

CITATION REPORT

List of articles citing

Carbon-based materials as supercapacitor electrodes

DOI: 10.1039/b813846j

Chemical Society Reviews, 2009, 38, 2520-31.

Source: <https://exaly.com/paper-pdf/46789832/citation-report.pdf>

Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2281	ChemInform Abstract: Carbon-Based Materials as Supercapacitor Electrodes. 2009 , 40, no		1
2280	High specific capacitance conducting polymer supercapacitor electrodes based on poly(tris(thiophenylphenyl)amine). 2009 , 19, 6977		135
2279	Recent progress in the preparation and application of carbon nanocapsules. 2010 , 43, 374001		23
2278	Graphene/Polyaniline Nanofiber Composites as Supercapacitor Electrodes. 2010 , 22, 1392-1401		1884
2277	Graphene-based materials as supercapacitor electrodes. 2010 , 20, 5983		1171
2276	Capacitance decay of nanoporous nickel hydroxide. 2010 , 195, 6977-6981		138
2275	Inkjet printing of single-walled carbon nanotube/RuO ₂ nanowire supercapacitors on cloth fabrics and flexible substrates. 2010 , 3, 594-603		358
2274	Activated carbon with high capacitance prepared by NaOH activation for supercapacitors. 2010 , 124, 504-509		191
2273	Nanostructured carbon and carbon nanocomposites for electrochemical energy storage applications. 2010 , 3, 136-68		563
2272	Ionic Liquids as Versatile Precursors for Functionalized Porous Carbon and Carbon Dioxide Composite Materials by Confined Carbonization. 2010 , 122, 6814-6818		20
2271	Ionic liquids as versatile precursors for functionalized porous carbon and carbon-oxide composite materials by confined carbonization. 2010 , 49, 6664-8		133
2270	Interface-hydrothermal synthesis and electrochemical properties of CoS(x) nanodots/poly(sodium-4-styrene sulfonate) functionalized multi-walled carbon nanotubes nanocomposite. 2010 , 349, 181-5		25
2269	Controlled growth and modification of vertically-aligned carbon nanotubes for multifunctional applications. 2010 , 70, 63-91		104
2268	A high-performance carbon derived from polyaniline for supercapacitors. 2010 , 12, 1279-1282		83
2267	Rapid microwave-assisted synthesis of graphene nanosheet/Co ₃ O ₄ composite for supercapacitors. 2010 , 55, 6973-6978		423
2266	Ionothermal carbonization of sugars in a protic ionic liquid under ambient conditions. 2010 , 48, 3364-3368		58
2265	Fast and reversible surface redox reaction of graphene/MnO ₂ composites as supercapacitor electrodes. 2010 , 48, 3825-3833		1169

2264	Structure and electrochemical capacitance of carbon cryogels derived from phenolformaldehyde resins. 2010 , 48, 3874-3883	51
2263	Enhancing the stability and performance of a battery cathode using a non-aqueous electrolyte. 2010 , 12, 761-764	10
2262	Ultra-Thin and Transparent Graphene Films for Supercapacitor Application. 2010 ,	
2261	Effect of diffuse layer and pore shapes in mesoporous carbon supercapacitors. 2010 , 25, 1469-1475	46
2260	Synthesis and capacitive properties of carbonaceous sphere@MnO ₂ rattle-type hollow structures. 2010 , 25, 1476-1484	18
2259	Modern Theories of Carbon-Based Electrochemical Capacitors: A Short Review. 2010 ,	2
2258	Ultrathin, transparent, and flexible graphene films for supercapacitor application. 2010 , 96, 253105	316
2257	Ion distribution in electrified micropores and its role in the anomalous enhancement of capacitance. 2010 , 4, 2382-90	150
2256	Effect of a quaternary ammonium salt on propylene carbonate structure in slit-shape carbon nanopores. 2010 , 132, 2112-3	43
2255	Preparation and characterization of flexible asymmetric supercapacitors based on transition-metal-oxide nanowire/single-walled carbon nanotube hybrid thin-film electrodes. 2010 , 4, 4403-11	650
2254	Growth of Polyaniline on Hollow Carbon Spheres for Enhancing Electrocapitance. 2010 , 114, 19867-19874	187
2253	Atomistic Insight on the Charging Energetics in Subnanometer Pore Supercapacitors. 2010 , 114, 18012-18016	48
2252	Controlled fabrication of uniform hollow core porous shell carbon spheres by the pyrolysis of core/shell polystyrene/cross-linked polyphosphazene composites. 2010 , 46, 6563-5	96
2251	Template Synthesis of Tubular Ruthenium Oxides for Supercapacitor Applications. 2010 , 114, 13608-13613	121
2250	Graphene-based supercapacitor with an ultrahigh energy density. 2010 , 10, 4863-8	2543
2249	Design and synthesis of hierarchical MnO ₂ nanospheres/carbon nanotubes/conducting polymer ternary composite for high performance electrochemical electrodes. 2010 , 10, 2727-33	829
2248	High-energy MnO ₂ nanowire/graphene and graphene asymmetric electrochemical capacitors. 2010 , 4, 5835-42	1331
2247	Electroless deposition of conformal nanoscale iron oxide on carbon nanoarchitectures for electrochemical charge storage. 2010 , 4, 4505-14	149

2246	Layered graphene oxide nanostructures with sandwiched conducting polymers as supercapacitor electrodes. 2010 , 26, 17624-8	361
2245	Enhancement of Electrochemical Performance of Macroporous Carbon by Surface Coating of Polyaniline. 2010 , 22, 1195-1202	146
2244	Structure and dynamics of electrical double layers in organic electrolytes. 2010 , 12, 5468-79	84
2243	. 2010 ,	6
2242	Thermal-processing study for tuning the porous properties of carbon cryogels. 2010 ,	
2241	Easy synthesis of hollow core, bimodal mesoporous shell carbon nanospheres and their application in supercapacitor. 2011 , 47, 12364-6	123
2240	Mesoporous carbon nanospheres with an excellent electrocapacitive performance. 2011 , 21, 2274-2281	153
2239	Functional mesoporous carbon nanotubes and their integration in situ with metal nanocrystals for enhanced electrochemical performances. 2011 , 47, 8590-2	60
2238	Electrochemical behavior of graphene nanosheets in alkylimidazolium tetrafluoroborate ionic liquid electrolytes: influences of organic solvents and the alkyl chains. 2011 , 21, 13205	54
2237	Porous nickel oxide nano-sheets for high performance pseudocapacitance materials. 2011 , 21, 16581	165
2236	Controllable preparation of NiO macrotubes from NiC ₂ O ₄ and its application in supercapacitors. 2011 , 13, 7246	19
2235	Supercapacitors: Electrode Materials Aspects. 2011 ,	3
2234	Simulating Electric Double Layer Capacitance of Mesoporous Electrodes with Cylindrical Pores. 2011 , 158, A1106	41
2233	Nanomaterials for Alternative Energy. 2011 , 199-246	
2232	What is the choice for supercapacitors: graphene or graphene oxide?. 2011 , 4, 2826	568
2231	Hierarchically structured carbon-based composites: Design, synthesis and their application in electrochemical capacitors. 2011 , 3, 529-45	260
2230	Multiwall carbon nanotube@mesoporous carbon with core-shell configuration: a well-designed composite-structure toward electrochemical capacitor application. 2011 , 21, 13025	65
2229	Synthesis, Growth Mechanism, and Electrochemical Properties of Hollow Mesoporous Carbon Spheres with Controlled Diameter. 2011 , 115, 17717-17724	109

2228	High-performance electrochemical pseudo-capacitor based on MnO ₂ nanowires/Ni foam as electrode with a novel Li-ion quasi-ionic liquid as electrolyte. 2011 , 4, 3942	87
2227	Aqueous NaCl Solutions within Charged Carbon-Slit Pores: Partition Coefficients and Density Distributions from Molecular Dynamics Simulations. 2011 , 115, 13786-13795	64
2226	Graphene-Based Flexible Supercapacitors: Pulse-Electropolymerization of Polypyrrole on Free-Standing Graphene Films. 2011 , 115, 17612-17620	234
2225	High-performance nanostructured supercapacitors on a sponge. 2011 , 11, 5165-72	627
2224	Compact-designed supercapacitors using free-standing single-walled carbon nanotube films. 2011 , 4, 1440	287
2223	An electrochemically formed three-dimensional structure of polypyrrole/graphene nanoplatelets for high-performance supercapacitors. 2011 , 1, 1271	128
2222	Electrostatic layer-by-layer self-assembly multilayer films based on graphene and manganese dioxide sheets as novel electrode materials for supercapacitors. 2011 , 21, 3397	199
2221	Achieving high specific charge capacitances in Fe ₃ O ₄ /reduced graphene oxide nanocomposites. 2011 , 21, 3422	378
2220	One dimensional MnO ₂ /titanium nitride nanotube coaxial arrays for high performance electrochemical capacitive energy storage. 2011 , 4, 3502	205
2219	Graphene based new energy materials. 2011 , 4, 1113	1637
2218	Electric Double Layer Capacitance of Graphene-Like Materials Derived from Single-Walled Carbon Nanotubes. 2011 , 50, 01AF07	
2217	Electrochemical capacitors utilising transition metal oxides: an update of recent developments. 2011 , 1, 1171	236
2216	A self-assembled hierarchical nanostructure comprising carbon spheres and graphene nanosheets for enhanced supercapacitor performance. 2011 , 4, 4504	326
2215	Symmetrical MnO ₂ -carbon nanotube-textile nanostructures for wearable pseudocapacitors with high mass loading. 2011 , 5, 8904-13	540
2214	Heterogeneous nanostructured electrode materials for electrochemical energy storage. 2011 , 47, 1384-404	419
2213	Complex capacitance scaling in ionic liquids-filled nanopores. 2011 , 5, 9044-51	161
2212	Nanotechnology for Sustainability: Energy Conversion, Storage, and Conservation. 2011 , 261-303	12
2211	Controlled synthesis of hierarchical NiO nanosheet hollow spheres with enhanced supercapacitive performance. 2011 , 21, 6602	255

2210	The Sol-Gel-Derived Nickel-Cobalt Oxides with High Supercapacitor Performances. 2011 , 158, A695	85
2209	Nanotechnology Research Directions for Societal Needs in 2020. 2011 ,	151
2208	CHEMISTRY OF VERTICALLY-ALIGNED CARBON NANOTUBES. 2011 , 219-243	
2207	Flexible supercapacitors based on cloth-supported electrodes of conducting polymer nanowire array/SWCNT composites. 2011 , 21, 16373	190
2206	How carboxylic groups improve the performance of single-walled carbon nanotube electrochemical capacitors?. 2011 , 4, 4220	105
2205	Sb ₂ Te ₃ and Bi ₂ Te ₃ based thermopower wave sources. 2011 , 4, 3558	66
2204	Flexible graphene/MnO ₂ composite papers for supercapacitor electrodes. 2011 , 21, 14706	344
2203	MnO ₂ assisted oxidative polymerization of aniline on graphene sheets: Superior nanocomposite electrodes for electrochemical supercapacitors. 2011 , 21, 16216	60
2202	Supercapacitors: Electrode Materials Aspects. 2011 ,	2
2201	Graphene-based nanomaterials for energy storage. 2011 , 4, 668-674	1042
2200	The role of nanomaterials in redox-based supercapacitors for next generation energy storage devices. 2011 , 3, 839-55	681
2199	Polyaniline-Coated Electro-Etched Carbon Fiber Cloth Electrodes for Supercapacitors. 2011 , 115, 23584-23590	196
2198	Physics and applications of aligned carbon nanotubes. 2011 , 60, 553-678	108
2197	Pyrolyzed graphene oxide/resorcinol-formaldehyde resin composites as high-performance supercapacitor electrodes. 2011 , 21, 2663	78
2196	Surfactant-intercalated, chemically reduced graphene oxide for high performance supercapacitor electrodes. 2011 , 21, 7302	243
2195	Graphene nanoplatelets supported MnO ₂ nanoparticles for electrochemical supercapacitor. 2011 , 161, 2049-2054	34
2194	Facilitated ion transport in all-solid-state flexible supercapacitors. 2011 , 5, 7205-13	409
2193	Synthesis and Capacitive Properties of Manganese Oxide Nanosheets Dispersed on Functionalized Graphene Sheets. 2011 , 115, 6448-6454	332

2192	Binder-free manganese oxide/carbon nanomaterials thin film electrode for supercapacitors. 2011 , 3, 4185-9	33
2191	Intercalation of mesoporous carbon spheres between reduced graphene oxide sheets for preparing high-rate supercapacitor electrodes. 2011 , 4, 1866	394
2190	A high-performance asymmetric supercapacitor fabricated with graphene-based electrodes. 2011 , 4, 4009	666
2189	Effects of Pore Size and Pore Loading on the Properties of Ionic Liquids Confined Inside Nanoporous CMK-3 Carbon Materials. 2011 , 115, 3034-3042	55
2188	Heterogeneity in the Dynamics of the Ionic Liquid [BMIM+][PF6] Confined in a Slit Nanopore. 2011 , 115, 16544-16554	74
2187	Supercapacitor Capacitance Exhibits Oscillatory Behavior as a Function of Nanopore Size. 2011 , 2, 2859-2864	263
2186	Ultrathin planar graphene supercapacitors. 2011 , 11, 1423-7	1020
2185	Graphene and carbon nanotube composite electrodes for supercapacitors with ultra-high energy density. 2011 , 13, 17615-24	525
2184	A "counter-charge layer in generalized solvents" framework for electrical double layers in neat and hybrid ionic liquid electrolytes. 2011 , 13, 14723-34	75
2183	HCl Treatment on Micropore and Mesopore Structures of Carbon Cryogels from Resorcinol and Formaldehyde. 2011 , 44, 110-117	1
2182	Synthesis of hydrothermally reduced graphene/MnO ₂ composites and their electrochemical properties as supercapacitors. 2011 , 196, 8160-8165	182
2181	Preparation of activated carbon from sorghum pith and its structural and electrochemical properties. 2011 , 46, 413-419	70
2180	TiN/VN composites with core/shell structure for supercapacitors. 2011 , 46, 835-839	59
2179	New concept of in situ carbide-derived carbon/xerogel nanocomposite materials for electrochemical capacitor. 2011 , 65, 1392-1395	8
2178	High voltage supercapacitors using hydrated graphene film in a neutral aqueous electrolyte. 2011 , 13, 1166-1169	61
2177	Coaxial carbon nanofibers/MnO ₂ nanocomposites as freestanding electrodes for high-performance electrochemical capacitors. 2011 , 56, 9240-9247	154
2176	A main group metal sandwich: five lithium cations jammed between two corannulene tetraanion decks. 2011 , 333, 1008-11	187
2175	Graphene nanoplate-MnO ₂ composites for supercapacitors: a controllable oxidation approach. 2011 , 3, 3185-91	107

2174	Exfoliated graphite nanosheets/carbon nanotubes hybrid materials for superior performance supercapacitors. 2011 , 15, 1179-1184	35
2173	Nanoporous MnOx thin-film electrodes synthesized by electrochemical lithiation/delithiation for supercapacitors. 2011 , 196, 2398-2402	16
2172	Binder-free activated carbon/carbon nanotube paper electrodes for use in supercapacitors. 2011 , 4, 870-881	154
2171	Enhanced field emission and improved supercapacitor obtained from plasma-modified bucky paper. 2011 , 7, 688-93	26
2170	Facile approach to prepare nickel cobaltite nanowire materials for supercapacitors. 2011 , 7, 2454-9	381
2169	Preparation of novel 3D graphene networks for supercapacitor applications. 2011 , 7, 3163-8	925
2168	Co3O4 Nanowire@MnO2 ultrathin nanosheet core/shell arrays: a new class of high-performance pseudocapacitive materials. 2011 , 23, 2076-81	1176
2167	Carbon materials for chemical capacitive energy storage. 2011 , 23, 4828-50	2273
2166	Synthesis of Partially Graphitic Ordered Mesoporous Carbons with High Surface Areas. 2011 , 1, 115-123	147
2165	A Self-Template Strategy for the Synthesis of Mesoporous Carbon Nanofibers as Advanced Supercapacitor Electrodes. 2011 , 1, 382-386	327
2164	High-Performance Supercapacitors Based on Nanocomposites of Nb2O5 Nanocrystals and Carbon Nanotubes. 2011 , 1, 1089-1093	285
2163	An All-Solid-State Flexible Micro-supercapacitor on a Chip. 2011 , 1, 1068-1072	315
2162	Nanogold Spacing of Stacked Graphene Nanofibers for Supercapacitors. 2011 , 23, 858-861	14
2161	Material advancements in supercapacitors: From activated carbon to carbon nanotube and graphene. 2011 , 89, 1342-1357	129
2160	Carbon nanotubes for sustainable energy applications. 2011 , 4, 913-25	78
2159	Supercapacitive Energy Storage and Electric Power Supply Using an Aza-Fused π -Conjugated Microporous Framework. 2011 , 123, 8912-8916	113
2158	Supercapacitive energy storage and electric power supply using an aza-fused π -conjugated microporous framework. 2011 , 50, 8753-7	427
2157	Thin films of carbon nanotubes and chemically reduced graphenes for electrochemical micro-capacitors. 2011 , 49, 457-467	237

2156	Preparation, structure and supercapacitance of bonded carbon nanofiber electrode materials. 2011 , 49, 2380-2388	179
2155	Low-cost production of mesoporous carbon/carbon composite cryogels. 2011 , 49, 3404-3411	18
2154	Fabrication and electrochemical characterization of polyaniline nanorods modified with sulfonated carbon nanotubes for supercapacitor applications. 2011 , 56, 1366-1372	110
2153	Preparation and characterisation of poly(3,4-ethylenedioxythiophene) and poly(3,4-ethylenedioxythiophene)/poly(neutral red) modified carbon film electrodes, and application as sensors for hydrogen peroxide. 2011 , 56, 3685-3692	33
2152	Nanosheets based mesoporous NiO microspherical structures via facile and template-free method for high performance supercapacitors. 2011 , 56, 4849-4857	255
2151	Synthesis of boron/nitrogen substituted carbons for aqueous asymmetric capacitors. 2011 , 56, 5369-5375	23
2150	Simulation of electric double layer capacitors with mesoporous electrodes: Effects of morphology and electrolyte permittivity. 2011 , 56, 6189-6197	60
2149	Improvement of the performance for quasi-solid-state supercapacitor by using PVA/KOH/KCl polymer gel electrolyte. 2011 , 56, 6881-6886	229
2148	Matrix circuit model for an electric double layer capacitor. 2011 , 196, 865-867	
2147	Asymmetric capacitance response from the chemical characteristics of activated carbons in KOH electrolyte. 2011 , 659, 161-167	23
2146	Carbonization-assisted integration of silica nanowires to photoresist-derived three-dimensional carbon microelectrode arrays. 2011 , 22, 465601	4
2145	Graphitization of n-type polycrystalline silicon carbide and its application for micro-supercapacitors. 2011 ,	
2144	Asymmetric electrochemical capacitors stretching the limits of aqueous electrolytes. 2011 , 36, 513-522	327
2143	Graphitization of n-type polycrystalline silicon carbide for on-chip supercapacitor application. 2011 , 99, 112104	35
2142	Macroporous Carbon Monoliths with Large Surface Area for Electric Double-Layer Capacitor. 2011 , 1304, 1	
2141	Conducting Polymer Functionalized Single-Walled Carbon Nanotubes: Synthesis, Morphological Characteristics and Thermal Stability. 2011 , 306-307, 1182-1185	
2140	Activated Nitrogen-Enriched Carbon/Reduced Expanded Graphite Composites for Supercapacitors. 2011 , 211-212, 440-444	2
2139	Development of an Ordered Mesoporous Carbon/MoO ₂ Nanocomposite for High Performance Supercapacitor Electrode. 2011 , 14, A157	24

2138	Synthesis, characterization and capacitive performance of hydrous manganese dioxide nanostructures. 2011 , 22, 125703	36
2137	Study on the Application of N,N'-1-Ethyl-4-Butyl, Triethylene and Diamine Hexafluorophosphate in Supercapacitors. 2012 , 535-537, 2061-2064	
2136	Supercapacitor impedance in time and frequency domains. 2012 ,	4
2135	Effects of the catalyst and substrate thickness on the carbon nanotubes/nanofibers as supercapacitor electrodes. 2012 , 86, 065603	3
2134	Electrochemical Properties of Nitrogen-Enriched Templated Microporous Carbons in Different Aqueous Electrolytes. 2012 , 571, 27-37	
2133	Dipolar depletion effect on the differential capacitance of carbon-based materials. 2012 , 98, 60003	11
2132	Integrated energy storage and electrochromic function in one flexible device: an energy storage smart window. 2012 , 5, 8384	288
2131	Graphene-based materials for energy applications. 2012 , 37, 1265-1272	113
2130	Graphene-based hybrid materials and their applications in energy storage and conversion. 2012 , 57, 2983-2994	45
2129	Synthesis of high-charge capacity triarylamine- π -hiophene redox electrodes using electrochemical copolymerization. 2012 , 22, 25447	18
2128	A high density of vertically-oriented graphenes for use in electric double layer capacitors. 2012 , 50, 5481-5488	117
2127	Transparent, flexible supercapacitors from nano-engineered carbon films. 2012 , 2, 773	177
2126	Review of Electrochemical Capacitors Based on Carbon Nanotubes and Graphene. 2012 , 01, 1-13	88
2125	Influence of structure and wettability of supercapacitor electrodes carbon materials on their electrochemical properties in water and organic solutions. 2012 , 86, 255-259	32
2124	Composite membranes based on sulfonated poly(ether ether ketone) and SDBS-adsorbed graphene oxide for direct methanol fuel cells. 2012 , 22, 24862	165
2123	Optimierte Metallschäume für elektrische Leistungs- und Energiespeicher. 2012 , 7, 164-169	
2122	Preparation and electrochemical performances of doughnut-like Ni(OH) $_2$ /Co(OH) $_2$ composites as pseudocapacitor materials. 2012 , 4, 4498-503	163
2121	A Versatile, Ultralight, Nitrogen-Doped Graphene Framework. 2012 , 124, 11533-11537	262

2120	A versatile, ultralight, nitrogen-doped graphene framework. 2012 , 51, 11371-5	663
2119	A 3D hexaporous carbon assembled from single-layer graphene as high performance supercapacitor. 2012 , 5, 2159-64	68
2118	Synthesis of Porous NiO/Reduced Graphene Oxide Composites for Supercapacitors. 2012 , 159, A990-A994	30
2117	Multilayered graphene membrane as an experimental platform to probe nano-confined electrosorption. 2012 , 22, 668-672	9
2116	Optimised metal foams for electrical power and energy storage. 2012 , 7, 4-9	1
2115	The Fabrication of MnO ₂ Nanoparticle for Supercapacitor Application. 2012 , 268-270, 164-167	1
2114	Enhancement of the electrocapacitive performance of manganese dioxide by introducing a microporous carbon spheres network. 2012 , 14, 5966-72	27
2113	Formation of graphitic tubules from ordered mesoporous carbon and their effect on supercapacitive energy storage. 2012 , 22, 21472	27
2112	Integration of silica nanowires to carbon MEMS for glucose sensors. 2012 ,	
2111	Self-assembly of well-ordered whisker-like manganese oxide arrays on carbon fiber paper and its application as electrode material for supercapacitors. 2012 , 22, 8634	231
2110	Reversible transient hydrogen storage in a fuel cell-supercapacitor hybrid device. 2012 , 14, 3816-24	10
2109	Sustainable nitrogen-doped porous carbon with high surface areas prepared from gelatin for supercapacitors. 2012 , 22, 19088	331
2108	Rational synthesis of MnO ₂ /conducting polypyrrole@carbon nanofiber triaxial nano-cables for high-performance supercapacitors. 2012 , 22, 16943	177
2107	Hierarchical porous nanostructures assembled from ultrathin MnO ₂ nanoflakes with enhanced supercapacitive performances. 2012 , 22, 2751-2756	127
2106	Out-of-plane growth of CNTs on graphene for supercapacitor applications. 2012 , 23, 015301	123
2105	Carbon-nanoparticles encapsulated in hollow nickel oxides for supercapacitor application. 2012 , 22, 16376	141
2104	Block copolymer assisted synthesis of porous Ni(OH) ₂ microflowers with high surface areas as electrochemical pseudocapacitor materials. 2012 , 48, 9150-2	119
2103	New Insights into the Relationship between Micropore Properties, Ionic Sizes, and Electric Double-Layer Capacitance in Monolithic Carbon Electrodes. 2012 , 116, 26197-26203	35

2102	On the Influence of Pore Size and Pore Loading on Structural and Dynamical Heterogeneities of an Ionic Liquid Confined in a Slit Nanopore. 2012 , 116, 5169-5181	79
2101	Self-assembled spongy-like MnO ₂ electrode materials for supercapacitors. 2012 , 45, 103-108	14
2100	Nanostructured all-solid-state supercapacitor based on Li ₂ S-P ₂ S ₅ glass-ceramic electrolyte. 2012 , 100, 103902	49
2099	A review of electrode materials for electrochemical supercapacitors. <i>Chemical Society Reviews</i> , 2012 , 41, 797-828	58.5 6816
2098	3D macroporous graphene frameworks for supercapacitors with high energy and power densities. 2012 , 6, 4020-8	1082
2097	Hybrid multilayer thin film supercapacitor of graphene nanosheets with polyaniline: importance of establishing intimate electronic contact through nanoscale blending. 2012 , 22, 21092	154
2096	Electrochemistry of Q-graphene. 2012 , 4, 6470-80	38
2095	KOH activation of carbon-based materials for energy storage. 2012 , 22, 23710	1696
2094	High-performance sodium-ion pseudocapacitors based on hierarchically porous nanowire composites. 2012 , 6, 4319-27	574
2093	Mn ₂ O ₃ decorated graphene nanosheet: An advanced material for the photocatalytic degradation of organic dyes. 2012 , 177, 855-861	48
2092	Hierarchical composites of sulfonated graphene-supported vertically aligned polyaniline nanorods for high-performance supercapacitors. 2012 , 215, 36-42	97
2091	Effect of reduced graphene oxide on the properties of an activated carbon cloth/polyaniline flexible electrode for supercapacitor application. 2012 , 217, 6-12	90
2090	Microstructure and supercapacitive properties of busenite-type manganese oxide with a large basal spacing. 2012 , 216, 425-433	24
2089	Characterization of commercial supercapacitors for low temperature applications. 2012 , 219, 235-239	69
2088	Preparation, surface characteristics, and electrochemical double-layer capacitance of KOH-activated carbon aerogels and their O- and N-doped derivatives. 2012 , 219, 80-88	61
2087	NH ₃ -activated polyaniline for use as a high performance electrode material in supercapacitors. 2012 , 78, 340-346	20
2086	Lithium perchlorate doped plasticized chitosan and starch blend as biodegradable polymer electrolyte for supercapacitors. 2012 , 78, 398-405	107
2085	Dual-heteroatom-modified ordered mesoporous carbon: Hydrothermal functionalization, structure, and its electrochemical performance. 2012 , 22, 4963	99

2084	Nitrogen doping of graphene and its effect on quantum capacitance, and a new insight on the enhanced capacitance of N-doped carbon. 2012 , 5, 9618	307
2083	Graphene-based electrodes. 2012 , 24, 5979-6004	756
2082	Preparation and Enhanced Electrochemical Performance of MnO ₂ Nanosheets for Supercapacitors. 2012 , 59, 1275-1279	7
2081	Preparation of Poly(sodium-4-styrene sulfonate) Functionalized Graphene/Manganese Dioxide Composites for Supercapacitor Application with Superior Cycling Stability. 2012 , 59, 1351-1356	3
2080	Chemical vapor-deposited carbon nanofibers on carbon fabric for supercapacitor electrode applications. 2012 , 7, 651	43
2079	Catechol-modified activated carbon prepared by the diazonium chemistry for application as active electrode material in electrochemical capacitor. 2012 , 4, 3788-96	95
2078	Electrochemically active nitrogen-enriched nanocarbons with well-defined morphology synthesized by pyrolysis of self-assembled block copolymer. 2012 , 134, 14846-57	327
2077	A Skeleton/skin strategy for preparing ultrathin free-standing single-walled carbon nanotube/polyaniline films for high performance supercapacitor electrodes. 2012 , 5, 8726	282
2076	Electrochemical assembly of MnO ₂ in ionic liquid-graphene films into a hierarchical structure for high rate capability and long cycle stability of pseudocapacitors. 2012 , 4, 5394-400	46
2075	Nanoporous carbons through direct carbonization of a zeolitic imidazolate framework for supercapacitor electrodes. 2012 , 48, 7259-61	559
2074	Electrochemical Supercapacitors. 2012 , 317-382	10
2073	In situ synthesized heteropoly acid/polyaniline/graphene nanocomposites to simultaneously boost both double layer- and pseudo-capacitance for supercapacitors. 2012 , 14, 12823-8	64
2072	Effect of 1- Pyrene Carboxylic-Acid Functionalization of Graphene on Its Capacitive Energy Storage. 2012 , 116, 20688-20693	73
2071	Nanostructured MnO ₂ /graphene composites for supercapacitor electrodes: the effect of morphology, crystallinity and composition. 2012 , 22, 1845-1851	228
2070	Interfacial Synthesis and Supercapacitive Performance of Hierarchical Sulfonated Carbon Nanotubes/Polyaniline Nanocomposites. 2012 , 51, 3981-3987	33
2069	High performance of a solid-state flexible asymmetric supercapacitor based on graphene films. 2012 , 4, 4983-8	285
2068	Towards the upper bound of electrochemical performance of ACNT@polyaniline arrays as supercapacitors. 2012 , 5, 5833-5841	72
2067	Conducting Polymers Directly Coated on Reduced Graphene Oxide Sheets as High-Performance Supercapacitor Electrodes. 2012 , 116, 5420-5426	581

- 2066 Supercapacitive behaviors of activated mesocarbon microbeads coated with polyaniline. **2012**, 37, 14365-14373
- 2065 Morphology control and thermal stability of binderless-graphene aerogels from graphite for energy storage applications. **2012**, 414, 352-358 68
- 2064 Homogeneous growth of nano-sized Ni(OH)₂ on reduced graphene oxide for high-performance supercapacitors. **2012**, 81, 321-329 89
- 2063 Development of redox deposition of birnessite-type MnO₂ on activated carbon as high-performance electrode for hybrid supercapacitors. **2012**, 137, 290-296 58
- 2062 The simple preparation of birnessite-type manganese oxide with flower-like microsphere morphology and its remarkable capacity retention. **2012**, 47, 3533-3537 17
- 2061 Nanostructured activated carbons from natural precursors for electrical double layer capacitors. **2012**, 1, 552-565 392
- 2060 Graphene-polymer composites. **2012**, 40, 012018 8
- 2059 High-performance supercapacitor material based on Ni(OH)₂ nanowire-MnO₂ nanoflakes core-shell nanostructures. **2012**, 48, 2606-8 221
- 2058 Terephthalonitrile-derived nitrogen-rich networks for high performance supercapacitors. **2012**, 5, 9747 154
- 2057 Curvature Effect on the Capacitance of Electric Double Layers at Ionic Liquid/Onion-Like Carbon Interfaces. **2012**, 8, 1058-63 104
- 2056 Template-free approach to synthesize hierarchical porous nickel cobalt oxides for supercapacitors. **2012**, 4, 6786-91 90
- 2055 Superhydrophobic Graphene/Nafion Nanohybrid Films with Hierarchical Roughness. **2012**, 116, 3207-3211 61
- 2054 Redox-active alkaline electrolyte for carbon-based supercapacitor with pseudocapacitive performance and excellent cyclability. **2012**, 2, 6736 125
- 2053 Between Molecule and Solid. **2012**, 379-394
- 2052 Composite electronic materials based on poly(3,4-propylenedioxythiophene) and highly charged poly(aryleneethynylene)-wrapped carbon nanotubes for supercapacitors. **2012**, 4, 102-9 44
- 2051 Graphene metal oxide composite supercapacitor electrodes. **2012**, 30, 03D118 25
- 2050 Bacteria promoted hierarchical carbon materials for high-performance supercapacitor. **2012**, 5, 6206 151
- 2049 Structure and Dynamics of an Ionic Liquid Confined Inside a Charged Slit Graphitic Nanopore. **2012**, 116, 14504-14513 54

2048	Hydrothermal Synthesis of Hematite Nanoparticles and Their Electrochemical Properties. 2012 , 116, 16276-16285	165
2047	Integrated synthesis of poly(o-phenylenediamine)-derived carbon materials for high performance supercapacitors. 2012 , 24, 6524-9	160
2046	Ultrathin MnO ₂ nanofibers grown on graphitic carbon spheres as high-performance asymmetric supercapacitor electrodes. 2012 , 22, 153-160	503
2045	Carbon nanostructures: A morphological classification for charge density optimization. 2012 , 23, 130-134	26
2044	Percolation effects in supercapacitors with thin, transparent carbon nanotube electrodes. 2012 , 6, 1732-41	80
2043	Introduction to Structural Chemistry. 2012 ,	35
2042	Potential Applications of Carbon Nanotube Arrays. 2012 , 255-290	
2041	High-cell-voltage supercapacitor of carbon nanotube/carbon cloth operating in neutral aqueous solution. 2012 , 22, 3383	112
2040	Laser scribing of high-performance and flexible graphene-based electrochemical capacitors. 2012 , 335, 1326-30	3197
2039	Synthesis of nitrogen-doped porous carbon nanofibers as an efficient electrode material for supercapacitors. 2012 , 6, 7092-102	1422
2038	Ultrahigh-rate supercapacitors based on electrochemically reduced graphene oxide for ac line-filtering. 2012 , 2, 247	494
2037	Surface chemistry of ruthenium dioxide in heterogeneous catalysis and electrocatalysis: from fundamental to applied research. 2012 , 112, 3356-426	484
2036	An overview of the applications of graphene-based materials in supercapacitors. 2012 , 8, 1805-34	1082
2035	Mesoporous carbon incorporated metal oxide nanomaterials as supercapacitor electrodes. 2012 , 24, 4197-202	501
2034	Two-dimensional nanoarchitectures for lithium storage. 2012 , 24, 4097-111	444
2033	Towards textile energy storage from cotton T-shirts. 2012 , 24, 3246-52	424
2032	Templated nanocarbons for energy storage. 2012 , 24, 4473-98	588
2031	Carbonized Chicken Eggshell Membranes with 3D Architectures as High-Performance Electrode Materials for Supercapacitors. 2012 , 2, 431-437	510

2030	High Energy Density Supercapacitor Based on a Hybrid Carbon NanotubeReduced Graphite Oxide Architecture. 2012 , 2, 438-444	169
2029	Recent Progress in Non-Precious Catalysts for Metal-Air Batteries. 2012 , 2, 816-829	570
2028	CoreShell Structure of Polypyrrole Grown on V2O5 Nanoribbon as High Performance Anode Material for Supercapacitors. 2012 , 2, 950-955	434
2027	On the configuration of supercapacitors for maximizing electrochemical performance. 2012 , 5, 818-41	359
2026	Three-dimensional hierarchically ordered porous carbons with partially graphitic nanostructures for electrochemical capacitive energy storage. 2012 , 5, 563-71	132
2025	Incorporation of manganese dioxide within ultraporous activated graphene for high-performance electrochemical capacitors. 2012 , 6, 5404-12	323
2024	Hierarchically aminated graphene honeycombs for electrochemical capacitive energy storage. 2012 , 22, 14076	239
2023	Synthesis of a porous birnessite manganese dioxide hierarchical structure using thermally reduced graphene oxide paper as a sacrificing template for supercapacitor application. 2012 , 36, 1490	44
2022	Electrochemical recycling of cobalt from spent cathodes of lithium-ion batteries: its application as supercapacitor. 2012 , 42, 361-366	36
2021	Electrochemical capacitive properties of CNT fibers spun from vertically aligned CNT arrays. 2012 , 16, 1775-1780	49
2020	Nanostructured Fe2O3graphene composite as a novel electrode material for supercapacitors. 2012 , 16, 2095-2102	158
2019	Preparation of activated carbon from waste Camellia oleifera shell for supercapacitor application. 2012 , 16, 2179-2186	76
2018	Investigation of the electrode molding technologies for the carbon-based supercapacitors. 2012 , 16, 2541-2546	2
2017	Electrochemical performance of carbon gels with variable surface chemistry and physics. 2012 , 50, 3324-3332	42
2016	CVD generated mesoporous hollow carbon spheres as supercapacitors. 2012 , 396, 246-250	58
2015	Fabrication of magnetically separable palladiumgraphene nanocomposite with unique catalytic property of hydrogenation. 2012 , 519-520, 59-63	36
2014	Ordered mesoporous carbon nanoparticles with well-controlled morphologies from sphere to rod via a soft-template route. 2012 , 377, 169-75	67
2013	Graphene materials preparation methods have dramatic influence upon their capacitance. 2012 , 14, 5-8	88

2012	Graphene/carbon nanotube composites not exhibiting synergic effect for supercapacitors: The resulting capacitance being average of capacitance of individual components. 2012 , 17, 45-47	35
2011	One-step electrochemical composite polymerization of polypyrrole integrated with functionalized graphene/carbon nanotubes nanostructured composite film for electrochemical capacitors. 2012 , 62, 132-139	33
2010	Physical interpretation of cyclic voltammetry for measuring electric double layer capacitances. 2012 , 64, 130-139	101
2009	Synthesis of reduced graphene nanosheet/urchin-like manganese dioxide composite and high performance as supercapacitor electrode. 2012 , 69, 112-119	130
2008	Preparation and electrochemical capacitance of hierarchical graphene/polypyrrole/carbon nanotube ternary composites. 2012 , 69, 160-166	83
2007	The production of porous carbon from calcium lignosulfonate without activation process and the capacitive performance. 2012 , 71, 92-99	28
2006	Synthesis and electrochemical performance of MnO ₂ /CNTs embedded carbon nanofibers nanocomposites for supercapacitors. 2012 , 75, 213-219	76
2005	Pore structure and electrochemical performances of tannin-based carbon cryogels. 2012 , 39, 274-282	54
2004	Activated carbons from KOH-activation of argan (<i>Argania spinosa</i>) seed shells as supercapacitor electrodes. 2012 , 111, 185-90	305
2003	Effect of Fe ³⁺ on the synthesis and electrochemical performance of nanostructured MnO ₂ . 2012 , 133, 437-444	10
2002	A novel hydrochar and nickel composite for the electrochemical supercapacitor electrode material. 2012 , 74, 111-114	34
2001	Exfoliated graphite nanoplatelets/VO ₂ nanotube composite electrodes for supercapacitors. 2012 , 203, 227-232	99
2000	A novel redox-mediated gel polymer electrolyte for high-performance supercapacitor. 2012 , 198, 402-407	228
1999	Preparation and capacitance performance of Ag/graphene based nanocomposite. 2012 , 201, 376-381	70
1998	Supercapacitive behavior and high cycle stability of todorokite-type manganese oxide with large tunnels. 2012 , 203, 233-242	40
1997	In situ synthesis of polyaniline/sodium carboxymethyl cellulose nanorods for high-performance redox supercapacitors. 2012 , 211, 40-45	83
1996	Improving the electrocapacitive properties of mesoporous CMK-5 carbon with carbon nanotubes and nitrogen doping. 2012 , 147, 86-93	48
1995	Carbon tunnels formed in carbon/carbon composite cryogels. 2012 , 153, 47-54	13

1994	Preparation of sucrose-based microporous carbons and their application as electrode materials for supercapacitors. 2012 , 156, 176-180	52
1993	An activation-free protocol for preparing porous carbon from calcium citrate and the capacitive performance. 2012 , 158, 155-161	48
1992	Zero-dimensional, one-dimensional, two-dimensional and three-dimensional nanostructured materials for advanced electrochemical energy devices. 2012 , 57, 724-803	704
1991	Nickel nanoparticles prepared by hydrazine hydrate reduction and their application in supercapacitor. 2012 , 224, 162-167	83
1990	Improved capacitance characteristics of activated carbon-based electrodes by physicochemical base-tuning. 2012 , 18, 642-647	14
1989	Supercapacitors based on c-type cytochromes using conductive nanostructured networks of living bacteria. 2012 , 13, 463-8	135
1988	Application of Carbon Nanotubes Directly Grown on Aluminum Foils as Electric Double Layer Capacitor Electrodes. 2012 , 18, 53-60	25
1987	Facile Synthesis of Porous Mn ₃ O ₄ Nano-crystal/Graphene Nanocomposites for Electrochemical Supercapacitors. 2012 , 2012, 628-635	107
1986	Hierarchical Nanocomposites Derived from Nanocarbons and Layered Double Hydroxides - Properties, Synthesis, and Applications. 2012 , 22, 675-694	477
1985	Freestanding single-walled carbon nanotube bundle networks: Fabrication, properties and composites. 2012 , 57, 205-224	23
1984	Effect of annealing on the supercapacitor performance of CuO-PAA/CNT films. 2012 , 16, 25-33	20
1983	Supercapacitor and nanoscale research towards electrochemical energy storage. 2013 , 4, 2-26	43
1982	Role of Oxygen Functional Groups in Carbon Nanotube/Graphene Freestanding Electrodes for High Performance Lithium Batteries. 2013 , 23, 1037-1045	264
1981	Polyaniline-carbon nanofiber composite by a chemical grafting approach and its supercapacitor application. 2013 , 5, 8374-86	102
1980	Electrochemical Characterisation of Poly(aniline-co-N-methylaniline) and Poly(aniline-co-N-ethylaniline) Films on Pencil Graphite Electrode for Supercapacitor Applications. 2013 , 66, 825	2
1979	Preparation and characterization of polypyrrole/graphene nanocomposite films and their electrochemical performance. 2013 , 20, 1	54
1978	Synthesis of graphene/NiFe ₂ O ₄ nanocomposites and their electrochemical capacitive behavior. 2013 , 1, 6393	141
1977	A high-performance asymmetric supercapacitor based on carbon and carbon/MnO ₂ nanofiber electrodes. 2013 , 61, 190-199	264

1976	Carbon nanotube sponges as conductive networks for supercapacitor devices. 2013 , 2, 1025-1030	54
1975	Scaling laws for carbon-based electric double layer capacitors. 2013 , 109, 316-321	14
1974	2D single- or double-layered vanadium oxide nanosheet assembled 3D microflowers: controlled synthesis, growth mechanism, and applications. 2013 , 5, 7790-4	20
1973	Morphology-Dependent Enhancement of the Pseudocapacitance of Template-Guided Tunable Polyaniline Nanostructures. 2013 , 117, 15009-15019	81
1972	Interaction of electrolyte molecules with carbon materials of well-defined porosity: characterization by solid-state NMR spectroscopy. 2013 , 15, 15177-84	76
1971	Hierarchical composites of polyaniline-graphene nanoribbons-carbon nanotubes as electrode materials in all-solid-state supercapacitors. 2013 , 5, 7312-20	161
1970	Graphene/polypyrrole nanofiber nanocomposite as electrode material for electrochemical supercapacitor. 2013 , 54, 1033-1042	142
1969	Doping carbons beyond nitrogen: an overview of advanced heteroatom doped carbons with boron, sulphur and phosphorus for energy applications. 2013 , 6, 2839	1320
1968	Dynamic electrosorption analysis: a viable liquid-phase characterization method for porous carbon?. 2013 , 1, 9332	8
1967	Synthesis and supercapacitor performance studies of N-doped graphene materials using o-phenylenediamine as the double-N precursor. 2013 , 63, 508-516	165
1966	Platelet CMK-5 as an excellent mesoporous carbon to enhance the pseudocapacitance of polyaniline. 2013 , 5, 7501-8	47
1965	A novel core-shell multi-walled carbon nanotube@graphene oxide nanoribbon heterostructure as a potential supercapacitor material. 2013 , 1, 11237	80
1964	Nanocomposite of polyaniline nanorods grown on graphene nanoribbons for highly capacitive pseudocapacitors. 2013 , 5, 6622-7	155
1963	Deposition of three-dimensional graphene aerogel on nickel foam as a binder-free supercapacitor electrode. 2013 , 5, 7122-9	238
1962	Flexible Supercapacitors Development of Bendable Carbon Architectures. 2013 , 101-141	4
1961	Graphite oxide/polypyrrole composite electrodes for achieving high energy density supercapacitors. 2013 , 43, 773-782	42
1960	Optimizing reaction condition for synthesizing spinnable carbon nanotube arrays by chemical vapor deposition. 2013 , 48, 7749-7756	15
1959	Rapid microwave synthesis of MnO ₂ microspheres and their electrochemical property. 2013 , 24, 2189-2196	12

1958	Electrochemical performance of conducting polymer and its nanocomposites prepared by chemical vapor phase polymerization method. 2013 , 24, 2245-2253	21
1957	An overview of carbon materials for flexible electrochemical capacitors. 2013 , 5, 8799-820	235
1956	Molecular simulations of supercritical fluid permeation through disordered microporous carbons. 2013 , 29, 9985-90	27
1955	Conjugated microporous polymers: design, synthesis and application. <i>Chemical Society Reviews</i> , 2013 , 42, 8012-31	58.5 1242
1954	Solid-state high performance flexible supercapacitors based on polypyrrole-MnO ₂ -carbon fiber hybrid structure. 2013 , 3, 2286	238
1953	3D porous layered double hydroxides grown on graphene as advanced electrochemical pseudocapacitor materials. 2013 , 1, 9046	165
1952	Studies on electrical double layer capacitor with a low-viscosity ionic liquid 1-ethyl-3-methylimidazolium tetracyanoborate as electrolyte. 2013 , 36, 729-733	22
1951	The production of activated carbon from cation exchange resin for high-performance supercapacitor. 2013 , 17, 1749-1758	17
1950	Synthesis of micro- and mesoporous carbon spheres for supercapacitor electrode. 2013 , 17, 2293-2301	86
1949	Graphene and Nanostructured Mn ₃ O ₄ Composites for Supercapacitors. 2013 , 144, 118-126	19
1948	Porous tubular carbon nanorods with excellent electrochemical properties. 2013 , 1, 12198	44
1947	Hollow NiO nanofibers modified by citric acid and the performances as supercapacitor electrode. 2013 , 92, 197-204	144
1946	A coaxial single fibre supercapacitor for energy storage. 2013 , 15, 12215-9	84
1945	Supercapacitor performance of hollow carbon spheres by direct pyrolysis of melamine-formaldehyde resin spheres. 2013 , 29, 735-742	13
1944	A One-Step and Binder-Free Method to Fabricate Hierarchical Nickel-Based Supercapacitor Electrodes with Excellent Performance. 2013 , 23, 3675-3681	136
1943	Adsorption Properties. 2013 , 25-44	6
1942	Planar thin film supercapacitor based on cluster-assembled nanostructured carbon and ionic liquid electrolyte. 2013 , 59, 212-220	44
1941	Nanosized MnO ₂ spines on Au stems for high-performance flexible supercapacitor electrodes. 2013 , 1, 13301	32

1940	Hierarchical Porous Materials for Supercapacitors. 2013 , 750-752, 894-898	2
1939	Cable-type supercapacitors of three-dimensional cotton thread based multi-grade nanostructures for wearable energy storage. 2013 , 25, 4925-31	247
1938	Electrochemical reduction of ultrathin graphene oxide/polyaniline films for supercapacitor electrodes with a high specific capacitance. 2013 , 436, 967-974	40
1937	Composite organogels of graphene and activated carbon for electrochemical capacitors. 2013 , 1, 9196	58
1936	High-energy-density nonaqueous MnO ₂ @nanoporous gold based supercapacitors. 2013 , 1, 9202	78
1935	Co-electro-deposition of the MnO ₂ @PEDOT:PSS nanostructured composite for high areal mass, flexible asymmetric supercapacitor devices. 2013 , 1, 12432	133
1934	Influence of reactivation on the electrochemical performances of activated carbon based on coconut shell. 2013 , 25 Suppl 1, S110-7	11
1933	Electrochemical performance of graphene-polyethylenedioxythiophene nanocomposites. 2013 , 178, 1152-1157	18
1932	High-performance flexible solid-state supercapacitors based on MnO ₂ -decorated nanocarbon electrodes. 2013 , 3, 20613	32
1931	Microwave self-assembly of 3D graphene-carbon nanotube-nickel nanostructure for high capacity anode material in lithium ion battery. 2013 , 64, 527-536	79
1930	Dynamic electrosorption analysis as an effective means to characterise the structure of bulk graphene assemblies. 2013 , 19, 3082-9	16
1929	Activated carbon@carbon nanotube nanocomposite coatings for supercapacitor applications. 2013 , 232, 326-330	28
1928	Solvothermal synthesis of Ni(HCO ₃) ₂ /graphene composites toward supercapacitors and the faradiac redox mechanism in KOH solution. 2013 , 581, 217-222	25
1927	Ultrahigh capacitive performance from both Co(OH) ₂ /graphene electrode and KBe(CN) ₄ electrolyte. 2013 , 3, 2986	135
1926	Assembling fabrication and capacitance of manganese oxide nanosheets and functionalized carbon nanotubes hybrid material. 2013 , 429, 91-97	13
1925	Simple synthesis of hierarchically structured partially graphitized carbon by emulsion/block-copolymer co-template method for high power supercapacitors. 2013 , 64, 391-402	81
1924	Ruthenium oxide - single walled carbon nanotube composite based high energy supercapacitor. 2013 ,	2
1923	Three-dimensional ordered macroporous MnO ₂ /carbon nanocomposites as high-performance electrodes for asymmetric supercapacitors. 2013 , 15, 19730-40	92

1922	Graphene/polypyrrole intercalating nanocomposites as supercapacitors electrode. 2013 , 112, 44-52	193
1921	Surface functional groups of carbon nanotubes to manipulate capacitive behaviors. 2013 , 5, 12304-9	36
1920	Improved activity of a graphene//TiO ₂ hybrid electrode in an electrochemical supercapacitor. 2013 , 63, 434-445	234
1919	A carbon quantum dot decorated RuO ₂ network: outstanding supercapacitances under ultrafast charge and discharge. 2013 , 6, 3665	247
1918	Stacked multilayers of alternating reduced graphene oxide and carbon nanotubes for planar supercapacitors. 2013 , 5, 11577-81	23
1917	Hole defects and nitrogen doping in graphene: implication for supercapacitor applications. 2013 , 5, 11184-93	110
1916	Molecular Insights into Carbon Supercapacitors Based on Room-Temperature Ionic Liquids. 2013 , 4, 3367-3376	112
1915	Microwave assisted synthesis of MnO ₂ on nickel foam-graphene for electrochemical capacitor. 2013 , 114, 48-53	44
1914	Three-Dimensionally Ordered Mesoporous (3DOM) Carbon Materials as Electrodes for Electrochemical Double-Layer Capacitors with Ionic Liquid Electrolytes. 2013 , 25, 4137-4148	124
1913	A general approach for producing nanoporous carbon, especially as evidenced for the case of adipic acid and zinc. 2013 , 1, 14919	22
1912	One step hydrothermal synthesis of a carbon nanotube/cerium oxide nanocomposite and its electrochemical properties. 2013 , 24, 365401	48
1911	Preparation of Chitosan-Based Activated Carbon and Its Electrochemical Performance for EDLC. 2013 , 160, H321-H326	19
1910	Synthesis and electrochemical performances of dispersible polyaniline/sulfonated graphene composite nanosheets. 2013 , 184, 10-15	18
1909	Carbon nanomaterials for high-performance supercapacitors. 2013 , 16, 272-280	476
1908	Structural Perspective on Aggregation of Alkali Metal Ions with Charged Planar and Curved Carbon Surfaces. 2013 , 375-462	35
1907	Carbon nanosheet frameworks derived from peat moss as high performance sodium ion battery anodes. 2013 , 7, 11004-15	705
1906	Nitrogen-Doped Porous Carbon Prepared from Urea Formaldehyde Resins by Template Carbonization Method for Supercapacitors. 2013 , 52, 10181-10188	58
1905	Enhanced electrochemical performance of CoAl-layered double hydroxide nanosheet arrays coated by platinum films. 2013 , 114, 68-75	68

1904	Nitrogen-doped carbon based on peptides of hair as electrode materials for supercapacitors. 2013 , 113, 620-627	44
1903	Tunable N-doped or dual N, S-doped activated hydrothermal carbons derived from human hair and glucose for supercapacitor applications. 2013 , 107, 397-405	249
1902	Manganese oxide/graphene oxide composites for high-energy aqueous asymmetric electrochemical capacitors. 2013 , 110, 228-233	77
1901	Controllable synthesis of 3D NiCo ₂ O ₄ oxides with different morphologies for high-capacity supercapacitors. 2013 , 1, 13290	101
1900	Preparation and electrochemical performances of nanostructured Co _x Ni _{1-x} (OH) ₂ composites for supercapacitors. 2013 , 240, 338-343	47
1899	Green Carbon. 2013 , 1-36	
1898	Superior capacitive and electrocatalytic properties of carbonized nanostructured polyaniline upon a low-temperature hydrothermal treatment. 2013 , 64, 472-486	62
1897	Electrochemical characteristics of discrete, uniform, and monodispersed hollow mesoporous carbon spheres in double-layered supercapacitors. 2013 , 8, 2627-33	17
1896	Three-dimensional graphene-based hierarchically porous carbon composites prepared by a dual-template strategy for capacitive deionization. 2013 , 1, 12334	207
1895	Preparation of a Three-Dimensional Ordered Macroporous Carbon Nanotube/Polypyrrole Composite for Supercapacitors and Diffusion Modeling. 2013 , 117, 20446-20455	56
1894	Titanium dioxide@polypyrrole core-shell nanowires for all solid-state flexible supercapacitors. 2013 , 5, 10806-10	109
1893	Wide electrochemical window of supercapacitors from coffee bean-derived phosphorus-rich carbons. 2013 , 6, 2330-9	111
1892	Easy synthesis of a high surface area, hierarchical porous carbon for high-performance supercapacitors. 2013 , 3, 17500	40
1891	Nitrogen-Doped Porous Carbon Spheres Derived from Polyacrylamide. 2013 , 52, 12025-12031	46
1890	Facile fabrication of self-assembled polyaniline nanotubes doped with d-tartaric acid for high-performance supercapacitors. 2013 , 242, 797-802	59
1889	Flexible and high surface area composites of carbon fiber, polypyrrole, and poly(DMCT) for supercapacitor electrodes. 2013 , 93, 93-100	52
1888	Fabrication of cross-linked carbon nanotube foam using polymethylmethacrylate microspheres as templates. 2013 , 1, 13984	17
1887	Facilitated charge transport in ternary interconnected electrodes for flexible supercapacitors with excellent power characteristics. 2013 , 5, 11733-41	58

- 1886 Coaxial PANI/TiN/PANI nanotube arrays for high-performance supercapacitor electrodes. **2013**, 49, 10172-4 72
- 1885 Hollow, spherical nitrogen-rich porous carbon shells obtained from a porous organic framework for the supercapacitor. **2013**, 5, 10280-7 180
- 1884 One-step solution-phase synthesis of a novel RGO/Cu₂O/TiO₂ ternary nanocomposite with excellent cycling stability for supercapacitors. **2013**, 581, 303-307 24
- 1883 Hierarchical porous graphene/polyaniline composite film with superior rate performance for flexible supercapacitors. **2013**, 25, 6985-90 434
- 1882 Supercapacitor Electrodes Produced through Evaporative Consolidation of Graphene Oxide-Water-Ionic Liquid Gels. **2013**, 160, A1653-A1660 54
- 1881 Synthesis of Hollow and Hierarchical NiO Nanosheets Nanotubes and their Application as Supercapacitor Electrodes. **2013**, 467, 215-220
- 1880 Composite Material of MnO₂ and CNT for Supercapacitor. **2013**, 663, 447-450 1
- 1879 Synthesis and capacitive performance of two-dimensional sandwich-like graphene/nitrogen-doped carbon nanoparticle composites with tunable textural parameters and nitrogen content. **2013**, 37, 4148 11
- 1878 A general conversion of polyacrylate-metal complexes into porous carbons especially evinced in the case of magnesium polyacrylate. **2013**, 1, 4017 21
- 1877 Charge storage properties of SiNWs grown by hot-wire chemical vapor process technique as electrodes in electrochemical capacitors. **2013**,
- 1876 Transparent, flexible, and solid-state supercapacitors based on graphene electrodes. **2013**, 1, 012101 83
- 1875 Phenol resin carbonized films with anisotropic shrinkage driven ordered mesoporous structures. **2013**, 1, 15135 16
- 1874 Mesoporous carbon decorated graphene as an efficient electrode material for supercapacitors. **2013**, 1, 7469 51
- 1873 Carbon nanotube reinforced polypyrrole nanowire network as a high-performance supercapacitor electrode. **2013**, 1, 14943 101
- 1872 Fabrication of Mn/Mn oxide core-shell electrodes with three-dimensionally ordered macroporous structures for high-capacitance supercapacitors. **2013**, 6, 2178 63
- 1871 Facile preparation of transition metal oxide-metal composites with unique nanostructures and their electrochemical performance as energy storage material. **2013**, 1, 14246 15
- 1870 Synthesis of hydrophilic carbon black; role of hydrophilicity in maintaining the hydration level and protonic conduction. **2013**, 3, 3917 27
- 1869 High performance porous carbon through hard-soft dual templates for supercapacitor electrodes. **2013**, 1, 7379 48

1868	Architectural design of hierarchically ordered porous carbons for high-rate electrochemical capacitors. 2013 , 1, 2886	65
1867	Shape-controlled synthesis of nanocarbons through direct conversion of carbon dioxide. 2013 , 3, 3534	63
1866	Graphene-beaded carbon nanofibers for use in supercapacitor electrodes: Synthesis and electrochemical characterization. 2013 , 222, 410-416	145
1865	Effect of temperature on the pseudo-capacitive behavior of freestanding MnO ₂ @carbon nanofibers composites electrodes in mild electrolyte. 2013 , 224, 86-92	153
1864	In situ polymerization and characterization of grafted poly (3,4-ethylenedioxythiophene)/multiwalled carbon nanotubes composite with high electrochemical performances. 2013 , 87, 394-400	49
1863	Nanostructured carbon-metal oxide composite electrodes for supercapacitors: a review. 2013 , 5, 72-88	1608
1862	A high-energy-density supercapacitor with graphene@MK-5 as the electrode and ionic liquid as the electrolyte. 2013 , 1, 2313	165
1861	Nanostructured metal chalcogenides: synthesis, modification, and applications in energy conversion and storage devices. <i>Chemical Society Reviews</i> , 2013 , 42, 2986-3017	58.5 1208
1860	Controlled synthesis of mesoporous carbon nanostructures via a "silica-assisted" strategy. 2013 , 13, 207-12	218
1859	Template synthesis of hollow carbon spheres anchored on carbon nanotubes for high rate performance supercapacitors. 2013 , 52, 209-218	151
1858	Fabrication of porous carbon monoliths with a graphitic framework. 2013 , 56, 155-166	121
1857	In situ intercalative polymerization of pyrrole in graphene analogue of MoS ₂ as advanced electrode material in supercapacitor. 2013 , 229, 72-78	368
1856	WS ₂ nanoparticles@encapsulated amorphous carbon tubes: A novel electrode material for supercapacitors with a high rate capability. 2013 , 28, 75-78	90
1855	Nanostructured morphology control for efficient supercapacitor electrodes. 2013 , 1, 2941-2954	232
1854	A novel electrochemical sensor based on metal-organic framework for electro-catalytic oxidation of L-cysteine. 2013 , 42, 426-9	208
1853	Magnetic field induced capacitance enhancement in graphene and magnetic graphene nanocomposites. 2013 , 6, 194-204	122
1852	A reduced graphene oxide/Co ₃ O ₄ composite for supercapacitor electrode. 2013 , 226, 65-70	397
1851	3D carbon based nanostructures for advanced supercapacitors. 2013 , 6, 41-53	1255

1850	An integrated device for both photoelectric conversion and energy storage based on free-standing and aligned carbon nanotube film. 2013 , 1, 954-958	129
1849	Graphene oxide-filled conducting polyaniline composites as methanol-sensing materials. 2013 , 48, 1729-1739	83
1848	Electrochemical impedance spectroscopy on nanostructured carbon electrodes grown by supersonic cluster beam deposition. 2013 , 15, 1	12
1847	Nitrogen-doped porous carbon for supercapacitor with long-term electrochemical stability. 2013 , 230, 50-58	233
1846	Electrochemical synthesis of layer-by-layer reduced graphene oxide sheets/polyaniline nanofibers composite and its electrochemical performance. 2013 , 91, 185-194	128
1845	Scalable fabrication of high-power graphene micro-supercapacitors for flexible and on-chip energy storage. 2013 , 4, 1475	1376
1844	A reversible redox strategy for SWCNT-based supercapacitors using a high-performance electrolyte. 2013 , 14, 394-9	40
1843	Facilely synthesized Fe ₂ O ₃ /graphene nanocomposite as novel electrode materials for supercapacitors with high performance. 2013 , 552, 486-491	119
1842	In situ growth of ordered polyaniline nanowires on surfactant stabilized exfoliated graphene as high-performance supercapacitor electrodes. 2013 , 185-186, 89-95	34
1841	Nitrogen/manganese oxides doped porous carbons derived from sodium butyl naphthalene sulfonate. 2013 , 398, 176-84	8
1840	Multimodal porous carbon as a highly efficient electrode material in an electric double layer capacitor. 2013 , 182, 1-7	66
1839	3D flowerlike poly(3,4-ethylenedioxythiophene) for high electrochemical capacitive energy storage. 2013 , 106, 219-225	18
1838	A facile approach to synthesis coral-like nanoporous Ni(OH) ₂ and its supercapacitor application. 2013 , 243, 721-727	42
1837	Carbon Nanomaterials for Flexible Energy Storage. 2013 , 1, 175-192	34
1836	Solution blowing of ZnO nanoflake-encapsulated carbon nanofibers as electrodes for supercapacitors. 2013 , 1, 13779	72
1835	Improving Performance of Electric Double Layer Capacitors with a Mixture of Ionic Liquid and Acetonitrile as the Electrolyte by Using Mass-Balancing Carbon Electrodes. 2013 , 160, A2064-A2069	26
1834	Comparison of the electrochemical performance of NiMoO ₄ nanorods and hierarchical nanospheres for supercapacitor applications. 2013 , 5, 12905-10	227
1833	High-performance supercapacitor based on nitrogen-doped porous carbon derived from zinc(II)-bis(8-hydroxyquinoline) coordination polymer. 2013 , 393, 241-8	26

1832	Supercapacitive performance of nitrogen-enriched carbons from carbonization of polyaniline/activated mesocarbon microbeads. 2013 , 227, 1-7	43
1831	Synthesis of Mn ₃ O ₄ -anchored graphene sheet nanocomposites via a facile, fast microwave hydrothermal method and their supercapacitive behavior. 2013 , 87, 801-808	90
1830	Polyaniline binder for functionalized acetylene black: A hybrid material for supercapacitor. 2013 , 180, 43-48	13
1829	Fabrication of Ni(OH) ₂ coated ZnO array for high-rate pseudocapacitive energy storage. 2013 , 109, 252-255	40
1828	Chemical activation of carbon nano-onions for high-rate supercapacitor electrodes. 2013 , 51, 52-58	211
1827	The simple preparation of a hierarchical porous carbon with high surface area for high performance supercapacitors. 2013 , 28, 151-154	17
1826	Enhanced charge storage by optimization of pore structure in nanocomposite between ordered mesoporous carbon and nanosized WO ₃ . 2013 , 244, 777-782	35
1825	Synthesis and capacitive performance of nitrogen doped porous carbons derived from sodium carboxymethyl starch. 2013 , 246, 201-209	9
1824	Supercapacitors using binderless composite monolith electrodes from carbon nanotubes and pre-carbonized biomass residues. 2013 , 59, 370-379	51
1823	Preparation and electrochemical performances of PEDOT/sulfonic acid-functionalized graphene composite hydrogel. 2013 , 172, 21-27	34
1822	Hydrothermal preparation and the capacitance of hierarchical MnO ₂ nanoflower. 2013 , 434, 42-48	24
1821	Porous Co ₁₆ S ₁₆ O ₉₆ nanosheets as a new electrode material for use in supercapacitors. 2013 , 239, 24-29	6
1820	Generation of B-doped graphene nanoplatelets using a solution process and their supercapacitor applications. 2013 , 7, 19-26	471
1819	Electrochemically reduced graphene oxide sheets for use in high performance supercapacitors. 2013 , 51, 36-44	231
1818	Ionic liquid 1-ethyl-3-methylimidazolium tetracyanoborate-based gel polymer electrolyte for electrochemical capacitors. 2013 , 1, 3372	116
1817	Preparation of highly porous binderless activated carbon electrodes from fibres of oil palm empty fruit bunches for application in supercapacitors. 2013 , 132, 254-61	249
1816	Facile synthesis of polyaniline nanotubes using reactive oxide templates for high energy density pseudocapacitors. 2013 , 1, 3315	158
1815	Microporous carbon nanoplates from regenerated silk proteins for supercapacitors. 2013 , 25, 1993-8	421

1814	Textile electrodes woven by carbon nanotube-graphene hybrid fibers for flexible electrochemical capacitors. 2013 , 5, 3428-34	274
1813	Rapid hydrothermal synthesis of hierarchical nanostructures assembled from ultrathin birnessite-type MnO ₂ nanosheets for supercapacitor applications. 2013 , 89, 523-529	256
1812	Simultaneous formation of ultrahigh surface area and three-dimensional hierarchical porous graphene-like networks for fast and highly stable supercapacitors. 2013 , 25, 2474-80	594
1811	Colloidal Synthesis and Size-Related Capacitance of Small Cobalt Sulfide Nanocrystals. 2013 , 30, 501-505	5
1810	Functional mesoporous carbon-coated CNT network for high-performance supercapacitors. 2013 , 37, 1294	10
1809	Modern Theories of Carbon-Based Electrochemical Capacitors. 2013 , 167-206	6
1808	General Properties of Electrochemical Capacitors. 2013 , 69-109	26
1807	Electrochemical performance of Cu- and Ag-doped carbon aerogels. 2013 , 138, 870-876	16
1806	Enhanced energy density of asymmetric supercapacitors via optimizing negative electrode material and mass ratio of negative/positive electrodes. 2013 , 17, 1701-1710	28
1805	Hybrid nanostructured materials for high-performance electrochemical capacitors. 2013 , 2, 213-234	883
1804	Synthesis of ultrathin nitrogen-doped graphitic carbon nanocages as advanced electrode materials for supercapacitor. 2013 , 5, 2241-8	282
1803	Low-temperature preparation of nitrogen-doped graphene for supercapacitors. 2013 , 56, 218-223	74
1802	High-performance flexible asymmetric supercapacitors based on 3D porous graphene/MnO ₂ nanorod and graphene/Ag hybrid thin-film electrodes. 2013 , 1, 1245-1251	135
1801	Highly atom-economic synthesis of graphene/MnO ₂ hybrid composites for electrochemical supercapacitors. 2013 , 5, 2999-3005	115
1800	From dead leaves to high energy density supercapacitors. 2013 , 6, 1249	678
1799	Preparation and capacitance of graphene/multiwall carbon nanotubes/MnO ₂ hybrid material for high-performance asymmetrical electrochemical capacitor. 2013 , 89, 191-198	98
1798	Asymmetric supercapacitor containing poly(3-methyl thiophene)-multiwalled carbon nanotubes nanocomposites and activated carbon. 2013 , 94, 182-191	48
1797	High performance supercapacitor prepared from hollow mesoporous carbon capsules with hierarchical nanoarchitecture. 2013 , 244, 799-805	114

1796	Hierarchically porous carbon nanofibers containing numerous heteroatoms for supercapacitors. 2013 , 234, 285-291	77
1795	Fabrication of porous carbon nanofibers with adjustable pore sizes as electrodes for supercapacitors. 2013 , 235, 289-296	223
1794	"Salt templating": a simple and sustainable pathway toward highly porous functional carbons from ionic liquids. 2013 , 25, 75-9	364
1793	Activated carbon from phenolic resin with controlled mesoporosity for an electric double-layer capacitor (EDLC). 2013 , 1, 6037	113
1792	Graphene-based electrodes for electrochemical energy storage. 2013 , 6, 1388	631
1791	Pyrrolic-structure enriched nitrogen doped graphene for highly efficient next generation supercapacitors. 2013 , 1, 2904	179
1790	Synthesis of superior carbon nanofibers with large aspect ratio and tunable porosity for electrochemical energy storage. 2013 , 1, 9449	54
1789	Highly stretchable, integrated supercapacitors based on single-walled carbon nanotube films with continuous reticulate architecture. 2013 , 25, 1058-64	440
1788	Supercapacitors from Free-Standing Polypyrrole/Graphene Nanocomposites. 2013 , 117, 10270-10276	137
1787	Graphene-based mesoporous nanocomposites of spherical shape with a 2-D layered structure. 2013 , 1, 6719	13
1786	Three dimensional N-doped graphene-CNT networks for supercapacitor. 2013 , 49, 5016-8	302
1785	One-pot hydrothermal synthesis of reduced graphene oxide/carbon nanotube/ Ni(OH)_2 composites for high performance electrochemical supercapacitor. 2013 , 243, 555-561	182
1784	Toward the Theoretical Capacitance of RuO_2 Reinforced by Highly Conductive Nanoporous Gold. 2013 , 3, 851-856	162
1783	Hierarchically nanoperforated graphene as a high performance electrode material for ultracapacitors. 2013 , 9, 2801-9	33
1782	Microwave synthesized magnetic tubular carbon nanocomposite fabrics toward electrochemical energy storage. 2013 , 5, 1825-30	30
1781	Carbon nanofibers with radially grown graphene sheets derived from electrospinning for aqueous supercapacitors with high working voltage and energy density. 2013 , 5, 4902-9	92
1780	A novel asymmetric supercapacitor with an activated carbon cathode and a reduced graphene oxide/cobalt oxide nanocomposite anode. 2013 , 242, 148-156	138
1779	Design, hydrothermal synthesis and electrochemical properties of porous birnessite-type manganese dioxide nanosheets on graphene as a hybrid material for supercapacitors. 2013 , 242, 78-85	88

1778	Nitrogen-doped porous carbons by conversion of azo dyes especially in the case of tartrazine. 2013 , 242, 41-49	21
1777	Enhanced electrochemical capacitance of polyaniline/graphene hybrid nanosheets with graphene as templates. 2013 , 53, 376-381	41
1776	Solid-state supercapacitors with ionic liquid based gel polymer electrolyte: Effect of lithium salt addition. 2013 , 243, 211-218	53
1775	Chelating agent- and surfactant-assisted synthesis of manganese oxide/carbon nanotube composite for electrochemical capacitors. 2013 , 48, 1204-1212	29
1774	Ionic liquid C16mimBF ₄ assisted synthesis of poly(benzoxazine-co-resol)-based hierarchically porous carbons with superior performance in supercapacitors. 2013 , 6, 652-659	204
1773	A high-performance flexible fibre-shaped electrochemical capacitor based on electrochemically reduced graphene oxide. 2013 , 49, 291-3	254
1772	High-energy supercapacitors based on hierarchical porous carbon with an ultrahigh ion-accessible surface area in ionic liquid electrolytes. 2013 , 5, 4678-82	89
1771	Template-free synthesis of renewable macroporous carbon via yeast cells for high-performance supercapacitor electrode materials. 2013 , 5, 2261-8	88
1770	Nanoconfinement induced formation of core/shell structured mesoporous carbon spheres coated with solid carbon shell. 2013 , 5, 3042-7	14
1769	Synthesis of hierarchical sulfonated graphene/MnO ₂ /polyaniline ternary composite and its improved electrochemical performance. 2013 , 241, 231-238	104
1768	Three-dimensional hybrid materials of fish scale-like polyaniline nanosheet arrays on graphene oxide and carbon nanotube for high-performance ultracapacitors. 2013 , 54, 241-248	90
1767	Microtube bundle carbon derived from Paulownia sawdust for hybrid supercapacitor electrodes. 2013 , 5, 4667-77	60
1766	Carbon/carbon supercapacitors. 2013 , 22, 226-240	220
1765	A facile preparation of NiO/Ni composites as high-performance pseudocapacitor materials. 2013 , 3, 8003	51
1764	Performance of solid-state supercapacitors with ionic liquid 1-ethyl-3-methylimidazolium tris(pentafluoroethyl) trifluorophosphate based gel polymer electrolyte and modified MWCNT electrodes. 2013 , 105, 333-341	80
1763	All-solid-state flexible ultrathin micro-supercapacitors based on graphene. 2013 , 25, 4035-42	449
1762	Carbonaceous electrode materials for supercapacitors. 2013 , 25, 3899-904	513
1761	Mesoporous nitrogen-rich carbons derived from protein for ultra-high capacity battery anodes and supercapacitors. 2013 , 6, 871	872

1760	Conducting polymers-based electrochemical supercapacitorsProgress and prospects. 2013 , 101, 109-129	311
1759	Reduction of porous carbon/Al contact resistance for an electric double-layer capacitor (EDLC). 2013 , 92, 183-187	137
1758	Hierarchical porous nickel oxide/carbon nanotubes as advanced pseudocapacitor materials for supercapacitors. 2013 , 561-562, 68-73	35
1757	Electrochemical and electrical performances of cobalt chloride (CoCl ₂) doped polyaniline (PANI)/graphene nanoplate (GNP) composite. 2013 , 3, 12874	30
1756	Chemical adsorption of NiO nanostructures on nickel foam-graphene for supercapacitor applications. 2013 , 48, 6707-6712	88
1755	Chemical vapor deposition of mesoporous graphene nanoballs for supercapacitor. 2013 , 7, 6047-55	268
1754	Phenol/formaldehyde carbon with ordered/disordered bimodal mesoporous structure as high-performance electrode materials for supercapacitors. 2013 , 241, 6-11	22
1753	Influence of solvation on the structural and capacitive properties of electrical double layer capacitors. 2013 , 101, 262-271	83
1752	Solution-based binder-free synthetic approach of RuO ₂ thin films for all solid state supercapacitors. 2013 , 103, 103-109	71
1751	Synthesis of functionalized 3D hierarchical porous carbon for high-performance supercapacitors. 2013 , 6, 2497	935
1750	Microscopic formulation of nonlocal electrostatics in polar liquids embedding polarizable ions. 2013 , 87, 063201	36
1749	Unraveling the potential and pore-size dependent capacitance of slit-shaped graphitic carbon pores in aqueous electrolytes. 2013 , 15, 2309-20	64
1748	Electrode materials for aqueous asymmetric supercapacitors. 2013 , 3, 13059	407
1747	Growth time performance dependence of vertically aligned carbon nanotube supercapacitors grown on aluminum substrates. 2013 , 91, 96-100	45
1746	Functional porous carbon-based composite electrode materials for lithium secondary batteries. 2013 , 22, 214-225	40
1745	Carbon/sulfur composites for LiS batteries: status and prospects. 2013 , 1, 9382	664
1744	Polyaniline modified graphene and carbon nanotube composite electrode for asymmetric supercapacitors of high energy density. 2013 , 241, 423-428	152
1743	Room-temperature synthesis of 3-dimensional Ag-graphene hybrid hydrogel with promising electrochemical properties. 2013 , 178, 769-774	20

1742	Effects of the functional groups on the electrochemical properties of ordered porous carbon for supercapacitors. 2013 , 105, 299-304	132
1741	Advanced porous carbon electrodes for electrochemical capacitors. 2013 , 1, 9395	141
1740	Ultramicroporous carbon as electrode material for supercapacitors. 2013 , 228, 193-197	81
1739	Copper nanocrystal modified activated carbon for supercapacitors with enhanced volumetric energy and power density. 2013 , 236, 215-223	34
1738	In-situ growth of P3HT/graphene composites for supercapacitor application. 2013 , 140, 616-621	25
1737	Easy and controlled synthesis of nitrogen-doped carbon. 2013 , 55, 98-107	35
1736	Multifunctional structural supercapacitor composites based on carbon aerogel modified high performance carbon fiber fabric. 2013 , 5, 6113-22	156
1735	Rapid fabrication of thick spray-layer-by-layer carbon nanotube electrodes for high power and energy devices. 2013 , 6, 888	76
1734	Enhanced pseudocapacitance of ionic liquid/cobalt hydroxide nanohybrids. 2013 , 7, 2453-60	91
1733	Partition and Structure of Aqueous NaCl and CaCl ₂ Electrolytes in Carbon-Slit Electrodes. 2013 , 117, 13609-13619	33
1732	Highly uniform deposition of MoO ₃ nanodots on multiwalled carbon nanotubes for improved performance of supercapacitors. 2013 , 235, 187-192	58
1731	Hollow spheres of nanocarbon and their manganese dioxide hybrids derived from soft template for supercapacitor application. 2013 , 240, 713-720	66
1730	Effects of graphene reduction degree on capacitive performances of graphene/PANI composites. 2013 , 175, 88-96	36
1729	Facile dip coating processed graphene/MnO ₂ nanostructured sponges as high performance supercapacitor electrodes. 2013 , 2, 505-513	163
1728	The production of hydrochar-based hierarchical porous carbons for use as electrochemical supercapacitor electrode materials. 2013 , 423, 104-111	71
1727	Manganosite microwave exfoliated graphene oxide composites for asymmetric supercapacitor device applications. 2013 , 101, 99-108	75
1726	Nanoporous Ni(OH) ₂ thin film on 3D Ultrathin-graphite foam for asymmetric supercapacitor. 2013 , 7, 6237-43	925
1725	Capacitive performance of binder-free carbon/carbon composite cryogels. 2013 , 165, 228-233	13

1724	Cross-links in carbon nanotube assembly introduced by using polyacrylonitrile as precursor. 2013 , 5, 8173-8	24
1723	MnO ₂ -Based Thermopower Wave Sources with Exceptionally Large Output Voltages. 2013 , 117, 9137-9142	60
1722	H-TiO ₂ @MnO ₂ //H-TiO ₂ @C core-shell nanowires for high performance and flexible asymmetric supercapacitors. 2013 , 25, 267-72	828
1721	Solution-based carbohydrate synthesis of individual solid, hollow, and porous carbon nanospheres using spray pyrolysis. 2013 , 7, 11156-65	84
1720	Hydrothermal Self-assembly Synthesis of Mn ₃ O ₄ /Reduced Graphene Oxide Hydrogel and Its High Electrochemical Performance for Supercapacitors. 2013 , 31, 1290-1298	49
1719	Structure and Capacitive Performance of Porous Carbons Derived from Terephthalic AcidZinc Complex via a Template Carbonization Process. 2013 , 52, 16211-16219	9
1718	Graphene as a Target for Polymer Synthesis. 2013 , 61-92	11
1717	Carbon xerogel microspheres and monoliths from resorcinol-formaldehyde mixtures with varying dilution ratios: preparation, surface characteristics, and electrochemical double-layer capacitances. 2013 , 29, 6166-73	40
1716	Mesoscale modeling of electric double layer capacitors with three-dimensional ordered structures. 2013 , 221, 252-260	60
1715	Functionalization of graphene for efficient energy conversion and storage. 2013 , 46, 31-42	668
1714	Semiconductor Nanowires and Nanowire Heterostructures for Supercapacitors. 2013 ,	
1713	ELECTRODEPOSITION OF POLYPYRROLE/MnO ₂ NANOCOMPOSITE ON GRAPHITE FELT AS FREE-STANDING ELECTRODE FOR SUPERCAPACITORS. 2013 , 08, 1350020	3
1712	A Review of Electrospun Carbon Fibers as Electrode Materials for Energy Storage. 2013 , 17, 1390-1401	96
1711	Synthesis and Exfoliation of Layered Co(OH) ₂ Nanosheets and Their Electrochemical Performance for Supercapacitors. 2013 , 2013, 4832-4838	66
1710	Direct prototyping of patterned nanoporous carbon: a route from materials to on-chip devices. 2013 , 3, 2294	55
1709	Fabric based supercapacitor. 2013 , 476, 012114	4
1708	Mesoporous Carbon Incorporated with In ₂ O ₃ Nanoparticles as High-Performance Supercapacitors. 2013 , 2013, 1109-1112	83
1707	Generalization of the Gouy-Chapman-Stern model of an electric double layer for a morphologically complex electrode: deterministic and stochastic morphologies. 2013 , 88, 052303	34

1706	Thick, Binder-Free Carbon-Nanotube-Based Electrodes for High Power Applications. 2013 , 2, M3140-M3144	8
1705	Cobalt monoxide-doped porous graphitic carbon microspheres for supercapacitor application. 2013 , 3, 2925	41
1704	Predictions of Adsorption Enthalpy on Graphitic Surfaces Using Statistical Thermodynamics. 2013 ,	
1703	Carbon Nanotubes for Energy Applications. 2013 ,	11
1702	Supercapacitive Performance of Nanostructural Nitrogen Substituted TiO ₂ . 2013 ,	
1701	Multifunctional Nanocomposites for Environmental Remediation. 2014 , 71-84	
1700	Electrochemical Behavior and Specific Capacitance of Polyaniline/Silver Nanoparticle/Multi-walled Carbon Nanotube Composites. 2014 , 27, 718-724	9
1699	Electrosynthesis of a composite based on graphene oxide nanosheets and polyaniline with hexachloroiridate anion. 2014 , 63, 627-634	1
1698	Growth and functionalization of CNTs on stainless steel electrodes for supercapacitor applications. 2014 , 1, 035050	12
1697	In-situ and ex-situ measurements of thermal conductivity of supercapacitors. 2014 , 78, 373-383	14
1696	Cross-linked polymers of diethynylbenzene and phenylacetylene as new polymer precursors for high-yield synthesis of high-performance nanoporous activated carbons for supercapacitors, hydrogen storage, and CO ₂ capture. 2014 , 2, 20316-20330	33
1695	Energy Storage and Materials. 2014 , 323-386	
1694	Functional Carbon Nanotube/Mesoporous Carbon/MnO ₂ Hybrid Network for High-Performance Supercapacitors. 2014 , 2014, 1-6	7
1693	A novel synthesis of 4-toluene 9H-carbazole-9-carbodithioate, electropolymerization and impedance study. 2014 , 8, 480-490	10
1692	Solvothermal Synthesis of Mn ₃ O ₄ Nanoparticle/Graphene Sheet Composites and Their Supercapacitive Properties. 2014 , 2014, 1-11	14
1691	Polyaniline integrated carbon nanohorn: A superior electrode materials for advanced energy storage. 2014 , 8, 895-907	19
1690	A high-capacitance solid-state supercapacitor based on polyaniline and ground carbon fibers. 2014 ,	1
1689	Graphite Oxide: An Interesting Candidate for Aqueous Supercapacitors. 2014 , 149, 245-251	15

1688	Effects of activating agents of acids and alkalis on electrochemical properties of carbon spheres. 2014 , 16, 1	5
1687	Capacitance Enhancement of Activated Carbon Modified in the Propylene Carbonate Electrolyte. 2014 , 161, A1828-A1835	12
1686	Dipolar correlations in structured solvents under nanoconfinement. 2014 , 140, 234903	31
1685	In Situ XPS Studies of Electrochemically Positively Polarized Molybdenum Carbide Derived Carbon Double Layer Capacitor Electrode. 2014 , 161, A1266-A1277	10
1684	Hierarchical Design for Fabricating Cost-Effective High Performance Supercapacitors. 2014 , 24, 4186-4194	36
1683	Excellent capacitive performance of a three-dimensional hierarchical porous graphene/carbon composite with a superhigh surface area. 2014 , 20, 13314-20	52
1682	Synthesis of polypyrrole/titanium dioxide brush-like nanocomposites with enhanced supercapacitive performance. 2014 , 4, 63719-63724	15
1681	Hierarchical MnO ₂ nanowires@Ni _{1-x} Mn _x O _y nanoflakes core-shell nanostructures for supercapacitors. 2014 , 10, 3181-6	107
1680	Superior pseudocapacitive behavior of confined lignin nanocrystals for renewable energy-storage materials. 2014 , 7, 1094-101	116
1679	Nanostructured transition metal sulfides for lithium ion batteries: Progress and challenges. 2014 , 9, 604-630	450
1678	High-performance hybrid (electrostatic double-layer and faradaic capacitor-based) polymer actuators incorporating nickel oxide and vapor-grown carbon nanofibers. 2014 , 30, 14343-51	16
1677	Enhancing the capacitive performance of a textile-based CNT supercapacitor. 2014 , 4, 64890-64900	41
1676	Effects of ions on the diffusion coefficient of water in carbon nanotubes. 2014 , 116, 054311	15
1675	CoNi ₂ S ₄ nanosheet arrays supported on nickel foams with ultrahigh capacitance for aqueous asymmetric supercapacitor applications. 2014 , 6, 19318-26	389
1674	Cube-like Fe ₂ O ₃ supported on ordered multimodal porous carbon as high performance electrode material for supercapacitors. 2014 , 7, 3102-11	80
1673	Hierarchically porous carbon with manganese oxides as highly efficient electrode for asymmetric supercapacitors. 2014 , 7, 841-7	61
1672	Transition metal oxides/hydroxides nanoarrays for aqueous electrochemical energy storage systems. 2014 , 57, 59-69	40
1671	Fabrication of symmetric supercapacitors based on MOF-derived nanoporous carbons. 2014 , 2, 19848-19854	376

1670	A Flexible micro-supercapacitor based on a pen ink-carbon fiber thread. 2014 , 2, 19665-19669	56
1669	Charge storage properties of biopolymer electrodes with (sub)tropical lignins. 2014 , 16, 24681-4	24
1668	Emerging electrochemical energy conversion and storage technologies. 2014 , 2, 79	196
1667	Pseudocapacity of N-doped and polymer modified carbon nanomaterials in non-aqueous media. 2014 , 29, A98-A106	2
1666	Effects of preparation temperature on electrochemical performance of nitrogen-enriched carbons. 2014 , 24, 3541-3550	5
1665	11. Batteries/Supercapacitors: Hybrids with CNTs. 2014 ,	
1664	Ni ₃ S ₂ coated ZnO array for high-performance supercapacitors. 2014 , 245, 463-467	191
1663	TiO ₂ sol-gel spray method for carbon electrode fabrication to enhance desalination efficiency of capacitive deionization. 2014 , 342, 70-74	88
1662	Thermal conductivity and temperature profiles in carbon electrodes for supercapacitors. 2014 , 246, 160-166	19
1661	An efficient redox-mediated organic electrolyte for high-energy supercapacitor. 2014 , 248, 1123-1126	47
1660	Enhanced supercapacitor performance using hierarchical TiO ₂ nanorod/Co(OH) ₂ nanowall array electrodes. 2014 , 136, 105-111	39
1659	Electrochemical performance of graphitized carbide-derived-carbon with hierarchical micro- and meso-pores in alkaline electrolyte. 2014 , 74, 226-236	25
1658	Spiro-(1,1?)-bipyrrolidinium tetrafluoroborate salt as high voltage electrolyte for electric double layer capacitors. 2014 , 265, 309-316	69
1657	Fabrication of hierarchically ordered porous carbons using sugarcane bagasse as the scaffold for supercapacitor applications. 2014 , 194, 29-37	17
1656	Synthesis of boron and nitrogen co-doped graphene nano-platelets using a two-step solution process and catalytic properties for oxygen reduction reaction. 2014 , 33, 1-5	21
1655	Super-Long Life Supercapacitors Based on the Construction of Ni foam/graphene/Co ₃ S ₄ Composite film hybrid electrodes. 2014 , 132, 180-185	77
1654	Fe ₃ O ₄ nanoparticles grown on graphene as advanced electrode materials for supercapacitors. 2014 , 245, 101-106	267
1653	Atomic-layer-deposition-assisted formation of carbon nanoflakes on metal oxides and energy storage application. 2014 , 10, 300-7	56

1652	Two steps in situ structure fabrication of NiAl layered double hydroxide on Ni foam and its electrochemical performance for supercapacitors. 2014 , 246, 747-753	123
1651	Charge Storage Capacity of Renewable Biopolymer/Conjugated Polymer Interpenetrating Networks Enhanced by Electroactive Dopants. 2014 , 4, 1300443	62
1650	Free-standing and mechanically flexible mats consisting of electrospun carbon nanofibers made from a natural product of alkali lignin as binder-free electrodes for high-performance supercapacitors. 2014 , 247, 134-141	247
1649	Conducting polymer nanowire arrays for high performance supercapacitors. 2014 , 10, 14-31	593
1648	High-performance supercapacitors based on freestanding carbon-based composite paper electrodes. 2014 , 246, 540-547	26
1647	Preparation of mesoporous carbon materials used in electrochemical capacitor electrode by using natural zeolite template/maltose system. 2014 , 25, 538-545	10
1646	Fe ₃ O ₄ @C core-shell microspheres: synthesis, characterization, and application as supercapacitor electrodes. 2014 , 18, 1067-1076	34
1645	Preparation and electrochemical performance of porous hematite (Fe ₂ O ₃) nanostructures as supercapacitor electrode material. 2014 , 18, 1057-1066	74
1644	A universal equivalent circuit for carbon-based supercapacitors. 2014 , 18, 1377-1387	94
1643	A rational template carbonization method for producing highly porous carbon for supercapacitor application. 2014 , 117, 55-61	27
1642	A review of graphene and graphene oxide sponge: material synthesis and applications to energy and the environment. 2014 , 7, 1564	860
1641	Electrochemical performance of hierarchical porous carbon materials obtained from the infiltration of lignin into zeolite templates. 2014 , 7, 1458-67	82
1640	Three-dimensional graphene materials: preparation, structures and application in supercapacitors. 2014 , 7, 1850-1865	705
1639	Synthesis and electrochemical properties of graphene/V ₂ O ₅ xerogels nanocomposites as supercapacitor electrodes. 2014 , 262, 234-237	43
1638	Design and synthesis of ternary cobalt ferrite/graphene/polyaniline hierarchical nanocomposites for high-performance supercapacitors. 2014 , 245, 937-946	196
1637	Ionic Liquids Confined in a Realistic Activated Carbon Model: A Molecular Simulation Study. 2014 , 118, 1540-1553	40
1636	Effect of pre-lithiation degrees of mesocarbon microbeads anode on the electrochemical performance of lithium-ion capacitors. 2014 , 125, 22-28	101
1635	Nitrogen-containing nanoporous carbons by a rational template carbonization method evinced in the cases of 1, 10-phenanthroline and benzimidazole. 2014 , 18, 1879-1887	3

1634	Enhanced performance of supercapacitors with ultrathin mesoporous NiMoO ₄ nanosheets. 2014 , 125, 294-301	99
1633	Nitrogen-doped porous carbons through KOH activation with superior performance in supercapacitors. 2014 , 68, 185-194	296
1632	Mesoporous nitrogen-doped carbon from nanocrystalline chitin assemblies. 2014 , 2, 5915	71
1631	Super long-life supercapacitors based on the construction of nanohoneycomb-like strongly coupled CoMoO(4)-3D graphene hybrid electrodes. 2014 , 26, 1044-51	574
1630	Pseudocapacitive oxide materials for high-rate electrochemical energy storage. 2014 , 7, 1597	3208
1629	Rapid and controllable synthesis of nitrogen doped reduced graphene oxide using microwave-assisted hydrothermal reaction for high power-density supercapacitors. 2014 , 73, 106-113	88
1628	Amorphous RuO ₂ coated on carbon spheres as excellent electrode materials for supercapacitors. 2014 , 4, 6927	49
1627	A general approach for fabrication of nitrogen-doped graphene sheets and its application in supercapacitors. 2014 , 417, 270-7	74
1626	A high-performance all-solid-state supercapacitor with graphene-doped carbon material electrodes and a graphene oxide-doped ion gel electrolyte. 2014 , 72, 381-386	86
1625	Core-double-shell, carbon nanotube@polypyrrole@MnO ₂ sponge as freestanding, compressible supercapacitor electrode. 2014 , 6, 5228-34	269
1624	Recent Advances in Design and Fabrication of Electrochemical Supercapacitors with High Energy Densities. 2014 , 4, 1300816	1364
1623	Direct growth of cobalt hydroxide rods on nickel foam and its application for energy storage. 2014 , 20, 3084-8	120
1622	3D (Three-dimensional) sandwich-structured of ZnO (zinc oxide)/rGO (reduced graphene oxide)/ZnO for high performance supercapacitors. 2014 , 69, 266-271	50
1621	Facile synthesis of hierarchical Co ₃ O ₄ @MnO ₂ core-shell arrays on Ni foam for asymmetric supercapacitors. 2014 , 252, 98-106	307
1620	Stretchable all-solid-state supercapacitor with wavy shaped polyaniline/graphene electrode. 2014 , 2, 9142-9149	264
1619	Nanodiamond particles/reduced graphene oxide composites as efficient supercapacitor electrodes. 2014 , 68, 175-184	57
1618	Capacitance of carbon-based electrical double-layer capacitors. 2014 , 5, 3317	463
1617	Synthesis of MnO ₂ -graphene composites with enhanced supercapacitive performance via pulse electrodeposition under supergravity field. 2014 , 215, 160-166	22

1616	Conjugated polyfluorene imidazolium ionic liquids intercalated reduced graphene oxide for high performance supercapacitor electrodes. 2014 , 6, 119-128	35
1615	Magnetocapacitance in magnetic microtubular carbon nanocomposites under external magnetic field. 2014 , 6, 180-192	53
1614	Larger-scale fabrication of N-doped graphene-fiber mats used in high-performance energy storage. 2014 , 252, 113-121	44
1613	Synthesis of mesh-like Fe ₂ O ₃ /C nanocomposite via greener route for high performance supercapacitors. 2014 , 4, 4631-4637	54
1612	Flexible, high performance Two-Ply Yarn Supercapacitors based on irradiated Carbon Nanotube Yarn and PEDOT/PSS. 2014 , 127, 433-438	53
1611	Supercapacitors Based on Flexible Substrates: An Overview. 2014 , 2, 325-341	140
1610	Nanoparticles meet electrospinning: recent advances and future prospects. <i>Chemical Society Reviews</i> , 2014 , 43, 4423-48	58.5 447
1609	Hierarchical NiCo ₂ O ₄ @NiO core-shell hetero-structured nanowire arrays on carbon cloth for a high-performance flexible all-solid-state electrochemical capacitor. 2014 , 2, 1448-1457	134
1608	Powder, paper and foam of few-layer graphene prepared in high yield by electrochemical intercalation exfoliation of expanded graphite. 2014 , 10, 1421-9	105
1607	Polyaniline based electrodes for electrochemical supercapacitor: Synergistic effect of silver, activated carbon and polyaniline. 2014 , 724, 21-28	39
1606	Electrochemical synthesis and capacitance properties of a novel poly(3,4-ethylenedioxythiophene bis-substituted bithiophene) electrode material. 2014 , 132, 67-74	30
1605	Soft template interfacial growth of novel ultralong polypyrrole nanowires for electrochemical energy storage. 2014 , 132, 112-117	38
1604	A mechanically and electrically self-healing supercapacitor. 2014 , 26, 3638-43	304
1603	Sulfur-incorporated, porous graphene films for high performance flexible electrochemical capacitors. 2014 , 77, 59-65	97
1602	Facile fabrication and electrochemical performance of flower-like Fe ₃ O ₄ @C@layered double hydroxide (LDH) composite. 2014 , 2, 8758-8765	56
1601	Mechanism investigation and suppression of self-discharge in active electrolyte enhanced supercapacitors. 2014 , 7, 1750-1759	199
1600	Graphene-epoxy flexible transparent capacitor obtained by graphene-polymer transfer and UV-induced bonding. 2014 , 35, 355-9	12
1599	A facile and general route for the synthesis of semiconductor quantum dots on reduced graphene oxide sheets. 2014 , 4, 13601	8

1598	RuO ₂ /graphene hybrid material for high performance electrochemical capacitor. 2014 , 248, 407-415	106
1597	Graphenated tantalum(IV) oxide and poly(4-styrene sulphonic acid)-doped polyaniline nanocomposite as cathode material in an electrochemical capacitor. 2014 , 128, 226-237	12
1596	Electrochemical storage properties of polyaniline-, poly(N-methylaniline)-, and poly(N-ethylaniline)-coated pencil graphite electrodes. 2014 , 68,	15
1595	Fast Response, vertically oriented graphene nanosheet electric double layer capacitors synthesized from C(2)H(2). 2014 , 8, 5873-82	113
1594	Synergistic fusion of vertical graphene nanosheets and carbon nanotubes for high-performance supercapacitor electrodes. 2014 , 7, 2317-24	57
1593	Sonochemically synthesized MnO ₂ nanoparticles as electrode material for supercapacitors. 2014 , 21, 1933-8	70
1592	Recent Progress on Mesoporous Carbon Materials for Advanced Energy Conversion and Storage. 2014 , 31, 515-539	73
1591	Phosphorous and nitrogen dual heteroatom doped mesoporous carbon synthesized via microwave method for supercapacitor application. 2014 , 250, 257-265	188
1590	Hierarchical TiN@Ni(OH) ₂ core/shell nanowire arrays for supercapacitor application. 2014 , 116, 372-378	21
1589	A three-dimensional ordered mesoporous carbon/carbon nanotubes nanocomposites for supercapacitors. 2014 , 246, 402-408	78
1588	Phenanthroline-functionalized MWCNTs as versatile platform for lanthanides complexation. 2014 , 70, 22-29	1
1587	Strategies for enhancing the performance of carbon/carbon supercapacitors in aqueous electrolytes. 2014 , 128, 210-217	39
1586	Kinetically enhanced pseudocapacitance of conducting polymer doped with reduced graphene oxide through a miscible electron transfer interface. 2014 , 3, 1-9	24
1585	CuO nanostructures: Synthesis, characterization, growth mechanisms, fundamental properties, and applications. 2014 , 60, 208-337	852
1584	Carbon nanofluidics of rapid water transport for energy applications. <i>Chemical Society Reviews</i> , 2014 , 43, 565-76	58.5 146
1583	Design of graphene-coated hollow mesoporous carbon spheres as high performance electrodes for capacitive deionization. 2014 , 2, 4739-4750	282
1582	Manganese hexacyanoferrate derived Mn ₃ O ₄ nanocubes-reduced graphene oxide nanocomposites and their charge storage characteristics in supercapacitors. 2014 , 16, 4952-61	104
1581	Heterogeneous nanocarbon materials for oxygen reduction reaction. 2014 , 7, 576	792

1580	Honeycomb porous MnO ₂ nanofibers assembled from radially grown nanosheets for aqueous supercapacitors with high working voltage and energy density. 2014 , 4, 39-48	104
1579	A method to increase the energy density of supercapacitor cells by the addition of multiwall carbon nanotubes into activated carbon electrodes. 2014 , 68, 58-66	48
1578	CoO nanoflowers woven by CNT network for high energy density flexible micro-supercapacitor. 2014 , 3, 46-54	162
1577	Enhanced electrochemical energy storage performance of reduced graphene oxide by incorporating oxygen-rich in-plane pores. 2014 , 2, 1802-1808	15
1576	High-energy asymmetric supercapacitor based on petal-shaped MnO ₂ nanosheet and carbon nanotube-embedded polyacrylonitrile-based carbon nanofiber working at 2V in aqueous neutral electrolyte. 2014 , 249, 1-8	58
1575	Synthesis of graphene from dry ice in flames and its application in supercapacitors. 2014 , 591, 78-81	30
1574	Amorphous MnO ₂ supported on 3D-Ni nanodendrites for large areal capacitance supercapacitors. 2014 , 149, 341-348	76
1573	Facile synthesis of reduced graphene oxide/CoWO ₄ nanocomposites with enhanced electrochemical performances for supercapacitors. 2014 , 150, 23-34	90
1572	Galvanostatic deposition of polypyrrole in the presence of tartaric acid for electrochemical supercapacitor. 2014 , 147, 545-556	22
1571	High-yield harvest of nanofibers/mesoporous carbon composite by pyrolysis of waste biomass and its application for high durability electrochemical energy storage. 2014 , 48, 13951-9	137
1570	Formation of carbon nanosheets via simultaneous activation and catalytic carbonization of macroporous anion-exchange resin for supercapacitors application. 2014 , 6, 20795-803	76
1569	Vertically aligned ZnO nanorod core-polypyrrole conducting polymer sheath and nanotube arrays for electrochemical supercapacitor energy storage. 2014 , 9, 453	33
1568	Bias-free, solar-charged electric double-layer capacitors. 2014 , 6, 15316-20	11
1567	Hierarchical nanocomposites of vanadium oxide thin film anchored on graphene as high-performance cathodes in li-ion batteries. 2014 , 6, 18894-900	40
1566	Carbon nanotube network film directly grown on carbon cloth for high-performance solid-state flexible supercapacitors. 2014 , 25, 035402	43
1565	Construction of unique NiCo ₂ O ₄ nanowire@CoMoO ₄ nanoplate core/shell arrays on Ni foam for high areal capacitance supercapacitors. 2014 , 2, 4954	122
1564	Sulfur-rich carbon cryogels for supercapacitors with improved conductivity and wettability. 2014 , 2, 8472	81
1563	KOH self-templating synthesis of three-dimensional hierarchical porous carbon materials for high performance supercapacitors. 2014 , 2, 14844	141

1562	Temperature-dependent structure and electrochemical performance of highly nanoporous carbon from potassium biphthalate and magnesium powder via a template carbonization process. 2014 , 2, 9675	19
1561	Hydrothermal synthesis of ordered mesoporous carbons from a biomass-derived precursor for electrochemical capacitors. 2014 , 6, 14657-61	84
1560	Facile synthesis of well-ordered manganese oxide nanosheet arrays on carbon cloth for high-performance supercapacitors. 2014 , 2, 8833	66
1559	Fabrication of porous carbon spheres for high-performance electrochemical capacitors. 2014 , 4, 7538	65
1558	Design and synthesis of 3D interconnected mesoporous NiCo ₂ O ₄ @Co _x Ni _{1-x} (OH) ₂ core-shell nanosheet arrays with large areal capacitance and high rate performance for supercapacitors. 2014 , 2, 10090	146
1557	Low-temperature solution-processable Ni(OH) ₂ ultrathin nanosheet/N-graphene nanohybrids for high-performance supercapacitor electrodes. 2014 , 6, 5960-6	41
1556	ZnCo ₂ O ₄ nanowire arrays grown on nickel foam for high-performance pseudocapacitors. 2014 , 2, 5434-5440	163
1555	Micropore engineering of carbonized porous aromatic framework (PAF-1) for supercapacitors application. 2014 , 16, 12909-17	36
1554	Fabrication of amorphous carbon-coated NiO nanofibers for electrochemical capacitor applications. 2014 , 2, 3364-3371	73
1553	Electrospun activated carbon nanofibers for supercapacitor electrodes. 2014 , 4, 43619-43623	69
1552	Mesoporous size controllable carbon microspheres and their electrochemical performances for supercapacitor electrodes. 2014 , 2, 8407-8415	141
1551	Nickel nanoparticles effect on the electrochemical energy storage properties of carbon nanocomposite films. 2014 , 25, 435401	14
1550	Facile synthesis and superior electrochemical performances of CoNi ₂ S ₄ /graphene nanocomposite suitable for supercapacitor electrodes. 2014 , 2, 9613-9619	215
1549	Vertically aligned cobalt hydroxide nano-flake coated electro-etched carbon fiber cloth electrodes for supercapacitors. 2014 , 616-617, 35-39	5
1548	Electrochemical supercapacitor with polymeric active electrolyte. 2014 , 2, 10526-10531	41
1547	Construction of one-dimensional nanostructures on graphene for efficient energy conversion and storage. 2014 , 7, 2559	155
1546	Heterostructured poly(3,6-dithien-2-yl-9H-carbazol-9-yl acetic acid)/TiO ₂ nanoparticles composite redox-active materials as both anode and cathode for high-performance symmetric supercapacitor applications. 2014 , 2, 6512-6524	21
1545	Preparation of novel pigskin-derived carbon sheets and their low-temperature activation-induced high capacitive performance. 2014 , 4, 45318-45324	30

1544	Biaxially stretchable, integrated array of high performance microsupercapacitors. 2014 , 8, 11639-50	114
1543	Functionalization of graphene with nitrogen using ethylenediaminetetraacetic acid and their electrochemical energy storage properties. 2014 , 4, 24248	18
1542	The preparation of hierarchical tubular structures comprised of NiO nanosheets with enhanced supercapacitive performance. 2014 , 4, 3181-3187	28
1541	A nickel hydroxide-coated 3D porous graphene hollow sphere framework as a high performance electrode material for supercapacitors. 2014 , 16, 4186-92	68
1540	Combination of a SnO ₂ hybrid anode and a tubular mesoporous carbon cathode in a high energy density non-aqueous lithium ion capacitor: preparation and characterisation. 2014 , 2, 6549	85
1539	Recovering energy from dye wastewater for a new kind of superior supercapacitor material. 2014 , 4, 21419	5
1538	Performance enhancement of single-walled nanotube/microwave exfoliated graphene oxide composite electrodes using a stacked electrode configuration. 2014 , 2, 14835-14843	14
1537	Supercapacitor characteristics of pressurized RuO ₂ /carbon powder as binder-free electrodes. 2014 , 4, 48276-48284	22
1536	Easy approach to synthesize N/P/K co-doped porous carbon microfibers from cane molasses as a high performance supercapacitor electrode material. 2014 , 4, 34739-34750	15
1535	Nitrogen-doped reduced graphene oxide for high-performance flexible all-solid-state micro-supercapacitors. 2014 , 2, 18125-18131	128
1534	Graphene-based supercapacitor with carbon nanotube film as highly efficient current collector. 2014 , 25, 435405	46
1533	Nitrogen-containing nanoporous carbons with high pore volumes from 4-(4-nitrophenylazo)resorcinol by a Mg(OH) ₂ -assisted template carbonization method. 2014 , 2, 17586-17594	7
1532	Green synthesis of open porous NiO films with an excellent capacitance performance. 2014 , 50, 3443-6	49
1531	Sandwich-structured MnO ₂ /polypyrrole/reduced graphene oxide hybrid composites for high-performance supercapacitors. 2014 , 4, 9898-9904	101
1530	P/N/O co-doped carbonaceous material based supercapacitor with voltage up to 1.9 V in aqueous electrolyte. 2014 , 4, 55971-55979	17
1529	Nanostructured intercalation compounds as cathode materials for supercapacitors. 2014 , 86, 593-609	13
1528	Synthesis and electrochemistry of pseudocapacitive multilayer fullerenes and MnO ₂ nanocomposites. 2014 , 2, 2152-2159	54
1527	Fabrication of a 3D micro/nano dual-scale carbon array and its demonstration as the microelectrodes for supercapacitors. 2014 , 24, 045001	14

1526	Atomic layer deposition of Al-doped ZnO/Al ₂ O ₃ double layers on vertically aligned carbon nanofiber arrays. 2014 , 6, 6865-71	20
1525	Metal oxide/hydroxide-based materials for supercapacitors. 2014 , 4, 41910-41921	235
1524	Urchin and sheaf-like NiCo ₂ O ₄ nanostructures: Synthesis and electrochemical energy storage application. 2014 , 39, 15627-15638	127
1523	Nitrogen rich graphene-cross-linked melamine formaldehyde carbon cryogels for supercapacitors. 2014 , 142, 101-107	13
1522	High-performance aqueous asymmetric supercapacitor based on carbon nanofibers network and tungsten trioxide nanorod bundles electrodes. 2014 , 147, 54-61	74
1521	Vanadium nitride@N-doped carbon nanocomposites: tuning of pore structure and particle size through salt templating and its influence on supercapacitance in ionic liquid media. 2014 , 4, 26981-26989	39
1520	Supercapacitor performance of spherical nanoporous carbon obtained by a CaCO ₃ -assisted template carbonization method from polytetrafluoroethylene waste and the electrochemical enhancement by the nitridation of CO(NH ₂) ₂ . 2014 , 147, 183-191	9
1519	Stretchable energy storage and conversion devices. 2014 , 10, 3443-60	111
1518	Hollow carbon nano-onions with hierarchical porosity derived from commercial metal organic framework. 2014 , 79, 302-309	32
1517	Shape-controlled porous nanocarbons for high performance supercapacitors. 2014 , 2, 5236	47
1516	Freestanding bacterial cellulose/polypyrrole nanofibres paper electrodes for advanced energy storage devices. 2014 , 9, 309-317	146
1515	Constructed uninterrupted charge-transfer pathways in three-dimensional micro/nanointerconnected carbon-based electrodes for high energy-density ultralight flexible supercapacitors. 2014 , 6, 210-8	47
1514	Rational design of graphene/porous carbon aerogels for high-performance flexible all-solid-state supercapacitors. 2014 , 2, 10895-10903	93
1513	Highly porous diamond foam as a thin-film micro-supercapacitor material. 2014 , 80, 833-840	79
1512	A REVIEW OF METAL OXIDE COMPOSITE ELECTRODE MATERIALS FOR ELECTROCHEMICAL CAPACITORS. 2014 , 09, 1430002	104
1511	Facile synthesis of cobalt sulfide/carbon nanotube shell/core composites for high performance supercapacitors. 2014 , 4, 12050	49
1510	High-power and high-energy asymmetric supercapacitors based on Li ⁺ -intercalation into a T-Nb ₂ O ₅ /graphene pseudocapacitive electrode. 2014 , 2, 17962-17970	142
1509	Macroscopic Graphene Structures: Preparation, Properties, and Applications. 2014 , 291-350	3

1508	Storing energy and powering small systems with mechanical springs made of carbon nanotube yarn. 2014 , 76, 318-325	12
1507	Cotton-based hollow carbon fibers with high specific surface area prepared by ammonia etching for supercapacitor application. 2014 , 4, 31300-31307	49
1506	Hollow Co(0.85)Se nanowire array on carbon fiber paper for high rate pseudocapacitor. 2014 , 6, 18844-52	131
1505	Interfaces of dicationic ionic liquids and graphene: a molecular dynamics simulation study. 2014 , 26, 284106	24
1504	Carbon coated nickel sulfide/reduced graphene oxide nanocomposites: facile synthesis and excellent supercapacitor performance. 2014 , 146, 525-532	46
1503	Surfactant free gram scale synthesis of mesoporous Ni(OH) ₂ /GO nanocomposite for high rate pseudocapacitor application. 2014 , 4, 39875	29
1502	Freestanding composite electrodes of MnOx embedded carbon nanofibers for high-performance supercapacitors. 2014 , 4, 39087	26
1501	Movable magnetic porous cores enclosed within carbon microcapsules: structure-controlled synthesis and promoted carbon-based applications. 2014 , 6, 15179-87	16
1500	Factors controlling transport of graphene oxide nanoparticles in saturated sand columns. 2014 , 33, 998-1004	76
1499	Structural power composites. 2014 , 101, 41-61	177
1498	Generalized Conversion of Halogen-Containing Plastic Waste into Nanoporous Carbon by a Template Carbonization Method. 2014 , 53, 6990-6997	20
1497	Preparation of Partially Reduced Graphene Oxide Nanosheets/Poly(Sodium 4-Styrenesulfonate) Composite with High Capacitance. 2014 , 147, 257-264	9
1496	Insights on the fundamental capacitive behavior: a case study of MnO ₂ . 2014 , 10, 3568-78	41
1495	Dimensionally integrated nanoarchitectonics for a novel composite from 0D, 1D, and 2D nanomaterials: RGO/CNT/CeO ₂ ternary nanocomposites with electrochemical performance. 2014 , 2, 18480-18487	97
1494	Optimizing supercapacitor electrode density: achieving the energy of organic electrolytes with the power of aqueous electrolytes. 2014 , 4, 42942-42946	24
1493	Enhanced surface capacitance of cylindrical micropillar arrays. 2014 , 219, 32-37	8
1492	Nitrogen-enriched hierarchically porous carbons prepared from polybenzoxazine for high-performance supercapacitors. 2014 , 6, 15583-96	155
1491	Three-dimensionally Hierarchical Porous Carbon Creating High-performance Electrochemical Capacitors. 2014 , 138, 193-199	20

1490	High performance supercapacitor for efficient energy storage under extreme environmental temperatures. 2014 , 8, 231-237	118
1489	Integrated Experimental and Computational Studies of Energy-relevant Interfaces. 2014 , 53, 32-38	
1488	X-ray Absorption Study of Graphene Oxide and Transition Metal Oxide Nanocomposites. 2014 , 118, 18706-18712	
1487	Molecular functionalization of graphite surfaces: basal plane versus step edge electrochemical activity. 2014 , 136, 11444-51	61
1486	Fabrication of SDBS intercalated-reduced graphene oxide/polypyrrole nanocomposites for supercapacitors. 2014 , 196, 1-7	21
1485	Enhancement of Capacitance by Electrochemical Oxidation of Nanodiamond Derived Carbon Nano-Onions. 2014 , 139, 82-87	28
1484	Colossal pseudocapacitance in a high functionality high surface area carbon anode doubles the energy of an asymmetric supercapacitor. 2014 , 7, 1708-1718	320
1483	One-step synthesis of nitrogen-doped microporous carbon materials as metal-free electrocatalysts for oxygen reduction reaction. 2014 , 2, 11666-11671	70
1482	Selective wetting-induced micro-electrode patterning for flexible micro-supercapacitors. 2014 , 26, 5108-12	127
1481	Layered manganese oxides-decorated and nickel foam-supported carbon nanotubes as advanced binder-free supercapacitor electrodes. 2014 , 269, 760-767	140
1480	Flower-like MnO ₂ decorated activated multihole carbon as high-performance asymmetric supercapacitor electrodes. 2014 , 135, 11-14	43
1479	Core-Shell Tubular Nanostructured Electrode of Hollow Carbon Nanofiber/Manganese Oxide for Electrochemical Capacitors. 2014 , 141, 39-44	24
1478	Solvothermal preparation of microspherical shaped cobalt manganese oxide as electrode materials for supercapacitors. 2014 , 102, 82-86	14
1477	Holey graphene frameworks for highly efficient capacitive energy storage. 2014 , 5, 4554	1002
1476	Amorphous Ni(OH) ₂ @ three-dimensional Ni core-shell nanostructures for high capacitance pseudocapacitors and asymmetric supercapacitors. 2014 , 2, 13845-13853	323
1475	From waste paper basket to solid state and Li-HEC ultracapacitor electrodes: a value added journey for shredded office paper. 2014 , 10, 4395-402	58
1474	Facile in situ synthesis of hierarchical porous Ni/Ni(OH) ₂ hybrid sponges with excellent electrochemical energy-storage performances for supercapacitors. 2014 , 9, 2590-6	7
1473	Influence of the boron precursor and drying method on surface properties and electrochemical behavior of boron-doped carbon gels. 2014 , 30, 1716-22	13

1472	Superior supercapacitive performance in electrospun copper oxide nanowire electrodes. 2014 , 2, 6578-6588	144
1471	Layered inorganic/organic hybrid material based on reduced graphene oxide and Ni(OH) ₂ for high performance supercapacitor electrodes. 2014 , 2, 17848-17856	53
1470	Enhanced capacitance of rectangular-sectioned polypyrrole microtubes as the electrode material for supercapacitors. 2014 , 4, 40686-40692	10
1469	Sulfur-doped porous reduced graphene oxide hollow nanosphere frameworks as metal-free electrocatalysts for oxygen reduction reaction and as supercapacitor electrode materials. 2014 , 6, 13740-7	159
1468	Hydrothermally formed three-dimensional nanoporous Ni(OH) ₂ thin-film supercapacitors. 2014 , 8, 9622-8	130
1467	High electrochemical performance in asymmetric supercapacitors using MWCNT/nickel sulfide composite and graphene nanoplatelets as electrodes. 2014 , 2, 16723-16730	56
1466	Identifying pseudocapacitance of Fe ₂ O ₃ in an ionic liquid and its application in asymmetric supercapacitors. 2014 , 2, 14550-14556	91
1465	Sustainable activated carbon fibers from liquefied wood with controllable porosity for high-performance supercapacitors. 2014 , 2, 11706-11715	102
1464	Cobalt-based compounds and composites as electrode materials for high-performance electrochemical capacitors. 2014 , 2, 17212-17248	139
1463	Facile synthesis route of porous MnCo ₂ O ₄ and CoMn ₂ O ₄ nanowires and their excellent electrochemical properties in supercapacitors. 2014 , 2, 16480-16488	239
1462	Surface Modification of CNTs with N-Doped Carbon: An Effective Way of Enhancing Their Performance in Supercapacitors. 2014 , 2, 1049-1055	94
1461	Studies on supercapacitor electrode material from activated lignin-derived mesoporous carbon. 2014 , 30, 900-10	289
1460	High-performance aqueous battery with double hierarchical nanoarrays. 2014 , 10, 229-234	24
1459	High-performance supercapacitor electrode based on the unique ZnO@Co ₃ O ₄ core/shell heterostructures on nickel foam. 2014 , 6, 15905-12	188
1458	Preparation of MnO ₂ electrodes coated by Sb-doped SnO ₂ and their effect on electrochemical performance for supercapacitor. 2014 , 142, 76-83	24
1457	One-step preparation of ultrathin nitrogen-doped carbon nanosheets with ultrahigh pore volume for high-performance supercapacitors. 2014 , 2, 17297-17301	51
1456	Nitrogen-enriched, double-shelled carbon/layered double hydroxide hollow microspheres for excellent electrochemical performance. 2014 , 6, 10887-95	65
1455	Explicit interrelationship between Donnan and surface potentials and explicit quantification of capacitance of charged soft interfaces with pH-dependent charge density. 2014 , 462, 69-74	15

1454	A surfactant-free water-processable all-carbon composite and its application to supercapacitor. 2014 , 146, 353-358	22
1453	Nitrogen-doped carbon nanotubes and graphene composite structures for energy and catalytic applications. 2014 , 50, 6818-30	361
1452	Self-Organization of a Hydrophilic Short-Chain Ionic Liquid Confined within a Hydrophobic Nanopore. 2014 , 118, 17764-17772	16
1451	All-solid-state flexible supercapacitors based on highly dispersed polypyrrole nanowire and reduced graphene oxide composites. 2014 , 6, 17937-43	68
1450	The Electrical Double Layer of Dicationic Ionic Liquids at Onion-like Carbon Surface. 2014 , 118, 3901-3909	39
1449	Proton-conducting polymer electrolytes and their applications in solid supercapacitors: a review. 2014 , 4, 33091-33113	225
1448	A nickel foam supported copper core/nickel oxide shell composite for supercapacitor applications. 2014 , 200, 61-67	33
1447	Graphene/vanadium oxide hybrid electrodes for electrochemical capacitor. 2014 , 461, 105-112	12
1446	Low-cost, solution processable carbon nanotube supercapacitors and their characterization. 2014 , 117, 1329-1334	31
1445	Activated nitrogen-doped carbons from polyvinyl chloride for high-performance electrochemical capacitors. 2014 , 18, 49-58	13
1444	Porous carbon synthesized by direct carbonization of potassium biphthalate for high-performance supercapacitors. 2014 , 18, 59-67	18
1443	Facilely prepared polypyrrole-graphene oxide-sodium dodecylbenzene sulfonate nanocomposites by in situ emulsion polymerization for high-performance supercapacitor electrodes. 2014 , 18, 2139-2147	12
1442	Highly specific capacitance materials constructed via in situ synthesis of polyaniline in a cellulose matrix for supercapacitors. 2014 , 21, 2337-2347	19
1441	The influence of thermal treatment on the electrochemical properties of carbon/NiPd composites. 2014 , 71, 109-117	8
1440	Polyaniline-wrapped 1D CoMoO ₄ ·0.75H ₂ O nanorods as electrode materials for supercapacitor energy storage applications. 2014 , 4, 30832-30839	58
1439	Reduced graphene oxide/Ni(1-x)Co(x)Al-layered double hydroxide composites: preparation and high supercapacitor performance. 2014 , 43, 11667-75	106
1438	Flexible wire-like all-carbon supercapacitors based on porous core-shell carbon fibers. 2014 , 2, 7250-7255	78
1437	Recent progress on nitrogen/carbon structures designed for use in energy and sustainability applications. 2014 , 7, 1212-1249	487

1436	Multifunctional g-C(3)N(4) nanofibers: a template-free fabrication and enhanced optical, electrochemical, and photocatalyst properties. 2014 , 6, 1258-65	300
1435	Graphene-wrapped polyaniline nanowire arrays on nitrogen-doped carbon fabric as novel flexible hybrid electrode materials for high-performance supercapacitor. 2014 , 30, 5306-13	163
1434	Development of MnO ₂ /porous carbon microspheres with a partially graphitic structure for high performance supercapacitor electrodes. 2014 , 2, 2555-2562	263
1433	Flexible micro-supercapacitors with high energy density from simple transfer of photoresist-derived porous carbon electrodes. 2014 , 74, 163-169	62
1432	3D micro-porous conducting carbon beehive by single step polymer carbonization for high performance supercapacitors: the magic of in situ porogen formation. 2014 , 7, 728-735	304
1431	Creation of nanopores on graphene planes with MgO template for preparing high-performance supercapacitor electrodes. 2014 , 6, 6577-84	114
1430	Facile synthesis of nickel network supported three-dimensional graphene gel as a lightweight and binder-free electrode for high rate performance supercapacitor application. 2014 , 6, 2426-33	56
1429	Hierarchical CNT@NiCo ₂ O ₄ core-shell hybrid nanostructure for high-performance supercapacitors. 2014 , 2, 11509-11515	89
1428	Cobalt hexacyanoferrate nanoparticles as a high-rate and ultra-stable supercapacitor electrode material. 2014 , 6, 11007-12	141
1427	Electrochemical fabrication of a porous network MnO ₂ /poly(5-cyanoindole) composite and its capacitance performance. 2014 , 138, 270-277	33
1426	Free-standing three-dimensional graphene and polyaniline nanowire arrays hybrid foams for high-performance flexible and lightweight supercapacitors. 2014 , 2, 14413-14420	192
1425	Additive-Driven Self-Assembly of Well-Ordered Mesoporous Carbon/Iron Oxide Nanoparticle Composites for Supercapacitors. 2014 , 26, 2128-2137	118
1424	Exfoliation at Room Temperature for Improving Electrochemical Performance for Supercapacitors of Layered MnO ₂ . 2014 , 161, E1-E5	10
1423	Hydrogenation of nanostructured semiconductors for energy conversion and storage. 2014 , 59, 2144-2161	14
1422	Bivariate-continuous-tunable interface memristor based on Bi ₂ S ₃ nested nano-networks. 2014 , 7, 953-962	22
1421	Solvothermal Synthesis of Ni/Reduced Graphene Oxide Composites as Electrode Material for Supercapacitors. 2014 , 123, 560-568	34
1420	Nitrogen-Doped Hierarchical Porous Carbon Nanowhisker Ensembles on Carbon Nanofiber for High-Performance Supercapacitors. 2014 , 2, 1525-1533	91
1419	Integrated Synthesis of Nitrogen-Doped Mesoporous Carbon from Melamine Resins with Superior Performance in Supercapacitors. 2014 , 118, 2507-2517	147

1418	The effect of acid treatment on thermally exfoliated graphite oxide as electrode for supercapacitors. 2014 , 138, 311-317	9
1417	One-step synthesis of CoNi ₂ S ₄ nanoparticles for supercapacitor electrodes. 2014 , 4, 6998	113
1416	Enhanced supercapacitive performance of chemically grown cobalt-nickel hydroxides on three-dimensional graphene foam electrodes. 2014 , 6, 2450-8	152
1415	Anthraquinone on Porous Carbon Nanotubes with Improved Supercapacitor Performance. 2014 , 118, 8262-8270	121
1414	Facile synthesis of single-crystalline NiO nanosheet arrays on Ni foam for high-performance supercapacitors. 2014 , 16, 2878-2884	119
1413	Co(OH) nanosheet-decorated graphene-CNT composite for supercapacitors of high energy density. 2014 , 15, 014206	41
1412	Hollow S-doped carbon spheres from spherical CT/PEDOT composite particles and their CO ₂ sorption properties. 2014 , 436, 77-82	14
1411	Facile preparation of three-dimensional multilayer porous MnO ₂ /reduced graphene oxide composite and its supercapacitive performance. 2014 , 271, 582-588	53
1410	Synthesis of mesoporous carbons using a triblock copolymer containing sulfonic acid groups and their capacitance property. 2014 , 2, 10104	9
1409	Structure and electrochemical performance of nitrogen-containing nanoporous carbon from diphenylcarbazide via a template carbonization route. 2014 , 142, 84-91	11
1408	Hierarchical porous Ni(OH) ₂ grown from a compact ion layer as an electrode by using one-pot synthesis and its pseudocapacitive behaviour. 2014 , 4, 567-571	12
1407	Enhanced Capacitance Retention in a Supercapacitor Made of Carbon from Sugarcane Bagasse by Hydrothermal Pretreatment. 2014 , 28, 4233-4240	130
1406	Nanosized carbon black combined with Ni ₂ O ₃ as "universal" catalysts for synergistically catalyzing carbonization of polyolefin wastes to synthesize carbon nanotubes and application for supercapacitors. 2014 , 48, 4048-55	60
1405	Synthesis of Petal-Like Carbon Nanocapsule@MnO ₂ Core-Shell Particles and Their Application in Supercapacitors. 2014 , 161, H598-H605	11
1404	Ultrathin and lightweight 3D free-standing Ni@NiO nanowire membrane electrode for a supercapacitor with excellent capacitance retention at high rates. 2014 , 6, 13627-34	64
1403	Present and future supercapacitor carbon electrode materials for improved energy storage used in intelligent wireless sensor systems. 2014 , 9, 128-141	138
1402	Hierarchical nanostructures of polypyrrole@MnO ₂ composite electrodes for high performance solid-state asymmetric supercapacitors. 2014 , 6, 2922-8	90
1401	Porous graphitic carbon prepared from the catalytic carbonization of Mo-containing resin for supercapacitors. 2014 , 4, 13518	26

1400	Hierarchical porous NiCo ₂ O ₄ nanogras arrays grown on Ni foam as electrode material for high-performance supercapacitors. 2014 , 4, 20234-20238	25
1399	Reduced graphene oxide/porous oxide hybrid nanopowders: Solvothermal synthesis and electrochemical performance. 2014 , 27, 1013-1019	8
1398	Recent advances in porous graphene materials for supercapacitor applications. 2014 , 4, 45862-45884	179
1397	Novel approach to the processing of meso-macroporous thin films of graphite and in situ graphite/metal nanocomposites. 2014 , 4, 17748-17752	9
1396	Series asymmetric supercapacitors based on free-standing inner-connection electrodes for high energy density and high output voltage. 2014 , 6, 15073-9	32
1395	Fabrication of a 3D MnO ₂ /graphene hydrogel for high-performance asymmetric supercapacitors. 2014 , 2, 2765	192
1394	A comparison of carbon supports in MnO ₂ /C supercapacitors. 2014 , 4, 31416	21
1393	Predicting ion specific capacitances of supercapacitors due to quantum ionic interactions. 2014 , 427, 67-72	9
1392	Structure and electrochemical performance of highly nanoporous carbons from benzoate/metal complexes by a template carbonization method for supercapacitor application. 2014 , 72, 410-420	50
1391	Graphene/MnO ₂ nanocomposite for high-performance asymmetrical electrochemical capacitor. 2014 , 49, 577-583	39
1390	One-step preparation of single-crystalline Fe ₂ O ₃ particles/graphene composite hydrogels as high performance anode materials for supercapacitors. 2014 , 7, 86-96	335
1389	Integration of MnO ₂ thin film and carbon nanotubes to three-dimensional carbon microelectrodes for electrochemical microcapacitors. 2014 , 262, 494-500	20
1388	Miniature wire-shaped solar cells, electrochemical capacitors and lithium-ion batteries. 2014 , 17, 276-284	44
1387	Three-dimensional Co ₃ O ₄ @NiMoO ₄ core/shell nanowire arrays on Ni foam for electrochemical energy storage. 2014 , 6, 5050-5	175
1386	Electric double-layer capacitors based on highly graphitized nanoporous carbons derived from ZIF-67. 2014 , 20, 7895-900	344
1385	Tailoring Biomass-Derived Carbon Nanoarchitectures for High-Performance Supercapacitors. 2014 , 1, 332-337	66
1384	Electrochemical quartz crystal microbalance (EQCM) study of ion dynamics in nanoporous carbons. 2014 , 136, 8722-8	192
1383	Investigation of a Branchlike MoO ₃ /polypyrrole hybrid with enhanced electrochemical performance used as an electrode in supercapacitors. 2014 , 6, 1125-30	145

1382	Charging Mechanism and Moving Reaction Fronts in a Supercapacitor with Pseudocapacitance. 2014 , 161, A239-A246	11
1381	Direct Synthesis of Nitrogen-Doped Carbon Materials from Protic Ionic Liquids and Protic Salts: Structural and Physicochemical Correlations between Precursor and Carbon. 2014 , 26, 2915-2926	130
1380	Microbial fuel cell as a biocapacitor by using pseudo-capacitive anode materials. 2014 , 246, 642-649	75
1379	Direct correlation between the measured electrochemical capacitance, wettability and surface functional groups of CarbonNanosheets. 2014 , 132, 574-582	32
1378	Electrospun nanofiber of hybrid manganese oxides for supercapacitor: Relevance to mixed inorganic interfaces. 2014 , 255, 335-340	54
1377	Synthesis of MnO ₂ /graphene/carbon nanotube nanostructured ternary composite for supercapacitor electrodes with high rate capability. 2014 , 147, 141-146	35
1376	Highly porous carbon spheres for electrochemical capacitors and capacitive flowable suspension electrodes. 2014 , 77, 155-164	132
1375	High performance supercapacitor electrodes from electrospun nickel oxide nanowires. 2014 , 610, 143-150	115
1374	MnO ₂ @colloid carbon spheres nanocomposites with tunable interior architecture for supercapacitors. 2014 , 49, 448-453	36
1373	Nitrogen-doped mesoporous carbon derived from biopolymer as electrode material for supercapacitors. 2014 , 712, 146-150	49
1372	Porous carbons prepared by direct carbonization of MOFs for supercapacitors. 2014 , 308, 306-310	122
1371	Capacitive behavior studies on electrical double layer capacitor using poly (vinyl alcohol)Πthium perchlorate based polymer electrolyte incorporated with TiO ₂ . 2014 , 143, 661-667	97
1370	Supercapacitive performance of hierarchical porous carbon microspheres prepared by simple one-pot method. 2014 , 254, 10-17	62
1369	Enhanced Symmetric Supercapacitive Performance of Co(OH) ₂ Nanorods Decorated Conducting Porous Graphene Foam Electrodes. 2014 , 129, 334-342	80
1368	One-dimensional heterostructures of beta-nickel hydroxide nanoplates/electrospun carbon nanofibers: Controlled fabrication and high capacitive property. 2014 , 39, 16162-16170	14
1367	Bismuth oxide nanotubes-graphene fiber-based flexible supercapacitors. 2014 , 6, 8595-600	105
1366	Water Adsorption in Nanoporous Carbon Characterized by in Situ NMR: Measurements of Pore Size and Pore Size Distribution. 2014 , 118, 8474-8480	23
1365	Effect of supercritical CO ₂ on fabrication of free-standing hierarchical graphene oxide/carbon nanofiber/polypyrrole film and its electrochemical property. 2014 , 16, 7350-7	18

1364	Ionic liquid-assisted synthesis of microporous carbon nanosheets for use in high rate and long cycle life supercapacitors. 2014 , 26, 3700-5	145
1363	Comparative Study of Cationic Surfactant CTAC Tailoring. 2014 , 140, 04014013	1
1362	Capacitive energy storage in micro-scale devices: recent advances in design and fabrication of micro-supercapacitors. 2014 , 7, 867	961
1361	A stable polyaniline-benzoquinone-hydroquinone supercapacitor. 2014 , 26, 5095-100	176
1360	Phase Transformation Induced Capacitance Activation for 3D Graphene-CoO Nanorod Pseudocapacitor. 2014 , 4, 1301788	75
1359	High performance nitrogen-doped porous graphene/carbon frameworks for supercapacitors. 2014 , 2, 8859	85
1358	High-performance multifunctional graphene yarns: toward wearable all-carbon energy storage textiles. 2014 , 8, 2456-66	290
1357	Nanomaterial-based biosensors for food toxin detection. 2014 , 174, 880-96	73
1356	The development of chiral nematic mesoporous materials. 2014 , 47, 1088-96	223
1355	Silver Nanoparticles Decorated Polyaniline/Multiwalled Carbon Nanotubes Nanocomposite for High-Performance Supercapacitor Electrode. 2014 , 53, 3495-3508	134
1354	Improving the Cycling Stability of Metal Nitride Supercapacitor Electrodes with a Thin Carbon Shell. 2014 , 4, 1300994	188
1353	Multi-wall carbon nanotubes supported on carbon fiber paper synthesized by simple chemical vapor deposition. 2014 , 187, 113-119	16
1352	Ternary manganese ferrite/graphene/polyaniline nanostructure with enhanced electrochemical capacitance performance. 2014 , 266, 384-392	137
1351	Rapid fabrication of graphene/ZnO composite thin film. 2014 , 53, 05HA01	1
1350	Three-dimensional cross-linked carbon network wrapped with ordered polyaniline nanowires for high-performance pseudo-supercapacitors. 2014 , 268, 451-458	55
1349	Electrochemical investigation of copper/nickel oxide composites for supercapacitor applications. 2014 , 39, 16562-16568	28
1348	The electrochemical performance of SnO ₂ quantum dots@zeolitic imidazolate frameworks-8 (ZIF-8) composite material for supercapacitors. 2014 , 128, 208-211	52
1347	A general approach toward enhancement of pseudocapacitive performance of conducting polymers by redox-active electrolytes. 2014 , 267, 521-526	40

1346	Growth of nickel (111) plane: The key role in nickel for further improving the electrochemical property of hexagonal nickel hydroxide-nickel & reduced graphene oxide composite. 2014 , 267, 356-365	39
1345	Recent progress in nickel based materials for high performance pseudocapacitor electrodes. 2014 , 267, 430-444	147
1344	Meso- and micro- porous composite carbons derived from humic acid for supercapacitors. 2014 , 136, 504-512	78
1343	Simple and scalable synthesis of phosphorus and nitrogen enriched porous carbons with high volumetric capacitance. 2014 , 136, 466-472	40
1342	Hydrothermal synthesis of microalgae-derived microporous carbons for electrochemical capacitors. 2014 , 267, 26-32	131
1341	Activated carbon made from cow dung as electrode material for electrochemical double layer capacitor. 2014 , 262, 224-231	213
1340	Supercapacitors have an asymmetric electrode potential and charge due to nonelectrostatic electrolyte interactions. 2014 , 460, 51-59	7
1339	Highly nanoporous carbon derived from potassium biphthalate by a template carbonization method. 2014 , 125, 652-658	3
1338	Synthesis of Fe ₃ O ₄ /C composite as electrochemical capacitor in aqueous electrolytes. 2014 ,	
1337	Large Pseudocapitance in Quinone-Functionalized Zeolite-Templated Carbon. 2014 , 87, 250-257	58
1336	One-pot hydrothermal synthesis of graphene/MgAl-LDH composite by urea hydrolysis. 2014 , 3, 30-38	1
1335	Graphene and Graphene-Based Nanocomposites for Electrochemical Energy Storage. 2014 , 221-248	
1334	Synthesis of Graphene. 2014 , 34-77	1
1333	Nickel foam/graphene/MnO ₂ /PANI nanocomposite based electrode material for efficient supercapacitors. 2015 , 30, 3192-3200	23
1332	A polydopamine coated polyaniline single wall carbon nanotube composite material as a stable supercapacitor cathode in an organic electrolyte. 2015 , 30, 3575-3583	11
1331	High-Throughput of Polymer Derived Carbon Nanopillar Arrays for Enhanced Energy Storage Performance. 2015 , 1761, 1	
1330	Advanced Materials for Supercapacitors. 2015 , 423-449	
1329	Supercapacitors' Applications. 2015 , 479-492	2

- 1328 Introduction to Electrochemical Energy Storage and Conversion. **2015**, 3-32
- 1327 Preparation and electrochemical performance of nitrogen-enriched carbon based on melamine formaldehyde resin/graphene oxide composites. **2015**, 44, 205-213 2
- 1326 Vanadium Pentoxide Nanorods Anchored to and Wrapped with Graphene Nanosheets for High-Power Asymmetric Supercapacitors. **2015**, 2, 1264-1269 29
- 1325 Nanoporous Metal Papers for Scalable Hierarchical Electrode. **2015**, 2, 1500086 21
- 1324 Niobium Nitride NbN as a New High-Performance Electrode Material for Supercapacitors. **2015**, 2, 1500126 126
- 1323 Conjugated Polymer-Based Blends, Copolymers, and Composites: Synthesis, Properties, and Applications. **2015**, 1-118 5
- 1322 Carbon-Based Hybrid Composites as Advanced Electrodes for Supercapacitors. **2015**, 399-431 1
- 1321 Nanocarbons and Their Hybrids as Electrocatalysts for Metal-Air Batteries. **2015**, 177-214 2
- 1320 Dual Tuning of Biomass-Derived Hierarchical Carbon Nanostructures for Supercapacitors: the Role of Balanced Meso/Microporosity and Graphene. **2015**, 5, 15936 46
- 1319 Hierarchical One-Dimensional Ammonium Nickel Phosphate Microrods for High-Performance Pseudocapacitors. **2015**, 5, 17629 49
- 1318 Facile Synthesis of Carbon Nanosphere/NiCo₂O₄ Core-shell Sub-microspheres for High Performance Supercapacitor. **2015**, 5, 12903 95
- 1317 Li_{1.4}Al_{0.4}Ti_{1.6}(PO₄)₃ Used as Solid Electrolyte for Structural Supercapacitors. **2015**,
- 1316 Impedance spectroscopic analysis of composite electrode from activated carbon/conductive materials/ruthenium oxide for supercapacitor applications. **2015**, 0
- 1315 Liquid immersion thermal crosslinking of 3D polymer nanopatterns for direct carbonisation with high structural integrity. **2015**, 5, 18185 14
- 1314 A New Approach towards Improving the Specific Energy and Specific Power of a Carbon-Based Supercapacitor using Platinum-Nanoparticles on Etched Stainless Steel Current Collector. **2015**, 83, 1053-1060⁶
- 1313 Design of nanoporous materials with optimal sorption capacity. **2015**, 117, 244304 8
- 1312 Polypyrrole/Inorganic Nanocomposites for Supercapacitors. **2015**, 419-447
- 1311 Hierarchical Co-based Porous Layered Double Hydroxide Arrays Derived via Alkali Etching for High-performance Supercapacitors. **2015**, 5, 13082 38

1310	Electrochemical properties of CNT/NiO composite. 2015,	6
1309	Layer-by-Layer Self-Assembled Graphene Multilayer Films via Covalent Bonds for Supercapacitor Electrodes. 2015, 5, 14	16
1308	Fabrication and supercapacitive properties of hierarchical porous carbon from polyacrylonitrile. 2015, 72, 204-210	27
1307	Porous Graphene-Like Materials Prepared from Hollow Carbonaceous Microspheres for Supercapacitors. 2015, 1, 422-429	6
1306	Carbon-Based Materials for Lithium-Ion Batteries, Electrochemical Capacitors, and Their Hybrid Devices. 2015, 8, 2284-311	181
1305	Self-Stacked Reduced Graphene Oxide Nanosheets Coated with Cobalt-Nickel Hydroxide by One-Step Electrochemical Deposition toward Flexible Electrochromic Supercapacitors. 2015, 11, 4666-72	82
1304	Flexible Asymmetric Supercapacitor Based on Structure-Optimized Mn ₃ O ₄ /Reduced Graphene Oxide Nanohybrid Paper with High Energy and Power Density. 2015, 25, 7291-7299	137
1303	Programmable Nanocarbon-Based Architectures for Flexible Supercapacitors. 2015, 5, 1500677	78
1302	Microstructure of room temperature ionic liquids at stepped graphite electrodes. 2015, 61, 3022-3028	21
1301	Three-Dimensional NiMoO ₄ Nanosheets Supported on a Carbon Fibers@Pre-Treated Ni Foam (CF@PNF) Substrate as Advanced Electrodes for Asymmetric Supercapacitors. 2015, 10, 1745-52	22
1300	Cellulose Nanocrystal Aerogels as Universal 3D Lightweight Substrates for Supercapacitor Materials. 2015, 27, 6104-9	253
1299	Controllable Preparation of Polyaniline-Graphene Nanocomposites using Functionalized Graphene for Supercapacitor Electrodes. 2015, 21, 10408-15	50
1298	Nanoflake-Modulated La Se Thin Films Prepared for an Asymmetric Supercapacitor Device. 2015, 80, 1478-1487	27
1297	Platinum electrode modification: Unique surface carbonization approach to improve performance and sensitivity. 2015, 36, 1666-73	7
1296	Crosslinking Graphene Oxide into Robust 3D Porous N-Doped Graphene. 2015, 27, 5171-5	165
1295	Flash Converted Graphene for Ultra-High Power Supercapacitors. 2015, 5, 1500786	68
1294	A High-Performance Supercapacitor Based on KOH Activated 1D C70 Microstructures. 2015, 5, 1500871	51
1293	Stretchable Supercapacitor with Adjustable Volumetric Capacitance Based on 3D Interdigital Electrodes. 2015, 25, 4601-4606	69

1292	Advanced Graphene-Based Binder-Free Electrodes for High-Performance Energy Storage. 2015 , 27, 5264-79	130
1291	Self-Protection of Electrochemical Storage Devices via a Thermal Reversible Sol-Gel Transition. 2015 , 27, 5593-8	73
1290	Spatially Confined MnO ₂ Nanostructure Enabling Consecutive Reversible Charge Transfer from Mn(IV) to Mn(II) in a Mixed Pseudocapacitor-Battery Electrode. 2015 , 5, 1500772	47
1289	3 D Hierarchical Porous Carbon for Supercapacitors Prepared from Lignin through a Facile Template-Free Method. 2015 , 8, 2114-22	194
1288	Self-Assembled 3D Graphene-Based Aerogel with Co ₃ O ₄ Nanoparticles as High-Performance Asymmetric Supercapacitor Electrode. 2015 , 8, 2917-26	110
1287	A Discussion on the Activity Origin in Metal-Free Nitrogen-Doped Carbons For Oxygen Reduction Reaction and their Mechanisms. 2015 , 8, 2772-88	97
1286	Electrochemistry Investigation on the Graphene/Electrolyte Interface. 2015 , 27, 2760-2765	18
1285	Straightforward Generation of Pillared, Microporous Graphene Frameworks for Use in Supercapacitors. 2015 , 27, 6714-21	117
1284	Ultrahigh-Performance Pseudocapacitor Electrodes Based on Transition Metal Phosphide Nanosheets Array via Phosphorization: A General and Effective Approach. 2015 , 25, 7530-7538	287
1283	Recent Progress in Flexible Electrochemical Capacitors: Electrode Materials, Device Configuration, and Functions. 2015 , 5, 1500959	183
1282	Self-Healing Electronic Nanodevices. 2015 , 401-418	
1281	Preparation of Oxygen-enriched Activated Carbons from Coal-based Humic Acids by Zinc Chloride Activation. 2015 , 11, 439-446	2
1280	Emerging Analysis on the Preparation and Application of Graphene by Bibliometry. 2015 , 04,	0
1279	High-Performance Supercapacitors Based on Ionic Liquids and a Graphene Nanostructure. 2015 ,	7
1278	Highly Conductive Aromatic Functionalized Multi-Walled Carbon Nanotube for Inkjet Printable High Performance Supercapacitor Electrodes. 2015 , 10, e0131475	32
1277	Improved Symmetric Supercapacitive Performance of Binder-free PANI/Carbon Fiber Composites. 2015 , 12, 83-89	6
1276	Synthesis of Metal Oxide Decorated Polycarboxyphenyl Polymer-Grafted Multiwalled Carbon Nanotube Composites by a Chemical Grafting Approach for Supercapacitor Application. 2015 , 2015, 1-11	3
1275	. 2015 ,	7

1274	. 2015,	13
1273	. 2015,	3
1272	. 2015,	12
1271	Effect of waste cellulose fibres on the charge storage capacity of polypyrrole and graphene/polypyrrole electrodes for supercapacitor application. 2015 , 5, 27347-27355	47
1270	Graphene quantum dot-doped polyaniline nanofiber as high performance supercapacitor electrode materials. 2015 , 51, 12365-8	195
1269	One-step strategy to a three-dimensional NiS-reduced graphene oxide hybrid nanostructure for high performance supercapacitors. 2015 , 5, 23073-23079	71
1268	Supercapacitors based on camphor-derived meso/macroporous carbon sponge electrodes with ultrafast frequency response for ac line-filtering. 2015 , 3, 14105-14108	39
1267	Ultracompressible, high-rate supercapacitors from graphene-coated carbon nanotube aerogels. 2015 , 7, 5612-8	65
1266	Electrospun Carbon Nanofibers with in Situ Encapsulated Co ₃ O ₄ Nanoparticles as Electrodes for High-Performance Supercapacitors. 2015 , 7, 13503-11	165
1265	Asymmetric supercapacitors based on the in situ-grown mesoporous nickel oxide and activated carbon. 2015 , 19, 2391-2398	10
1264	Engineering of MnO ₂ -based nanocomposites for high-performance supercapacitors. 2015 , 74, 51-124	361
1263	Capacitive effects of nitrogen doping on cellulose-derived carbon nanofibers. 2015 , 160, 59-65	24
1262	Nitrogen-doped, FeNi alloy nanoparticle-decorated graphene as an efficient and stable electrode for electrochemical supercapacitors in acid medium. 2015 , 10, 104	12
1261	Facile synthesis of 3D flower-like porous NiO architectures with an excellent capacitance performance. 2015 , 5, 47506-47510	35
1260	Design, preparation and performance of novel three-dimensional hierarchically porous carbon for supercapacitors. 2015 , 173, 566-574	41
1259	A study on the pseudocapacitive behavior of poly(luminol)/graphene nanocomposite. 2015 , 751, 15-22	5
1258	Considerations for consistent characterization of electrochemical double-layer capacitor performance. 2015 , 290, 136-143	19
1257	Enhancement of the Carbon Nanowall Film Capacitance. Electron Transfer Kinetics on Functionalized Surfaces. 2015 , 31, 7129-37	20

1256	Wearable energy-dense and power-dense supercapacitor yarns enabled by scalable graphene-metallic textile composite electrodes. 2015 , 6, 7260	462
1255	Three dimensional architectures: design, assembly and application in electrochemical capacitors. 2015 , 3, 15792-15823	125
1254	Three-dimensional graphene oxide/polypyrrole composite electrodes fabricated by one-step electrodeposition for high performance supercapacitors. 2015 , 3, 14445-14457	168
1253	Ethanol-directed morphological evolution of hierarchical CeOx architectures as advanced electrochemical capacitors. 2015 , 3, 13970-13977	28
1252	Lignosulphonate-cellulose derived porous activated carbon for supercapacitor electrode. 2015 , 3, 15049-15056	72
1251	A review of electrolyte materials and compositions for electrochemical supercapacitors. <i>Chemical Society Reviews</i> , 2015 , 44, 7484-539	58.5 2002
1250	High rate capacitive performance of single-walled carbon nanotube aerogels. 2015 , 15, 662-669	50
1249	Freestanding one-dimensional manganese dioxide nanoflakes-titanium carbide/carbon core/double shell arrays as ultra-high performance supercapacitor electrode. 2015 , 293, 519-526	9
1248	Inspired by bread leavening: one-pot synthesis of hierarchically porous carbon for supercapacitors. 2015 , 17, 4053-4060	310
1247	Materials and fabrication of electrode scaffolds for deposition of MnO ₂ and their true performance in supercapacitors. 2015 , 293, 657-674	75
1246	Multilayered paper-like electrodes composed of alternating stacked mesoporous Mo ₂ N nanobelts and reduced graphene oxide for flexible all-solid-state supercapacitors. 2015 , 3, 14617-14624	66
1245	Recent developments in polymers derived from industrial lignin. 2015 , 132,	114
1244	Hierarchical Conducting Polymer@Clay Core-Shell Arrays for Flexible All-Solid-State Supercapacitor Devices. 2015 , 11, 3530-8	99
1243	Layered ternary sulfide CuSbS ₂ nanoplates for flexible solid-state supercapacitors. 2015 , 3, 13263-13274	74
1242	One-Dimensional Vanadium Nitride Nanofibers Fabricated by Electrospinning for Supercapacitors. 2015 , 173, 680-686	55
1241	Fabrication of tungsten decorated titania nanotube arrays as electrode materials for supercapacitor applications. 2015 , 40, 8769-8777	13
1240	Electrochemical characteristics of graphene nanoribbon/polypyrrole composite prepared via oxidation polymerization in the presence of poly-(sodium 4-styrenesulfonate). 2015 , 161, 265-270	5
1239	Composites of MnO ₂ nanocrystals and partially graphitized hierarchically porous carbon spheres with improved rate capability for high-performance supercapacitors. 2015 , 93, 258-265	47

1238	Supercapacitors based on highly dispersed polypyrrole-reduced graphene oxide composite with a folded surface. 2015 , 120, 693-698	13
1237	Fabrication of high-quality graphene oxide nanoscrolls and application in supercapacitor. 2015 , 10, 192	43
1236	Fe ₃ O ₄ /carbon nanofibres with necklace architecture for enhanced electrochemical energy storage. 2015 , 3, 14245-14253	77
1235	Hierarchically porous carbon by activation of shiitake mushroom for capacitive energy storage. 2015 , 93, 315-324	317
1234	Surface activation of carbon paper with potassium dichromate lotion and application as a supercapacitor. 2015 , 349, 833-838	7
1233	Nanoarrays: design, preparation and supercapacitor applications. 2015 , 5, 55856-55869	53
1232	Precursor-controlled and template-free synthesis of nitrogen-doped carbon nanoparticles for supercapacitors. 2015 , 5, 50063-50069	24
1231	Electric double-layer transistors: a review of recent progress. 2015 , 50, 5641-5673	126
1230	Self-templating Scheme for the Synthesis of Nanostructured Transition-Metal Chalcogenide Electrodes for Capacitive Energy Storage. 2015 , 27, 4661-4668	103
1229	A nitrogen-doped graphene electrocatalyst for selective oxygen reduction in presence of glucose and D-gluconic acid in pH-neutral media. 2015 , 186, 579-590	19
1228	Pseudocapacitance of CoMoO_4 nanoflakes in non-aqueous electrolyte and its bi-functional electro catalytic activity for methanol oxidation. 2015 , 40, 16297-16305	24
1227	On-chip supercapacitors with ultrahigh volumetric performance based on electrochemically co-deposited CuO/polypyrrole nanosheet arrays. 2015 , 26, 425402	23
1226	Metallic CoS ₂ nanowire electrodes for high cycling performance supercapacitors. 2015 , 26, 494001	45
1225	Controlled electrosynthesis of polyaniline on branched surface of reduced graphene oxide. 2015 , 51, 976-985	3
1224	Investigation of different aqueous electrolytes on the electrochemical performance of activated carbon-based supercapacitors. 2015 , 5, 107482-107487	66
1223	Hierarchical hollow MoS ₂ nanospheres with enhanced electrochemical properties used as an Electrode in Supercapacitor. 2015 , 186, 391-396	90
1222	Highly conductive, porous RuO ₂ /activated carbon nanofiber composites containing graphene for electrochemical capacitor electrodes. 2015 , 186, 337-344	35
1221	Enhanced electrochemical performance of ordered mesoporous carbons by a one-step carbonization/activation treatment. 2015 , 758, 39-45	12

1220	Self-supported yolk-shell nanocolloids towards high capacitance and excellent cycling performance. 2015 , 18, 273-282	48
1219	Advanced materials for aqueous supercapacitors in the asymmetric design. 2015 , 25, 527-544	114
1218	Anodic Oxide Nanostructures and Their Applications in Energy Generation and Storage. 2015 , 19-39	1
1217	Oxygen-enriched hierarchical porous carbon derived from biowaste sunflower heads for high-performance supercapacitors. 2015 , 5, 107785-107792	28
1216	Surface modification and electrochemical properties of activated carbons for supercapacitor electrodes. 2015 , 29, 1550254	2
1215	Vanadyl phosphate/reduced graphene oxide nanosheet hybrid material and its capacitance. 2015 , 178, 312-320	23
1214	Specific features of the electrical properties in partially graphitized porous biocarbons of beech wood. 2015 , 57, 1746-1751	4
1213	Preparation and optimization of Polyvinylidene fluoride (PVDF) triboelectric nanogenerator via electrospinning. 2015 ,	4
1212	High-performance supercapacitor of electrodeposited porous 3D polyaniline nanorods on functionalized carbon fiber paper: Effects of hydrophobic and hydrophilic surfaces of conductive carbon paper substrates. 2015 , 4, 176-185	18
1211	Influence of graphene microstructures on electrochemical performance for supercapacitors. 2015 , 25, 379-385	203
1210	Microwave solvothermal synthesis of mixed pine tree seed-like/disc-shaped microstructures of MnO _x (x = 4/3 and 1) with high specific capacitance for electrochemical capacitors. 2015 , 35, 111-119	3
1209	Flexible Cellulose-Based Films of Polyaniline-Graphene-Silver Nanowire for High-Performance Supercapacitors. 2015 , 6,	11
1208	Nitrogen-doped hollow activated carbon nanofibers as high performance supercapacitor electrodes. 2015 , 739, 84-88	47
1207	Preparation of activated carbon paper through a simple method and application as a supercapacitor. 2015 , 50, 1586-1593	22
1206	A graphene/carbon nanotube-conjugated polymer nanocomposite for high-performance organic supercapacitor electrodes. 2015 , 3, 3880-3890	40
1205	N-doped carbon foam based three-dimensional electrode architectures and asymmetric supercapacitors. 2015 , 3, 2853-2860	66
1204	Interconnected NiS nanosheets supported by nickel foam: Soaking fabrication and supercapacitors application. 2015 , 739, 156-163	129
1203	Flexible graphene devices related to energy conversion and storage. 2015 , 8, 790-823	282

1202	Pulse electropolymerization synthesis of PPy(DBS) nanoparticle layers. 2015 , 19, 655-661	5
1201	Porous layer-stacking carbon derived from in-built template in biomass for high volumetric performance supercapacitors. 2015 , 12, 141-151	436
1200	Nitrogen/manganese oxides co-doped nanoporous carbon materials: Structure characterization and electrochemical performances for supercapacitor applications. 2015 , 161, 84-94	9
1199	Superior performance hybrid (electrostatic double-layer and faradaic capacitor) polymer actuators incorporating noble metal oxides and carbon black. 2015 , 210, 748-755	11
1198	Hierarchical polypyrrole based composites for high performance asymmetric supercapacitors. 2015 , 283, 484-493	85
1197	One-step route synthesis of active carbon@La ₂ NiO ₄ /NiO hybrid coatings as supercapacitor electrode materials: Significant improvements in electrochemical performance. 2015 , 742, 1-7	24
1196	Graphene antidot lattices as potential electrode materials for supercapacitors. 2015 , 69, 316-321	4
1195	Hollow Tin Dioxide Microspheres With Multilayered Nanocrystalline Shells for Pseudocapacitor. 2015 , 155, 437-446	13
1194	Electrochemical performance of an asymmetric supercapacitor based on graphene and cobalt molybdate electrodes. 2015 , 5, 16319-16327	58
1193	High performance, All solid state, flexible Supercapacitor based on Ionic liquid functionalized Graphene. 2015 , 157, 245-251	55
1192	A facile preparation and electrochemical properties of nickel based compound-graphene sheet composites for supercapacitors. 2015 , 26, 522-528	15
1191	Dumbbell-like Au-Fe ₃ O ₄ nanoparticles: a new nanostructure for supercapacitors. 2015 , 7, 4890-3	65
1190	3D porous and ultralight carbon hybrid nanostructure fabricated from carbon foam covered by monolayer of nitrogen-doped carbon nanotubes for high performance supercapacitors. 2015 , 280, 678-686	104
1189	Rational design of high-surface-area carbon nanotube/microporous carbon core-shell nanocomposites for supercapacitor electrodes. 2015 , 7, 4817-25	48
1188	Effects of Annealing Temperature on the Structure and Capacitive Performance of Nanoscale Ti/IrO ₂ /rO ₂ Electrodes. 2015 , 98, 1485-1492	26
1187	Highly porous honeycomb manganese oxide@carbon fibers core-shell nanocables for flexible supercapacitors. 2015 , 13, 47-57	59
1186	Electrical double-layer capacitors. 2015 , 149-186	1
1185	An evaporation-induced tri-constituent assembly approach to fabricate an ordered mesoporous carbon/graphene aerogel for high-performance supercapacitors. 2015 , 5, 16765-16768	9

1184	Vertically Aligned Carbon Nanotubes on Carbon Nanofibers: A Hierarchical Three-Dimensional Carbon Nanostructure for High-Energy Flexible Supercapacitors. 2015 , 27, 1194-1200	96
1183	Enhanced Performance of Graphene/Epoxy Flexible Capacitors by Means of Ceramic Fillers. 2015 , 216, 707-713	8
1182	In Situ Preparation of Sandwich MoO ₃ /C Hybrid Nanostructures for High-Rate and Ultralong-Life Supercapacitors. 2015 , 25, 1886-1894	98
1181	Composite Nanoarchitectonics for Ternary Systems of Reduced Graphene Oxide/Carbon Nanotubes/Nickel Oxide with Enhanced Electrochemical Capacitor Performance. 2015 , 25, 267-274	63
1180	Nanostructured Mo-based electrode materials for electrochemical energy storage. <i>Chemical Society Reviews</i> , 2015 , 44, 2376-404	58.5 498
1179	A Facile approach to NiCoO ₂ intimately standing on nitrogen doped graphene sheets by one-step hydrothermal synthesis for supercapacitors. 2015 , 3, 7121-7131	83
1178	Flexible, Free-Standing TiO ₂ /Graphene/Polypyrrole Composite Films as Electrodes for Supercapacitors. 2015 , 119, 3903-3910	112
1177	Investigating Mechanisms Underlying Elevated-Temperature-Induced Capacity Fading of Aqueous MnO ₂ Polymorph Supercapacitors: Cryptomelane and Birnessite. 2015 , 162, A5106-A5114	18
1176	A silver-nanoparticle-catalyzed graphite composite for electrochemical energy storage. 2015 , 275, 688-693	13
1175	Ultrahigh performance supercapacitor from lacey reduced graphene oxide nanoribbons. 2015 , 7, 3110-6	100
1174	Nanomaterial-enabled stretchable conductors: strategies, materials and devices. 2015 , 27, 1480-511	510
1173	Ultrathin MoO ₃ nanocrystals self-assembled on graphene nanosheets via oxygen bonding as supercapacitor electrodes of high capacitance and long cycle life. 2015 , 12, 510-520	165
1172	Carbon nanotube spaced graphene aerogels with enhanced capacitance in aqueous and ionic liquid electrolytes. 2015 , 278, 751-759	106
1171	Graphene/polypyrrole-coated carbon nanofiber core-shell architecture electrode for electrochemical capacitors. 2015 , 5, 12692-12699	34
1170	Cellulose nanofibril/reduced graphene oxide/carbon nanotube hybrid aerogels for highly flexible and all-solid-state supercapacitors. 2015 , 7, 3263-71	292
1169	Cobalt oxide functionalized nanoporous carbon electrodes and their excellent supercapacitive performance. 2015 , 5, 13930-13940	16
1168	Polyaniline nanofiber/large mesoporous carbon composites as electrode materials for supercapacitors. 2015 , 332, 40-46	55
1167	Improved functionality of graphene and carbon nanotube hybrid foam architecture by UV-ozone treatment. 2015 , 7, 7045-50	24

1166	Flexible electric double-layer capacitors fabricated with micro-/mesoporous carbon electrodes and plastic crystal incorporated gel polymer electrolytes containing room temperature ionic liquids. 2015 , 19, 1347-1357	21
1165	Sulfur-doped porous carbon nanosheets as an advanced electrode material for supercapacitors. 2015 , 5, 13046-13051	78
1164	Graphene-Based Nanocomposites for Supercapacitors. 2015 , 123-144	0
1163	Preparation of Nitrogen and Sulfur dual-doped Mesoporous Carbon for Supercapacitor Electrodes with Long Cycle Stability. 2015 , 177, 327-334	53
1162	Electric Double-Layer Capacitors Based on Multiwalled Carbon Nanotubes: Can Nanostructuring of the Nanotubes Enhance Performance?. 2015 , 119, 3538-3544	21
1161	Three-dimensional graphene-wrapped PANI nanofiber composite as electrode material for supercapacitors. 2015 , 5, 13607-13612	29
1160	Activation of sucrose-derived carbon spheres for high-performance supercapacitor electrodes. 2015 , 5, 9307-9313	61
1159	Making a commercial carbon fiber cloth having comparable capacitances to carbon nanotubes and graphene in supercapacitors through a "top-down" approach. 2015 , 7, 3285-61	49
1158	Reduced graphene oxide hydrogel film with a continuous ion transport network for supercapacitors. 2015 , 7, 3712-8	37
1157	Asymmetric Supercapacitors Based on Activated-Carbon-Coated Carbon Nanotubes. 2015 , 2, 396-403	41
1156	Rapid synthesis of graphene/amorphous MnO ₂ composite with enhanced electrochemical performance for electrochemical capacitor. 2015 , 194, 41-47	28
1155	Flexible and stackable laser-induced graphene supercapacitors. 2015 , 7, 3414-9	265
1154	Natural source derived carbon paper supported conducting polymer nanowire arrays for high performance supercapacitors. 2015 , 5, 14441-14447	29
1153	In-situ synthesis of carbon nanotube/graphene composite sponge and its application as compressible supercapacitor electrode. 2015 , 157, 134-141	64
1152	Electrochemical Supercapacitors for Energy Storage and Conversion. 2015 , 1-25	105
1151	Facile Synthesis of Three Dimensional NiCo ₂ O ₄ @MnO ₂ Core-Shell Nanosheet Arrays and its Supercapacitive Performance. 2015 , 157, 31-40	78
1150	Facile synthesis of porous Mn ₂ O ₃ nanocubics for high-rate supercapacitors. 2015 , 157, 108-114	78
1149	Dendrimer-functionalized magnetic nanoparticles: A new electrode material for electrochemical energy storage devices. 2015 , 280, 217-226	54

1148	Facile synthesis of shape-controlled graphene/polyaniline composites for high performance supercapacitor electrode materials. 2015 , 39, 2261-2268	94
1147	Asymmetric Supercapacitors based on Hybrid CuO@Reduced Graphene Oxide@Sponge versus Reduced Graphene Oxide@Sponge Electrodes. 2015 , 3, 168-176	51
1146	Highly Stable Supercapacitors with Conducting Polymer Core-Shell Electrodes for Energy Storage Applications. 2015 , 5, 1401805	113
1145	Co ₃ O ₄ @MWCNT nanocable as cathode with superior electrochemical performance for supercapacitors. 2015 , 7, 2280-5	147
1144	Rational Design of Mesoporous Carbon Electrodes with High Mass Loading for Binder-Free Supercapacitors. 2015 , 3, 234-241	8
1143	Emerging energy and environmental applications of vertically-oriented graphenes. <i>Chemical Society Reviews</i> , 2015 , 44, 2108-21	58.5 220
1142	Carbon nitride in energy conversion and storage: recent advances and future prospects. 2015 , 8, 931-46	158
1141	Preparation of a reduced graphene oxide hydrogel by Ni ions and its use in a supercapacitor electrode. 2015 , 5, 22753-22758	12
1140	Nitrogen-doped hierarchical porous carbon for supercapacitor with well electrochemical performances. 2015 , 19, 1591-1597	22
1139	Efficient impact milling method to make porous graphitic materials for electric double layer capacitors. 2015 , 45, 385-395	6
1138	A multi-template carbonization approach to hierarchically nanoporous carbon for high-performance supercapacitors. 2015 , 19, 179-186	12
1137	Freestanding MnO ₂ nanoflakes/porous carbon nanofibers for high-performance flexible supercapacitor electrodes. 2015 , 161, 427-435	102
1136	Porous structure design of carbon xerogels for advanced supercapacitor. 2015 , 153, 32-40	29
1135	Directly carbonized lotus seedpod shells as high-stable electrode material for supercapacitors. 2015 , 21, 809-816	8
1134	Hierarchical porous carbon based on the self-templating structure of rice husk for high-performance supercapacitors. 2015 , 5, 19294-19300	87
1133	Preparation of Nanostructural Carbon Nanofibers and Their Electrochemical Performance for Supercapacitors. 2015 , 183, 85-93	59
1132	Performance analysis of a novel coaxial power-split hybrid powertrain using a CNG engine and supercapacitors. 2015 , 157, 595-606	35
1131	Nitrogen-containing nanoporous carbon derived from ethylenediamine tetraacetate magnesium and the electrochemical enhancement by the addition of Mg(OH) ₂ . 2015 , 19, 795-803	3

1130	Recent Advances in Continuum Modeling of Interfacial and Transport Phenomena in Electric Double Layer Capacitors. 2015 , 162, A5158-A5178	80
1129	Facile fabrication and supercapacitive properties of mesoporous zinc cobaltite microspheres. 2015 , 284, 138-145	53
1128	Macroscopic Carbon Nanotube-based 3D Monoliths. 2015 , 11, 3263-89	72
1127	CHAPTER 9:Nanostructured Carbon Materials for Energy Conversion and Storage. 2015 , 445-506	
1126	Three-dimensional Co ₃ O ₄ @C@Ni ₃ S ₂ sandwich-structured nanoneedle arrays: towards high-performance flexible all-solid-state asymmetric supercapacitors. 2015 , 3, 16150-16161	155
1125	Valorization of Lignin Waste: Carbons from Hydrothermal Carbonization of Renewable Lignin as Superior Sorbents for CO ₂ and Hydrogen Storage. 2015 , 3, 1658-1667	112
1124	Recent advances on multi-component hybrid nanostructures for electrochemical capacitors. 2015 , 294, 31-50	94
1123	Controlled synthesis of V ₂ O ₅ /MWCNT core/shell hybrid aerogels through a mixed growth and self-assembly methodology for supercapacitors with high capacitance and ultralong cycle life. 2015 , 3, 15692-15699	61
1122	Capacitance behavior of ordered mesoporous carbon/Fe ₂ O ₃ composites: Comparison between 1D cylindrical, 2D hexagonal, and 3D bicontinuous mesostructures. 2015 , 93, 903-914	35
1121	In situ preparation of NiO/graphene nanocomposites: excellent candidate as a photocatalyst for enhanced solar hydrogen generation and high performance supercapacitor electrode. 2015 , 3, 17050-17063	80
1120	Facile self-templating large scale preparation of biomass-derived 3D hierarchical porous carbon for advanced supercapacitors. 2015 , 3, 18154-18162	326
1119	Growth of Ultrathin Mesoporous Ni-Mo Oxide Nanosheet Arrays on Ni Foam for High-performance Supercapacitor Electrodes. 2015 , 176, 1343-1351	35
1118	Investigation of the structure and ionic conductivity of intercalated kaolinites with potassium acetate in hydrous and anhydrous phases. 2015 , 44, 4665-70	7
1117	Rational design of polyaniline/MnO ₂ /carbon cloth ternary hybrids as electrodes for supercapacitors. 2015 , 5, 66311-66317	31
1116	Synthesis of mesoporous NiCo ₂ O ₄ @GO by a solvothermal method for charge storage applications. 2015 , 5, 66657-66666	102
1115	A simple Mg(OH) ₂ -assisted template carbonization method to N-doped nanoporous carbon material from phenidone and the capacitive improvement with the addition of azobisformamide. 2015 , 174, 111-119	2
1114	Design of aqueous redox-enhanced electrochemical capacitors with high specific energies and slow self-discharge. 2015 , 6, 7818	239
1113	Influence of Temperature on Supercapacitor Components. 2015 , 27-69	

1112	Facile synthesis of MnO ₂ /rGO/Ni composite foam with excellent pseudocapacitive behavior for supercapacitors. 2015 , 649, 579-584	40
1111	Enhancing 5 V capacitor performance by adding single walled carbon nanotubes into an ionic liquid electrolyte. 2015 , 3, 15858-15862	10
1110	"Thermal Charging" Phenomenon in Electrical Double Layer Capacitors. 2015 , 15, 5784-90	54
1109	Nitrogen-doped porous carbon derived from citric acid and urea with outstanding supercapacitance performance. 2015 , 178, 144-152	64
1108	Potential active materials for photo-supercapacitor: A review. 2015 , 296, 169-185	77
1107	Enhancement of CNT/PET film adhesion by nano-scale modification for flexible all-solid-state supercapacitors. 2015 , 355, 160-165	35
1106	Electrochemical actuation of multiwall carbon nanotube fiber with embedded carbide-derived carbon particles. 2015 , 94, 911-918	16
1105	Sustainable carbon nanofibers/nanotubes composites from cellulose as electrodes for supercapacitors. 2015 , 90, 1490-1496	46
1104	Molybdenum oxide nanowires based supercapacitors with enhanced capacitance and energy density in ethylammonium nitrate electrolyte. 2015 , 650, 123-126	19
1103	Pronounced improvement of supercapacitor capacitance by using redox active electrolyte of p-phenylenediamine. 2015 , 176, 941-948	28
1102	Valorization of lignin waste from hydrothermal treatment of biomass: towards porous carbonaceous composites for continuous hydrogenation. 2015 , 5, 63691-63696	13
1101	Preparation of hierarchically porous carbon nanofoams for electrode materials of supercapacitors. 2015 , 5, 70297-70301	6
1100	Preparation of Nitrogen-Doped Carbon Spheres by Injecting Pyrolysis of Pyridine. 2015 , 3, 1786-1793	31
1099	Thermochemical conversion of lignin to functional materials: a review and future directions. 2015 , 17, 4888-4907	339
1098	Fast diffusion supercapacitors via an ultra-high pore volume of crumpled 3D structure reduced graphene oxide activation. 2015 , 5, 60914-60919	21
1097	Hybrid MnO ₂ /C nano-composites on a macroporous electrically conductive network for supercapacitor electrodes. 2015 , 3, 16695-16707	35
1096	Excellent low temperature performance electrolyte of spiro-(1,1?)-bipyrrrolidinium tetrafluoroborate by tunable mixtures solvents for electric double layer capacitor. 2015 , 174, 215-220	21
1095	Synthesis of Few-Layer MoS ₂ Nanosheets-Wrapped Polyaniline Hierarchical Nanostructures for Enhanced Electrochemical Capacitance Performance. 2015 , 176, 149-155	62

1094	Partial conversion of current collectors into nickel copper oxide electrode materials for high-performance energy storage devices. 2015 , 7, 15277-84	27
1093	Hydrothermal synthesis of urchin-like MnO ₂ nanostructures and its electrochemical character for supercapacitor. 2015 , 351, 862-868	58
1092	Two-dimensional titanium carbide electrode with large mass loading for supercapacitor. 2015 , 294, 354-359	158
1091	High-Performance Supercapacitor Electrode Materials from Cellulose-Derived Carbon Nanofibers. 2015 , 7, 14946-53	144
1090	Hierarchical porous CNTs@NCS@MnO ₂ composites: rational design and high asymmetric supercapacitor performance. 2015 , 3, 15642-15649	34
1089	Activated carbon derived from melaleuca barks for outstanding high-rate supercapacitors. 2015 , 26, 304004	38
1088	A self-standing nanocomposite foam of polyaniline@reduced graphene oxide for flexible super-capacitors. 2015 , 209, 68-73	53
1087	A reduced graphene oxide modified metallic cobalt composite with superior electrochemical performance for supercapacitors. 2015 , 5, 63553-63560	49
1086	One step microwaved-assisted hydrothermal synthesis of nitrogen doped graphene for high performance of supercapacitor. 2015 , 355, 419-428	32
1085	Molecular-based design and emerging applications of nanoporous carbon spheres. 2015 , 14, 763-74	712
1084	Graphene oxide as a dual-function conductive binder for PEEK-derived microporous carbons in high performance supercapacitors. 2015 , 2, 024006	3
1083	Orientated Co ₃ O ₄ Nanocrystals on MWCNTs as Superior Battery-Type Positive Electrode Material for a Hybrid Capacitor. 2015 , 162, A1966-A1971	48
1082	Uniform fibrous-structured hollow mesoporous carbon spheres for high-performance supercapacitor electrodes. 2015 , 176, 542-547	36
1081	Rational design and synthesis of Ni _x Co _{3-x} O ₄ nanoparticles derived from multivariate MOF-74 for supercapacitors. 2015 , 3, 20145-20152	179
1080	Self-assembled fullerene additives for boosting the capacity of activated carbon electrodes in supercapacitors. 2015 , 5, 63834-63838	9
1079	Controlled synthesis of cobalt carbonate/graphene composites with excellent supercapacitive performance and pseudocapacitive characteristics. 2015 , 3, 17827-17836	38
1078	Three-dimensional microporous polypyrrole/polysulfone composite film electrode for supercapacitance performance. 2015 , 353, 788-792	11
1077	Co ₃ O ₄ /nitrogen-doped graphene/carbon nanotubes: An innovative ternary composite with enhanced electrochemical performance. 2015 , 647, 873-879	37

1076	Tailoring the textural properties of hierarchical porous carbons for supercapacitors. 2015 , 159, 377-380	8
1075	Facile and scalable fabrication of three-dimensional Cu(OH) ₂ nanoporous nanorods for solid-state supercapacitors. 2015 , 3, 17385-17391	90
1074	Large-scale synthesis of high-quality zeolite-templated carbons without depositing external carbon layers. 2015 , 280, 597-605	23
1073	Preparation of highly expanded graphene with large surface area and its additional conductive effect for EDLC performance. 2015 , 26, 6945-6953	4
1072	A rectification-free piezo-supercapacitor with a polyvinylidene fluoride separator and functionalized carbon cloth electrodes. 2015 , 3, 14963-14970	88
1071	Eco-friendly synthesis of hierarchical ginkgo-derived carbon nanoparticles/NiAl-layered double hydroxide hybrid electrodes toward high-performance supercapacitors. 2015 , 5, 55109-55118	15
1070	Flexible carbon cloth based polypyrrole for an electrochemical supercapacitor. 2015 , 26, 6373-6379	18
1069	Multifunctional structural battery and supercapacitor composites. 2015 , 619-661	1
1068	Polyanthraquinone-based nanostructured electrode material capable of high-performance pseudocapacitive energy storage in aprotic electrolyte. 2015 , 15, 654-661	54
1067	Electropolymerized polypyrrole nanocomposites with cobalt oxide coated on carbon paper for electrochemical energy storage. 2015 , 67, 192-199	78
1066	Hierarchical ZnO@MnO ₂ @PPy ternary core-shell nanorod arrays: an efficient integration of active materials for energy storage. 2015 , 5, 39864-39869	12
1065	Activation of the Solid Silica Layer of Aerosol-Based C/SiO ₂ Particles for Preparation of Various Functional Multishelled Hollow Microspheres. 2015 , 31, 5164-73	6
1064	Facile preparation of flower-like NiCo ₂ O ₄ /three dimensional graphene foam hybrid for high performance supercapacitor electrodes. 2015 , 89, 328-339	120
1063	Advanced asymmetric supercapacitors based on Ni ₃ (PO ₄) ₂ @GO and Fe ₂ O ₃ @GO electrodes with high specific capacitance and high energy density. 2015 , 5, 41721-41728	50
1062	Hollow melamine resin-based carbon spheres/graphene composite with excellent performance for supercapacitors. 2015 , 166, 310-319	78
1061	Face-to-face self-assembly graphene/MnO ₂ nanocomposites for supercapacitor applications using electrochemically exfoliated graphene. 2015 , 167, 412-420	48
1060	Synthesis, structure and electrochemical properties of lanthanum manganese nanofibers doped with Sr and Cu. 2015 , 638, 204-213	48
1059	Fabrication of polyaniline/urchin-like mesoporous TiO ₂ spheres nanocomposite and its application in supercapacitors. 2015 , 163, 232-237	23

1058	Facile solvothermal synthesis of porous ZnFe ₂ O ₄ microspheres for capacitive pseudocapacitors. 2015 , 5, 39270-39277	65
1057	Facile large scale synthesis of Bi ₂ S ₃ nano rods/graphene composite for photocatalytic photoelectrochemical and supercapacitor application. 2015 , 351, 635-645	81
1056	Effect of reducing agent on graphene synthesis and its influence on charge storage towards supercapacitor applications. 2015 , 153, 22-31	78
1055	A molecular hybrid polyoxometalate-organometallic moieties and its relevance to supercapacitors in physiological electrolytes. 2015 , 284, 524-535	16
1054	Improved electrochemical performances of reduced graphene oxide based supercapacitor using redox additive electrolyte. 2015 , 90, 260-273	128
1053	Oxygen group-containing activated carbon aerogel as an electrode material for supercapacitor. 2015 , 70, 209-214	38
1052	Large scale production of biomass-derived nitrogen-doped porous carbon materials for supercapacitors. 2015 , 169, 186-194	158
1051	Characterization of TiO ₂ /MnO ₂ composite electrodes synthesized using spark plasma sintering technique. 2015 , 277, 303-309	5
1050	Self-assembled 3D cobalt phosphate octahydrate architecture for supercapacitor electrodes. 2015 , 152, 25-28	53
1049	Iron oxide-decorated carbon for supercapacitor anodes with ultrahigh energy density and outstanding cycling stability. 2015 , 9, 5198-207	375
1048	One-Pot Hydrothermal Synthesis of Reduced Graphene Oxide/Multiwalled Carbon Nanotubes Composite Material on Nickel Foam for Efficient Supercapacitor Electrode. 2015 , 6, 373-381	6
1047	Graphene-based nitrogen self-doped hierarchical porous carbon aerogels derived from chitosan for high performance supercapacitors. 2015 , 15, 9-23	420
1046	Graphene based integrated tandem supercapacitors fabricated directly on separators. 2015 , 15, 1-8	26
1045	Self-assembly of monodisperse starburst carbon spheres into hierarchically organized nanostructured supercapacitor electrodes. 2015 , 7, 9128-33	30
1044	Effect of different reduction methods on electrochemical cycling stability of reduced graphene oxide in supercapacitors. 2015 , 45, 57-65	4
1043	Synthesis of ordered mesoporous carbon nanofiber arrays/nickel/Boron amorphous alloy with high electrochemical performance for supercapacitor. 2015 , 50, 4622-4628	9
1042	Free-standing microporous paper-like graphene films with electrodeposited PPy coatings as electrodes for supercapacitors. 2015 , 26, 747-754	10
1041	Porous conducting polymer and reduced graphene oxide: preparation, characterization and electrochemical performance. 2015 , 26, 1668-1677	12

1040	High performance Na ₃ V ₂ (PO ₄) ₃ /C composite electrode for sodium-ion capacitors. 2015 , 21, 2633-2638	20
1039	Graphene-based materials for flexible supercapacitors. <i>Chemical Society Reviews</i> , 2015 , 44, 3639-65	58.5 851
1038	Ultra-Fast Microwave Synthesis of 3D Flower-Like Co ₉ S ₈ Hierarchical Architectures for High-Performance Supercapacitor Applications. 2015 , 2015, 2457-2462	54
1037	In-situ synthesis of vanadium pentoxide nanofibre/exfoliated graphene nanohybrid and its supercapacitor applications. 2015 , 287, 283-290	36
1036	Ultrahigh-rate and high-density lithium-ion capacitors through hybridizing nitrogen-enriched hierarchical porous carbon cathode with prelithiated microcrystalline graphite anode. 2015 , 15, 43-53	125
1035	Materials for Flexible, Stretchable Electronics: Graphene and 2D Materials. 2015 , 45, 63-84	266
1034	The Effect of Thermal Exfoliation Temperature on the Structure and Supercapacitive Performance of Graphene Nanosheets. 2015 , 7, 17-26	26
1033	High-Performance Solid-State Supercapacitors Fabricated by Pencil Drawing and Polypyrrole Depositing on Paper Substrate. 2015 , 7, 276-281	40
1032	Microstructure, elastic and inelastic properties of partially graphitized biomorphic carbons. 2015 , 57, 586-591	5
1031	Synthesis and Capacitive Properties of Manganese Oxide Nanoparticles Dispersed on Hierarchical Porous Carbons. 2015 , 166, 107-116	33
1030	3D sponge-like nanoporous carbons via a facile synthesis for high-performance supercapacitors: direct carbonization of tartrate salt. 2015 , 169, 13-21	40
1029	Role of trap states on storage capacity in a graphene/MoO ₃ 2D electrode material. 2015 , 48, 145303	23
1028	Functional porous carbon/nickel oxide nanocomposites as binder-free electrodes for supercapacitors. 2015 , 21, 8200-6	40
1027	Vertically-Oriented Graphene for Supercapacitors. 2015 , 79-95	
1026	Electrochemical properties and applications of nanocrystalline, microcrystalline, and epitaxial cubic silicon carbide films. 2015 , 7, 10886-95	54
1025	Intercalation pseudo-capacitive TiNb ₂ O ₇ @carbon electrode for high-performance lithium ion hybrid electrochemical supercapacitors with ultrahigh energy density. 2015 , 15, 104-115	230
1024	Nanoporous graphene/single wall carbon nanohorn heterostructures with enhanced capacitance. 2015 , 3, 11740-11744	37
1023	Controllable synthesis of 3D binary nickel/cobalt hydroxide/graphene/nickel foam as a binder-free electrode for high-performance supercapacitors. 2015 , 3, 12530-12538	100

1022	Asymmetric Supercapacitors Using 3D Nanoporous Carbon and Cobalt Oxide Electrodes Synthesized from a Single Metal-Organic Framework. 2015 , 9, 6288-96	785
1021	Effect of dilution ratio and drying method of resorcinol-formaldehyde carbon gels on their electrocapacitive properties in aqueous and non-aqueous electrolytes. 2015 , 75, 407-412	11
1020	A Review for Aqueous Electrochemical Supercapacitors. 2015 , 3,	109
1019	Synthesis of highly crystalline polyaniline with the use of (Cyclohexylamino)-1-propanesulfonic acid for supercapacitor. 2015 , 45, 51-56	24
1018	Hierarchical porous nitrogen-doped carbon nanosheets derived from silk for ultrahigh-capacity battery anodes and supercapacitors. 2015 , 9, 2556-64	1164
1017	Polypyrrole encapsulation on flower-like porous NiO for advanced high-performance supercapacitors. 2015 , 51, 7669-72	89
1016	Facile synthesis of flower-like CoMn ₂ O ₄ microspheres for electrochemical supercapacitors. 2015 , 5, 30963-30969	69
1015	Hierarchical micro-architectures of electrodes for energy storage. 2015 , 284, 435-445	65
1014	Towards efficient solar STEP synthesis of benzoic acid: Role of graphite electrode. 2015 , 113, 303-312	10
1013	Mesoporous activated carbon spheres derived from resorcinol-formaldehyde resin with high performance for supercapacitors. 2015 , 19, 1783-1791	78
1012	From flour to honeycomb-like carbon foam: Carbon makes room for high energy density supercapacitors. 2015 , 13, 527-536	206
1011	Asymmetric supercapacitors based on carbon nanotubes@NiO ultrathin nanosheets core-shell composites and MOF-derived porous carbon polyhedrons with super-long cycle life. 2015 , 285, 281-290	249
1010	Hydrothermal Self-assembly of Manganese Dioxide/Manganese Carbonate/Reduced Graphene Oxide Aerogel for Asymmetric Supercapacitors. 2015 , 164, 154-162	99
1009	Homogeneous core-shell NiCo ₂ S ₄ nanostructures supported on nickel foam for supercapacitors. 2015 , 3, 12452-12460	349
1008	Fabrication of Asymmetric Supercapacitors Based on Coordination Polymer Derived Nanoporous Materials. 2015 , 183, 94-99	18
1007	Use of 1,10-Phenanthroline as an Additive for High-Performance Supercapacitors. 2015 , 119, 12165-12173	33
1006	Electrochemical processes and mechanistic aspects of field-effect sensors for biomolecules. 2015 , 3, 6445-6470	59
1005	Flexible supercapacitors based on paper substrates: a new paradigm for low-cost energy storage. <i>Chemical Society Reviews</i> , 2015 , 44, 5181-99	58.5 455

1004	High performance electrochemical capacitors based on MnO ₂ /activated-carbon-paper. 2015 , 3, 6166-6171	35
1003	A preliminary study of the pseudo-capacitance features of strontium doped lanthanum manganite. 2015 , 5, 5858-5862	35
1002	Fast lithium-ion storage of Nb ₂ O ₅ nanocrystals in situ grown on carbon nanotubes for high-performance asymmetric supercapacitors. 2015 , 5, 41179-41185	46
1001	Temperature-Dependent Conversion of Magnesium Citrate into Nanoporous Carbon Materials for Superior Supercapacitor Application by a Multitemplate Carbonization Method. 2015 , 54, 4956-4964	18
1000	A 2 V asymmetric supercapacitor based on reduced graphene oxide-carbon nanofiber-manganese carbonate nanocomposite and reduced graphene oxide in aqueous solution. 2015 , 19, 2311-2320	21
999	Preparation and electrochemical characteristics of electrospun water-soluble resorcinol/phenol-formaldehyde resin-based carbon nanofibers. 2015 , 5, 40884-40891	12
998	Reduced graphene–cadmium sulfide hybrid nanopowders: solvothermal synthesis and enhanced electrochemical performance. 2015 , 26, 5697-5702	3
997	Core–shell ultramicroporous@microporous carbon nanospheres as advanced supercapacitor electrodes. 2015 , 3, 11517-11526	145
996	Laser irradiated self-supporting and flexible 3-dimensional graphene-based film electrode with promising electrochemical properties. 2015 , 5, 47074-47079	9
995	Soft template mediated synthesis of Bi ₂ Te ₃ and its efficient visible-light-driven decomposition of methylene blue. 2015 , 5, 41941-41948	7
994	Nitrogen-doped porous graphene–activated carbon composite derived from Bucky gels for supercapacitors. 2015 , 5, 10739-10745	25
993	Shape-Tailorable Graphene-Based Ultra-High-Rate Supercapacitor for Wearable Electronics. 2015 , 9, 5636-45	111
992	Synthesis of Co ₃ O ₄ /SnO ₂ @MnO ₂ core–shell nanostructures for high-performance supercapacitors. 2015 , 3, 12852-12857	99
991	Functional group changes of polyacrylonitrile fibres during their oxidative, carbonization and electrochemical treatment. 2015 , 50, 4547-4564	27
990	A hierarchical porous carbon material from a loofah sponge network for high performance supercapacitors. 2015 , 5, 42430-42437	74
989	Co ₃ O ₄ @Reduced Graphene Oxide Nanoribbon for high performance Asymmetric Supercapacitor. 2015 , 169, 276-282	55
988	Layer-by-layer assembly of manganese–cobalt–nickel oxide nanosheets/graphene composite films. 2015 , 68, 194-202	18
987	Highly Ordered Metal Oxide Nanorods inside Mesoporous Silica Supported Carbon Nanomembranes: High Performance Electrode Materials for Symmetrical Supercapacitor Devices. 2015 , 119, 8530-8536	40

986	A generalized ZnCl ₂ activation method to produce nitrogen-containing nanoporous carbon materials for supercapacitor applications. 2015 , 636, 275-281	31
985	Controllable synthesis of activated graphene and its application in supercapacitors. 2015 , 3, 9543-9549	31
984	Highly ordered mesoporous few-layer graphene frameworks enabled by Fe ₃ O ₄ nanocrystal superlattices. 2015 , 54, 5727-31	86
983	MnO ₂ Nanosheets Grown on Nitrogen-Doped Hollow Carbon Shells as a High-Performance Electrode for Asymmetric Supercapacitors. 2015 , 21, 7119-26	54
982	Preparation of graphene nanosheets from microcrystalline graphite by low-temperature exfoliated method and their supercapacitive behavior. 2015 , 50, 4025-4033	23
981	Three dimensional carbon nanotube/nickel hydroxide gels for advanced supercapacitors. 2015 , 5, 30260-30267	11
980	Vertically-Oriented Graphene. 2015 ,	15
979	Facile preparation of NiCo ₂ O ₄ nanobelt/graphene composite for electrochemical capacitor application. 2015 , 166, 206-214	48
978	Graphitized hierarchical porous carbon nanospheres: simultaneous activation/graphitization and superior supercapacitance performance. 2015 , 3, 9565-9577	149
977	Promising biomass-based activated carbons derived from willow catkins for high performance supercapacitors. 2015 , 166, 1-11	292
976	Converting biowaste corncob residue into high value added porous carbon for supercapacitor electrodes. 2015 , 189, 285-291	230
975	Large-scale synthesis and activation of polygonal carbon nanofibers with thin ribbon-like structures for supercapacitor electrodes. 2015 , 5, 31837-31844	29
974	Hydrothermal synthesis of 3D Ni Co _{1.5} S ₂ particles/graphene composite hydrogels for high performance supercapacitors. 2015 , 90, 44-52	60
973	Graphene and Porous Nanocarbon Materials for Supercapacitor Applications. 2015 , 301-338	1
972	Carbon Nanotube-Based Thin Films for Flexible Supercapacitors. 2015 , 279-299	1
971	Carbon-Based Supercapacitors Produced by the Activation of Graphene. 2015 , 211-225	16
970	Supercapacitors Based on Graphene and Related Materials. 2015 , 227-252	2
969	Nanostructured Activated Carbons for Supercapacitors. 2015 , 1-34	3

968	Facile one-pot synthesis of highly porous carbon foams for high-performance supercapacitors using template-free direct pyrolysis. 2015 , 7, 8952-60	70
967	Highly Ordered Mesoporous Few-Layer Graphene Frameworks Enabled by Fe ₃ O ₄ Nanocrystal Superlattices. 2015 , 127, 5819-5823	26
966	Fabrication and functionalization of carbon nanotube films for high-performance flexible supercapacitors. 2015 , 92, 271-296	76
965	Flexible Hybrid Membranes with Ni(OH) ₂ Nanoplatelets Vertically Grown on Electrospun Carbon Nanofibers for High-Performance Supercapacitors. 2015 , 7, 22669-77	132
964	Lamellar-structured biomass-derived phosphorus- and nitrogen-co-doped porous carbon for high-performance supercapacitors. 2015 , 39, 9497-9503	58
963	A three-dimensional MnO ₂ /graphene hybrid as a binder-free supercapacitor electrode. 2015 , 5, 85613-85619	34
962	Solution combustion synthesis of metal oxide nanomaterials for energy storage and conversion. 2015 , 7, 17590-610	259
961	Crumpled Nitrogen-Doped Graphene for Supercapacitors with High Gravimetric and Volumetric Performances. 2015 , 7, 22284-91	67
960	Physioelectrochemical investigation of the supercapacitive performance of a ternary nanocomposite by common electrochemical methods and fast Fourier transform voltammetry. 2015 , 39, 9454-9460	46
959	Incorporating nanoporous polyaniline into layer-by-layer ionic liquid-carbon nanotube-graphene paper: towards freestanding flexible electrodes with improved supercapacitive performance. 2015 , 26, 374002	26
958	Isolating the effect of pore size distribution on electrochemical double-layer capacitance using activated fluid coke. 2015 , 300, 190-198	17
957	Preparation of electrode for electric double layer capacitor from electrospun lignin fibers. 2015 , 69, 1097-1106	38
956	Fabrication of manganese dioxide nanoplates anchoring on biomass-derived cross-linked carbon nanosheets for high-performance asymmetric supercapacitors. 2015 , 300, 309-317	106
955	Development of Low-Cost DDGS-Based Activated Carbons and Their Applications in Environmental Remediation and High-Performance Electrodes for Supercapacitors. 2015 , 23, 595-605	11
954	CoMoO ₄ and Ni _{1/3} Co _{2/3} MoO ₄ nanosheets with high performance supercapacitor and nonenzymatic glucose detection properties. 2015 , 5, 84451-84456	8
953	Microwave-assisted synthesis of 3D flowerlike Ni(OH) ₂ nanostructures for supercapacitor application. 2015 , 58, 1871-1876	10
952	Recent progress in micro-scale energy storage devices and future aspects. 2015 , 3, 22507-22541	154
951	Exploration and progress of high-energy supercapacitors and related electrode materials. 2015 , 58, 1851-1863	13

950	Leveraging ZnO morphologies in piezoelectric composites for mechanical energy harvesting. 2015 , 18, 212-221	29
949	Novel graphene/polyaniline/MnOx 3D-hydrogels obtained by controlled morphology of MnOx in the graphene/polyaniline matrix for high performance binder-free supercapacitor electrodes. 2015 , 5, 94388-94396	33
948	Strongly coupled manganese ferrite/carbon black/polyaniline hybrid for low-cost supercapacitors with high rate capability. 2015 , 185, 218-228	89
947	NiCo2S4 hollow microsphere decorated by acetylene black for high-performance asymmetric supercapacitor. 2015 , 186, 562-571	109
946	Electrochemical exfoliation of graphite and production of functional graphene. 2015 , 20, 329-338	202
945	An environmentally friendly method to remove and utilize the highly toxic strychnine in other products based on proton-transfer complexation. 2015 , 1102, 170-185	24
944	High-rate supercapacitive performance of GO/r-GO electrodes interfaced with plastic-crystal-based flexible gel polymer electrolyte. 2015 , 182, 995-1007	34
943	Highly flexible, tailorable and all-solid-state supercapacitors from carbon nanotube/MnOx composite films. 2015 , 5, 89188-89194	9
942	One-pot synthesis and electrochemical properties of graphene/SnO2/poly (p-phenylenediamine) ternary nanocomposites. 2015 , 652, 9-17	8
941	A novel electrolyte used in high working voltage application for electrical double-layer capacitor using spiro-(1,1?)-bipyrrolidinium tetrafluoroborate in mixtures solvents. 2015 , 182, 1166-1174	16
940	Cyclic ultracapacitor for fast-charging and scalable energy storage system. 2015 , 93, 210-219	5
939	Fabrication of coral like carbon black/MnO2 nano composites from commercial carbon black and their application in supercapacitors. 2015 , 5, 97080-97088	7
938	Glucose-derived nitrogen-doped hierarchical hollow nest-like carbon nanostructures from a novel template-free method as an outstanding electrode material for supercapacitors. 2015 , 3, 24453-24462	73
937	Facile Synthesis of Co3O4/Nitrogen-Doped Graphene Composite and their Electrochemical Performances. 2015 , 1120-1121, 347-351	
936	Hierarchically porous sulfur-containing activated carbon monoliths via ice-templating and one-step pyrolysis. 2015 , 95, 268-278	43
935	Controllable Synthesis of Functional Hollow Carbon Nanostructures with Dopamine As Precursor for Supercapacitors. 2015 , 7, 18609-17	116
934	Facile synthesis of nitrogen-doped carbon nanosheets with hierarchical porosity for high performance supercapacitors and lithium/Sulfur batteries. 2015 , 3, 18400-18405	86
933	Nitrogen-enriched carbon sheets derived from egg white by using expanded perlite template and its high-performance supercapacitors. 2015 , 26, 345401	15

932	Pore-size dependent effects on structure and vibrations of 1-ethyl-3-methylimidazolium tetrafluoroborate in nanoporous carbon. 2015 , 636, 129-133	8
931	Polyacrylamide-derived carbon materials: outstanding enhancement of supercapacitor capacitance simply by introducing redox additive of p-aminobenzenesulfonate into KOH electrolyte. 2015 , 5, 87571-87579	2
930	Iridium-ruthenium-oxide coatings for supercapacitors. 2015 , 93, 1941-1948	13
929	Direct formation of porous MnO ₂ /Ni composite foam applied for high-performance supercapacitors at mild conditions. 2015 , 178, 823-828	28
928	Aligned polyaniline nanowires grown on the internal surface of macroporous carbon for supercapacitors. 2015 , 3, 23307-23315	64
927	Development of electrochemical supercapacitors with uniform nanoporous silver network. 2015 , 182, 224-229	32
926	Synthesis of activated carbon nanospheres with hierarchical porous structure for high volumetric performance supercapacitors. 2015 , 182, 908-916	69
925	Titanium Oxynitride Nanoparticles Anchored on Carbon Nanotubes as Energy Storage Materials. 2015 , 7, 24212-7	26
924	Anion-exchange reaction synthesized CoNi ₂ S ₄ nanowires for superior electrochemical performances. 2015 , 5, 84974-84979	23
923	Dual-template synthesis of ordered mesoporous carbon/Fe ₂ O ₃ nanowires: high porosity and structural stability for supercapacitors. 2015 , 3, 21501-21510	38
922	A supercapacitor based on longitudinal unzipping of multi-walled carbon nanotubes for high temperature application. 2015 , 5, 83546-83557	40
921	Single-crystalline Ni(OH) ₂ nanosheets vertically aligned on a three-dimensional nanoporous metal for high-performance asymmetric supercapacitors. 2015 , 3, 23412-23419	40
920	Electrodeposition of high-capacitance 3D CoS/graphene nanosheets on nickel foam for high-performance aqueous asymmetric supercapacitors. 2015 , 3, 20619-20626	242
919	Encapsulating selenium into macro-/micro-porous biochar-based framework for high-performance lithium-selenium batteries. 2015 , 95, 354-363	77
918	Amorphous nickel pyrophosphate microstructures for high-performance flexible solid-state electrochemical energy storage devices. 2015 , 17, 339-347	117
917	Facile synthesis of hierarchical porous carbon via the liquidoid carbonization method for supercapacitors. 2015 , 39, 8165-8171	12
916	PtTeO ₂ /reduced graphene oxide nanocomposite for the electrooxidation of formic acid and formaldehyde. 2015 , 5, 73639-73650	25
915	Advances and prospects of fiber supercapacitors. 2015 , 3, 20863-20879	92

- 914 Hierarchical porous carbon derived from lignin for high performance supercapacitor. **2015**, 484, 518-527 98
- 913 Electron Transfer and Charge Storage in Thin Films of Nanoparticles. **2015**, 1-62 2
- 912 Facile Synthesis of Hierarchical Mesoporous Honeycomb-like NiO for Aqueous Asymmetric Supercapacitors. **2015**, 7, 19930-40 178
- 911 Remarkable capacitive enhancement of templated carbon materials by the redox additive electrolyte of p-phenylenediamine. **2015**, 5, 65100-65109 15
- 910 Rationally engineered surface properties of carbon nanofibers for the enhanced supercapacitive performance of binary metal oxide nanosheets. **2015**, 3, 19867-19872 12
- 909 Advanced asymmetric supercapacitors based on CNT@Ni(OH)₂ core-shell composites and 3D graphene networks. **2015**, 3, 19545-19555 122
- 908 Honeycomb in honeycomb carbon bubbles: excellent Li- and Na-storage performances. **2015**, 3, 20065-20072 15
- 907 Functional Biomass Carbons with Hierarchical Porous Structure for Supercapacitor Electrode Materials. **2015**, 180, 241-251 185
- 906 Enhanced desalination performance of membrane capacitive deionization cells by packing the flow chamber with granular activated carbon. **2015**, 85, 371-6 65
- 905 Coal derived porous carbon fibers with tunable internal channels for flexible electrodes and organic matter absorption. **2015**, 3, 21178-21184 55
- 904 Compaction: A mechanochemical approach to carbons with superior porosity and exceptional performance for hydrogen and CO₂ storage. **2015**, 16, 173-185 76
- 903 MnO₂/C composite electrodes free of conductive enhancer for supercapacitors. **2015**, 653, 539-545 22
- 902 Facile fabrication of multifunctional perfluoroalkyl functionalized graphene hydrogel via a synchronous reduction and grafting strategy. **2015**, 3, 21744-21753 11
- 901 Ultrathin MnO₂ nanoflakes grown on N-doped carbon nanoboxes for high-energy asymmetric supercapacitors. **2015**, 3, 21337-21342 58
- 900 Photonic and Semiconductor Materials Based on Cellulose Nanocrystals. **2015**, 287-328 11
- 899 Titanium doped niobium oxide for stable pseudocapacitive lithium ion storage and its application in 3 V non-aqueous supercapacitors. **2015**, 3, 21706-21712 33
- 898 Free-standing mesoporous electrospun carbon nanofiber webs without activation and their electrochemical performance. **2015**, 161, 587-590 21
- 897 Supercapacitors with ultrahigh energy density based on mesoporous carbon nanofibers: Enhanced double-layer electrochemical properties. **2015**, 653, 212-218 46

- 896 A comprehensive study of polyaniline-derived porous carbons via KOH activation. **2015**, 5, 77629-77636 8
- 895 MnO₂-based nanostructures for high-performance supercapacitors. **2015**, 3, 21380-21423 655
- 894 Quantum Effects on the Capacitance of Graphene-Based Electrodes. **2015**, 119, 22297-22303 92
- 893 Activated Carbon Nanochains with Tailored Micro-Meso Pore Structures and Their Application for Supercapacitors. **2015**, 119, 21810-21817 19
- 892 Microwave-assisted in situ synthesis of cobalt nanoparticles decorated on reduced graphene oxide as promising electrodes for supercapacitors. **2015**, 40, 13003-13013 13
- 891 Supercapacitor electrodes based on nano-polyaniline deposited on hollow carbon spheres derived from cross-linked co-polymers. **2015**, 209, 369-376 41
- 890 High Energy Density Aqueous Electrochemical Capacitors with a KI-KOH Electrolyte. **2015**, 7, 19978-85 61
- 889 Carbon@NiCo₂S₄ nanorods: an excellent electrode material for supercapacitors. **2015**, 5, 83408-83414 30
- 888 Needle-like MnO₂/activated carbon nanocomposites derived from human hair as versatile electrode materials for supercapacitors. **2015**, 5, 81492-81498 37
- 887 An Alternative Approach to Evaluate the Wettability of Carbon Fiber Substrates. **2015**, 7, 22029-35 15
- 886 Poly(thieno[3,4**B**]thiathiane): Effect of solvent on the chemical synthesis and capacitance comparison in different electrolytes. **2015**, 184, 338-346 3
- 885 3D graphene based materials for energy storage. **2015**, 20, 429-438 63
- 884 Effect of addition of different carbon materials on hydrogel derived carbon material for high performance electrochemical capacitors. **2015**, 186, 277-284 12
- 883 The large electrochemical capacitance of nitrogen-doped mesoporous carbon derived from egg white by using a ZnO template. **2015**, 5, 98177-98183 16
- 882 Synthesis of ternary graphene/molybdenum oxide/poly(p-phenylenediamine) nanocomposites for symmetric supercapacitors. **2015**, 5, 98278-98287 13
- 881 Polyaniline nano-wrinkles array on three-dimensional graphene film for high performance supercapacitors. **2015**, 210, 367-375 8
- 880 Zinc oxide nanoring embedded lacey graphene nanoribbons in symmetric/asymmetric electrochemical capacitive energy storage. **2015**, 7, 20642-51 66
- 879 Directly deposited MoS₂ thin film electrodes for high performance supercapacitors. **2015**, 3, 24049-24054 118

878	Growth of polypyrrole ultrathin films on MoS ₂ monolayers as high-performance supercapacitor electrodes. 2015 , 27, 1117-23	602
877	Facile preparation of N- and O-doped hollow carbon spheres derived from poly(o-phenylenediamine) for supercapacitors. 2015 , 3, 3409-3415	196
876	Zeolitic imidazolate framework-derived nitrogen-doped porous carbons as high performance supercapacitor electrode materials. 2015 , 85, 51-59	241
875	A facile fabrication of MnO ₂ /graphene hybrid microspheres with a porous secondary structure for high performance supercapacitors. 2015 , 19, 949-956	31
874	Self-assembly of charged corannulene with cesium ions: Always in the bowl. 2015 , 784, 69-74	27
873	Porous Dual-Layered MoO _x Nanotube Arrays with Highly Conductive TiN Cores for Supercapacitors. 2015 , 2, 512-517	22
872	Three-dimensional graphene-based composites for energy applications. 2015 , 7, 6924-43	211
871	Supercapacitor electrode materials: nanostructures from 0 to 3 dimensions. 2015 , 8, 702-730	1739
870	From rice bran to high energy density supercapacitors: a new route to control porous structure of 3D carbon. 2014 , 4, 7260	101
869	Novel tannin-based Si, P co-doped carbon for supercapacitor applications. 2015 , 275, 835-844	39
868	Fungi-derived hierarchically porous carbons for high-performance supercapacitors. 2015 , 5, 4396-4403	32
867	Effect of catalytic graphitization on the electrochemical behavior of wood derived carbons for use in supercapacitors. 2015 , 278, 18-26	81
866	Layer-Structured Copper Antimony Chalcogenides (CuSb ₂ Se ₂ S ₂): Stable Electrode Materials for Supercapacitors. 2015 , 27, 379-386	62
865	Supercapacitors Performance Evaluation. 2015 , 5, 1401401	798
864	High capacitive performance of exfoliated biochar nanosheets from biomass waste corn cob. 2015 , 3, 2903-2913	166
863	Hierarchical NiCo ₂ O ₄ nanosheets grown on Ni nanofoam as high-performance electrodes for supercapacitors. 2015 , 11, 804-8	211
862	Electrochemical reduction approach-based 3D graphene/Ni(OH) ₂ electrode for high-performance supercapacitors. 2015 , 154, 9-16	41
861	N-doped structures and surface functional groups of reduced graphene oxide and their effect on the electrochemical performance of supercapacitor with organic electrolyte. 2015 , 278, 218-229	106

860	Smart design of free-standing ultrathin Co-Co(OH) ₂ composite nanoflakes on 3D nickel foam for high-performance electrochemical capacitors. 2015 , 51, 1689-92	34
859	Shaped-controlled synthesis of porous NiCo ₂ O ₄ with 1-3 dimensional hierarchical nanostructures for high-performance supercapacitors. 2015 , 5, 1697-1704	40
858	Development of hybrid materials based on sponge supported reduced graphene oxide and transition metal hydroxides for hybrid energy storage devices. 2014 , 4, 7349	69
857	Low-temperature preparation of macroscopic nitrogen-doped graphene hydrogel for high-performance ultrafast supercapacitors. 2015 , 5, 8044-8049	10
856	Facile synthesis of ultrathin manganese dioxide nanosheets arrays on nickel foam as advanced binder-free supercapacitor electrodes. 2015 , 277, 36-43	138
855	A two-dimensional highly ordered mesoporous carbon/graphene nanocomposite for electrochemical double layer capacitors: effects of electrical and ionic conduction pathways. 2015 , 3, 2314-2322	43
854	Toward interconnected hierarchical porous structure via chemical depositing organic nano-polyaniline on inorganic carbon scaffold for supercapacitor. 2015 , 199, 205-213	16
853	Controlling porosity in lignin-derived nanoporous carbon for supercapacitor applications. 2015 , 8, 428-32	157
852	MnO ₂ nanoparticles decorated on electrophoretically deposited graphene nanosheets for high performance supercapacitor. 2015 , 40, 1037-1046	58
851	Poly(ionic liquid)-derived nanoporous carbon analyzed by combination of gas physisorption and small-angle neutron scattering. 2015 , 82, 425-435	31
850	Self-assembling sulfonated graphene/polyaniline nanocomposite paper for high performance supercapacitor. 2015 , 199, 79-86	41
849	Quaternary ammonium functionalized poly(aryl ether sulfone)s as separators for supercapacitors based on activated carbon electrodes. 2015 , 475, 562-570	28
848	Electroanalytical method for determination of shikonin based on the enhancement effect of cyclodextrin functionalized carbon nanotubes. 2015 , 26, 613-618	31
847	Facile synthesis of hierarchical porous ZnCo ₂ O ₄ microspheres for high-performance supercapacitors. 2015 , 3, 982-985	120
846	Fast synthesis of micro/mesoporous xerogels: Textural and energetic assessment. 2015 , 209, 2-9	11
845	Preparation and application of porous nitrogen-doped graphene obtained by co-pyrolysis of lignosulfonate and graphene oxide. 2015 , 176, 106-11	43
844	Controlled growth of nanostructured MnO ₂ on carbon nanotubes for high-performance electrochemical capacitors. 2015 , 152, 480-488	67
843	Super-high rate stretchable polypyrrole-based supercapacitors with excellent cycling stability. 2015 , 11, 518-525	214

842	Lithographically defined three-dimensional pore-patterned carbon with nitrogen doping for high-performance ultrathin supercapacitor applications. 2014 , 4, 5392	28
841	One-step synthesis and graphene-modification to achieve nickel phosphide nanoparticles with electrochemical properties suitable for supercapacitors. 2015 , 61, 333-339	52
840	A high energy and power Li-ion capacitor based on a TiO ₂ nanobelt array anode and a graphene hydrogel cathode. 2015 , 11, 1470-7	225
839	Nickel cobaltite as an emerging material for supercapacitors: An overview. 2015 , 11, 377-399	354
838	Densely packed graphene nanomesh-carbon nanotube hybrid film for ultra-high volumetric performance supercapacitors. 2015 , 11, 471-480	189
837	Functionalized graphene aerogel composites for high-performance asymmetric supercapacitors. 2015 , 11, 611-620	107
836	Graphene oxide-polyaniline-poly pyrrole nanocomposite for a supercapacitor electrode. 2015 , 5, 3005-3010	23
835	Superior asymmetric supercapacitor based on Ni-Co oxide nanosheets and carbon nanorods. 2014 , 4, 3712	142
834	Synthesis and Electrochemical Properties of Co Doped MnO ₂ Framework with Nanofibrous Structure. 2015 , 12, E59-E64	3
833	Hydrous ruthenium oxide nanoparticles anchored to graphene and carbon nanotube hybrid foam for supercapacitors. 2014 , 4, 4452	356
832	Effect of reducing system on capacitive behavior of reduced graphene oxide film: Application for supercapacitor. 2015 , 221, 338-344	8
831	Synthesis of functionalized 3D porous graphene using both ionic liquid and SiO ₂ spheres as "spacers" for high-performance application in supercapacitors. 2015 , 7, 659-69	48
830	Facile synthesis of wheat bran-derived honeycomb-like hierarchical carbon for advanced symmetric supercapacitor applications. 2015 , 19, 577-584	48
829	Air Electrode for the Lithium-Air Batteries: Materials and Structure Designs. 2015 , 80, 270-287	66
828	Fabrication of three-dimensional porous graphene-manganese dioxide composites as electrode materials for supercapacitors. 2015 , 465, 32-38	34
827	Facilitated transport channels in carbon nanotube/carbon nanofiber hierarchical composites decorated with manganese dioxide for flexible supercapacitors. 2015 , 274, 709-717	72
826	Recent advances in metal nitrides as high-performance electrode materials for energy storage devices. 2015 , 3, 1364-1387	331
825	Impedance spectroscopy study of a catechol-modified activated carbon electrode as active material in electrochemical capacitor. 2015 , 274, 551-559	33

824	Ultrahigh intercalation pseudocapacitance of mesoporous orthorhombic niobium pentoxide from a novel cellulose nanocrystal template. 2015 , 149-150, 495-504	50
823	Comparison of melamine resin and melamine network as precursors for carbon electrodes. 2015 , 81, 239-250	27
822	Vertically-aligned BCN nanotube arrays with superior performance in electrochemical capacitors. 2014 , 4, 6083	23
821	Pre-stabilized reduced graphene oxide by ammonia as carrier for Ni(OH) ₂ with excellent electrochemical property. 2015 , 19, 229-239	13
820	An Interface-Induced Co-Assembly Approach Towards Ordered Mesoporous Carbon/Graphene Aerogel for High-Performance Supercapacitors. 2015 , 25, 526-533	198
819	Amphiphilic carbonaceous material-based hierarchical porous carbon aerogels for supercapacitors. 2015 , 19, 619-627	9
818	Doping cobalt hydroxide nanowires for better supercapacitor performance. 2015 , 84, 20-28	20
817	Carbon materialization of ionic liquids: from solvents to materials. 2015 , 2, 168-197	135
816	Facile Synthesis of Graphene@NiO/MoO ₃ Composite Nanosheet Arrays for High-performance Supercapacitors. 2015 , 151, 510-516	40
815	Preparation of graphene oxide/polypyrrole/multi-walled carbon nanotube composite and its application in supercapacitors. 2015 , 151, 230-239	46
814	Hierarchical nanosheet-based NiMoO ₄ nanotubes: synthesis and high supercapacitor performance. 2015 , 3, 739-745	131
813	Graphene/silk fibroin based carbon nanocomposites for high performance supercapacitors. 2015 , 3, 773-781	61
812	Flexible and all-solid-state supercapacitors with long-time stability constructed on PET/Au/polyaniline hybrid electrodes. 2015 , 3, 617-623	39
811	High-performance two-ply yarn supercapacitors based on carbon nanotube yarns dotted with Co ₃ O ₄ and NiO nanoparticles. 2015 , 11, 854-61	194
810	Ag ₃ O ₄ grafted NiO nanosheets for high performance supercapacitors. 2015 , 3, 420-427	32
809	Diamond-coated silicon wires for supercapacitor applications in ionic liquids. 2015 , 51, 1-6	69
808	Synthesis and electrochemical properties of niobium pentoxide deposited on layered carbide-derived carbon. 2015 , 274, 121-129	64
807	Silica-based nanocapsules: synthesis, structure control and biomedical applications. <i>Chemical Society Reviews</i> , 2015 , 44, 315-35	58.5 179

806	Preparation of Ni(OH) ₂ -graphene sheet-carbon nanotube composite as electrode material for supercapacitors. 2015 , 618, 37-43	38
805	Controlled Growth of NiMoO ₄ Nanosheet and Nanorod Arrays on Various Conductive Substrates as Advanced Electrodes for Asymmetric Supercapacitors. 2015 , 5, 1401172	454
804	Facile synthesis of vanadium pentoxide@carbon core-shell nanowires for high-performance supercapacitors. 2015 , 273, 804-809	44
803	A high-capacitance solid-state supercapacitor based on free-standing film of polyaniline and carbon particles. 2015 , 153, 87-93	67
802	3D graphene/ZnO nanorods composite networks as supercapacitor electrodes. 2015 , 620, 31-37	107
801	Intense pulsed light-assisted facile and agile fabrication of cobalt oxide/nickel cobaltite nanoflakes on nickel-foam for high performance supercapacitor applications. 2015 , 618, 227-232	16
800	Centrifugal spinning: A novel approach to fabricate porous carbon fibers as binder-free electrodes for electric double-layer capacitors. 2015 , 273, 502-510	64
799	Mesoporous NiCo ₂ S ₄ nanoparticles as high-performance electrode materials for supercapacitors. 2015 , 273, 584-590	320
798	RETRACTED: An overview of mathematical modeling of electrochemical supercapacitors/ultracapacitors. 2015 , 273, 264-277	37
797	Engineering Nanostructured MnO ₂ for High Performance Supercapacitors. 2016 ,	1
796	Nanocarbons with Different Dimensions as Noble-Metal-Free Co-Catalysts for Photocatalysts. 2016 , 6, 111	5
795	Nanostructured Metal Oxides-Based Electrode in Supercapacitor Applications. 2016 ,	4
794	Study of Asymmetric Hybrid Supercapacitor using Carbon and Metal Oxides as Electrode Materials. 2016 , 9,	2
793	Hydroxy-Functionalized Graphene: A Proficient Energy Storage Material. 2016 , 06,	3
792	Synthesis and Applications of Semiconducting Graphene. 2016 , 2016, 1-19	15
791	Free-Standing Porous Carbon Nanofiber Networks from Electrospinning Polyimide for Supercapacitors. 2016 , 2016, 1-7	7
790	Design of Activated Carbon/Activated Carbon Asymmetric Capacitors. 2016 , 3,	37
789	Preparation and Electrocapacitive Properties of Hierarchical Porous Carbons Based on Loofah Sponge. 2016 , 9,	17

788	-doped TiO ₂ Nanotubes as an Effective Additive to Improve the Catalytic Capability of Methanol Oxidation for Pt/Graphene Nanocomposites. 2016 , 6,	15
787	Synthesis and applications of carbon nanomaterials for energy generation and storage. 2016 , 7, 149-96	86
786	Rapid one-step synthesis of conductive and porous MnO ₂ /graphene nanocomposite for high performance supercapacitors. 2016 , 776, 134-138	19
785	Nanomaterials and Technologies for Lithium-Ion Hybrid Supercapacitors. 2016 , 2, 578-587	61
784	Unconventional Carbon: Alkaline Dehalogenation of Polymers Yields N-Doped Carbon Electrode for High-Performance Capacitive Energy Storage. 2016 , 26, 3340-3348	79
783	Graphene-Based Nanocomposites for Energy Storage. 2016 , 6, 1502159	233
782	Designed Formation of MnO ₂ @NiO/NiMoO ₄ Nanowires@Nanosheets Hierarchical Structures with Enhanced Pseudocapacitive Properties. 2016 , 3, 1347-1353	24
781	Preparation of zinc-doped bagasse-based activated carbon multilayer composite and its electrochemical performance as a supercapacitor. 2022 , 329, 111518	0
780	Dense (non-hollow) carbon nanospheres: synthesis and electrochemical energy applications. 2021 , 16, 100147	1
779	Nest-Like MnO Nanowire/Hierarchical Porous Carbon Composite for High-Performance Supercapacitor from Oily Sludge. 2021 , 11,	1
778	Synergistic combination of N/P dual-doped activated carbon with redox-active electrolyte for high performance supercapacitors. 2021 , 110449	3
777	Environmental life cycle assessment of supercapacitor electrode production using algae derived biochar aerogel. 2021 , 3, 701-714	1
776	Conjugated Microporous Polymers via Solvent-Free Ionothermal Cyclotrimerization of Methyl Ketones.	4
775	In-situ fabrication of sulphur decorated elongated cuboctahedron shaped Mn ₃ O ₄ as high-performance active charge storage material for supercapacitor application. 2021 , 426, 127782	3
774	Synthesis and electrochemical performance of porous FeCo ₂ S ₄ nanorods as an electrode material for supercapacitor. 2021 , 44, 103330	3
773	High-performance discarded separator-based activated carbon for the application of supercapacitors. 2021 , 44, 103378	6
772	Electroless nickel-phosphorus coated expanded graphite paper: Binder-free, ultra-thin, and low-cost electrodes for high-performance supercapacitors. 2021 , 44, 103364	3
771	Investigating the application of caffeine-based ionic liquid modified by zinc bromide as an effective electrode in supercapacitor. 2021 , 44, 103323	1

- 770 Ternary nanocomposite cathodes based on 3D graphene-Ag nanoparticle-polyaniline for hybrid electrochemical energy device. **2021**, 282, 116932 3
- 769 Evolution and recent developments of high performance electrode material for supercapacitors: A review. **2021**, 44, 103366 10
- 768 Facile synthesis of carbon quantum dot -carbon nanotube composites on an eggshell-derived catalyst by one-step chemical vapor deposition. **2021**, 120, 108657 2
- 767 Unlocking the energy storage potential of polypyrrole via electrochemical graphene oxide for high performance zinc-ion hybrid supercapacitors. **2021**, 516, 230663 3
- 766 In-situ grafting of Au and Cu nanoparticles over graphitic carbon nitride sheets and unveiling its superior supercapacitive performance as a hybrid composite electrode material. **2021**, 44, 103308 3
- 765 Simple one-pot strategy for converting biowaste into valuable graphitized hierarchically porous biochar for high-efficiency capacitive storage. **2021**, 44, 103259 1
- 764 Encyclopedia of Applied Electrochemistry. **2014**, 2065-2067
- 763 Introduction. **2015**, 1-26
- 762 Electron Transfer and Charge Storage in Thin Films of Nanoparticles. **2016**, 869-939
- 761 Cluster-Assembled Carbon Thin Films for Planar Supercapacitors. 1-7
- 760 Hybrid Modeling of Membrane Processes. **2016**, 149-172
- 759 Synthesis and electrochemical properties of Ni-Co layered double hydroxides with high performance. **2017**, 66, 248202 1
- 758 Polymer- and Carbon-Based Nanofibres for Energy Storage. **2017**, 307-335
- 757 Introduction. **2017**, 1-13
- 756 Templated and Ordered Mesoporous Carbons. **2017**, 443-466
- 755 Micro/Nanoelectromechanical Systems. **2017**, 297-318
- 754 Useful Effects of Fumed Silica Nanoparticles in an Ionic Liquid Electrolyte for High Temperature Supercapacitor. **2018**, 28, 43-49 1
- 753 Field Effect and Applications. **2018**, 51-81

- 752 Introduction. **2018**, 1-29
- 751 Preparation of Potassium Niobate Nanosheet Composite as Electrode for Supercapacitors. **2018**, 08, 726-735
- 750 Pore Structure and Electrochemical Properties of Carbon Aerogels as an EDLC-Electrode with Different Preparation Conditions. **2018**, 28, 50-61 0
- 749 Recognition and applications of hierarchical domain structural analysis for synthetic carbons. **2018**, 2018, 99-107 3
- 748 One-step combustion synthesis porous amorphous NiO/C/CNTs composite for high-performance supercapacitors. **2018**, 13, 1209-1212
- 747 Electric double layer capacitors prepared with polyvinyl alcohol and multi-walled carbon nanotubes.
- 746 Laser direct writing using nanomaterials and device applications towards IoT technology. **2018**,
- 745 Graphene-Based Nanocomposites for Renewable Energy Application. **2019**, 1-36
- 744 High-voltage flexible solid state supercapacitor based on neutral hydrogel/carbon nanotube arrays. **2019**, 68, 108201 2
- 743 High Temperature Supercapacitor with Free Standing Quasi-solid Composite Electrolytes. **2019**, 29, 121-128 1
- 742 Synthesis, Structural, Morphological, Electrical, and Electrochemical Properties of Ni(OH)₂/Reduced Graphene Oxide Composite Materials. **2019**, 17,
- 741 Advanced Energy Storage Devices: Principles and Potential Applications in Sustainable Energetics. **2020**, 241-272
- 740 New High-Yield Method for the Production of Activated Carbon Via Hydrothermal Carbonization (HTC) Processing of Carbohydrates. **2019**, 10, 387-393 2
- 739 Self-standing Nanoarchitectures. **2020**, 1-56
- 738 Introduction. **2020**, 1-10
- 737 Bdirgenmi Grafen Oksit/İhko Oksit Kompozitlerin Etimi ve Sber Kapasiti Uygulamalar 2020 , 7, 201-210
- 736 Preparation of the 3D Porous Carbon Based on Vacuum residue and Its Application in Lithium Ion Capacitors. **2021**, 2044, 012117 0
- 735 Copper oxide nanoparticles decorated on nitrogen doped carbon hollow and their catalytic activities in synthesis of propargylamines and reduction of nitroarenes. **2021**, 134, 793 0

734	Conversion of Amorphous MOF Microspheres into a Nickel Phosphate Battery-Type Electrode Using the "Anticollapse" Two-Step Strategy. 2021 , 60, 17094-17102	3
733	Printable Electrode Materials for Supercapacitors. 2021 , 1, 17-17	3
732	Efficient Suzuki-Miyaura cross-coupling reaction by loading trace Pd nanoparticles onto copper-complex-derived Cu/C-700 solid support. 2021 , 608, 2463-2463	1
731	Facile synthesis of NiCo ₂ O ₄ nanostructure with enhanced electrochemical performance for supercapacitor application. 2021 , 786, 139181	0
730	Preparation of carbon-coated MnCO ₃ @MnO ₂ hierarchical hollow nanostructure and their application in supercapacitors. 1	1
729	Hierarchical porous carbon material regenerated from natural bamboo-leaf: How to improve the performance of lead-carbon batteries?. 2021 , 516, 230664	1
728	Advances in polymers for bio-additive manufacturing: A state of art review. 2021 , 72, 439-457	2
727	Oxygen-Rich Non-Graphitic Carbon Derived from [Citrus sinensis] for High-Energy Density Pseudocapacitive Charge Storage. 2020 , 5, 14993-15003	
726	Understanding the charge storage mechanism of supercapacitors: in situ/operando spectroscopic approaches and theoretical investigations.	13
725	Hybrid organic polymer electrolytes for dye-sensitized solar cells. 2022 , 181-212	0
724	Modified transition metal chalcogenides for high performance supercapacitors: Current trends and emerging opportunities. 2022 , 451, 214265	8
723	Organic-inorganic hybrid electrode engineering for high-performance asymmetric supercapacitor based on WO ₃ -CeO ₂ nanowires with oxygen vacancies. 2022 , 573, 151624	4
722	PBA composites and their derivatives in energy and environmental applications. 2022 , 451, 214260	12
721	Review on recent advances in nanostructured transition-metal-sulfide-based electrode materials for cathode materials of asymmetric supercapacitors. 2022 , 430, 132745	21
720	Charge regulation engineering to suppress Jahn-Teller distortion in low crystallinity In-doping MnCo ₂ O ₄ for high activity pseudocapacitors and hydrogen evolution reaction. 2022 , 430, 132886	3
719	Calculation of the fraction of pseudo-capacitance and electric double layer capacitance in carbon-based electrochemical capacitors. 2020 , 75, 135-140	1
718	Self-assembling of interconnected strips of CoMoO ₄ on graphene sheet as supercapacitor electrodes. 2020 ,	
717	Transition metal nitride nanoflake thin film grown by DC-magnetron sputtering for high-performance supercapacitor applications. 2020 ,	0

716	Nanoporous Activated Carbon and Multi-walled Carbon Nanotubes from Renewable Botanical Hydrocarbons and their Impact on Efficiency of Supercapacitor Performance. 2020 , 9, 01-04	0
715	Nanocellulose and nanohydrogel for energy, environmental, and biomedical applications. 2020 , 33-64	2
714	PANI Thin Films for Solar Cells. 2020 , 195-215	
713	Electrospun flexible lignin/polyacrylonitrile-based carbon nanofiber and its application in electrode materials for supercapacitors. 004051752110371	3
712	Heterogeneous activated carbon with graphitized shell and hydrophilic pores integrating high conductivity and pore affinity for excellent rate performance supercapacitors. 2021 , 310, 122410	1
711	Ultrafast Nonvolatile Ionic Liquids-Based Supercapacitors with Al Foam-Enhanced Carbon Electrode. 2021 , 13, 53904-53914	2
710	Titanium niobium oxides (TiNb ₂ O ₇): Design, fabrication and application in energy storage devices. 2021 , e00357	7
709	Mesoporous carbon materials for electrochemical energy storage and conversion.	0
708	Preparation of Sulfur-doped Carbon for Supercapacitor Applications: A Review. 2021 ,	4
707	PolyoxomolybdatePolypyrroleGraphene Oxide Nanohybrid Electrode for High-Power Symmetric Supercapacitors.	2
706	Rational design and synthesis of multi-shelled NiCo ₂ S ₄ hollow microspheres for high performance supercapacitors. 2021 , 44, 103407	0
705	Nanostructured Carbon-Based Electrode Materials for Supercapacitor Applications. 2021 , 317-355	1
704	Application of polyaniline and polypyrrole in electronics. 2020 , 28-31	
703	Membraneless Plant Microbial Fuel Cell using Water Hyacinth (Eichhornia crassipes) for Green Energy Generation and Biomass Production. 2021 , 10, 71-78	0
702	CNTs Supercapacitor Based on the PVDF/PVA Gel Electrolytes. 2020 , 14, 163-170	1
701	Recent Advancements of Hexaazatriphenylene-Based Materials for Energy Applications. 2021 , 41, 4167	
700	Polymer/graphene nanocomposites as versatile platforms for energy and electronic devices. 2022 , 173-196	
699	Supercapacitor electrode fabrication through chemical and physical routes. 2022 , 519, 230744	7

698	Structural supercapacitor constructed by SnO ₂ /graphene coated nickel foam electrode and synchronously synthesized polymer cement electrolyte at room temperature. 2022 , 277, 125488	1
697	Etlingera elatior leaf agricultural waste as activated carbon monolith for supercapacitor electrodes. 2021 , 2049, 012072	
696	One-Step Hydrothermal Synthesis of Nitrogen-Doped Reduced Graphene Oxide/Hausmannite Manganese Oxide for Symmetric and Asymmetric Pseudocapacitors. 2021 , 6, 31421-31434	2
695	Synthetic Approach to Rice Waste-Derived Carbon-Based Nanomaterials and Their Applications. 2021 , 1, 109-159	4
694	A Double-Deck Structure of Reduced Graphene Oxide Modified Porous TiCT Electrode towards Ultrasensitive and Simultaneous Detection of Dopamine and Uric Acid. 2021 , 11,	3
693	"Porous and Yet Dense" Electrodes for High-Volumetric-Performance Electrochemical Capacitors: Principles, Advances, and Challenges. 2021 , e2103953	1
692	N-doped MXene derived from chitosan for the highly effective electrochemical properties as supercapacitor. 2022 , 5, 356	21
691	Synthesis, Characterization and Evaluation of Supercapacitive Response of Dodecylbenzenesulphonic Acid (DBSA) Doped Polypyrrole/Zirconium Dioxide Composites. 2021 , 13,	
690	Advanced triboelectric materials for liquid energy harvesting and emerging application. 2021 ,	14
689	Pre-intercalation MnO ₂ Zinc-ion hybrid supercapacitor with high energy storage and Ultra-long cycle life. 2021 , 577, 151904	5
688	Coal-Derived Activated Carbon for Electrochemical Energy Storage: Status on Supercapacitor, Li-Ion Battery, and Li ⁺ Battery Applications. 2021 , 35, 18285-18307	1
687	Nanoarchitected transition metal oxides and their composites for supercapacitors.	0
686	Coordination Polymer Derived Porous Carbon Activated by the ZnCl ₂ Dot: Capacitances Greatly Enhanced by Redox-Activity Additives in Electrolytes. 2021 ,	0
685	An approach for quantum capacitance of graphene, carbon nanotube, silicene and hexagonal boron nitride nanoscale supercapacitors by non-equilibrium Green's function method. 2021 , 31, 100313	0
684	A Review of Supercapacitors: Materials Design, Modification, and Applications. 2021 , 14, 7779	19
683	Recent Progress in Flexible Graphene-Based Composite Fiber Electrodes for Supercapacitors. 2021 , 11, 1484	3
682	Viability of Activated Carbon Derived from Polystyrene Sulphonate Beads as Electrical Double Layer Capacitors. 2021 , 7, 82	0
681	Surface Modifications of Carbon Fiber Electrodes for Structural Supercapacitors. 1	1

680	A Facile Route to Synthesis of Hierarchically Porous Carbon Micelle System for Bifunctional Electrochemical Application.. 2021 , 9, 762103	0
679	Review Pseudocapacitive Energy Storage Materials from H ₂ O-Phase Compounds to High-Entropy Ceramics.	1
678	Stable and enhanced electrochemical performance based on hierarchical core-shell structure of CoMnO@NiSe electrode for hybrid supercapacitor. 2021 , 33,	2
677	Stable Lignin-Rich Nanofibers for Binder-Free Carbon Electrodes in Supercapacitors.	2
676	SDBS induced glucose urea derived microporous 2D carbon nanosheets as supercapacitor electrodes with excellent electrochemical performances. 2021 , 139677	1
675	Conducting polymer hydrogel based electrode materials for supercapacitor applications. 2021 , 103510	8
674	Structure and Capacitance of Electrical Double Layers in Tricationic Ionic Liquids with Organic Solvents. 2021 , 125, 12753-12762	0
673	Boosted electrochemical properties of polyimide-based carbon nanofibers containing micro/mesopore for high-performance supercapacitors by thermal rearrangement. 2021 , 47, 103672	0
672	Facile synthesis and electrochemical properties of alicyclic polyimides based carbon microflowers for electrode materials of supercapacitors. 2021 , 47, 103656	0
671	Novel composite materials consisting of polypyrrole and metal organic frameworks for supercapacitor applications. 2021 , 103699	3
670	Facile synthesis of efficient construction of tungsten disulfide/iron cobaltite nanocomposite grown on nickel foam as a battery-type energy material for electrochemical supercapacitors with superior performance.. 2022 , 609, 434-446	10
669	DFT Computation of quantum capacitance of transition-metals and vacancy doped Sc ₂ CF ₂ MXene for supercapacitor applications. 2021 , 118263	0
668	Hierarchical Carbon Nanofibers@Nickel Phosphide Nanoparticles for High-Performance Supercapacitors. 2100183	1
667	Introduction. 2022 , 1-38	
666	Tailoring the capacitive performance of ZnCo ₂ O ₄ by doping of Ni ²⁺ and fabrication of asymmetric supercapacitor. 2021 , 45, 21919-21927	0
665	Rational Design of Cobalt-Iron Bimetal Layered Hydroxide on Conductive Fabric as a Flexible Battery-Type Electrode for Enhancing the Performance of Hybrid Supercapacitor.	
664	Graphene Hybrids Intercalated with 2D Redox-Active Covalent Organic Framework as High-Performance Capacitive Materials.	
663	Correlation between the Pseudo-Capacitance Behavior and the Second-Order Phase Transition in the Li ⁺ Insertion/Desertion in Cu ₃ Si. 2021 , 79, 1511	

662	Tungstate-Modified Ionic Liquid Functionalized Magnetic Graphene Oxide: Synthesis and Application as a High-Performance Supercapacitor.	
661	Electrode Engineering in Halide Perovskite Electronics: Plenty of Room at the Interfaces.. 2022 , e2108616	12
660	Defective Metal-Organic Framework-808@Polyaniline Composite Materials for High Capacitance Retention Supercapacitor Electrodes.	5
659	Scalable preparation of high-strength hierarchically porous carbon beads with bicontinuous macroporous network by solvent induced phase separation technique for NO _x removal. 2022 , 330, 111620	0
658	Recent progress on porous carbon and its derivatives from plants as advanced electrode materials for supercapacitors. 2022 , 520, 230886	19
657	Glucose-derived activated carbons for supercapacitors: comparison between single O doping and N/O co-doping. 2022 , 406, 139861	0
656	Ion-pore size match effects and high-performance cucurbit[8]uril-carbon-based supercapacitors. 2022 , 405, 139827	1
655	A review on the development of a porous carbon-based as modeling materials for electric double layer capacitors. 2022 , 15, 103625	2
654	High capacitive storage behavior of hierarchically porous hollow-carbon spheres derived from the coupling of template-directing and post-activation methodology. 2022 , 122, 108816	0
653	A novel core-shell structured hybrid composed of zinc homobenzotrizoate and silver borotungstate with supercapacitor and photocatalytic dye degradation performance. 2022 , 46, 103873	5
652	Electrostatic self-assembly assisted hydrothermal synthesis of bimetallic NiCo ₂ S ₄ @N, S co-doped graphene for high performance asymmetric supercapacitors. 2022 , 404, 139751	1
651	Highly stable Megalopolis lignite based N and S self-doped hierarchically porous activated carbons for high performance supercapacitors and ash content effects on performance. 2022 , 46, 103817	1
650	Recent progress in trimetallic/ternary-metal oxides nanostructures: Misinterpretation/misconception of electrochemical data and devices. 2022 , 26, 101297	11
649	Applications of metal-organic framework-graphene composite materials in electrochemical energy storage. 2022 , 32, 100332	7
648	Advanced thermal regulating materials and systems for energy saving and thermal comfort in buildings. 2022 , 24, 100925	3
647	Controlled transformation of V-doped Co(OH) ₂ hexagonal nanosheets towards enhanced electrochemical performance. 2022 , 48, 103995	0
646	Ring structure characterization of nanoporous carbon materials prepared by thermal conversion of fullerenes: Insights from ReaxFF molecular dynamics simulations. 2022 , 189, 484-492	1
645	Pyrazine-based organic electrode material for high-performance supercapacitor applications. 2022 , 48, 103953	2

644	Supercapacitive properties of nickel molybdate/rGO hybrids prepared by the hydrothermal method. 2022 , 29, 101638	1
643	NiS/activated carbon composite derived from sodium lignosulfonate for long cycle-life asymmetric supercapacitors. 2022 , 900, 163546	1
642	Vanadomanganate as a synergistic component in high-performance symmetric supercapacitor. 2022 , 899, 163239	
641	Dynamics and structural transformations of carbon onion-like structures under high-velocity impacts. 2022 , 189, 422-429	0
640	Control-Oriented Modeling of Lithium-Ion Batteries. 2020 ,	
639	Fabrication of NiO/Ni Aerogel Electrodes for High Performance Supercapacitor Device.	
638	Artificial Synaptic Devices with Photoelectric Properties Based on Ionic Gel and Graphene. 2021 ,	
637	Nanoparticle and nanomineral production by fungi. 2021 ,	4
636	Enhancing the Performance of a Metal-Free Self-Supported Carbon Felt-Based Supercapacitor with Facile Two-Step Electrochemical Activation.. 2022 , 12,	2
635	Research progress and prospect of hybrid supercapacitors as boosting the performance. 1-18	1
634	Preparation and electrochemical characterization of porous carbon pearls from carboxymethyl cellulose for electrical double-layer capacitors. 1	1
633	Synthesis and Electrochemical Properties of and Modifications of MnO ₂ for Supercapacitors Application. 71, 111-119	
632	Investigation of magnetron sputtered Ni@Cu/ WS ₂ as an electrode material for potential supercapattery devices.	0
631	Preparation and Electrochemical Performance of Three-Dimensional Vertically Aligned Graphene by Unidirectional Freezing Method.. 2022 , 27,	2
630	Si-based polymer-derived ceramics for energy conversion and storage. 2022 , 11, 197-246	2
629	Preparation and Characterization of PANI/MWCNT/RGO Ternary Composites as Electrode Materials for Supercapacitors. 2022 , 51, 1409-1420	3
628	Humidity-resistant, durable, wearable single-electrode triboelectric nanogenerator for mechanical energy harvesting. 2022 , 57, 2813-2824	1
627	Oxides free materials for symmetric capacitors. 2022 , 75-94	

626	Ammonium nickel-cobalt phosphate nanoflowers on highly conductive carbon fibers as an electrode material for enhanced electrochemical performance supercapacitors.	0
625	Unprecedented Dual Role of Polyaniline for Enhanced Pseudocapacitance of Cobalt-iron Layered Double Hydroxide.. 2022 , e2100905	3
624	Symmetric Supercapacitor Application of Electrochemically Exfoliated Graphene [Chitosan Hydrogel.	
623	Electrode Materials for Supercapacitors in Hybrid Electric Vehicles: Challenges and Current Progress. 2022 , 7, 6	5
622	Facile synthesis of g-CN quantum dots/graphene hydrogel nanocomposites for high-performance supercapacitor.. 2022 , 12, 3561-3568	1
621	Porosity of Nanostructured Carbon Thin Films. 2022 , 159-179	
620	Valorization of Agricultural Wastes: A Step Toward Adoption of Smart Green Materials with Additional Benefit of Circular Economy. 2022 , 343-367	
619	Rational design, synthesis, and applications of carbon-assisted dispersive Ni-based composites. 2022 , 24, 912-921	0
618	Boron-doped porous carbon material derived from ZIF -11: Investigation of cotton fabric supercapacitor and Li-ion battery performances.	0
617	Ultrahigh-power supercapacitors from commercial activated carbon enabled by compositing with carbon nanomaterials. 2022 , 403, 139728	1
616	Application of Microbes in Synthesis of Electrode Materials for Supercapacitors. 2022 , 39-92	0
615	Proposal of a Facile Method to Fabricate a Multi-Dope Multiwall Carbon Nanotube as a Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. 2022 , 14, 965	1
614	Production of Activated Carbon Electrode for Energy Storage Application in Supercapacitors via KOH Activation of Waste Termite Biomass. 2022 , 13, 2689	0
613	Al-MOF-derived spindle-like hierarchical porous activated carbon for advanced supercapacitors.. 2022 ,	1
612	Cellulose-based composite carbon nanofibers. 2022 , 159-174	
611	Ultrasound-assisted facile one-pot synthesis of ternary MWCNT/MnO/rGO nanocomposite for high performance supercapacitors with commercial-level mass loadings.. 2021 , 82, 105896	2
610	Expanded Graphite-Based Materials for Supercapacitors: A Review.. 2022 , 27,	4
609	Fabrication of semi-flexible carbon quantum dots-reinforced polypyrrole (PPy / CQDs) composite electrodes by hybrid electrospray deposition for high-performance energy storage device.	1

608	Preparation of Electrochemical Supercapacitor Based on Polypyrrole/Gum Arabic Composites.. 2022 , 14,	2
607	Insights into binding mechanisms of size-selected graphene binders for flexible and conductive porous carbon electrodes. 2022 , 403, 139696	0
606	High-voltage and wide temperature aqueous supercapacitors aided by deep eutectic solvents. 2022 , 908, 116082	2
605	Tin oxide based nanostructured materials: synthesis and potential applications.. 2022 ,	4
604	Nanoarchitected MnO ₂ Confined to Mesoporous Carbon Microspheres as Bifunctional Electrodes for High-Performance Supercapacitors and Lithium-Ion Capacitors. 2022 , 61, 1748-1760	1
603	Carbon Materials as Positive Electrodes in Bromine-Based Flow Batteries.. 2022 , 87, e202100441	4
602	The yolk-shell nanorod structure of NiSe@C electrodes boosting charge transfer and cyclability in high-performance supercapacitors.. 2022 , 615, 133-140	2
601	Recent advances on fiber-reinforced multifunctional composites for structural supercapacitors. 2022 , 4, 012001	0
600	Electrochemical Characteristics of Zn-Ion Hybrid Supercapacitors Based on Aqueous Solution of Different Electrolytes. 2022 , 169, 020512	1
599	Detergent-free micelle-assisted synthesis of carbon-containing hexagonal CuS nanostructures for efficient supercapacitor electrode materials. 2022 , 407, 139918	1
598	Polypyrrole on pineapple (<i>Ananas comosus</i>) and water hyacinth (<i>Eichhornia crassipes</i>) polyester blended textiles as promising electrode materials for supercapacitor applications. 2022 , 279, 125774	3
597	Propping the electrochemical impedance spectra at different voltages reveals the untapped supercapacitive performance of materials. 2022 , 408, 139932	4
596	Hierarchical porous carbon induced by inherent structure of eggplant as sustainable electrode material for high performance supercapacitor. 2022 , 17, 1540-1552	1
595	A review on polyvinylidene fluoride polymer based nanocomposites for energy storage applications. 2022 , 48, 103788	3
594	Polyaniline wrapped carbon nanotube/exfoliated MoS ₂ nanosheet composite as a promising electrode for high power supercapacitors. 2022 , 7, 100154	4
593	Carbon material/MnO ₂ as conductive skeleton for supercapacitor electrode material: A review. 2022 , 158, 112131	8
592	Assemble 2D redox-active covalent organic framework/graphene hybrids as high-performance capacitive materials. 2022 , 190, 412-421	3
591	Mechanism enhanced active biochar support magnetic nano zero-valent iron for efficient removal of Cr(VI) from simulated polluted water. 2022 , 10, 107077	3

590	Supercapacitor-Inspired Triboelectric Nanogenerator Based on Electrostatic Double Layer. 2022 , 95, 106971	3
589	Specializing liquid electrolytes and carbon-based materials in EDLCs for low-temperature applications. 2022 , 68, 580-602	0
588	Synthesis and Electrochemical Properties of Polyaniline/S-rGO Composites with Different S-rGO Contents for Hybrid Energy Storage Devices.	
587	A Comparative Study on Supercapacitors Formed with Different Graphene-Based Hybrid Nanostructured Materials. 2022 , 1507-1515	
586	Electrochemical Determination of Dopamine at Nafion and Cyclodextrin-functionalized Multi-walled Carbon Nanotubes Composite Modified Glassy Carbon Electrode. 2022 , 1-1	
585	Synthesis and electrochemical properties of polyaniline/S-rGO nanocomposites with different S-rGO contents for hybrid energy storage devices. 2022 , 909, 116138	0
584	Atomic-Level Structure of Mesoporous Hexagonal Boron Nitride Determined by High-Resolution Solid-State Multinuclear Magnetic Resonance Spectroscopy and Density Functional Theory Calculations.	3
583	Review An Overview on Supercapacitors and Its Applications.	2
582	A New Era of Integrative Ice Frozen Assembly into Multiscale Architecturing of Energy Materials. 2112509	2
581	Harmonizing Graphene Laminate Spacing and Zinc-Ion Solvated Structure toward Efficient Compact Capacitive Charge Storage. 2112151	5
580	High Performance of Electrochemically Deposited NiCo ₂ S ₄ /CNT Composites on Nickel Foam in Flexible Asymmetric Supercapacitors.	0
579	Electrochemical properties of silver nanoparticle decorated on vertical graphene nanosheets. 2022 ,	
578	Evaluation of battery-grade alkaline earth metal sulfide electrodes for energy storage applications.	
577	Sonication-supported synthesis of cobalt oxide assembled on an N-MWCNT composite for electrochemical supercapacitors via three-electrode configuration.. 2022 , 12, 1998	1
576	A Survey of Hybrid Energy Devices Based on Supercapacitors. 2022 ,	1
575	An electrochemical system for salinity gradient energy harvesting. 2022 , 255, 115315	1
574	Two-dimensional vanadium sulfide flexible graphite/polymer films for near-infrared photoelectrocatalysis and electrochemical energy storage. 2022 , 435, 135131	1
573	Super capacitors for energy storage: Progress, applications and challenges. 2022 , 49, 104194	3

572 Energy-Related Applications. **2022**, 147-242

571 Study of Jaggery Derived Carbon Spheres for Supercapacitor Applications. **2022**, 163-167

570 Metal oxide-carbon composites for supercapacitor applications. **2022**, 133-177

569 Development of Hierarchical Nanostructures for Energy Storage. **2022**, 663-695

568 Fabrication of Ag Thin Film Nano Layered Structure and Its Potential Application as the Supercapacitor Electrode. **2022**, 105-111

567 Nickel phosphide-polyaniline binary composite as electrode material using chitosan biopolymer electrode binder for supercapattery applications. **2022**, 54, 912-922

566 Catalytic graphitization assisted synthesis of FeC/Fe/graphitic carbon with advanced pseudocapacitance.. **2022**, 12, 7935-7940

565 High-performance quasi-solid-state flexible supercapacitors based on a flower-like NiCo metal-organic framework.. **2022**, 12, 5910-5918

564 Reduced Graphene Oxide/Hexagonal Boron Nitride-Based Composite as a Positive Electrode in Asymmetric Supercapacitors.

563 Development of Perovskite Based Electrode Materials for Application in Electrochemical Supercapacitors: Present Status and Future Prospects. **2022**, 34, 497-507

562 Role of microbial nanotechnology in energy devices. **2022**, 517-547

561 Electrical conductivity of metal oxide-carbon composites. **2022**, 61-74

560 Liquid-based electrochemical systems for the conversion of heat to electricity. **2022**, 109-140



559 Synthesis of P-doped NiS as an electrode material for supercapacitors with enhanced rate capability and cycling stability. **2022**, 46, 6461-6469

558 Comparison between Atmospheric-Pressure-Plasma-Jet-Processed and Furnace-Calcined Rgo-Mnox Nanocomposite Electrodes for Gel-Electrolyte Supercapacitors.

557 Magnetic nanoparticles for high energy storage applications. **2022**, 601-618

556 Metal oxide-carbon composite: synthesis and properties by using conventional enabling technologies. **2022**, 25-60

555 Flexible neuromorphic transistors for bio-inspired perception application. **2022**,

554	Simple and Efficient Approach to Fabricate Fe ₃ O ₄ /CNT Based Electrode for Supercapacitor Application. 2022 , 273-282	
553	  409-115	
552	Nanocomposites for Energy Storage Applications. 2022 , 533-565	
551	The methodologically obtained derivative of ZIF-67 metalorganic frameworks present impressive supercapacitor performance.	1
550	Biomass-derived porous carbon materials: synthesis, designing, and applications for supercapacitors.	4
549	High-efficiency one-step microwave method for high-performance biomass-based hierarchical porous carbon. 1	0
548	Selective Passivation of Three-Dimensional Carbon Microelectrodes by Polydopamine Electrodeposition and Local Laser Ablation.. 2022 , 13,	1
547	Correlation of EDLC Capacitance with Physical Properties of Polyethylene Terephthalate Added Pitch-Based Activated Carbon.. 2022 , 27,	1
546	Polyvinylidene Fluoride Surface Polarization Enhancement for Liquid-Solid Triboelectric Nanogenerator and Its Application.. 2022 , 14,	0
545	A Better Zn-Ion Storage Device: Recent Progress for Zn-Ion Hybrid Supercapacitors.. 2022 , 14, 64	5
544	Role of Ag and Cu as an interfacial layer on the electrochemical performance of Ni/Ag/ Co ₃ (PO ₄) ₂ and Ni/Cu/Co ₃ (PO ₄) ₂ electrodes for hybrid energy storage devices. 2022 ,	0
543	The Preparation and Electrochemical Pseudocapacitive Performance of Mutual Nickel Phosphide Heterostructures. 2022 , 12, 469	1
542	A composite electrode of 2D-Ti ₃ C ₂ (MXene) and polyemeraldine salt of polyaniline for supercapacitor with high areal capacitance.	1
541	Supercapacitors Fabrication and Performance Evaluation Techniques.	
540	Hydrothermal synthesis of nanocages of Mn-Co Prussian blue analogue and charge storage investigation of the derived Mn-Co oxide@rGO composites. 2022 , 32, 100350	
539	Conductive Metal-Organic Frameworks for Supercapacitors.. 2022 , e2200999	7
538	Recent Advancements in Electrochemical Deposition of Metal-Based Electrode Materials for Electrochemical Supercapacitors.. 2022 , e202200013	1
537	Porous Silicon Composite ZnO Nanoparticles as Supercapacitor Electrodes. 1	0

536	Evolution of nanoporosity and electrochemical behavior in organosilicon polymer derived carbon hybrids. 2022 , 48, 8216-8227	
535	Hierarchical porous carbon derived from coal-based carbon foam for high-performance supercapacitors. 2022 ,	0
534	MIL-101(Fe)-Attached Graphene Oxide for High-Performance Supercapacitors with Sound Stability in Acid Electrolyte.	1
533	Phase change material infiltrated 3D porous carbon interconnected composites for thermal energy storage. 2022 , 44, 2133-2152	
532	Additive Manufacturing of Supercapacitor Electrodes \square Materials, Methods and Design. 913, 59-75	0
531	Electrochemical evaluation of highly stable Mn ferrite/PEDOT/rGO ternary nanocomposite for supercapacitor electrodes. 2022 , 33, 7838-7852	0
530	Silver Nanoparticle Decorated on Reduced Graphene Oxide-Wrapped Manganese Oxide Nanorods as Electrode Materials for High-Performance Electrochemical Devices. 2022 , 12, 389	2
529	Electrochemical Fabrication of Multicomponent Electrode for Supercapacitors. 2022 , 51, 2004-2013	0
528	Biomass-derived porous carbon and colour-tunable graphene quantum dots for high-performance supercapacitor and selective probe for metal ion detection.	2
527	Nitrogen-doped hierarchically porous carbon obtained via single step method for high performance supercapacitors. 2022 , 47, 12829-12840	0
526	Electrode Material for Supercapacitors Based on Products of Solid Phase Pyrolysis of Metal-Phthalocyanines. 2022 , 57, 76-80	
525	Role of oxidation states of iron on the super-capacitive behaviour of iron oxide films. 2022 , 128, 1	1
524	A comprehensive review on batteries and supercapacitors: Development and challenges since their inception.	2
523	The effects of local graphitization on the charging mechanisms of microporous carbon supercapacitor electrodes. 2022 , 137, 107258	0
522	Morpho-structural and optoelectronic properties of diamond like carbon \square germanium (DLC-Ge) composite thin films produced by magnetron sputtering. 2022 , 126, 112229	1
521	Analyzing imprecise graphene foam resistance data.	8
520	Electrospun NiO/C nanofibers as electrode materials for hybrid supercapacitors with superior electrochemical performance. 2022 ,	0
519	An electrochemical route to holey graphene nanosheets for charge storage applications. 2022 ,	0

518	Hierarchical Carbon Composites for High-Energy/Power-Density and High-Reliability Supercapacitors with Low Aging Rate.. 2022 ,	0
517	Highly stable fish-scale derived lamellar carbon for high performance supercapacitor application. 2022 , 124, 108925	1
516	Double metal ions synergistic effect in the Ni-doped Co(OH)(BA) nanobelts for enhanced supercapacitor performance. 2022 , 164, 110641	1
515	Needle-like Cu(OH) ₂ in situ grown on nanoporous copper ribbon via anodizing route for supercapacitors. 2022 , 283, 126046	1
514	Sustainable synthesis of heteroatom-doped porous carbon skeleton from Acacia auriculiformis bark for high-performance symmetric supercapacitor device. 2022 , 414, 140205	1
513	Facile synthesis of graphene oxide-polyaniline-copper cobaltite (GO/PANI/CuCo ₂ O ₄) hybrid nanocomposite for supercapacitor applications. 2022 , 286, 117036	0
512	Modular configurations of living biomaterials incorporating nano-based artificial mediators and synthetic biology to improve bioelectrocatalytic performance: A review.. 2022 , 824, 153857	0
511	Hierarchical ternary composites using coaxial polyphosphazene-coated MoO ₃ nanowires as substrate for advanced supercapacitors. 2022 , 905, 164241	1
510	Converting soy protein isolate into biomass-based polymer electrolyte by grafting modification for high-performance supercapacitors.. 2022 , 209, 268-278	0
509	Improved supercapacitor performance based on sustainable synthesis using chemically activated porous carbon. 2022 , 906, 164287	1
508	A review on the recent advances in binder-free electrodes for electrochemical energy storage application. 2022 , 50, 104283	2
507	CoS/Nitrogen-doped carbon composites derived from Zeolitic imidazolate frameworks-67 as advanced electrodes for supercapacitors. 2022 , 50, 104220	1
506	An overview of recent progress in nanostructured carbon-based supercapacitor electrodes: From zero to bi-dimensional materials. 2022 , 193, 298-338	15
505	Recent trends in electrolytes for supercapacitors. 2022 , 50, 104222	4
504	Peat soil-derived silica doped porous graphitic carbon with high yield for high-performance all-solid-state symmetric supercapacitors. 2022 , 50, 104278	9
503	Waste cigarette butt-derived B, N doped bifunctional hierarchical mesoporous carbon for supercapacitor and oxygen reduction reaction. 2022 , 643, 128775	1
502	Techno-economic understanding of Indian energy-storage market: A perspective on green materials-based supercapacitor technologies. 2022 , 161, 112412	2
501	Electrochemical performance and large positive/negative magnetodielectric coupling in iron chromite spinels. 2022 , 15, 103800	

500	Boosting capacitive performance of nitrogen-doped carbon by atomically dispersed iron. 2022 , 532, 231335	2
499	ZIF-67 derived in-situ grown NiCo3S4-GN/CNT interlinked conductive networks for high-performance especially cycling stable supercapacitors. 2022 , 194, 10-22	2
498	Perspectives of conducting polymer nanostructures for high-performance electrochemical capacitors. 2022 , 51, 104418	1
497	Mixture of non-ionic and organic ionic plastic crystals immobilized in poly(vinylidene fluoride-co-hexafluoropropylene): A flexible gel polymer electrolyte composition for high performance carbon supercapacitors. 2022 , 51, 104514	0
496	One-pot hydrothermal synthesis of MgV2O5-NC porous composite for hybrid supercapacitors with enhanced storage properties. 2022 , 908, 164598	0
495	Wider Potential Windows of Cellulose Multiwall Carbon Nanotube Fibers Leading to Qualitative Multifunctional Changes in an Organic Electrolyte.. 2021 , 13,	1
494	A DFT study of the effect of stacking on the quantum capacitance of bilayer graphene materials. 2021 , 36, 1062-1070	2
493	Borassus flabellifer Fruit Flesh Derived Hierarchical Porous Partly Graphitic Carbon as a Sustainable Electrode for Supercapacitors. 2022 , 36, 638-654	1
492	Valorization of Albedo Orange Peel Waste to Develop Electrode Materials in Supercapacitors for the Electric Industry. 2021 , 2021, 1-9	0
491	Rutenyum Katkı Nanotıp Kullanarak Süperkapasitif Elektrot Üetimi.	
490	Sustainable Coproduction of Two Disinfectants via Hydroxide-Balanced Modular Electrochemical Synthesis Using a Redox Reservoir.. 2021 , 7, 2083-2091	2
489	Recent progress of battery grade metal sulfides for hybrid energy storage devices. 2022 , 46, 3906-3938	1
488	Utilization of Cellulose to Its Full Potential: A Review on Cellulose Dissolution, Regeneration, and Applications.. 2021 , 13,	5
487	Structural and Electrochemical Properties of Physically and Chemically Activated Carbon Nanoparticles for Supercapacitors.. 2021 , 12,	0
486	Flower-Like Nanostructured ZnCo2O4/RuO2 Electrode Materials for High Performance Asymmetric Supercapacitors. 2021 , 168, 120553	1
485	CMOS ISFETs With 3D-Truncated Sensing Structure Resistant to Scaling Attenuation and Trapped Charge-Induced Offset. 2021 , 21, 27282-27289	
484	Rice Hull-Derived Carbon for Supercapacitors: Towards Sustainable Silicon-Carbon Supercapacitors.. 2021 , 13,	1
483	MagnetiteGraphene-Based Composites and Their Potential Application as Supercapacitor Electrode Material. 2022 , 1-37	

482	Understanding the bulk and interfacial structures of ternary and binary deep eutectic solvents with a constant potential method: a molecular dynamics study.. 2022 ,	1
481	Defect engineering of carbons for energy conversion and storage applications.	2
480	Pre-lithiation Optimized Voltage Ranges and MnO ₂ /rGO negative electrodes with Oxygen Vacancies for Enhanced Performance of Lithium-Ion Capacitors. 2022 , 140406	0
479	Recent progress in the all-solid-state flexible supercapacitors.	1
478	Remote Plasma-Induced Synthesis of Self-Assembled MoS ₂ /Carbon Nanowall Nanocomposites and Their Application as High-Performance Active Materials for Supercapacitors.. 2022 , 12,	0
477	Direct ink writing of conductive materials for emerging energy storage systems. 1	3
476	Peryleneimide/Graphite Foil Based Electrode Materials with Outstanding Cycling Stability for Symmetric Supercapacitor Device Architectures.	1
475	Recent Progress in Carbonaceous and Redox-active Nanoarchitectures for Hybrid Supercapacitors: Performance Evaluation, Challenges, and Future Prospects.. 2022 , e202200018	1
474	Ultrananoporous supercapacitor with ionic liquid comprised of two-site cation:An ising model study (II).	0
473	All Transition Metal Selenide Composed High-Energy Solid-State Hybrid Supercapacitor.. 2022 , e2200248	1
472	High-performance supercapacitor based on a ternary nanocomposites of NiO, polyaniline, and Ni/NiO-decorated MWCNTs. 2022 , 134, 104318	1
471	Optimization of LiCl concentration on polyaniline composites for symmetric and asymmetric supercapacitor devices. 2022 , 285, 126109	
470	Facile hydrothermal synthesis of Au-Mn ₃ O ₄ decorated graphene oxide nanocomposites for solid-state supercapacitor. 2022 , 50, 104615	1
469	Facile preparation of Ni(OH) ₂ -B/S composite with an embroidered spherical nanosheet structure for high-performance supercapacitors. 2022 , 50, 104616	0
468	Electrochemical deposition of uniform and porous Co/Ni layered double hydroxide nanosheets on nickel foam for supercapacitor electrode with improved electrochemical efficiency. 2022 , 50, 104638	2
467	Comparison between atmospheric-pressure-plasma-jet-processed and furnace-calcined rGO-MnOx nanocomposite electrodes for gel-electrolyte supercapacitors. 2022 , 911, 165006	0
466	Table_1.docx. 2019 ,	
465	Table_1.DOCX. 2018 ,	

464	Table_1.DOCX. 2020 ,	
463	Data_Sheet_1.docx. 2019 ,	
462	Data-Driven Materials Innovation and Applications.. 2022 , e2104113	2
461	Rare Earth-Based Nanomaterials for Supercapacitors: Preparation, Structure Engineering and Application.. 2022 ,	2
460	Processing-properties-performance triad relationship in a mesoporous carbon materials-based supercapacitor device.. 2022 , 12, 12631-12646	
459	Two-in-one template-assisted construction of hollow phosphide nanotubes for electrochemical energy storage.	
458	Amyloid-Based Carbon Aerogels for Water Purification.	
457	Facile preparation of flexible binder-free graphene electrodes for high-performance supercapacitors.. 2022 , 12, 12590-12599	3
456	MOFs-carbon nanocomposites for supercapacitors. 2022 , 413-437	
455	Understanding the Capacitive Charge in Bulk Porous Electrodes by Mathematical Modeling. 2022 , 17,	0
454	Redox Transitions in Pseudocapacitor Materials: Criteria and Ruling Factors.	
453	Sponge microflowers of NiCo ₂ O ₄ : a versatile material for high performance supercapacitor.	2
452	Regulating the Heterostructure of Metal/Oxide toward the Enhanced Hydrogen Evolution Reaction.	3
451	Use of Polyesters in Fused Deposition Modeling for Biomedical Applications.. 2022 , e2200039	0
450	Rational Design and Construction of Nanoporous and Nanosize NiWO ₄ for High-Performance Supercapacitors. 2022 , 96, S122-S131	0
449	Oxygen vacancies-rich manganese oxide with flower-like nanosheets for high performance supercapacitors.	
448	A sulfur self-doped multifunctional biochar catalyst for overall water splitting and a supercapacitor from Camellia japonica flowers.	1
447	Preparation of High-Performance Hierarchical Porous Activated Carbon via a Multistep Physical Activation Method for Supercapacitors.	0

446	A Review on the Conventional Capacitors, Supercapacitors, and Emerging Hybrid Ion Capacitors: Past, Present, and Future. 2100191	5
445	Preparation and capacitive properties of nitrogen-doped graphene aerogels compatible with ionic liquid electrolyte. 2022 , 52, 701-708	
444	Mn ³⁺ partially substituting the Ni ³⁺ of NiCo ₂ O ₄ enhance the charge transfer kinetics and reaction activity for hybrid supercapacitor. 2022 , 153617	0
443	Polyaniline/Small-Sized MXene/Carbon Cloth Electrodes with 3D Hierarchical Porous Structure for All-Solid-State Flexible Supercapacitors. 2200145	1
442	Work Function Describes the Electrocatalytic Activity of Graphite for Vanadium Oxidation. 6007-6015	1
441	Effect of binder on the performance of zinc-tin-sulfide nano flakes for the high-performance supercapattery devices.	0
440	Electrochemically Exfoliated Layered Carbons as Sustainable Anode Materials for Lead Carbon Hybrid Ultracapacitor.	1
439	Rational designed isostructural MOF for the charge/discharge behavior study of super capacitors. 1	1
438	Fabrication of NiCo ₂ S ₄ accumulated on metal organic framework nanostructured with multiwalled carbon nanotubes composite material for supercapacitor application. 2022 ,	1
437	Boron-oxy-carbide sheets: A wide voltage symmetric supercapacitor electrode with high temperature tolerance. 2022 , 136983	1
436	Fabrication of a High-Performance Hybrid Supercapacitor Based on NiCo ₂ S ₄ Nanoneedles/Biomass Porous Carbon.	2
435	Supercapacitor characteristics of MoS ₂ and MoO _x coated onto honeycomb-shaped carbon nanotubes. 2022 , 40, 032401	
434	Chitosan-derived N-doped porous carbon with enhanced nitrogen concentration and tailored nitrogen configuration. 2022 , 57, 8739-8751	0
433	Microstructurally assembled transition metal oxides with cellulose nanocrystals for high-performance supercapacitors. 2022 , 50, 104712	1
432	Cobalt manganese phosphate and sulfide electrode materials for potential applications of battery-supercapacitor hybrid devices. 2022 , 50, 104632	1
431	koLayered Oxide Cathode-Electrolyte Interface towards Na-Ion Batteries: Advances and Perspectives.. 2022 , e202200213	
430	Tailoring structural and electrochemical properties in Sr ²⁺ incorporated nanostructured BiFeO ₃ for enhanced asymmetric solidstate supercapacitor. 2022 , 421, 140505	0
429	Structure-activity relationship: Understanding implications of cavity design for potassium-ion storage. 2022 , 445, 136715	0

428	Coordination chemistry for innovative carbon-related materials. 2022 , 466, 214577	0
427	Construction of trifunctional electrode material based on Pt-Coordinated Ce-Based metal organic framework.. 2022 , 622, 378-389	2
426	Role of Carbon Nanomaterials on Enhancing the Supercapacitive Performance of Manganese Oxide-Based Composite Electrodes. 1	
425	Facile hydrothermal synthesis of high-performance binary silver-cobalt-sulfide for supercapattery devices. 2022 , 52, 104847	0
424	Applications of metal-organic framework-derived N, P, S doped materials in electrochemical energy conversion and storage. 2022 , 466, 214602	5
423	Fabrication and electrical response of flexible supercapacitor based on activated carbon from bamboo. 2017 , 14, 1600258	6
422	Study on preparation of composite carbon rod for high-power electrode from coke with different structural characteristics. 2022 , 105551	
421	Petroleum pitch derived carbon as both cathode and anode materials for advanced potassium-ion hybrid capacitors. 2022 ,	2
420	Bottom-up Synthesis of Highly Active Catalyst by Coal-derived Carbon Quantum Dots for Oxygen Evolution Reaction. 2022 , 132470	
419	Reasonable design and synthesis of nickel manganese sulfide nanoparticles derived from metal organic frameworks as electrode materials for supercapacitors. 2022 , 539, 231594	3
418	All vanadium-based Li-ion hybrid supercapacitor with enhanced electrochemical performance via prelithiation. 2022 , 914, 165288	0
417	Fundamentals, Mechanism, and Materials for Hybrid Supercapacitors. 2022 , 71-100	1
416	Mesoporous Carbon for Supercapacitors. 2022 , 147-163	0
415	Electrochemical Double Layer Capacitors. 2022 , 27-52	
414	Carbon Nanocomposite-Based SCs as Wearable Energy Storage. 2022 , 451-483	1
413	Review on Polyaniline-Based Composites With and Without Binder as Advanced Supercapacitor Electrode Materials. 2022 , 551-582	
412	Characterization Methods for Supercapacitors. 2022 , 101-128	0
411	Modern practices in electrophoretic deposition to manufacture energy storage electrodes.	2

410	Supercapacitor activity studies of a unique triangular oxo-vanadate-bisphosphonate composite with activated carbon.	
409	Synthesis of High-Quality Two-Dimensional V ₂ C MXene for Supercapacitor Application. 2022 , 15, 3696	1
408	N-Doped Hierarchically Porous Carbon Aerogels by Controlling the Zn ²⁺ /Chitosan Complex Ratio for High-Performance Supercapacitors.	0
407	V ₂ O ₅ nano sheets assembled on nitrogen doped multiwalled carbon nanotubes/carboxy methyl cellulose composite for two-electrode configuration of supercapacitor applications. 2022 ,	1
406	Nitrogen-Doped High Surface Area Porous Carbon Material Derived from Biomass and Ionic Liquid for High-Performance Supercapacitors.	0
405	Electrocapacitive desalination with nitrogen-doped hierarchically structured carbon prepared using a sustainable salt-template method. 2022 , 137211	3
404	Bio-waste wood-derived porous activated carbon with tuned microporosity for high performance supercapacitors. 2022 , 52, 104928	1
403	Performance of Graphene Oxide Doped Polyaniline Composite Electrodes for Energy Storage: Effects of In-Situ Synthesis. 2022 , 253-269	
402	Nitrogen-Rich Carbonaceous Materials for Advanced Oxygen Electrocatalysis: Synthesis, Characterization, and Activity of Nitrogen Sites. 2204137	4
401	Nitrogen-doped porous nanocarbons-conducting polymer composite film electrodes for flexible supercapacitors.	
400	Flexible Artificial Synapses Based on Field Effect Transistors: From Materials, Mechanics towards Applications. 2200015	0
399	Cellulose-derived carbon aerogels: A novel porous platform for supercapacitor electrodes. 2022 , 110778	0
398	Mechanochemistry-Driven Construction of Aza-fused EConjugated Networks Toward Enhanced Energy Storage. 2202669	4
397	Cellulose Nanocrystals (CNC)-Based Functional Materials for Supercapacitor Applications. 2022 , 12, 1828	0
396	Synthesis of new mixed metal oxide RuNi ₂ O ₄ phase decorated on reduced graphene oxide for supercapacitor applications. 2022 , 140666	1
395	Carbon allotropes form a hybrid material: Synthesis, characterization, and molecular dynamics simulation of novel graphene-glassy carbon hybrid material. 2022 , 196, 1012-1012	0
394	Hierarchical nanoarchitectonics of ordered mesoporous carbon from lignin for high-performance supercapacitors. 2022 ,	0
393	The Hybrid Structure of Nanoflower-Like CoxMnyNizO ₄ Nanoparticles Embedded Biomass-Lignin Carbon Nanofibers as Free-Standing and Binder-Free Electrodes for High Performance Supercapacitors. 2022 , 165659	

- 392 A bright future of hydrogels in flexible batteries and Supercapacitors storage systems: A review.
- 391 High-Performance and Flexible Co-Planar Integrated Microsystem of Carbon-Based All-Solid-State Micro-Supercapacitor and Real-Time Temperature Sensor. 0
- 390 Synthesis of Biochar From Lignocellulosic Biomass for Diverse Industrial Applications and Energy Harvesting: Effects of Pyrolysis Conditions on the Physicochemical Properties of Biochar. **2022**, 9, 1
- 389 Recent Progresses of Metal-Organic Framework-Based Materials in Electrochemical Energy Storage. **2022**, 100174 0
- 388 Recent trends in supercapacitor-battery hybrid energy storage devices based on carbon materials. **2022**, 52, 104938 2
- 387 Sulfides and selenides as electrodes for supercapacitor. **2022**, 733-757
- 386 Oxygen reduction reaction in lithium-air batteries. **2022**, 467-492 0
- 385 Syntheses and electronic structure engineering of transition metal nitrides for supercapacitor applications. 1
- 384 Functional Bionanomaterials Embedded Devices for Sustainable Energy Storage. 1-23
- 383 Review The Synthesis and Characterization of Recent Two-Dimensional Materials for Energy Storage Applications.
- 382 Titanium dioxide nanobelts modified with manganese dioxide nanoflakes for high-performance supercapacitor applications. **2022**, 24,
- 381 Nitrogen and phosphorous co-doped hierarchical meso-microporous carbon nanospheres with extraordinary lithium storage for high-performance lithium-ion capacitors. 0
- 380 Review on Recent Advancements in Chemically Synthesized Manganese Cobalt Oxide (MnCo₂O₄) and Its Composites for Energy Storage Application. **2022**, 137425 1
- 379 Co₃O₄/MoCo/Layered Double Hydroxide Nanosheets for Asymmetric Supercapacitor. **2022**, 5, 8097-8104 1
- 378 Enhanced Polyaniline Composites for Supercapacitor Applications.
- 377 Constructing pore arrays on nitrogen-doped carbon to boost potassium-ion storage capacity. **2022**, 112076
- 376 Application of Tungsten-Oxide-Based Electrochromic Devices for Supercapacitors. **2022**, 5, 60 0
- 375 Amyloid-based carbon aerogels for water purification. **2022**, 137703 1

- 374 Electrochemical Performance of Honeycomb Graphene Prepared from Acidic Graphene Oxide Via a Chemical Expansion method. **2022**, 116545 0
- 373 Biomass-derived nitrogen-rich porous carbon composite for supercapacitor application. **2022**, 33, 14793-14804
- 372 Integrated gas expansion and activation strategy to prepare shaddock peel-derived nitrogen doped honeycomb carbon for high performance supercapacitor. 0
- 371 Improving electron and ion transport by constructing 3D graphene nanosheets sandwiched between porous carbon nanolayers produced from resorcinol-formaldehyde resin for high-performance supercapacitor electrodes. **2022**, 37, 564-574
- 370 Glycol-assisted Cu-doped ZnS polyhedron-like structure as binder-free novel electrode materials. **2022**, 26, 101510 0
- 369 Carbazole-conjugated microporous polymers from Suzuki-Miyaura coupling for supercapacitors. **2022**, 254, 125070 1
- 368 Recent development and prospective of carbonaceous material, conducting polymer and their composite electrode materials for supercapacitor [A review]. **2022**, 52, 104937 3
- 367 Femtosecond laser induced one-step nanopatterning and preparation of rGO/RuO₂ electrodes for high-performance micro-supercapacitors. **2022**, 919, 116501 0
- 366 Improved energy density of reduced graphene oxide based aqueous symmetric supercapacitors in redox-active and water-in-salt electrolytes. **2022**, 52, 105006 1
- 365 Activated carbon derived from cherry flower biowaste with a self-doped heteroatom and large specific surface area for supercapacitor and sodium-ion battery applications. **2022**, 303, 135290 5
- 364 Nitrogen-doped holey graphene additive for high-performance electric double-layer supercapacitors. **2022**, 425, 140713 0
- 363 Catalytic and pseudocapacitive energy storage performance of metal (Co, Ni, Cu and Mn) ferrite nanostructures and nanocomposites. **2022**, 130, 100995 1
- 362 Boosting hydrogen peroxide accumulation by a novel air-breathing gas diffusion electrode in electro-Fenton system. **2022**, 316, 121617 0
- 361 Functional combination of methylene blue and porous carbon mutually promotes to deliver ultrahigh rate capacitive and energy storage performance. **2022**, 448, 137660 1
- 360 Nanoarchitectonics of GO/PANI/CoFe₂O₄ (Graphene Oxide/polyaniline/Cobalt Ferrite) based hybrid composite and its use in fabricating symmetric supercapacitor devices. **2022**, 1266, 133515 0
- 359 Current trends in flexible and wearable supercapacitors based on conjugated polymers. **2022**, 219-242
- 358 Polymeric Nanomaterials for High-Performance Supercapacitor. **2022**, 1-24
- 357 Exploring smart graphitic carbon nitride material toward flexible energy storage supercapacitors. **2022**, 21-37

356	Biomass Based Materials for Green Route Production of Energy. 2022 , 1-17	
355	Conjugated polymer-based electrodes for flexible all-solid-state supercapacitors. 2022 , 243-281	
354	Fabrication and Electrochemical Characterization of N/S co-doped Carbon Felts for Electric Double-Layer Capacitors. 2022 , 32, 270-279	0
353	Porous Carbon Spheres Derived from Hemicelluloses for Supercapacitor Application. 2022 , 23, 7101	0
352	Morphology-controlled synthesis and structural features of ultrafine nanoparticles of Co ₃ O ₄ : An active electrode material for a supercapacitor.	0
351	Synthesis and characterization of Mg ²⁺ -substituted MnFe ₂ O ₄ nanoparticles for supercapacitor applications. 2022 ,	0
350	Fabrication of Zn-Cu-Ni Ternary Oxides in Nanoarrays for Photo-Enhanced Pseudocapacitive Charge Storage. 2022 , 12, 2457	1
349	Approaches to Enhancing Electrical Conductivity of Pristine Metal-Organic Frameworks for Supercapacitor Applications. 2203307	3
348	A Review on Challenges to Remedies of MnO ₂ based Transition-metal oxide, hydroxide, and layered double hydroxide Composites for Supercapacitor Applications. 2022 , 104033	6
347	Interconnected micro-mesoporous carbon nanofiber derived from lemongrass for high symmetric supercapacitor performance. 2022 , 19, 4721-4732	0
346	Unfolding essence of nanoscience for improved water splitting hydrogen generation in the light of newly emergent nanocatalysts. 2022 ,	1
345	Fundamentals and recent progress of Sn-based electrode materials for supercapacitors: A comprehensive review. 2022 , 53, 105187	2
344	Microstructural effect of various polyaniline-carbon nanotube core-shell nanocomposites on electrochemical supercapacitor electrode performance. 2022 , 53, 105087	1
343	A review on supercapacitors based on plasma enhanced chemical vapor deposited vertical graphene arrays. 2022 , 53, 105212	4
342	Carbon-based nano lattice hybrid structures: Mechanical and thermal properties. 2022 , 144, 115392	1
341	CO ₂ outperforms KOH as an activator for high-rate supercapacitors in aqueous electrolyte. 2022 , 167, 112716	1
340	Recent progress on biomass waste derived activated carbon electrode materials for supercapacitors applications: A review. 2022 , 54, 105290	5
339	Influence on effective and ineffective delamination of MXene (Ti ₃ C ₂ T _x) by tightly anchoring tin oxide nanocomposite for boosting the specific capacitance of supercapacitor. 2022 , 921, 166092	0

- 338 Bi-functional green-synthesized of Co₃O₄ NPs for photocatalytic and electrochemical applications. **2022**, 0
- 337 Carbon cloth coated with NiO nanoparticles and graphene for flexible asymmetric supercapacitors.
- 336 Development and Investigation of High Performance PVA/NiO and PVA/CuO Nanocomposites with Improved Physical, Dielectric and Mechanical Properties. **2022**, 15, 5154 0
- 335 A Review on Production and Surface Modifications of Biochar Materials via Biomass Pyrolysis Process for Supercapacitor Applications. **2022**, 12, 798 1
- 334 Enzymatic Laser-Induced Graphene Biosensor for Electrochemical Sensing of the Herbicide Glyphosate. 2200057 0
- 333 O and N Co-Doped Porous Carbon Derived from Crop Wastes for High-Stability All-Solid-State Symmetric Supercapacitor.
- 332 In Situ Growing Prussian Blue Nanocrystals on Ti₃C₂ Lamellae as High-Performance Electrode for Potassium-Ion Storage.
- 331 Recent advances in bio-based electrode materials in supercapacitor applications: Energy storage materials and technologies. **2022**, 3, 1-13
- 330 Recent advances in bio-based electrode materials in supercapacitor applications: Energy storage materials and technologies. **2022**, 3, 1-13
- 329 Recent advances in bio-based electrode materials in supercapacitor applications: Energy storage materials and technologies. **2022**, 3, 1-13
- 328 Reduced graphene oxide/hexagonal boron nitride-based composite as a positive electrode in asymmetric supercapacitors. **2022**, 57, 14371-14385 0
- 327 Electromagnetic interference shielding thermoplastic composites reinforced with carbon based hybrid materials: a review. 1-58
- 326 Graphene and carbon structures and nanomaterials for energy storage. **2022**, 128, 3
- 325 Two-Dimensional Heterostructure of PPy/CNT@E. coli for High-Performance Supercapacitor Electrodes. **2022**, 15, 5804
- 324 Functional Fiber Materials to Smart Fiber Devices. 2
- 323 Nanoporous Carbon Electrodes Derived from Coffee Side Streams for Supercapacitors in Aqueous Electrolytes. **2022**, 12, 2647 1
- 322 Enhancing the capacitive performance of microporous materials with protic ionic liquids. **2022**, 120161
- 321 Facile Hydrothermal Synthesis of Binder-Free Hexagonal MnO₂ Nanoparticles for a High-Performance Supercapacitor Electrode Material. **2022**, 12, 1101

320	Introducing of AgI/g-C ₃ N ₄ nanocomposite as electrode material for supercapacitors: An interesting comparative study for its efficiency in three different aqueous electrolytes. 2022 , 141052	2
319	Silver nanoparticles decorated on the surface of reduced graphene oxide coated titanium oxide nanocomposite for enhanced electrochemical supercapacitance performance.	1
318	MoS ₂ nanosheets as bifunctional electrode for oxygen evolution reaction and electrochemical supercapacitor.	
317	Realization and characterization of flexible supercapacitors based on doped graphene electrodes.	0
316	Nanoconfined Space: Revisiting the Charge Storage Mechanism of Electric Double Layer Capacitors. 2022 , 14, 37259-37269	2
315	Renewable plant-derived lignin for electrochemical energy systems. 2022 ,	0
314	Facile synthesis of reduced graphene oxide from Azadirachta indica for optical power limiting applications: an eco-friendly approach.	
313	Treating waste tire to prepare high-yield sulfur-doped porous char via ZnCl ₂ /KOH heat treatment method. 2022 , 133672	1
312	Hydrothermal synthesis of transition metal oxides, transition metal oxide/carbonaceous material nanocomposites for supercapacitor applications. 2022 , 100214	3
311	A review of carbon materials for supercapacitors. 2022 , 221, 111017	5
310	Spray pyrolysis: Approaches for nanostructured metal oxide films in energy storage application. 2022 , 54, 105387	0
309	Sustainable carbon materials from the pyrolysis of lignocellulosic biomass. 2022 , 19, 100209	0
308	Covalent organic frameworks (COFs)-derived nitrogen-doped carbon/reduced graphene oxide nanocomposite as electrodes materials for supercapacitors. 2022 , 55, 105375	1
307	Nanopetals shaped CuNi alloy with defects abundant active surface for efficient electrocatalytic oxygen evolution reaction and high performance supercapacitor applications. 2022 , 55, 105488	0
306	Synthesis and electrochemical mechanisms of yolk-shell ZnCo ₂ S ₄ for high-performance supercapacitors. 2022 , 55, 105402	0
305	Synthesis and electrochemical characterization of polyaniline doped cadmium oxide (PANI-CdO) nanocomposites for supercapacitor applications. 2022 , 55, 105446	1
304	MnO ₂ nanosheets synthesized on nitrogen-doped vertically aligned carbon nanotubes as a supercapacitor electrode material. 2022 , 925, 166570	
303	HCl-activated porous nitrogen-doped carbon nanopolyhedras with abundant hierarchical pores for ultrafast desalination. 2022 , 628, 236-246	1

302	Facile synthesis of hierarchical ZnS@FeSe ₂ nanostructures as new energy-efficient cathode material for advanced asymmetric supercapacitors. 2022 , 7, 100489	0
301	A review on synergy of transition metal oxide nanostructured materials: Effective and coherent choice for supercapacitor electrodes. 2022 , 55, 105692	2
300	Fabrication of binder-free hierarchical three dimensional NiO nanoflakes@carbon nanofibers for superior symmetric supercapacitor application. 2022 , 55, 105619	1
299	A critical review on polyimide derived carbon materials for high-performance supercapacitor electrodes. 2022 , 55, 105667	1
298	MnCo ₂ O ₄ nanomaterials based electrodes for supercapacitors. 2022 , 145, 109945	0
297	Facile fabrication of hexagonal Ni(OH) ₂ nanoparticles anchored g-C ₃ N ₄ layered nanocomposite electrode material for energy storage applications. 2022 , 129, 109376	0
296	Calorimetry can detect the early onset of hydrolysis in hybrid supercapacitors with aqueous electrolytes. 2022 , 548, 232069	0
295	Translational materials research - From laboratory to product: A 1200F cylindrical supercapacitor from petroleum coke derived activated carbon sheets. 2022 , 55, 105650	0
294	Ag, N and O co-doped carbon cloth as high-capacitance electrodes for high-energy capacitors. 2022 , 129, 109343	0
293	Application of morphology and phase design of dealloying method in supercapacitor. 2022 , 927, 166974	0
292	The influence of different functional groups on quantum capacitance, electronic and optical properties of Hf ₂ C MXene. 2022 , 605, 154830	0
291	Nanocellulose-based aerogel electrodes for supercapacitors: A review. 2022 , 297, 120039	3
290	Polymer derived honeycomb-like carbon nanostructures for high capacitive supercapacitor application. 2023 , 201, 49-59	1
289	Fabrication of Ni ₂ O ₃ /Ni Aerogel Electrodes for High Performance Supercapacitor Device.	0
288	Two-dimensional MXenes: recent emerging applications. 2022 , 12, 25172-25193	0
287	Nanostructured materials for electrochemical capacitors. 2022 ,	0
286	Boosting the Energy Density of a Supercapacitor Using Ternary Nanocomposite - Pani/Mgo with 2d Nanostructure Bnnt.	0
285	Recent advances in novel graphene: new horizons in renewable energy storage technologies. 2022 , 10, 11472-11531	1

284	Carbon Based Composites for Supercapacitor Applications. 2022 , 259-284	0
283	Wearable Supercapacitors. 2022 , 285-325	0
282	Highly stretchable and flexible supercapacitors based on electrospun PEDOT:SSEBS electrodes.	1
281	Hydrogel Electrolytes with Immobilized Pair Ions Via One-Pot Copolymerization for Flexible Supercapacitors.	0
280	Three-dimensional tubular carbon aerogel for supercapacitors. 2022 , 52, 6	0
279	Transition metal oxide/conducting polymer nanocomposites and metal-organic framework-based composites for supercapacitor application. 2022 , 135-185	1
278	The quest for negative electrode materials for Supercapacitors: 2D materials as a promising family. 2023 , 452, 139455	3
277	Three-Dimensional Hybrid Nanostructures of Fe ₃ O ₄ Nanoparticles/Vertically-Aligned Carbon Nanotubes for High-Performance Supercapacitors. 2022 , 3, 507-519	0
276	New Frontiers of Graphene Based Nanohybrids for Energy Harvesting Applications. 2022 , 78-103	0
275	A Two-Dimensional Borophene Supercapacitor. 2022 , 4, 1929-1936	0
274	A review on the advances in electrochemical capacitive charge storage in transition metal oxide electrodes for pseudocapacitors.	2
273	Rationally designed N/P dual-doped ordered mesoporous carbon for supercapacitors. 2022 , 57, 17380-17397	0
272	Graphene: A Path-Breaking Discovery for Energy Storage and Sustainability. 2022 , 15, 6241	0
271	MXenes serving aqueous supercapacitors: Preparation, energy storage mechanism and electrochemical performance enhancement. 2022 , 33, e00490	2
270	Rechargeable Dual-Carbon Batteries: A Sustainable Battery Technology. 2202450	1
269	All-Carbon Monolithic Composites from Carbon Foam and Hierarchical Porous Carbon for Energy Storage. 2022 , 14, 44772-44781	1
268	Synthesis of octahedral shaped Mn ₃ O ₄ and its reduced graphene oxide composite for electrocatalytic oxygen evolution reaction. 2022 ,	0
267	Preparation, Corrosion Resistance, and Electrochemical Properties of MnO ₂ /TiO ₂ Coating on Porous Titanium. 2022 , 12, 1381	0

- 266 Peripheral octamethyl-substituted nickel(II)-phthalocyanine-decorated carbon-nanotube electrodes for high-performance all-solid-state flexible symmetric supercapacitors. **2022**, 0
- 265 Review on the Effects of Electrochemical Exfoliation Parameters on the Yield of Graphene Oxide. **2022**, 7, 33719-33731 4
- 264 Nb₂CT_x MXene Cathode for High-Capacity Rechargeable Aluminum Batteries with Prolonged Cycle Lifetime. 5
- 263 Simulation Study of Electric Double-Layer Capacitance of Ordered Carbon Electrodes. 0
- 262 N, O co-doped carbon aerogel derived from sodium alginate/melamine composite for all-solid-state supercapacitor. **2022**, 155109 0
- 261 Nanocellulose/two dimensional nanomaterials composites for advanced supercapacitor electrodes. 10, 0
- 260 Engineering Oxygen Vacancies on Mixed-Valent Mesoporous δ MnO₂ for High-Performance Asymmetric Supercapacitors. 0
- 259 Charge Transport Kinetics in Flower Like δ MnO₂ Nano-sheet and δ MnO₂ Nanowire Based Supercapacitors. **2022**, 139535 0
- 258 Fe/Co Doped ZIF Derived Nitrogen Doped Nanoporous Carbon as Electrode Material for Supercapacitors. **2022**, 0
- 257 Redox-active conjugated microporous anthraquinonylamine-based polymer network grafted with activated graphene toward high-performance flexible asymmetric supercapacitor electrodes. **2022**, 141315 0
- 256 Cassava peel derived self-doped and hierarchical porous carbon as an optimized electrode for the ultra-high energy density of supercapacitor. **2022**, 129, 109407 0
- 255 Symmetric supercapacitors with cellulose-derived carbons and Na₂SO₄ electrolytes operating in a wide temperature range. **2022**, 55, 105725 1
- 254 Experimental and DFT studies on spinel NiMn₂O₄ flower derived from bimetallic MOF as an efficient electrode for next-generation supercapacitor. **2022**, 655, 130244 0
- 253 Applications of all-inorganic perovskites for energy storage. 0
- 252 Towards the Intercalation and Lithium Plating Mechanism for High Safety and Fast-Charging Lithium-ion Batteries: A Review. 1, 0
- 251 Bio-Based Polymer Electrolytes for Supercapacitor Applications. **2022**, 1-7 0
- 250 Supercapacitors and high k properties of CNT-PbS reinforced quinoxaline amine based polybenzoxazine composites. 0
- 249 The Mechanical Properties of Batteries and Supercapacitors. **2022**, 0

- 248 Magnetite/Graphene-Based Composites and Their Potential Application as Supercapacitor Electrode Material. **2022**, 879-914 ○
- 247 Advances in Supercapacitor Development: Materials, Processes, and Applications. ○
- 246 Progress on carbonene-based materials for Zn-ion hybrid supercapacitors. **2022**, 37, 918-935 ○
- 245 3D printed pure carbon-based electrodes for zinc-ion hybrid supercapacitor. **2022**, 9, 100222 ○
- 244 The Effects of Graphene Oxide and Reduced Graphene Oxide Conductive Additives on Activated Carbon Supercapacitors. **2022**, 10, 2190 ○
- 243 Influence of zinc doping on structural, electrical, magnetic and electrochemical properties of nickel ferrite system synthesized from succinato-hydrazinate precursors. ○
- 242 Urea-Assisted Nickel-Manganese Phosphate Composite Microarchitectures with Ultralong Lifecycle for Flexible Asymmetric Solid-State Supercapacitors: A Binder-Free Approach. **2022**, 36, 13356-13369 ○
- 241 Three-Dimensional Lanthanide-Based Nanoporous Metal-Organic Frameworks for High-Performance Supercapacitors. **2022**, 5, 15237-15249 ○
- 240 Recent progress on freestanding carbon electrodes for flexible supercapacitors. **2022**, 37, 875-897 2
- 239 From plastic to supercapacitor electrode materials: Preparation and properties of cobalt oxide/carbon composites with polyethylene terephthalate as carbon source. **2022**, ○
- 238 NiO/Ni Nanowafer Aerogel Electrodes for High Performance Supercapacitors. **2022**, 12, 3813 2
- 237 Enhanced the performance of zinc strontium sulfide-based supercapattery device with the polyaniline doped activated carbon. 2
- 236 Additive Manufacturing of Energy Storage Devices. **2023**, 51-83 ○
- 235 Organic Supercapacitors as the Next Generation Energy Storage Device: Emergence, Opportunity, and Challenges. ○
- 234 Synthesis of Pd-Fe₂O₃ nanoflakes nanocomposite for superior energy storage device. **2022**, 140, 104562 ○
- 233 Evaluation of kinetic parameters of non-Faradic processes in carbon-based electrodes using multisine Dynamic Electrochemical Impedance Spectroscopy. **2022**, 141462 ○
- 232 Comprehensive study of used cigarette filters-derived porous activated carbon for Supercapacitors: From biomass waste to sustainable energy source. **2022**, 925, 116915 1
- 231 Recent development of carbon electrode materials for electrochemical supercapacitors. **2022**, 8, 656-661 1

230	Applications of Carbon Dots in Electrochemical Energy Storage.	0
229	NiCoP/C composite with hollow sphere as electrodes for high performance supercapacitors. 2022 , 434, 141313	0
228	Facile fabrication of CuO/Ag ₂ Se nanosized composite via hydrothermal approach for the electrochemical energy conversion system. 2022 , 56, 105929	1
227	Fabrication of novel coral reef-like nanostructured ZnFeNiCo ₂ S ₄ on Ni foam as an electrode material for battery-type supercapacitors. 2022 , 434, 141320	1
226	Optimization of preparation of lignite-based activated carbon for high-performance supercapacitors with response surface methodology. 2022 , 56, 105913	0
225	Recent advances in chemical vapour deposition techniques for graphene-based nanoarchitectures: From synthesis to contemporary applications. 2023 , 475, 214910	2
224	Electrochemical energy storage systems. 2023 , 259-282	0
223	A new cadmium oxide (CdO) and copper selenide (CuSe) nanocomposite: An energy-efficient electrode for wide-voltage hybrid supercapacitors. 2023 , 656, 130327	0
222	Enhanced electricity generation and storage by nitrogen-doped hierarchically porous carbon modification of the capacitive bioanode in microbial fuel cells. 2023 , 858, 159688	0
221	Grass-like alumina nanoelectrodes for hierarchical porous silicon supercapacitors.	0
220	Electrochemical Impedance Spectroscopy Analysis of BiMetallic Au/Cu/g-C ₃ N ₄ Nanocomposite as a Supercapacitor Electrode Material. 2022 , 455-463	0
219	Activating the pseudocapacitance of multiple-doped carbon foam via long-term charge-discharge circulation. 2023 , 265, 118232	0
218	Successive selective leaching procedures for valorization of spent pot lining carbon. 2023 , 169, 1-12	0
217	In situ growing Prussian blue nanocrystals on Ti ₃ C ₂ lamellae as high-performance electrode for potassium-ion storage. 2023 , 610, 155583	0
216	Wet spinning of hollow graphene fibers with high capacitance. 2023 , 453, 139920	0
215	Bioresource-Functionalized Quantum Dots for Energy Generation and Storage: Recent Advances and Feature Perspective. 2022 , 12, 3905	1
214	Morphological, Dielectric, and Impedance Study of Ag-Coated Lead Oxide/ lignocellulose Composite Sheets for Energy Storage and Tunable Electric Permittivity Applications. 2022 , 15, 8256	1
213	Recent Progress in Metal-Organic Framework-Derived Chalcogenides (MX; X = S, Se) as Electrode Materials for Supercapacitors and Catalysts in Fuel Cells. 2022 , 15, 8229	0

- 212 Focus on the Electroplating Chemistry of Li Ions in Nonaqueous Liquid Electrolytes: Toward Stable Lithium Metal Batteries. **2022**, 5, ○
- 211 Sucrose-based activated carbon foams as an electrode active material for supercapacitors. ○
- 210 Coupling W 18 O 49 /Ti 3 C 2 T x MXene Pseudocapacitive Electrodes with Redox Electrolytes to Construct High-Performance Asymmetric Supercapacitors. 2204829 ○
- 209 Surfactant assisted synthesis of Ni₃V₂O₈ and their application as a supercapacitor. **2022**, ○
- 208 Solvated structure of hybrid tetraglyme-aqueous electrolyte dissolving high-concentration LiTFSI-LiFSI for dual-ion battery. ○
- 207 Facile, Morphology-Controlled and Mass Production of 0D-Ag/2D-g-C₃N₄/3D-TiO₂ Nano-composite Materials: Effect of Silver Morphology and Loading on the Electrochemical Performance. ○
- 206 Blending of Activated Low-Grade Coal Powder with Coconut Shell Waste for Supercapacitor Applications. ○
- 205 Real-Space Charge Density Profiling of Electrode/Electrolyte Interfaces with Angstrom Depth Resolution. ○
- 204 Recent Progress in Synthesis and Application of Biomass-Based Hybrid Electrodes for Rechargeable Batteries. 2208349 ○
- 203 Highly Stable Two-Dimensional Cluster-Based Ni/Co/Organic Layers for High-Performance Supercapacitors. ○
- 202 Progress of synthetic strategies and properties of heteroatoms-doped (N, P, S, O) carbon materials for supercapacitors. **2022**, 56, 105995 ○
- 201 N/O co-doped micropores carbon derived from a solvent-free synthesized polymer for high-performance supercapacitor. **2022**, 141, 104596 ○
- 200 In-situ grown of FeCo₂O₄ @ 2D-Carbyne coated nickel foam - A newer nanohybrid electrode for high performance asymmetric supercapacitors. **2022**, 56, 105943 ○
- 199 Facile synthesis of pompon-like manganese dioxide decorated activated carbon composite for supercapacitor electrode. **2022**, 56, 106134 ○
- 198 Porous Carbon Derived From Biomass for Fuel Cells. **2022**, 229-252 ○
- 197 Status on electrodeposited manganese dioxide and biowaste carbon for hybrid capacitors: The case of high-quality oxide composites, mechanisms, and prospects. **2022**, 56, 106099 2
- 196 Structural adjustment on fluorinated graphene and their supercapacitive properties in KI-additive electrolyte. **2023**, 928, 117010 ○
- 195 Ternary nanocomposite of GQDs-polyFc/Fe₃O₄/PANI: Design, synthesis, and applied for electrochemical energy storage. **2023**, 439, 141706 ○

194	Electrolyte contribution to the multifunctional response of cellulose carbon nanotube fibers. 2023 , 182, 105480	0
193	Lignin-derived electrode materials for supercapacitor applications: progress and perspectives.	1
192	Preparation of MgCo ₂ O ₄ @NiCo ₂ S ₄ core-shell nanocomposites for high-performance asymmetric supercapacitors. 2023 , 439, 141664	0
191	A strategy of making waste profitable: Self-templated synthesis of helical rod structured porous carbon derived from Ganoderma Lucidem for advanced supercapacitor electrode. 2023 , 131, 109607	0
190	Materials design and preparation for high energy density and high power density electrochemical supercapacitors. 2023 , 152, 100713	0
189	Bricks of Co, Ni doped Fe ₃ O ₄ as high performing pseudocapacitor electrode. 2023 , 58, 106391	0
188	Effect of nitrogen and sulphur co-doping on the surface and diffusion characteristics of date seed-derived porous carbon for asymmetric supercapacitors. 2023 , 58, 106441	0
187	Frontiers and recent developments on supercapacitor's materials, design, and applications: Transport and power system applications. 2023 , 58, 106104	0
186	Lignin-based nitrogen/sulfur dual-doped nanosheets decorated with Co _{1-x} S nanoparticles as efficient bifunctional oxygen electrocatalysts. 2023 , 634, 469-480	0
185	Linking pyrogenic carbon redox property to arsenite oxidation: Impact of N-doping and pyrolysis temperature. 2023 , 445, 130477	0
184	Carbon material/vitrimer composites: Towards sustainable, functional, and high-performance crosslinked polymeric materials. 2023 , 13, 100136	1
183	A 3D nano-sandwich structure constructed by intercalation of aramid nanofibers preventing re-stack of graphene for high surface area electrode materials. 2023 , 612, 155903	2
182	A comprehensive review on novel quaternary metal oxide and sulphide electrode materials for supercapacitor: Origin, fundamentals, present perspectives and future aspects. 2023 , 173, 113106	1
181	Engineering NiCo ₂ S ₄ nanoparticles anchored on carbon nanotubes as superior energy-storage materials for supercapacitors. 2022 , 12, 34904-34909	1
180	WS ₂ -Based Nanomaterials for Visible-Light Photocatalytic Degradation of Organic Pollutants. 185-205	0
179	Interactive Nanomaterials for Energy Storage and Conversion. 27-81	0
178	Efficient Design Paradigm for Harvesting Solar Energy: Dynamic Tunability of Heating/Cooling Mode Using Advanced Nanotechnology. 233-261	0
177	Effect of Alcohol Tail Length on Aggregate Behavior of Alcohol and AOT at the Water-scCO ₂ Interface: MD Simulation Study. 263-288	0

- 176 Editors Biographies. 289-290 ○
- 175 Fe/Ni-based electrodes having two redox peaks for 1.4V symmetrical supercapacitors. ○
- 174 Preface. ix-x ○
- 173 Green Electrocatalytical Synthesis of Ammonia Using Solid Oxide Electrolysis Cells. 155-184 ○
- 172 Atomic Layer Deposition Synthesis of Iron, Cobalt, and Nickel Chalcogenides for Electrocatalysis Applications. 117-135 ○
- 171 Calix[n]arene-Based Coordination Cage and Its Application to Electrocatalysis. 137-154 ○
- 170 Nanostructured Materials for Sustainable Energy: Design, Evaluation, and Applications. ○
- 169 Title, Copyright, Foreword. i-v ○
- 168 Nanomaterials for supercapacitors as energy storage application: Focus on its characteristics and limitations. **2022**, ○
- 167 Two-Dimensional Metal Phosphorus Trichalcogenide Nanostructure for Sustainable Energy Conversion. 1-25 ○
- 166 Subject Index. 295-298 ○
- 165 Solar-Driven Photothermocatalytic Dry Reforming of Methane for Syngas Production. 207-232 ○
- 164 Evaluating the effects of temperature on flow-by capacitive deionization. **2022**, 8, 15524-15530 ○
- 163 Organic-Carbon Composites for Next Generation Capacitive Electrodes. 83-115 ○
- 162 Boosting Capacity Performance of Bio-Waste Lignin-Derived Hierarchical Porous Carbon with Self-Doped Oxygen-Heteroatoms. **2022**, 8, 286 ○
- 161 Three-Dimensional Unified Electrode Design Using CuO Embedded MnO₂ Nano-Dandelions@Ni(OH)₂ Nanoflakes as Electrode Material for High-Performance Supercapacitors. **2022**, 168603 ○
- 160 Chemically Modified Carbon Nanotubes in Energy Production and Storage. **2023**, 107-128 ○
- 159 High Voltage and Capacity Dual-Ion Battery Using Acetonitrile-Aqueous Hybrid Electrolyte with Concentrated LiFSI-LiTFSI. **2022**, 169, 120516 ○

- 158 Cutting-Edge Green Polymer/Nanocarbon Nanocomposite for Supercapacitor State-of-the-Art. **2022**, 6, 376 1
- 157 3-D Electrodes for Electrochemical Sensors: Review in Different Approaches. **2022**, 22, 23620-23632 0
- 156 Switchable Polyacrylonitrile-Copolymer for Melt-Processing and Thermal Carbonization and Printing of Carbon Supercapacitor Electrodes with High Capacitance. 2208484 0
- 155 In Situ Growth of MnO₂ Nanosheets on a Graphite Flake as an Effective Binder-Free Electrode for High-Performance Supercapacitors. **2022**, 7, 48320-48331 0
- 154 Graphene-Based Important Carbon Structures and Nanomaterials for Energy Storage Applications as Chemical Capacitors and Supercapacitor Electrodes: a Review. 0
- 153 Critical Evaluation of Hybrid and Organic Electrolytes for Supercapacitors with Optimized Porous Carbon. **2022**, 141778 0
- 152 Composite Based on Multi-Walled Carbon Nanotubes and Manganese Oxide with Rhenium Additive for Supercapacitors: Structural and Electrochemical Studies. **2022**, 12, 12827 0
- 151 Dielectric Modified Separators for High-Voltage and High-Rate Supercapacitors. **2022**, 169, 120522 0
- 150 Strengths, Weaknesses, Opportunities, and Threats (SWOT) analysis of Supercapacitors: A Review. **2023**, 0
- 149 Synergetic electrochemical performance of Ni_xMn_x sulfide-based binary electrode material for supercapattery devices 0
- 148 Formation Mechanisms of Hydroxyl-Rich Carbon Layers on Carbon Nanotube Surfaces for Promoting the Hydrolysis of Cellulose to Sugar. **2023**, 6, 588-597 0
- 147 Polyaniline-conjugated graphite/montmorillonite composite electrode prepared by in situ electropolymerization for supercapacitor applications. 0
- 146 MXene/AC Composite Membranes as an Electrode Material for Flexible Supercapacitors with Excellent Properties. 0
- 145 Porous Graphene Produced by Carbothermal Shock for Green Electromagnetic Interference Shielding in Both Microwave and Terahertz Bands. 2201493 0
- 144 Design of Porous Ni and Rare Earth Metals (Ce, Ho, and Eu) Co-doped TiO₂ Nanoarchitectures for Energy Conversion and Storage Applications. 0
- 143 Tuning Oxygen-Containing Functional Groups of Graphene for Supercapacitors with High Stability. 1
- 142 Classical Quantum Friction at Water/Carbon Interfaces. 1
- 141 Exploring MOF-199 composites as redox-active materials for hybrid battery-supercapacitor devices. **2023**, 13, 2860-2870 0

- 140 Solid-liquid interfaces/interphases in electrochemical capacitors: theoretical considerations, practical relevance, and state-of-the-art in-situ/in-operando characterization tools. **2023**, ○
- 139 Synthetic porous carbons for clean energy storage and conversion. **2023**, 100099 ○
- 138 Machine learning approach to understanding the synergistic pseudocapacitive effects of heteroatom doped graphene. **2023**, 10, 025003 ○
- 137 Polyaniline-modified graphitic carbon nitride as electrode materials for high-performance supercapacitors. ○
- 136 Hydrogel electrolytes with immobilized pair ions via one-pot copolymerization for flexible supercapacitors. **2023**, 558, 232598 ○
- 135 The fabrication of Co₃S₄/NF@NiCo-LDH nanocomposites for integrated all-solid-state asymmetric supercapacitors. **2023**, 930, 117154 ○
- 134 Direct growth of AC/ZnS-Ni₇S₆/Ni(OH)₂ on nickel foam as a porous electrode material for high-performance supercapacitors. **2023**, 441, 141821 ○
- 133 Ultra-thin highly-wrinkled graphene-like nanosheets for supercapacitor electrodes via 4-nitrocatechol and solvent-induced self-assembly. **2023**, 204, 495-506 ○
- 132 Electrochemical behavior of in-situ electrosynthesized 3D metal-organic framework (MOF) as ultra-stable thin film on nickel foam. **2023**, 441, 141792 ○
- 131 Quasi-solid-state supercapacitors based on wide-temperature eutectogels. **2023**, 59, 106414 ○
- 130 Bipolar ionomer electrolytes with desirable self-discharge suppression for supercapacitors. **2023**, 78, 422-429 ○
- 129 Synthesis of N-doped carbon material via hydrothermal carbonization: Effects of reaction solvent and nitrogen source. **2023**, 60, 106588 ○
- 128 Development of activated carbon by bio waste material for application in supercapacitor electrodes. **2023**, 335, 133830 ○
- 127 Regulating the specific surface area and porous structure of carbon for high performance supercapacitors. **2023**, 615, 156267 ○
- 126 An atomic/molecular-level strategy for the design of a preferred nitrogen-doped carbon nanotube cathode for Li-O₂ batteries. **2023**, 615, 156367 ○
- 125 Progress in Research and Application of Graphene Aerogel: A Bibliometric Analysis. **2023**, 16, 272 ○
- 124 Carbon-Based Materials for Supercapacitors: Recent Progress, Challenges and Barriers. **2023**, 9, 19 3
- 123 Active Carbon-Based Electrode Materials from Petroleum Waste for Supercapacitors. **2023**, 9, 4 ○

- 122 Graphene oxide@Feo@Tungstate modified ionic liquid as a novel electrode material for high-performance supercapacitor. **2022**, ○
- 121 Rational Design of Electrode Materials for Advanced Supercapacitors: From Lab Research to Commercialization. 2213095 ○
- 120 Development of symmetric and asymmetric supercapacitors—step towards efficient and practical energy storage. **2023**, 405-456 ○
- 119 Wearable supercapacitors. **2023**, 585-596 ○
- 118 Potential impact of smart-hybrid supercapacitors in novel electronic devices and electric vehicles. **2023**, 795-850 ○
- 117 AC conductivity and dielectric investigations of amorphous manganese oxide and amorphous manganese oxide/conducting polymer nanocomposites. **2023**, 34, ○
- 116 Environmental sustainability-based comparison for production, properties, and applications of biochar and hydrochar. **2023**, 387-414 ○
- 115 Recent progress on materials, architecture, and performances of hybrid battery-supercapacitors. **2023**, 477-500 ○
- 114 Electrode materials for EDLC and pseudocapacitors. **2023**, 179-198 ○
- 113 Facile preparation of polyaniline/graphene oxide composite towards electrode materials. 0958305X2211504 ○
- 112 Nano-inks for supercapacitors. **2023**, 451-474 ○
- 111 Appraisal of conducting polymers for potential bioelectronics. **2023**, 265-298 ○
- 110 Research and technology on smart supercapacitors. **2023**, 101-136 ○
- 109 Lignin-Based Materials for Additive Manufacturing: Chemistry, Processing, Structures, Properties, and Applications. 2206055 1
- 108 Future of smart supercapacitors. **2023**, 851-866 ○
- 107 Comparison between supercapacitors and other energy storing electrochemical devices. **2023**, 673-712 ○
- 106 Effect of applied potential polarity on electrochemical properties of electrophoretically deposited activated carbon on an indium tin oxide substrate. **2023**, 37, 102660 ○
- 105 Oxygen-enriched porous carbon derived from acid washed and oxidized lignite via H3PO4 hydrothermal for high-performance supercapacitors. **2023**, 243, 107665 ○

- 104 Novel semiconductor materials for advanced supercapacitors. **2023**, 11, 4288-4317 ○
- 103 Production and application of biochar. **2023**, ○
- 102 Chemically Deposited Iron Chalcogenide-Based Carbon Composites for Supercapacitor Applications. **2023**, 83-121 ○
- 101 Emerging Electrode Materials for Li-Ion Capacitor. **2023**, 147-177 ○
- 100 0D, 1D, 2D, and 3D Structured Chalcogenides for Supercapacitor Applications. **2023**, 1-52 ○
- 99 Designing Zwitterionic Gel Polymer Electrolytes with Dual-Ion Solvation Regulation Enabling Stable Sodium Ion Capacitor. ○
- 98 A 2.6 V Flexible Supercapacitor Based on Al-MnO₂-Na₂SO₄//AC-KOH with High Specific Energy. **2023**, 8, 2033-2041 ○
- 97 Carbon nanomaterials-PEDOT: PSS based electrochemical ionic soft actuators: Recent development in design and applications. **2023**, 354, 114277 ○
- 96 Microstructures and electrochemical characterization of graphene oxide/carboxymethylated cellulose nanofibril-derived hybrid carbon aerogels for freestanding supercapacitor electrodes. **2023**, 18, 100101 ○
- 95 Pore engineering: Structure-capacitance correlations for biomass-derived porous carbon materials. **2023**, 229, 111904 ○
- 94 Phosphomolybdic acid embedded into biomass-derived biochar carbon electrode for supercapacitor applications. **2023**, 936, 117354 ○
- 93 3D meso/macroporous carbon from MgO-templated pyrolysis of waste plastic as an efficient electrode for supercapacitors. **2023**, 322, 138174 ○
- 92 Microstructure and electrochemical properties of polyimide-derived hollow carbon nanofibers manufactured by coaxial electrospinning and heat treatment. **2023**, 291, 116376 ○
- 91 Microwave-synthesized Bismuth oxide/Activated Carbon felt composite as electrode for ultra-high supercapacitors performance. **2023**, 18, 100128 ○
- 90 Low temperature plasma-assisted synthesis and modification of water splitting electrocatalysts. **2023**, 449, 142179 ○
- 89 Recent advances of cathode materials for zinc-ion hybrid capacitors. **2023**, 109, 108290 ○
- 88 Roles of molecular structure of carbon-based materials in energy storage. **2023**, 22, 100375 ○
- 87 Gel electrolyte modification on D-A-D type conjugated polymer based supercapacitor. **2023**, 62, 106962 ○

- 86 Ion transport phenomena in electrode materials. **2023**, 4, 021302 ○
- 85 Design of ultrathin carbon-wrapped lithium vanadium phosphate nanoparticles as cathodes for high-performance lithium-ion batteries. **2023**, 18, 100151 ○
- 84 Investigation on ZrO₂ supported CuFe₂O₄ based nanocomposite as a potential electrode for supercapacitors and magnetic applications. **2023**, 152, 110720 ○
- 83 Construction of double-shell Ni₃Se₄@Co₃Se₄ microsphere for hybrid Zn-based supercapacitor with superior rate and energy density. **2023**, 62, 106855 ○
- 82 Constructing oxygen vacancy-rich MXene @Ce-MOF composites for enhanced energy storage and conversion. **2023**, 642, 235-245 ○
- 81 Ultrahigh energy density solid state supercapacitor based on metal halide perovskite nanocrystal electrodes: Real-life applications. **2023**, 65, 107215 ○
- 80 Experimental and theoretical insights into colossal supercapacitive performance of graphene quantum dots incorporated Ni₃S₂/CoS₂/MoS₂ electrode. **2023**, 65, 107274 ○
- 79 Insights into the impact of interlayer spacing on MXene-based electrodes for supercapacitors: A review. **2023**, 65, 107341 ○
- 78 Facile hydrothermal synthesized MoV₂O₈/MoO₃ microclusters-based electrode materials for high-capacity asymmetric supercapacitors. **2023**, 948, 169770 ○
- 77 Investigation of structural and electrochemical properties of SrFexCo_{1-x}O_{3- δ} perovskite oxides as a supercapacitor electrode material. **2023**, 63, 107034 ○
- 76 Highly defective N-doped carbon/reduced graphene oxide composite cathode material with rapid electrons/ions dual transport channels for high energy density lithium-ion capacitor. **2023**, 443, 141704 ○
- 75 Rapid, external acid-free synthesis of Bi₂WO₆ nanocomposite for efficient supercapacitor application. **2023**, 143, 104697 ○
- 74 Porous and graphitic structure optimization of biomass-based carbon materials from 0D to 3D for supercapacitors: A review. **2023**, 460, 141607 ○
- 73 Hydrothermal assisted synthesis of hierarchical SnO₂ micro flowers with CdO nanoparticles based membrane for energy storage applications. **2023**, 321, 138004 ○
- 72 Core-shell Ppy@N-doped porous carbon nanofiber-based electrodes for high-property supercapacitors. **2023**, 663, 131056 ○
- 71 N/S co-doped carbon nanosheets derived from sugarcane processing by-products for flexible solid-state supercapacitors. **2023**, 932, 117217 ○
- 70 Facile synthesis of activated carbon and multiwalled carbon nanotubes and comparative performance of various AC-MWCNTs supercapacitor electrodes. **2023**, 34, ○
- 69 Carbon anode of intercalation capacitive coupling mechanism enabling long term potassium ion capacitors at low temperature. **2023**, 932, 117241 ○

- 68 Review and Perspectives of Sustainable Lignin, Cellulose, and Lignocellulosic Carbon Special Structures for Energy Storage. **2023**, 37, 2498-2519 ○
- 67 Quantum capacitance of iron metal doped boron carbide monolayer-based for supercapacitors electrodes: A DFT study. **2023**, 150, 110480 ○
- 66 Polypyrrole embedded in nickel-cobalt sulfide nanosheets grown on nickel particles passivated silicon nanowire arrays for high-performance supercapacitors. **2023**, 461, 141745 ○
- 65 Lamellar Carbon Compositated Cobalt Iron Silicate with a Two-Dimensional Structure Toward Enhanced Electrochemical Properties for Supercapacitors. **2023**, 6, 2207-2218 ○
- 64 High performance supercapacitors based on polymer/fullerene nanocomposites. **2023**, 197-209 ○
- 63 Nanointerfaces: Concepts and Strategies for Optical and X-ray Spectroscopic Characterization. ○
- 62 Electrodes with Unique Graphite Sheet-Supported ZnCoS Nanoparticles for Hybrid Supercapacitors with High Performance. **2023**, 37, 4123-4131 ○
- 61 Nitrogen doped reduced graphene oxide/ZnCo₂O₄ nanocomposite electrode for hybrid supercapacitor application. **2023**, 290, 116328 ○
- 60 Enhancing cation storage performance of layered double hydroxides by increasing the interlayer distance. **2023**, 158, 094703 ○
- 59 Recent Advances and New Challenges: Two-Dimensional MetalOrganic Framework and Their Composites/Derivatives for Electrochemical Energy Conversion and Storage. **2023**, 2023, 1-47 ○
- 58 A Review on Thermal Behaviors and Thermal Management Systems for Supercapacitors. **2023**, 9, 128 ○
- 57 A Review of Current Trends on Polyvinyl Alcohol (PVA)-Based Solid Polymer Electrolytes. **2023**, 28, 1781 ○
- 56 A tribenzocoronene-based 2D conductive metalOrganic framework for efficient energy storage. **2023**, 59, 2978-2981 ○
- 55 The Progress and Comprehensive Analysis of Supercapacitors for Alternating Current Line Filtering: A Review. **2023**, 6, ○
- 54 Coral-Inspired Hierarchical Structure Promotes a WinWin on Mass Loading and Rate Capability: A NickelCobaltZincSulfide@NickelCobalt Layered Double Hydroxide Electrode for a High-Performance Hybrid Supercapacitor. **2023**, 6, 2781-2792 ○
- 53 An Ultrastable Tetrabenzonaphthalene-Linked conjugated microporous polymer functioning as a high-performance electrode for supercapacitors. **2023**, 104750 2
- 52 Biomass-Derived N-Doped Activated Carbon from Eucalyptus Leaves as an Efficient Supercapacitor Electrode Material. **2023**, 9, 24 ○
- 51 Boosting the output of hydrocapacitors by structure modification. **2023**, 29, 101405 ○

- 50 Hybrid polymer gels for energy applications. ○
- 49 One-dimensional nanostructured electrode materials based on electrospinning technology for supercapacitors. **2023**, 134, 109803 ○
- 48 Evaluation of nanostructured electrode materials for high-performance supercapacitors using multiple-criteria decision-making approach. **2023**, 31, 2286-2314 ○
- 47 Choice of Materials for Triboelectric Nanogenerators. **2023**, 1-50 ○
- 46 Ethanol-mediated dense and N/O/P tri-doped graphene xerogel for ultrahigh volumetric capacitive energy storage. **2023**, 564, 232869 ○
- 45 Electrocapacitive Deionization: Mechanisms, Electrodes, and Cell Designs. 2213578 ○
- 44 Development of Mesoporous Carbon Composites with Waste Plastics Derived Graphene and MnO₂ for Supercapacitor Applications. **2023**, 170, 040518 ○
- 43 Fabrication of Porous Carbon Nanofibers from Polymer Blends Using Template Method for Electrode-Active Materials in Supercapacitor. **2023**, 28, 2228 1
- 42 Chemically Oxidized Carbon Paper as a Free-Standing Electrode for Supercapacitor: An Insight into Surface and Diffusion Contribution. **2023**, 8, ○
- 41 Recent Advances in Two-Dimensional MXene for Supercapacitor Applications: Progress, Challenges, and Perspectives. **2023**, 13, 919 ○
- 40 Porous Carbon in Food Industry. **2023**, 733-761 ○
- 39 Reduced graphene oxide/ionic liquid composites with tunable interlayer spacing for improved charge/discharge kinetics in supercapacitors. **2023**, 34, 235402 ○
- 38 Lignin-Derived Carbonaceous Materials for Supercapacitor Applications. **2023**, 65-115 ○
- 37 Marine predators optimization and ANFIS as an effective tools for maximization of specific capacity of G-NiO electrode for electrochemical energy storage. **2023**, 102210 ○
- 36 Microwave-synthesized Bismuth oxide-graphene oxide composite as an electrode for supercapacitors. **2023**, 18, 100086 ○
- 35 Unlocking the full energy densities of carbon-based supercapacitors. **2023**, 11, 517-546 ○
- 34 Physico-chemical properties of silicon-carbon films obtained by electrochemical deposition. **2023**, 13, 39-44 ○
- 33 Effect of pyrolysis temperature on carbon materials derived from reed residue waste biomass for use in supercapacitor electrodes. **2023**, 178, 111318 ○

- 32 Structural, BET and EPR properties of mixed zinc-manganese spinel ferrites nanoparticles for energy storage applications. **2023**, ○
- 31 Review of advances in improving thermal, mechanical and electrochemical properties of polyaniline composite for supercapacitor application. ○
- 30 A Facile Microwave Hydrothermal Synthesis of ZnFe₂O₄/rGO Nanocomposites for Supercapacitor Electrodes. **2023**, 13, 1034 ○
- 29 Micro/nano-wrinkled elastomeric electrodes enabling high energy storage performance and various form factors. ○
- 28 Insights into the CO₂ Capture Characteristics within the Hierarchical Pores of Carbon Nanospheres Using Small-Angle Neutron Scattering. **2023**, 39, 4382-4393 ○
- 27 Metal-Organic Framework Composites and Their Derivatives as Efficient Electrodes for Energy Storage Applications: Recent Progress and Future Perspectives. ○
- 26 Black Liquor and Wood Char-Derived Nitrogen-Doped Carbon Materials for Supercapacitors. **2023**, 16, 2551 ○
- 25 Traditional Electrode Materials for Supercapacitor Applications. **2023**, 19-64 ○
- 24 Two-Dimensional Mesoporous Materials for Energy Storage and Conversion: Current Status, Chemical Synthesis and Challenging Perspectives. **2023**, 6, ○
- 23 Low-Pressure Argon/Hydrogen/Oxygen Plasma Treatment on LiMn₂O₄ Li-Ion Hybrid Supercapacitors. **2023**, 12, 043002 ○
- 22 Novel and flexible asymmetric supercapacitors based on NiCo₂O₄ nanosheets coated on Al and Cu tapes for wearable devices applications. **2023**, 5, ○
- 21 Three-dimensional N-doped mesoporous carbon/MXene hybrid architecture for supercapacitor applications. **2023**, 13, 9983-9997 ○
- 20 Microwave-assisted synthesis of cobalt doped WO₃ nanostructure as an electrode material for supercapacitor. **2023**, 34, ○
- 19 N, O co-doped micro-mesoporous carbon obtained by sustainable conversion of biomass waste for supercapacitors. **2023**, 34, ○
- 18 Carbon-based nanomaterials for supercapacitor applications. **2023**, 325-342 ○
- 17 Ternary structured magnesium cobalt oxide/graphene/polycarbazole nanohybrids for high performance electrochemical supercapacitors. **2023**, 6, 399-408 ○
- 16 Free-standing carbon network with enhanced capacitive performance synthesized via green H₂O₂ activation. **2023**, 668, 131425 ○
- 15 Solvent-Free Synthesis of Polymer Spheres and the Activation to Porous Carbon Spheres for Advanced Aluminum-Ion Hybrid Capacitors. ○

- 14 Electrochemical performance of supercapacitor electrodes based on carbon aerogel-reinforced spread tow carbon fiber fabrics. **2023**, 238, 110042 ○
- 13 In-Situ Formation of NiFe-MOF on Nickel Foam as a Self-Supporting Electrode for Flexible Electrochemical Sensing and Energy Conversion. **2023**, 11, 242 ○
- 12 Comparative Analysis of Symmetrical, Asymmetrical and Hybrid Supercapacitors as a Pulse Current Device. **2022**, ○
- 11 Designed Production of Atomic-Scale Nanowindows in Single-Walled Carbon Nanotubes. ○
- 10 Enhanced quantum capacitance in Ti, V, Cr, Fe, Ga, Ge, Se, and Br doped arsenene: A first principles investigation. **2023**, 823, 140500 ○
- 9 Waste plastic to energy storage materials: A State-of-the-art review. ○
- 8 MoS₂-based core-shell nanostructures: Highly efficient materials for energy storage and conversion applications. **2023**, 66, 107393 ○
- 7 Biodegradable polymer nanocomposites as electrode materials for electrochemical double-layer capacitors and hybrid supercapacitor applications. **2023**, 311-352 ○
- 6 Ceramics for supercapacitors. **2023**, 157-183 ○
- 5 Ultrasonic exfoliated few-layer Ti₂CT_x nanosheets for high specific capacitive electrode. **2023**, 34, ○
- 4 Effects of oxygen-containing functional groups on carbon materials in supercapacitors: A review. **2023**, 230, 111952 ○
- 3 Oxygen self-doped hierarchical porous carbons derived from coal liquefaction residue for high-performance supercapacitors in organic and ionic liquid-based electrolytes. **2023**, 669, 131552 ○
- 2 Fabrication of an efficient supercapacitor based on defective mesoporous carbon as electrode material utilizing Reactive Blue 15 as novel redox mediator for natural aqueous electrolyte. **2023**, 347, 128472 ○
- 1 Multi-metallic carbide nanostructures and their electrocatalytic energy storage and conversion applications. **2023**, 5, 100952 ○