-Type One in Composite Electrodes. <b>2018</b> , 165, A4034-A4040	28
1384	Probing enhanced lithium-ion transport kinetics in 2D holey nanoarchitected electrodes. <b>2018</b> , 2, 035008	12
1383	The centrifugally constructed and thermally activated three-dimensional graphene toward a binder-free highly performed anode of the lithium-ion battery. <b>2018</b> , 20, 1	
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1381	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO Nanoflakes for High-Performance Rechargeable Magnesium Batteries. <b>2018</b> , 12, 12492-12502	85
1380	Incorporating Oxygen CoP Nanosheets: Facile Synthesis and Application for Supercapacitor Electrodes. <b>2018</b> , 10904-10910	3
1379	A Conductive and Highly Deformable All-Pseudocapacitive Composite Paper as Supercapacitor Electrode with Improved Areal and Volumetric Capacitance. <b>2018</b> , 14, e1803786	104
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1377	A Porous and Conductive Graphite Nanonetwork Forming on the Surface of KCuS for Energy Storage. <b>2018</b> , 6, 555	5
1376	Research Advances of Amorphous Metal Oxides in Electrochemical Energy Storage and Conversion. <b>2019</b> , 15, e1804371	52
1375	A Comprehensive Review of Nanomaterials Developed Using Electrophoresis Process for High-Efficiency Energy Conversion and Storage Systems. <b>2018</b> , 11, 3122	11

1374	Controlled-Size Hollow Magnesium Sulfide Nanocrystals Anchored on Graphene for Advanced Lithium Storage. <b>2018</b> , 12, 12741-12750	21
1373	Lithium Permeability Increase in Nanosized Amorphous Silicon Layers. <b>2018</b> , 122, 28528-28536	8
1372	Fast and Scalable Hydrodynamic Synthesis of MnO/Defect-Free Graphene Nanocomposites with High Rate Capability and Long Cycle Life. <b>2018</b> , 10, 35250-35259	25
1371	Polyaniline Enhanced Supercapacitance of Cobalt Hydroxide Nanowires/Carbon Nanotube Containing Polymer Sponge Layered Composite. <b>2018</b> , 778, 175-180	
1370	Rose-derived 3D carbon nanosheets for high cyclability and extended voltage supercapacitors. <b>2018</b> , 291, 287-296	62
1369	Influence of calcination temperature on the structural, morphological, optical, magnetic and electrochemical properties of Cu <sub>2</sub> P <sub>2</sub> O <sub>7</sub> nanocrystals. <b>2018</b> , 88, 407-421	12
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1367	Prospective Synthesis Approaches to Emerging Materials for Supercapacitor. <b>2018</b> , 185-208	2
1366	Simple Parallel-Plate Capacitors to High Energy Density Future Supercapacitors: A Materials Review. <b>2018</b> , 247-301	1
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1364	Physical Interpretations of Electrochemical Impedance Spectroscopy of Redox Active Electrodes for Electrical Energy Storage. <b>2018</b> , 122, 24499-24511	57
1363	Design and Preparation of Biomass-Derived Carbon Materials for Supercapacitors: A Review. <b>2018</b> , 4, 53	35
1362	Two-step oxygen reduction on spinel NiFe <sub>2</sub> O <sub>4</sub> catalyst: Rechargeable, aqueous solution- and gel-based, Zn-air batteries. <b>2018</b> , 292, 268-275	51
1361	Preparation of ZnFeO/FeO Nanocomposites From Sulfuric Acid Leaching Liquor of Jarosite Residue and Their Application in Lithium-Ion Batteries. <b>2018</b> , 6, 442	19
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1359	Quasi-parallel arrays with a 2D-on-2D structure for electrochemical supercapacitors. <b>2018</b> , 6, 24717-24727	37
1358	TiO <sub>2</sub> nanopowder as a high rate, long cycle life electrode in aqueous aluminium electrolyte. <b>2018</b> , 10, 208-213	11
1357	Electrochemical study of the Li-ion storage process in MWCNT@TiO <sub>2</sub> @BiO <sub>2</sub> composites. <b>2018</b> , 29, 19889-19900	3

1356	Capacitive Organic Anode Based on Fluorinated-Contorted Hexabenzocoronene: Applicable to Lithium-Ion and Sodium-Ion Storage Cells. <b>2018</b> , 5, 1801365	19
1355	Fast Na-Ion Intercalation in Zinc Vanadate for High-Performance Na-Ion Hybrid Capacitor. <b>2018</b> , 8, 1802800	52
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1353	Flexible Solid-State Asymmetric Supercapacitors Based on Nitrogen-Doped Graphene Encapsulated Ternary Metal-Nitrides with Ultralong Cycle Life. <b>2018</b> , 28, 1804663	148
1352	High-power sodium titanate anodes; a comparison of lithium vs sodium-ion batteries. <b>2018</b> , 408, 28-37	16
1351	Nanocasting and Direct Synthesis Strategies for Mesoporous Carbons as Supercapacitor Electrodes. <b>2018</b> , 30, 7391-7412	65
1350	In Situ Tracking of Partial Sodium Desolvation of Materials with Capacitive, Pseudocapacitive, and Battery-like Charge/Discharge Behavior in Aqueous Electrolytes. <b>2018</b> , 34, 13132-13143	15
1349	Co <sub>3</sub> O <sub>4</sub> /carbon nano-onions composite as supercapacitor electrode and its excellent electrochemical performance. <b>2018</b> , 109, 873-879	3
1348	Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> /C Nanofibers for High-Rate and Ultralong-Life Anodes in Sodium-Ion Batteries. <b>2018</b> , 5, 3498-3505	18
1347	Hierarchical nanostructure-tuned super-high electrochemical stability of nickel cobalt sulfide. <b>2018</b> , 6, 19788-19797	13
1346	Flexible solid-state supercapacitor based on tin oxide/reduced graphene oxide/bacterial nanocellulose.. <b>2018</b> , 8, 31296-31302	48
1345	Application of the Mott-Schottky model to select potentials for EIS studies on electrodes for electrochemical charge storage. <b>2018</b> , 289, 47-55	21
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1343	Puzzles and confusions in supercapacitor and battery: Theory and solutions. <b>2018</b> , 401, 213-223	133
1342	A novel 3D conductive network-based polyaniline/graphitic mesoporous carbon composite electrode with excellent electrochemical performance. <b>2018</b> , 401, 278-286	30
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1340	Zooming in the Detailed Electrochemical Process of Disodium Rhodizonate. <b>2018</b> , 122, 21185-21191	10
1339	Storing electricity as chemical energy: beyond traditional electrochemistry and double-layer compression. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3069-3074	35.4 24

1338	3D self-assembled VS microspheres with high pseudocapacitance as highly efficient anodes for Na-ion batteries. <b>2018</b> , 10, 21671-21680	34
1337	Construction of NiCo <sub>2</sub> O <sub>4</sub> @graphene nanorods by tuning the compositional chemistry of metal-organic frameworks with enhanced lithium storage properties. <b>2018</b> , 6, 19604-19610	24
1336	Design and Mechanisms of Asymmetric Supercapacitors. <b>2018</b> , 118, 9233-9280	1396
1335	Adjusting the yolk-shell structure of carbon spheres to boost the capacitive K <sup>+</sup> storage ability. <b>2018</b> , 6, 23318-23325	54
1334	Hierarchical Nanosheet-Built CoNiS Nanotubes Coupled with Carbon-Encapsulated Carbon Nanotubes@FeO Composites toward High-Performance Aqueous Hybrid Supercapacitor Devices. <b>2018</b> , 10, 34254-34264	32
1333	Construction of 3D architectures with Ni(HCO) nanocubes wrapped by reduced graphene oxide for LIBs: ultrahigh capacity, ultrafast rate capability and ultralong cycle stability. <b>2018</b> , 9, 8682-8691	26
1332	Hollow mesoporous carbon spheres enwrapped by small-sized and ultrathin nickel hydroxide nanosheets for high-performance hybrid supercapacitors. <b>2018</b> , 402, 43-52	32
1331	Hetero-structure arrays of NiCoO <sub>2</sub> nanoflakes@nanowires on 3D graphene/nickel foam for high-performance supercapacitors. <b>2018</b> , 289, 193-203	33
1330	Probing the Electrochemical Reaction Mechanism and Crystallinity Effect of RuO <sub>2</sub> for Sodium Storage. <b>2018</b> , 165, A2897-A2903	5
1329	Bioinspired Architectures and Heteroatom Doping To Construct Metal-Oxide-Based Anode for High-Performance Lithium-Ion Batteries. <b>2018</b> , 24, 16902-16909	19
1328	Electrochemical Capacitor Performance: Influence of Aqueous Electrolytes. <b>2018</b> ,	16
1327	Hierarchical T-Nb <sub>2</sub> O <sub>5</sub> nanostructure with hybrid mechanisms of intercalation and pseudocapacitance for potassium storage and high-performance potassium dual-ion batteries. <b>2018</b> , 6, 17889-17895	93
1326	Nitrogen-Enriched Carbon Nanofibers Derived from Polyaniline and Their Capacitive Properties. <b>2018</b> , 8, 1079	6
1325	Quantum-Dot-Mediated Controlled Synthesis of Dual Oxides of Molybdenum from MoS <sub>2</sub> : Quantification of Supercapacitor Efficacy. <b>2018</b> , 13, 3871-3884	11
1324	Biomass-derived nitrogen and oxygen co-doped hierarchical porous carbon for high performance symmetric supercapacitor. <b>2018</b> , 268, 149-158	30
1323	Shift to Post-Li-Ion Capacitors: Electrochemical Behavior of Activated Carbon Electrodes in Li-, Na- and K-Salt Containing Organic Electrolytes. <b>2018</b> , 165, A2807-A2814	9
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1321	Superior one-pot synthesis of a doped graphene oxide electrode for a high power density supercapacitor. <b>2018</b> , 42, 11093-11101	19

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1317	Understanding of the Ultrastable K-Ion Storage of Carbonaceous Anode. <b>2018</b> , 28, 1801989	133
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1315	A comprehensive evaluation of energy storage options for better sustainability. <b>2018</b> , 42, 3732-3746	45
1314	Intercalation pseudocapacitance in flexible and self-standing V <sub>2</sub> O <sub>3</sub> porous nanofibers for high-rate and ultra-stable K ion storage. <b>2018</b> , 50, 462-467	136
1313	Holey graphene-wrapped porous TiNb <sub>24</sub> O <sub>62</sub> microparticles as high-performance intercalation pseudocapacitive anode materials for lithium-ion capacitors. <b>2018</b> , 10, 406-416	46
1312	3D Interconnected Binder-Free Electrospun MnO@C Nanofibers for Supercapacitor Devices. <b>2018</b> , 8, 7988	79
1311	Engineering Solid Electrolyte Interphase for Pseudocapacitive Anatase TiO <sub>2</sub> Anodes in Sodium-Ion Batteries. <b>2018</b> , 28, 1802099	83
1310	Exposed high-energy facets in ultradispersed sub-10 nm SnO <sub>2</sub> nanocrystals anchored on graphene for pseudocapacitive sodium storage and high-performance quasi-solid-state sodium-ion capacitors. <b>2018</b> , 10, 429-440	36
1309	Graphene Oxide-Template Controlled Cuboid-Shaped High-Capacity VS <sub>4</sub> Nanoparticles as Anode for Sodium-Ion Batteries. <b>2018</b> , 28, 1801806	94
1308	Pseudocapacitive layered birnessite sodium manganese dioxide for high-rate non-aqueous sodium ion capacitors. <b>2018</b> , 6, 12259-12266	24
1307	CoNi S Nanoparticle/Carbon Nanotube Sponge Cathode with Ultrahigh Capacitance for Highly Compressible Asymmetric Supercapacitor. <b>2018</b> , 14, e1800998	59
1306	Ternary nanocomposites of conductive polymer/functionalized GO/MOFs: Synthesis, characterization and electrochemical performance as effective electrode materials in pseudocapacitors. <b>2018</b> , 265, 155-166	70
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1304	Atomic Layer-Deposited Molybdenum Oxide/Carbon Nanotube Hybrid Electrodes: The Influence of Crystal Structure on Lithium-Ion Capacitor Performance. <b>2018</b> , 10, 18675-18684	30
1303	Ultrafast Zn Intercalation and Deintercalation in Vanadium Dioxide. <b>2018</b> , 30, e1800762	331

1302	Operando Atomic Force Microscopy Reveals Mechanics of Structural Water Driven Battery-to-Pseudocapacitor Transition. <b>2018</b> , 12, 6032-6039	30
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1300	Supercapacitor properties of nanowire poly((3,4-dihydro-2H-thieno[3,4-b][1,4]dioxepin-3-yl)methanol) free-supporting films. <b>2018</b> , 283, 488-496	8
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1298	Mechanism of Sodium Ion Storage in Na <sub>7</sub> [H <sub>2</sub> PV <sub>14</sub> O <sub>42</sub> ] Anode for Sodium-Ion Batteries. <b>2018</b> , 5, 1800491	9
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1296	Electrochemical and Chemical Insertion for Energy Transformation and Switching. <b>2018</b> , 48, 137-165	25
1295	High-capacitance TiCT MXene obtained by etching submicron TiAlC grains grown in molten salt. <b>2018</b> , 54, 8132-8135	24
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1293	Hyperporous Sponge Interconnected by Hierarchical Carbon Nanotubes as a High-Performance Potassium-Ion Battery Anode. <b>2018</b> , 30, e1802074	198
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1291	Enhanced performance on capacity retention of hierarchical NiS hexagonal nanoplate for highly stable asymmetric supercapacitor. <b>2018</b> , 283, 1053-1062	31
1290	Electrochemical activated MoO <sub>2</sub> /Mo <sub>2</sub> N heterostructured nanobelts as superior zinc rechargeable battery cathode. <b>2018</b> , 15, 374-379	60
1289	T-NbO nanoparticle enabled pseudocapacitance with fast Li-ion intercalation. <b>2018</b> , 10, 14165-14170	22
1288	Preparation of three-dimensional porous graphene/ruthenium oxide nano-composite for high performance supercapacitors by electrochemical method. <b>2018</b> , 189, 147-157	1
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1286	Synthesis of NiMoSO/rGO Composites Based on NiMoO <sub>4</sub> and Reduced Graphene with High-Performance Electrochemical Electrodes. <b>2018</b> , 3, 6719-6728	9
1285	Rodlike CeO <sub>2</sub> /carbon nanocomposite derived from metalorganic frameworks for enhanced supercapacitor applications. <b>2018</b> , 53, 13966-13975	14

1284	Coal tar pitch derived N-doped porous carbon nanosheets by the in-situ formed g-C <sub>3</sub> N <sub>4</sub> as a template for supercapacitor electrodes. <b>2018</b> , 283, 132-140	60
1283	Flexible self-charging supercapacitor based on graphene-Ag-3D graphene foam electrodes. <b>2018</b> , 51, 604-612	130
1282	Hierarchical Cobalt-Based Metal-Organic Framework for High-Performance Lithium-Ion Batteries. <b>2018</b> , 24, 13362-13367	40
1281	Application of Nanomaterials Prepared by Thermolysis of Metal Chelates. <b>2018</b> , 459-541	
1280	Hierarchical porous Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> ∥TiO <sub>2</sub> composite anode materials with pseudocapacitive effect for high-rate and low-temperature applications. <b>2018</b> , 6, 14339-14351	45
1279	High-performance supercapacitors based on superior Co <sub>3</sub> O <sub>4</sub> nanorods electrode for integrated energy harvesting-storage system. <b>2018</b> , 282, 905-912	15
1278	Charge transfer dynamical processes at graphene-transition metal oxides/electrolyte interface for energy storage: Insights from in-situ Raman spectroelectrochemistry. <b>2018</b> , 8, 065225	17
1277	Investigation of the Enhanced Lithium Battery Storage in a Polyoxometalate Model: From Solid Spheres to Hollow Balls. <b>2018</b> , 2, 1800154	14
1276	Dopamine-derived N-doped carbon encapsulating hollow Sn <sub>4</sub> P <sub>3</sub> microspheres as anode materials with superior sodium storage performance. <b>2018</b> , 769, 45-52	28
1275	MnPO <sub>4</sub> ·H <sub>2</sub> O as Electrode Material for Electrochemical Capacitors. <b>2018</b> , 165, A2349-A2356	9
1274	Self-Templating Synthesis of Cobalt Hexacyanoferrate Hollow Structures with Superior Performance for Na-Ion Hybrid Supercapacitors. <b>2018</b> , 10, 29496-29504	62
1273	Hierarchical self-assembly flower-like ammonium nickel phosphate as high-rate performance electrode material for asymmetric supercapacitors with enhanced energy density. <b>2018</b> , 29, 425401	11
1272	Pseudocapacitance Properties of Co <sub>3</sub> O <sub>4</sub> Nanoparticles Synthesized Using a Modified Sol-Gel Method. <b>2018</b> , 21,	9
1271	Prominent Electrochromism Achieved Using Aluminum Ion Insertion/Extraction in Amorphous WO <sub>3</sub> Films. <b>2018</b> , 122, 19037-19043	33
1270	An amorphous tin-based nanohybrid for ultra-stable sodium storage. <b>2018</b> , 6, 18920-18927	16
1269	Elucidating the energy storage mechanism of ZnMn <sub>2</sub> O <sub>4</sub> as promising anode for Li-ion batteries. <b>2018</b> , 6, 19381-19392	39
1268	Asymmetric hybrid energy conversion and storage cell of thin Co <sub>3</sub> O <sub>4</sub> and N-doped reduced graphene oxide aerogel films. <b>2018</b> , 283, 1125-1133	4
1267	Phosphate ion functionalization of Co(OH) <sub>2</sub> nanosheets by a simple immersion method. <b>2018</b> , 768, 57-64	11

1266	In Situ Growth of Zeolitic Imidazolate Framework-67-derived Nanoporous Carbon@K Mn O for High-Performance 2.4 V Aqueous Asymmetric Supercapacitors. <b>2018</b> , 11, 3167-3174	45
1265	Ultrathin mesoporous NiMoO <sub>4</sub> -modified MoO <sub>3</sub> core/shell nanostructures: Enhanced capacitive storage and cycling performance for supercapacitors. <b>2018</b> , 353, 615-625	61
1264	The shape effect of manganese(II,III) oxide nanoparticles on the performance of electrochemical capacitors. <b>2018</b> , 284, 408-417	8
1263	Cation-Disordered Li <sub>3</sub> VO <sub>4</sub> : Reversible Li Insertion/Deinsertion Mechanism for Quasi Li-Rich Layered Li <sub>1+x</sub> [V <sub>1/2</sub> Li <sub>1/2</sub> ]O <sub>2</sub> (x = 0.1). <b>2018</b> , 30, 4926-4934	16
1262	Template-assisted in situ confinement synthesis of nitrogen and oxygen co-doped 3D porous carbon network for high-performance sodium-ion battery anode. <b>2018</b> , 42, 14410-14416	11
1261	Facile preparation of nanoflake MnNi <sub>2</sub> O <sub>4</sub> @BS nanoparticle composites on Ni foam as advanced electrode materials for supercapacitors. <b>2018</b> , 42, 14157-14162	7
1260	Two-dimensional mesoporous vanadium phosphate nanosheets through liquid crystal templating method toward supercapacitor application. <b>2018</b> , 52, 336-344	44
1259	In situ synthesis of a highly active Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> nanosheet on an activated carbon fiber as an anode for high-energy density supercapacitors. <b>2018</b> , 6, 16186-16195	42
1258	A stable high-power Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> /LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Li-ion hybrid energy storage device. <b>2018</b> , 284, 30-37	8
1257	Graphene boosted pseudocapacitive lithium storage: A case of G-Fe <sub>2</sub> O <sub>3</sub> . <b>2018</b> , 282, 955-963	24
1256	Waste soybean dreg-derived N/O co-doped hierarchical porous carbon for high performance supercapacitor. <b>2018</b> , 284, 336-345	96
1255	Designing MOFs-Derived FeS@Carbon Composites for High-Rate Sodium Ion Storage with Capacitive Contributions. <b>2018</b> , 10, 33097-33104	94
1254	Copper-Diphosphide Composites: A Key Factor Evaluation and Capacity Enhancement Route for High-Energy Lithium-Ion Storage. <b>2018</b> , 1, 3674-3683	6
1253	Synergistic effects of engineered spinel hetero-metallic cobaltites on electrochemical pseudo-capacitive behaviors. <b>2018</b> , 6, 15033-15039	10
1252	Edge enriched cobalt ferrite nanorods for symmetric/asymmetric supercapacitive charge storage. <b>2018</b> , 283, 708-717	27
1251	Direct observation of pseudocapacitive sodium storage behavior in molybdenum dioxide anodes. <b>2018</b> , 397, 113-123	3
1250	Synergistic effect of Co <sub>3</sub> O <sub>4</sub> @C@MnO <sub>2</sub> nanowire heterostructures for high-performance asymmetry supercapacitor with long cycle life. <b>2018</b> , 283, 1087-1094	31
1249	Wire-Shaped Supercapacitors with Organic Electrolytes Fabricated via Layer-by-Layer Assembly. <b>2018</b> , 10, 26248-26257	25



1248	Self-assembled pancake-like hexagonal tungsten oxide with ordered mesopores for supercapacitors. <b>2018</b> , 6, 15330-15339	35
1247	Hierarchical C/SiO <sub>2</sub> /TiO <sub>2</sub> ultrathin nanobelts as anode materials for advanced lithium ion batteries. <b>2018</b> , 29, 405602	14
1246	Capacitive behavior and material characteristics of congo red doped poly (3,4-ethylene dioxothiophene). <b>2018</b> , 283, 590-596	5
1245	High-performance asymmetric supercapacitor based on hierarchical nanocomposites of polyaniline nanoarrays on graphene oxide and its derived N-doped carbon nanoarrays grown on graphene sheets. <b>2018</b> , 531, 369-381	39
1244	Free-standing graphene/bismuth vanadate monolith composite as a binder-free electrode for symmetrical supercapacitors.. <b>2018</b> , 8, 24796-24804	25
1243	NiMoO <sub>4</sub> nanowire arrays and carbon nanotubes film as advanced electrodes for high-performance supercapacitor. <b>2018</b> , 458, 478-488	33
1242	High-performance asymmetric supercapacitor from nanostructured tin nickel sulfide (SnNi <sub>2</sub> S <sub>4</sub> ) synthesized via microwave-assisted technique. <b>2018</b> , 266, 649-657	19
1241	One-pot synthesis of self-supported hierarchical urchin-like Ni <sub>3</sub> S <sub>2</sub> with ultrahigh areal pseudocapacitance. <b>2018</b> , 6, 22115-22122	39
1240	Hierarchical NiCoO <sub>2</sub> single-crystalline nanoflake arrays on Ni foam for supercapacitors and Li-ion batteries application. <b>2018</b> , 766, 952-958	9
1239	Preparation of the poly (3,4-ethylenedioxythiophene):poly(styrenesulfonate)@g-C <sub>3</sub> N <sub>4</sub> composite by a simple direct mixing method for supercapacitor. <b>2018</b> , 283, 1468-1474	16
1238	Encapsulation of CoS Nanocrystals into N/S Co-Doped Honeycomb-Like 3D Porous Carbon for High-Performance Lithium Storage. <b>2018</b> , 5, 1800829	121
1237	Stabilization of cryptomelane $\gamma$ -MnO <sub>2</sub> nanowires tunnels widths for enhanced electrochemical energy storage. <b>2018</b> , 283, 1679-1688	23
1236	In situ hydrothermal construction of hydrogel composites by anchoring Ni(OH) <sub>2</sub> nanoparticles onto sulfonated graphene and their application for functional supercapacitor electrode. <b>2018</b> , 767, 1048-1056	12
1235	Bioinspired sea-sponge nanostructure design of Ni/Ni(HCO <sub>3</sub> ) <sub>2</sub> -on-C for a supercapacitor with a superior anti-fading capacity. <b>2018</b> , 6, 15781-15788	15
1234	N/S Co-doped Carbon Derived From Cotton as High Performance Anode Materials for Lithium Ion Batteries. <b>2018</b> , 6, 78	22
1233	Partial Nitridation-Induced Electrochemistry Enhancement of Ternary Oxide Nanosheets for Fiber Energy Storage Device. <b>2018</b> , 8, 1800685	54
1232	MoC/C nanowires as high-rate and long cyclic life anode for lithium ion batteries. <b>2018</b> , 277, 205-210	22
1231	3D carbon foam-supported WS <sub>2</sub> nanosheets for cable-shaped flexible sodium ion batteries. <b>2018</b> , 6, 10813-10824	24

1230	Porous NiCoMn ternary metal oxide/graphene nanocomposites for high performance hybrid energy storage devices. <b>2018</b> , 279, 44-56	31
1229	Sputtered Titanium Nitride Films on Titanium Foam Substrates as Electrodes for High-Power Electrochemical Capacitors. <b>2018</b> , 5, 2199-2207	13
1228	Synthesis and enhanced electrochemical performance of PANI/Fe <sub>3</sub> O <sub>4</sub> nanocomposite as supercapacitor electrode. <b>2018</b> , 757, 466-475	55
1227	High-performance Cu adsorption of birnessite using electrochemically controlled redox reactions. <b>2018</b> , 354, 107-115	32
1226	Metal-organic frameworks and their composites as efficient electrodes for supercapacitor applications. <b>2018</b> , 369, 15-38	178
1225	A novel two-step approach to fabricating nanofibrous nickel cobaltite for high performance supercapacitors. <b>2018</b> , 760, 6-14	10
1224	Identifying the forefront of electrocatalytic oxygen evolution reaction: Electronic double layer. <b>2018</b> , 239, 425-432	26
1223	Composition, microstructure and performance of cobalt nickel phosphate as advanced battery-type capacitive material. <b>2018</b> , 767, 789-796	16
1222	Large performance improvement of carbon-based supercapacitors using dual-redox additives phosphotungstic acid and potassium ferricyanide. <b>2018</b> , 768, 756-765	13
1221	Progress of metal-phosphide electrodes for advanced sodium-ion batteries. <b>2018</b> , 11, 1830001	17
1220	Novel Hybrid Energy Conversion and Storage Cell with Photovoltaic and Supercapacitor Effects in Ionic Liquid Electrolyte. <b>2018</b> , 8, 12192	19
1219	Asymmetric supercapacitor based on cobalt hydroxide carbonate/GF composite and a carbonized conductive polymer grafted with iron (C-FP). <b>2018</b> , 769, 376-386	15
1218	Ruthenium oxide nanostring clusters anchored Graphene oxide nanocomposites for high-performance supercapacitors application. <b>2018</b> , 107, 347-354	18
1217	Enhanced cycle stability of a NiCoS nanostructured electrode for supercapacitors fabricated by the alternate-dip-coating method. <b>2018</b> , 5, 180506	3
1216	Understanding the functions of carbon in the negative active-mass of the lead-acid battery: A review of progress. <b>2018</b> , 19, 272-290	38
1215	Biomass-derived nitrogen/oxygen co-doped hierarchical porous carbon with a large specific surface area for ultrafast and long-life sodium-ion batteries. <b>2018</b> , 462, 713-719	27
1214	The Research Development of Quantum Dots in Electrochemical Energy Storage. <b>2018</b> , 14, e1801479	36
1213	Lithium- and sodium-ion storage properties of modulated titanate morphologies in reduced graphene oxide nanocomposites. <b>2018</b> , 462, 276-284	5

1212	Characterization and quantification of electron donating capacity and its structure dependence in biochar derived from three waste biomasses. <b>2018</b> , 211, 1073-1081	73
1211	Synthesis of Three-Dimensional Hierarchically Porous Carbon Monolith via Pyrolysis-Capture□ Strategy for Supercapacitors. <b>2018</b> , 165, A2415-A2420	4
1210	Sodium Ion Capacitor Using Pseudocapacitive Layered Ferric Vanadate Nanosheets Cathode. <b>2018</b> , 6, 212-221	53
1209	Bistacked Titanium Carbide (MXene) Anodes for Hybrid Sodium-Ion Capacitors. <b>2018</b> , 3, 2094-2100	103
1208	Recent advancements in supercapacitor technology. <b>2018</b> , 52, 441-473	729
1207	Coprecipitation Reaction System Synthesis and Lithium-Ion Capacitor Energy Storage Application of the Porous Structural Bimetallic Sulfide CoMoS Nanoparticles. <b>2018</b> , 3, 8803-8812	14
1206	High-performance asymmetric supercapacitors based on monodisperse MnO nanocrystals with high energy densities. <b>2018</b> , 10, 15926-15931	42
1205	Porosity-Engineered Carbon Materials for Supercapacitors: The Template Effect and the Improved Capacitive Performances by the Addition of Redox Additive. <b>2018</b> , 13, 1850096	1
1204	Facile Synthesis of Anatase TiO <sub>2</sub> Nanospheres as Anode Materials for Sodium-Ion Batteries. <b>2018</b> , 70, 1411-1415	5
1203	Modifying Current Collectors to Produce High Volumetric Energy Density and Power Density Storage Devices. <b>2018</b> , 10, 21262-21280	15
1202	Facile Strategy to Low-Cost Synthesis of Hierarchically Porous, Active Carbon of High Graphitization for Energy Storage. <b>2018</b> , 10, 21573-21581	20
1201	Ni-Co layered double hydroxide on carbon nanorods and graphene nanoribbons derived from MOFs for supercapacitors. <b>2018</b> , 47, 8706-8715	65
1200	Unique Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /TiO <sub>2</sub> multilayer arrays with advanced surface lithium storage capability. <b>2018</b> , 6, 22053-22061	17
1199	Encapsulating MnO nanoparticles within foam-like carbon nanosheet matrix for fast and durable lithium storage. <b>2018</b> , 50, 675-684	69
1198	Critical Role of the Crystallite Size in Nanostructured LiTiO Anodes for Lithium-Ion Batteries. <b>2018</b> , 10, 22580-22590	19
1197	Capacitance response in an aqueous electrolyte of Nb <sub>2</sub> O <sub>5</sub> nanochannel layers anodically grown in pure molten o-H <sub>3</sub> PO <sub>4</sub> . <b>2018</b> , 281, 725-737	15
1196	MoS Nanosheets Vertically Grown on Carbonized Corn Stalks as Lithium-Ion Battery Anode. <b>2018</b> , 10, 22067-22073	37
1195	A combined DFT and experimental study on the nucleation mechanism of NiO nanodots on graphene. <b>2018</b> , 6, 13717-13724	11

1194	Phosphorus-doped TiO <sub>2</sub> -B nanowire arrays boosting robust pseudocapacitive properties for lithium storage. <b>2018</b> , 396, 327-334	34
1193	High energy density hybrid supercapacitor based on 3D mesoporous cuboidal Mn <sub>2</sub> O <sub>3</sub> and MOF-derived porous carbon polyhedrons. <b>2018</b> , 282, 1-9	42
1192	Characterization and electrochemical performance of CeO <sub>2</sub> and Eu-doped CeO <sub>2</sub> films as a manganese redox flow battery component. <b>2018</b> , 36, 1074-1083	13
1191	V <sub>2</sub> O <sub>5</sub> nanorod electrode material for enhanced electrochemical properties by a facile hydrothermal method for supercapacitor applications. <b>2018</b> , 42, 11862-11868	35
1190	Laser-scribed Ru organometallic complex for the preparation of RuO <sub>2</sub> micro-supercapacitor electrodes on flexible substrate. <b>2018</b> , 281, 816-821	30
1189	Transparent supercapacitors of 2 nm ruthenium oxide nanoparticles decorated on a 3D nitrogen-doped graphene aerogel. <b>2018</b> , 2, 1799-1805	14
1188	Ultrafast lithium energy storage enabled by interfacial construction of interlayer-expanded MoS <sub>2</sub> /N-doped carbon nanowires. <b>2018</b> , 6, 13419-13427	73
1187	New Methods for the Fabrication of Composites for Supercapacitor Electrodes with High Active Mass Loading. <b>2018</b> , 3, 3221-3226	2
1186	CuCo <sub>2</sub> S <sub>4</sub> Nanosheets Coupled With Carbon Nanotube Heterostructures for Highly Efficient Capacitive Energy Storage. <b>2018</b> , 5, 2496-2502	14
1185	Tuning the Surface Morphology and Pseudocapacitance of MnO <sub>2</sub> by a Facile Green Method Employing Organic Reducing Sugars. <b>2018</b> , 1, 3654-3664	12
1184	Electrochemical performance of CH <sub>3</sub> COONa aqueous electrolytes. <b>2019</b> , 25, 2275-2283	
1183	Boosting sodium storage properties of titanium dioxide by a multiscale design based on MOF-derived strategy. <b>2019</b> , 17, 126-135	43
1182	Hierarchical nanocarbon-MnO <sub>2</sub> electrodes for enhanced electrochemical capacitor performance. <b>2019</b> , 16, 607-618	30
1181	Review and prospect of NiCo <sub>2</sub> O <sub>4</sub> -based composite materials for supercapacitor electrodes. <b>2019</b> , 31, 54-78	178
1180	Promising biomass-derived nitrogen-doped porous carbon for high performance supercapacitor. <b>2019</b> , 26, 99-108	25
1179	Ruthenium oxide-carbon-based nanofiller-reinforced conducting polymer nanocomposites and their supercapacitor applications. <b>2019</b> , 76, 2601-2619	9
1178	3D urchin-like architectures assembled by MnS nanorods encapsulated in N-doped carbon tubes for superior lithium storage capability. <b>2019</b> , 355, 752-759	49
1177	Facile hydrothermal synthesis of actinaria-shaped MnO <sub>2</sub> /activated carbon and its electrochemical performances of supercapacitor. <b>2019</b> , 770, 926-933	45

1176	Tin sulfide nanoparticles embedded in sulfur and nitrogen dual-doped mesoporous carbon fibers as high-performance anodes with battery-capacitive sodium storage. <b>2019</b> , 18, 366-374	78
1175	3D Nickel Scaffolded MoS <sub>2</sub> Nanoflakes as Sodium Battery Anode with Improved Cycling Life and Rate Capability. <b>2019</b> , 7, 216-223	5
1174	Free-standing Reduced Graphene Oxide/MoO <sub>3-x</sub> Composite Film with High Performance for Flexible Supercapacitors. <b>2019</b> , 4, 9165-9173	5
1173	High shear-granulated hierarchically porous spheres nanostructure-designed for high-performance supercapacitors. <b>2019</b> , 30, 2440-2449	7
1172	Modification of the Step Potential Electrochemical Spectroscopy Analysis Protocol to Improve Outcomes. <b>2019</b> , 166, A2727-A2735	16
1171	Faradaic and/or capacitive: Which contribution for electrochromism in NiO thin films cycled in various electrolytes?. <b>2019</b> , 201, 110114	17
1170	Cobalt-Containing Nanoporous Nitrogen-Doped Carbon Nanocuboids from Zeolite Imidazole Frameworks for Supercapacitors. <b>2019</b> , 9,	14
1169	Structurally disordered Ta <sub>2</sub> O <sub>5</sub> aerogel for high-rate and highly stable Li-ion and Na-ion storage through surface redox pseudocapacitance. <b>2019</b> , 321, 134645	18
1168	Revisited insights into charge storage mechanisms in electrochemical capacitors with Li <sub>2</sub> SO <sub>4</sub> -based electrolyte. <b>2019</b> , 22, 1-14	20
1167	Niobium pentoxide nanoparticles @ multi-walled carbon nanotubes and activated carbon composite material as electrodes for electrochemical capacitors. <b>2019</b> , 22, 311-322	23
1166	Theoretical validation of the step potential electrochemical spectroscopy (SPECS) and multiple potential step chronoamperometry (MUSCA) methods for pseudocapacitive electrodes. <b>2019</b> , 321, 134648	1
1165	Formation of Nanodimensional NiCoO Encapsulated in Porous Nitrogen-Doped Carbon Submicrospheres from a Bimetallic (Ni, Co) Organic Framework toward Efficient Lithium Storage. <b>2019</b> , 11, 32052-32061	19
1164	Core-shell structured Si@C nanocomposite for high-performance Li-ion batteries with a highly viscous gel as precursor. <b>2019</b> , 438, 227001	28
1163	Organic-inorganic all-pseudocapacitive asymmetric energy storage devices. <b>2019</b> , 65, 104022	34
1162	Fluorine substitution enabling pseudocapacitive intercalation of sodium ions in niobium oxyfluoride. <b>2019</b> , 7, 20813-20823	10
1161	Highly Enhanced Pseudocapacitive Performance of Vanadium-Doped MXenes in Neutral Electrolytes. <b>2019</b> , 15, e1902649	23
1160	Heterostructured MXene and g-C <sub>3</sub> N <sub>4</sub> for high-rate lithium intercalation. <b>2019</b> , 65, 104030	37
1159	Hydrothermal synthesis of hierarchical CoMoO <sub>4</sub> microspheres and their lithium storage properties as anode for lithium ion batteries. <b>2019</b> , 20, 100578	9

1158	Stable high-voltage aqueous pseudocapacitive energy storage device with slow self-discharge. <b>2019</b> , 64, 103961	49
1157	Synthesis of three-dimensional free-standing WSe <sub>2</sub> /C hybrid nanofibers as anodes for high-capacity lithium/sodium ion batteries. <b>2019</b> , 7, 19898-19908	18
1156	Electrodeposition of MnO <sub>2</sub> /MnO on Carbon Nanotube for Yarn Supercapacitor. <b>2019</b> , 9, 11271	36
1155	A One-Dimensional π Conjugated Coordination Polymer for Sodium Storage with Catalytic Activity in Negishi Coupling. <b>2019</b> , 131, 14873-14881	25
1154	A One-Dimensional π Conjugated Coordination Polymer for Sodium Storage with Catalytic Activity in Negishi Coupling. <b>2019</b> , 58, 14731-14739	81
1153	Confined Metal Sulfides Nanoparticles into Porous Carbon Nanosheets with Surface-Controlled Reactions for Fast and Stable Lithium-Ion Batteries. <b>2019</b> , 6, 4464-4470	9
1152	Chemical Bonding Construction of Reduced Graphene Oxide-Anchored Few-Layer Bismuth Oxychloride for Synergistically Improving Sodium-Ion Storage. <b>2019</b> , 31, 7311-7319	24
1151	N, P dual-doped carbon nanotube with superior high-rate sodium storage performance for sodium ion batteries. <b>2019</b> , 850, 113392	17
1150	Free-standing transition metal oxide electrode architectures for electrochemical energy storage. <b>2019</b> , 54, 13045-13069	13
1149	Electrodeposited Ni(OH) <sub>2</sub> -modified CuS core-shell-like hybrids as binder-free electrodes for high-performance supercapacitors. <b>2019</b> , 43, 12785-12794	3
1148	Design and synthesis of electrode materials with both battery-type and capacitive charge storage. <b>2019</b> , 22, 235-255	83
1147	Ternary chalcogenide LiInSe <sub>2</sub> : A promising high-performance anode material for lithium ion batteries. <b>2019</b> , 320, 134562	7
1146	Sandwich-like SnS/Graphene/SnS with Expanded Interlayer Distance as High-Rate Lithium/Sodium-Ion Battery Anode Materials. <b>2019</b> , 13, 9100-9111	178
1145	Intercalation chemistry of graphite: alkali metal ions and beyond. <b>2019</b> , 48, 4655-4687	275
1144	Morphology-dependent electrochemical performance of nitrogen-doped carbon dots@polyaniline hybrids for supercapacitors. <b>2019</b> , 43, 7529	13
1143	High performance asymmetric supercapacitor having novel 3D networked polypyrrole nanotube/N-doped graphene negative electrode and core-shelled MoO <sub>3</sub> /PPy supported MoS <sub>2</sub> positive electrode. <b>2019</b> , 320, 134533	35
1142	Preparation of SnS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> composite as the electrode material for Supercapacitor. <b>2019</b> , 806, 343-349	31
1141	Template-free synthesized 3D macroporous MXene with superior performance for supercapacitors. <b>2019</b> , 16, 315-321	37

1140	Three-dimensional porous CoO-CoO@GO composite combined with N-doped carbon for superior lithium storage. <b>2019</b> , 30, 425404	7
1139	Thin-Film Photoelectrode of p-Type Ni-Doped Co <sub>3</sub> O <sub>4</sub> Nanosheets for a Single Hybrid Energy Conversion and Storage Cell. <b>2019</b> , 166, A2444-A2452	6
1138	Interlaced NiMn-LDH nanosheet decorated NiCoO nanowire arrays on carbon cloth as advanced electrodes for high-performance flexible solid-state hybrid supercapacitors. <b>2019</b> , 48, 12168-12176	30
1137	NiSe <sub>2</sub> nanooctahedra as anodes for high-performance sodium-ion batteries. <b>2019</b> , 43, 12858-12864	18
1136	Hierarchical cobalt oxide@Nickel-vanadium layer double hydroxide core/shell nanowire arrays with enhanced areal specific capacity for nickel-zinc batteries. <b>2019</b> , 436, 226867	37
1135	All-Cellulose-Based Quasi-Solid-State Sodium-Ion Hybrid Capacitors Enabled by Structural Hierarchy. <b>2019</b> , 29, 1903895	55
1134	Biomass-Derived Carbon: A Value-Added Journey Towards Constructing High-Energy Supercapacitors in an Asymmetric Fashion. <b>2019</b> , 12, 4353-4382	32
1133	Hydrothermal synthesis of VS/CNTs composite with petal-shape structures performing a high specific capacity in a large potential range for high-performance symmetric supercapacitors. <b>2019</b> , 554, 191-201	38
1132	Structural engineering to maintain the superior capacitance of molybdenum oxides at ultrahigh mass loadings. <b>2019</b> , 7, 23941-23948	25
1131	Synthesis of ultra-long boron nanowires as supercapacitor electrode material. <b>2019</b> , 493, 787-794	2
1130	Unusual formation of hollow NiCoO <sub>2</sub> sub-microspheres by oxygen functional group dominated thermally induced mass relocation towards efficient lithium storage. <b>2019</b> , 7, 18109-18117	25
1129	Vertically aligned nanostructured FeOOH@MnO <sub>2</sub> core shell electrode with better areal capacitance. <b>2019</b> , 436, 226826	13
1128	Surface engineering of layered SnO micro-plates for impressive high supercapacitor performance. <b>2019</b> , 238, 121889	7
1127	Understanding the Lithium Storage Mechanism in Core-Shell Fe <sub>2</sub> O <sub>3</sub> @C Hollow Nanospheres Derived from Metal-Organic Frameworks: An In operando Synchrotron Radiation Diffraction and in operando X-ray Absorption Spectroscopy Study. <b>2019</b> , 31, 5633-5645	16
1126	Solvothermal synthesis of hierarchical NiS particles as battery-type electrode materials for hybrid supercapacitors. <b>2019</b> , 806, 1068-1076	16
1125	A high-performance lithium-ion capacitor with carbonized NiCo <sub>2</sub> O <sub>4</sub> anode and vertically-aligned carbon nanoflakes cathode. <b>2019</b> , 22, 265-274	29
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1110	Scalable nanomanufacturing of inkjet-printed wearable energy storage devices. <b>2019</b> , 7, 23280-23300	31
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311	Balanced Crystallinity and Nanostructure for SnS <sub>2</sub> Nanosheets through Optimized Calcination Temperature toward Enhanced Pseudocapacitive Na <sup>+</sup> Storage. <b>2022</b> , 16, 14745-14753	1
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306	Double reaction initiated self-assembly process fabricated hard carbon with high power capability for lithium ion capacitor anodes. <b>2022</b> , 155083	0
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301	Pseudocapacitive porous amorphous vanadium pentoxide with enhanced multicolored electrochromism. <b>2022</b> , 139655	1
300	Porous current collector enables carbon superior electrochemical performance for K-ion capacitors.	0
299	Nanotexturing TiO <sub>2</sub> over carbon nanotubes for high-energy and high-power density pseudocapacitors in organic electrolytes. 9,	0
298	High-capacity three-dimensional solar rechargeable micro-supercapacitor using MnO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> -based binary metal oxide nanocomposite ink. <b>2022</b> , 115, 544-553	0
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295	A three-dimensional directly grown hierarchical graces-like Nickel Manganese Selenide for high-performance Li-ion battery and supercapacitor electrodes. <b>2022</b> , 26, 101187	0

294	Shearing induced ordered structures in two-dimensional nanomaterials-based electrodes for boosted pseudocapacitive kinetics. <b>2022</b> , 53, 444-452	1
293	High performance supercapacitors based on wood-derived thick carbon electrodes synthesized via green activation process.	10
292	Hierarchical architecture of the metallic VTe <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene heterostructure for supercapacitor applications.	1
291	CrSe <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> MXene 2D/2D hybrids as promising candidates for energy storage applications.	0
290	Spray drying construction of hierarchical hollow ZnMn <sub>2</sub> O <sub>4</sub> folded microspheres as anode materials for lithium ion batteries.	0
289	The Mechanical Properties of Batteries and Supercapacitors. <b>2022</b> ,	0
288	Magnetite/Graphene-Based Composites and Their Potential Application as Supercapacitor Electrode Material. <b>2022</b> , 879-914	0
287	Status review on nickel phosphides for hybrid supercapacitors.	0
286	Energy Storage Applications. <b>2022</b> , 233-267	0
285	Hierarchical Assembled Ag <sub>2</sub> CuMnO <sub>4</sub> Nanoflakes as a Novel Electrode Material for Energy Storage Applications. <b>2022</b> , 167783	0
284	Exploration of Calcium-Doped Manganese Monoxide Cathode for High-Performance Aqueous Zinc-Ion Batteries. <b>2022</b> , 36, 13296-13306	1
283	Effects of Methoxy Substituents in Contorted Polycyclic Aromatic Hydrocarbons for Pseudocapacitive Charge Storage. 4142-4149	0
282	Efficient Recovery Annealing of the Pseudocapacitive Electrode with a High Loading of Cobalt Oxide Nanoparticles for Hybrid Supercapacitor Applications. <b>2022</b> , 12, 3669	0
281	Anchoring Metal-Organic Framework-Derived ZnTe@C onto Elastic Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene with 0D/2D Dual Confinement for Ultrastable Potassium-Ion Storage. 2203118	1
280	Sb/C Composite Embedded in SiOC Buffer Matrix via Sb/MOF-Driven Dispersion Property for Novel Anode Material in Sodium-Ion Batteries.	0
279	3D printed freestanding ZnSe/NC anodes for Li-ion microbatteries. <b>2022</b> , 37, 956-967	0
278	Cyclic Voltammetry Part 2: Surface Adsorption, Electric Double Layer, and Diffusion Layer. <b>2022</b> , 90, 102006-102006	0
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