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Carbon materials for the electrochemical storage of energy in capacitors

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#	Paper	IF	Citations
2272	Frequency and angular dependences of parametric superradiance generated in a KDP crystal as a result of an interaction of the β type. 1988 , 18, 1318-1319		1
2271	Electrochemical Tuning of Electronic Structure of Single-Walled Carbon Nanotubes: In-situ Raman and Vis-NIR Study. 2001 , 105, 10764-10771		209
2270	Doping and Electrochemical Capacitance of Carbon Nanotube-Polypyrrole Composite Films. 2001 , 703, 1		
2269	Nanotubular materials for supercapacitors. 2001 , 97-98, 822-825		280
2268	Supercapacitors from nanotubes/polypyrrole composites. 2001 , 347, 36-40		451
2267	A replica reference interaction site model theory for a polar molecular liquid sorbed in a disordered microporous material with polar chemical groups. 2001 , 115, 8620-8633		34
2266	Improvement of Commercial Activated Carbon and Its Application in Electric Double Layer Capacitors. 2002 , 5, A141		49
2265	TOWARDS A MOLECULAR THEORY FOR THE VAN DER WAALS-MAXWELL DESCRIPTION OF FLUID PHASE TRANSITIONS. 2002 , 01, 381-406		38
2264	Carbon Aerogels. 2037-2062		6
2263	Electrochemical Supercapacitors. 2002 , 481-505		18
2262	Electrochemical Synthesis and Characterization of Magnetic Nanoparticles on Carbon Nanowall Templates. 2002 , 2, 751-754		63
2261	Electric Double Layer Capacitance Performance of Porous Carbons Prepared by Defluorination of Polytetrafluoroethylene with Potassium. 2002 , 5, A283		22
2260	A study of activated carbon nanotubes as electrochemical super capacitors electrode materials. 2002 , 57, 988-991		112
2259	Control of mesoporous structure of aerogels derived from cresol-formaldehyde. 2002 , 254, 153-7		73
2258	Nanotubular materials as electrodes for supercapacitors. 2002 , 77-78, 213-219		108
2257	All solid electric double layer capacitors based on Nafion ionomer. 2002 , 47, 2795-2800		61
2256	Electrochemical storage of energy in carbon nanotubes and nanostructured carbons. <i>Carbon</i> , 2002 , 40, 1775-1787	10.4	928

2255	High surface area carbon nanotubes prepared by chemical activation. <i>Carbon</i> , 2002 , 40, 1614-1617	10.4	93
2254	Preparation of activated carbon nanotubes. <i>Carbon</i> , 2002 , 40, 2743-2745	10.4	35
2253	Carbon aerogels derived from cresol/Resorcinol/Formaldehyde for supercapacitors. <i>Carbon</i> , 2002 , 40, 2955-2959	10.4	184
2252	Enhanced capacitance of carbon nanotubes through chemical activation. 2002 , 361, 35-41		238
2251	In situ Vis/NIR and Raman spectroelectrochemistry at fullerene peapods. 2002 , 361, 79-85		57
2250	Electrochemical Tuning of Electronic Structure of C60 and C70 Fullerene Peapods: In Situ Visible Near-Infrared and Raman Study. 2003 , 107, 7666-7675		66
2249	Preparation and Properties of Resorcinol/Formaldehyde Organic and Carbon Gels. 2003 , 15, 101-114		831
2248	The effect of temperature on the mesopore development in commercial activated carbon by steam activation in the presence of yttrium and cerium oxides. 2003 , 229, 55-61		13
2247	Textural characterisation of graphite matrices using electrochemical methods. <i>Carbon</i> , 2003 , 41, 123-130	10.4	19
2246	Preparation and characterization of the carbonized material of phenol/formaldehyde resin with addition of various organic substances. <i>Carbon</i> , 2003 , 41, 465-472	10.4	50
2245	Characterization of multiwall carbon nanotubes and influence of surfactant in the nanocomposite processing. <i>Carbon</i> , 2003 , 41, 797-809	10.4	176
2244	Huge electrochemical capacitance of exfoliated carbon fibers. <i>Carbon</i> , 2003 , 41, 2680-2682	10.4	45
2243	Enhanced supercapacitance of multiwalled carbon nanotubes functionalized with ruthenium oxide. 2003 , 376, 207-213		146
2242	The study of multiwalled carbon nanotube deposited with conducting polymer for supercapacitor. 2003 , 48, 575-580		263
2241	Electrochemical capacitor performance of hydrous ruthenium oxide/mesoporous carbon composite electrodes. 2003 , 123, 79-85		180
2240	Investigation of electrochemical double-layer (ECDL) capacitors electrodes based on carbon nanotubes and activated carbon materials. 2003 , 124, 321-329		227
2239	Vertical growth of multi-walled carbon nanotubes by bias-assisted ICPHFVCD and their field emission properties. 2003 , 12, 1717-1722		8
2238	Synthesis, Laser Processing, and Flame Purification of Nanostructured Carbon. 2003 , 3, 223-229		28

2237	Highly Mesoporous Carbon Electrodes for Electric Double-Layer Capacitors. 2003 , 6, A214	51
2236	High Capacitance EDLC Using a Carbon Material Obtained by Carbonization of PVDC. 2003 , 6, A23	23
2235	A Hybrid Fe ₃ O ₄ -MnO ₂ Capacitor in Mild Aqueous Electrolyte. 2003 , 6, A244	174
2234	Synthesis of Mesoporous Carbon-Containing Ferrocene Derivative and Its Electrochemical Property. 2003 , 32, 132-133	19
2233	PVDC-Based Carbon Material by Chemical Activation and Its Application to Nonaqueous EDLC. 2004 , 151, E199	48
2232	Microfabrication of Glassy Carbon by Electrochemical Etching. 2004 , 151, C142	11
2231	Improved EDLC Characteristics of the CNTs Grown on the Nanoporous Alumina Templates. 2004 , 822, S3.6.1	
2230	Electrochemical Transformation of SWNT/Nafion Composites. 2004 , 7, A421	8
2229	Supercapacitors Prepared from Carbon Nanofibers Electrospun from Polybenzimidazol. 2004 , 151, A769	40
2228	Mechanism of co-pyrolysis of coal-tar pitch with polyvinylpyridine. 2004 , 72, 121-130	35
2227	Capacitance properties of ordered porous carbon materials prepared by a templating procedure. 2004 , 65, 287-293	199
2226	Development of mesoporosity in activated carbons via coal modification using Ca- and Fe-exchange. 2004 , 76, 193-201	20
2225	Electrochemical capacitors based on highly porous carbons prepared by KOH activation. 2004 , 49, 515-523	359
2224	EDLC characteristics of CNTs grown on nanoporous alumina templates. 2004 , 50, 857-862	36
2223	Characteristics of supercapacitor electrodes of PBI-based carbon nanofiber web prepared by electrospinning. 2004 , 50, 877-881	134
2222	Electrochemical study of activated carbon-semiconducting oxide composites as electrode materials of double-layer capacitors. 2004 , 49, 3463-3467	73
2221	Fabrication and electrochemical properties of carbon nanotube array electrode for supercapacitors. 2004 , 49, 4157-4161	145
2220	KOH activated carbon fabrics as supercapacitor material. 2004 , 65, 275-280	97

2219	Carbon ¹ nic liquid double-layer capacitors. 2004 , 65, 281-286	227
2218	Electrochemical behavior of exfoliated carbon fibers in H ₂ SO ₄ electrolyte with different concentrations. 2004 , 65, 219-222	29
2217	Polyaniline-coated carbon particles and their electrode behavior in organic carbonate electrolyte. 2004 , 570, 201-208	17
2216	Supercapacitor electrodes from new ordered porous carbon materials obtained by a templating procedure. 2004 , 108, 148-155	150
2215	Influence of pore structure on electric double-layer capacitance of template mesoporous carbons. 2004 , 133, 329-336	250
2214	The capacitive characteristics of supercapacitors consisting of activated carbon fabric ^β polyaniline composites in NaNO ₃ . 2004 , 137, 152-157	73
2213	Carbon nanofiber composites for the electrodes of electrochemical capacitors. 2004 , 400, 253-257	71
2212	Electrochemical characterization on RuO ₂ · xH ₂ O/carbon nanotubes composite electrodes for high energy density supercapacitors. <i>Carbon</i> , 2004 , 42, 451-453	10.4 73
2211	Preparation of highly microporous and mesoporous carbon from the mesophase pitch and its carbon foams with KOH. <i>Carbon</i> , 2004 , 42, 1872-1875	10.4 39
2210	Electrochemical Capacitors Based on Exfoliated Graphite Electrodes. 2004 , 7, A264	36
2209	Effect of Graphite on the Electrochemical Properties of Ballmilled RuO ₂ . 2004 , 151, A1141	4
2208	Fabrication of Nanostructured Manganese Oxide Electrodes for Electrochemical Capacitors. 2004 , 7, A123	93
2207	Charge Storage Mechanism of MnO ₂ Electrode Used in Aqueous Electrochemical Capacitor. 2004 , 16, 3184-3190	2166
2206	Synthesis of Polymer Nanospheres and Carbon Nanospheres Using the Monomer 1,8-Dihydroxymethyl-1,3,5,7- octatetrayne. 2004 , 4, 2271-2276	41
2205	Ordered Porous Carbons with Tunable Pore Sizes as Catalyst Supports in Direct Methanol Fuel Cell. 2004 , 108, 7074-7079	302
2204	Self-assembled linear bundles of single wall carbon nanotubes and their alignment and deposition as a film in a dc field. 2004 , 126, 10757-62	216
2203	A novel nanocomposite from multiwalled carbon nanotubes functionalized with a conducting polymer. 2004 , 13, 295-298	69
2202	Colloidal Crystal-Templated Porous Carbon as a High Performance Electrical Double-Layer Capacitor Material. 2004 , 7, A221	70

2201	Single-Walled Carbon Nanotubes as Electrodes in Supercapacitors. 2004 , 151, A831	110
2200	Comparisons on properties and growth mechanisms of carbon nanotubes fabricated by high-pressure and low-pressure plasma-enhanced chemical vapor deposition. 2004 , 13, 2147-2151	16
2199	A Hybrid Activated Carbon-Manganese Dioxide Capacitor using a Mild Aqueous Electrolyte. 2004 , 151, A614	292
2198	Carbon aerogels with ultrathin, electroactive poly(o-methoxyaniline) coatings for high-performance electrochemical capacitors. 2004 , 350, 97-106	27
2197	Capacitance control of carbon aerogel electrodes. 2004 , 347, 238-245	117
2196	Sulfur-functionalized carbon aerogels: a new approach for loading high-surface-area electrode nanoarchitectures with precious metal catalysts. 2004 , 350, 80-87	46
2195	Three-dimensional battery architectures. 2004 , 104, 4463-92	1038
2194	Inorganic-organic Hybrid materials from Layered Double Hydroxide structure and their subsequent carbonaceous replica. 2004 , 847, 403	
2193	Carbon Nanotubes as Backbones for Composite Electrodes of Supercapacitors. 2004 ,	3
2192	Carbon Nanotubes for Storage of Energy. 2004 ,	2
2191	Electrical double-layer capacitive properties of colloidal crystal templated nanoporous carbons. 2005 , 156, 589-594	8
2190	Electric double-layer capacitance of microporous carbon nano spheres prepared through precipitation of aromatic resin pitch. 2005 , 139, 379-383	55
2189	Performance of experimental carbon blacks in aqueous supercapacitors. 2005 , 140, 203-210	168
2188	Preparation and characterization of composite electrodes of coconut-shell-based activated carbon and hydrous ruthenium oxide for supercapacitors. 2005 , 141, 198-203	68
2187	Electrochemical characterization of electrospun activated carbon nanofibres as an electrode in supercapacitors. 2005 , 142, 382-388	153
2186	Poly(o-toluidine) for carbon fabric electrode modification to enhance the electrochemical capacitance and conductivity. 2005 , 144, 295-301	20
2185	Electropolymerization of polyaniline on high surface area carbon substrates. 2005 , 578, 9-15	40
2184	Influence of drying on the morphology of resorcinol/formaldehyde-based carbon gels. 2005 , 86, 124-133	132

2183	Carbon nanotubes as a secondary support of a catalyst layer in a gas diffusion electrode for metal air batteries. 2005 , 284, 593-9		79
2182	Templated mesoporous carbons for supercapacitor application. 2005 , 50, 2799-2805		362
2181	Carbon nanofibres and activated carbon nanofibres as electrodes in supercapacitors. <i>Carbon</i> , 2005 , 43, 551-557	10.4	102
2180	Electrochemical energy storage in ordered porous carbon materials. <i>Carbon</i> , 2005 , 43, 1293-1302	10.4	594
2179	Biomolecules as selective dispersants for carbon nanotubes. <i>Carbon</i> , 2005 , 43, 1879-1884	10.4	62
2178	Electrochemical catalytic modification of activated carbon fabrics by ruthenium chloride for supercapacitors. <i>Carbon</i> , 2005 , 43, 1926-1935	10.4	51
2177	Adsorption of vitamin B12 on ordered mesoporous carbons coated with PMMA. <i>Carbon</i> , 2005 , 43, 2344-2351	10.4	57
2176	Carbon aerogels, cryogels and xerogels: Influence of the drying method on the textural properties of porous carbon materials. <i>Carbon</i> , 2005 , 43, 2481-2494	10.4	349
2175	Low temperature synthesis of carbon nanofibres on carbon fibre matrices. <i>Carbon</i> , 2005 , 43, 2643-2648	10.4	52
2174	On the electrical double-layer capacitance of mesoporous templated carbons. <i>Carbon</i> , 2005 , 43, 3012-3015	10.4	42
2173	Effect of nitrogen in carbon electrode on the supercapacitor performance. 2005 , 404, 53-58		306
2172	Effects of activation conditions on the electrochemical capacitance of activated carbon nanotubes. 2005 , 410, 307-311		15
2171	Electrochemistry of composite films of C60 and multiwalled carbon nanotubes: A robust conductive matrix for the fine dispersion of fullerenes. 2005 , 413, 346-350		19
2170	Pore characterization of multi-walled carbon nanotubes modified by KOH. 2005 , 416, 251-255		35
2169	Impact of mesoporous silica-based materials on electrochemistry and feedback from electrochemical science to the characterization of these ordered materials. 2005 , 8, 693-712		81
2168	Effect of pore size distribution of coal-based activated carbons on double layer capacitance. 2005 , 50, 1197-1206		272
2167	Determination of the specific capacitance of conducting polymer/nanotubes composite electrodes using different cell configurations. 2005 , 50, 2499-2506		653
2166	A Self-Supporting Electrode for Supercapacitors Prepared by One-Step Pyrolysis of Carbon Nanotube/Polyacrylonitrile Blends. 2005 , 17, 2380-2384		271

2165	High power density supercapacitors using locally aligned carbon nanotube electrodes. 2005 , 16, 350-353		239
2164	Electrical conductivity study of porous carbon composite derived from rice husk. 2005 , 91, 471-476		78
2163	Application of ultrasonic irradiation in preparing conducting polymer as active materials for supercapacitor. 2005 , 59, 800-803		73
2162	NaCl adsorption in multi-walled carbon nanotubes. 2005 , 59, 1989-1992		74
2161	Electroactive polymer-based devices for e-textiles in biomedicine. 2005 , 9, 295-318		217
2160	A simplified preparation of mesoporous carbon and the examination of the carbon accessibility for electric double layer formation. <i>Carbon</i> , 2005 , 43, 559-566	10.4	171
2159	Electrochemical capacitor performance of mesoporous carbons obtained by templating technique. <i>Carbon</i> , 2005 , 43, 866-870	10.4	94
2158	Raman spectroscopy of the effect of reactor neutron irradiation on the structure of polycrystalline C60. <i>Carbon</i> , 2005 , 43, 870-873	10.4	5
2157	Synthesis of mesoporous carbon as electrode material for supercapacitor by modified template method. 2005 , 12, 647-652		5
2156	Electrochemical properties of mesoporous carbon aerogel electrodes for electric double layer capacitors. 2005 , 40, 4105-4107		24
2155	Study of correlation of structural and surface properties with electrochemical behaviour in carbon aerogels. 2005 , 40, 3777-3782		23
2154	Preparation of carbon aerogel electrodes for supercapacitor and their electrochemical characteristics. 2005 , 40, 725-731		120
2153	Electrochemical properties of thin-layered composites formed by carbon nanotubes and polybithiophene. 2005 , 41, 439-446		11
2152	Origami Fabrication of SU-8 Supercapacitors. 2005 , 519		
2151	Electrochemical capacitance from manganese oxide nanowire structure synthesized by cyclic voltammetric electrodeposition. 2005 , 87, 153102		122
2150	Functionalized Single Wall Carbon Nanotubes Treated with Pyrrole for Electrochemical Supercapacitor Membranes. 2005 , 17, 1997-2002		167
2149	Activated Carbon Materials of Uniform Porosity from Polyaramid Fibers. 2005 , 17, 5893-5908		68
2148	Carbon Microspheres Obtained from Resorcinol-Formaldehyde as High-Capacity Electrodes for Sodium-Ion Batteries. 2005 , 8, A222		288

2147	Wet catalyst assisted growth of carbon nanofibers on complex three-dimensional substrates. 2005 , 14, 733-738	21
2146	Light emission and degradation of single-walled carbon nanotube filament. 2005 , 98, 044306	11
2145	Chemically Synthesized Nanostructured VN for Pseudocapacitor Application. 2005 , 8, A418	72
2144	Electrochemical capacitors of RuO ₂ nanophase grown on LiNbO ₃ (100) and sapphire(0001) substrates. 2005 , 15, 2122	69
2143	Double-Layer Capacitance of Carbide Derived Carbons in Sulfuric Acid. 2005 , 8, A357	72
2142	Enhanced Electrochemical Capacitance of NiO Loaded on TiO ₂ Nanotubes. 2005 , 152, A671	54
2141	Influence of the semiconducting properties of a current collector on the electric double layer formation on porous carbon. 2005 , 109, 10279-84	45
2140	Synthesis and Electrochemical Characterization of CoAl Layered Double Hydroxides. 2005 , 152, A2130	65
2139	Synthesis and Electrochemical Investigations of Ni _{1-x} O Thin Films and Ni _{1-x} O on Three-Dimensional Carbon Substrates for Electrochemical Capacitors. 2005 , 152, A2123	88
2138	Nickel oxide/carbon nanotubes nanocomposite for electrochemical capacitance. 2005 , 150, 153-157	207
2137	Electrochemical insertion of lithium into a doped diamond film grown on carbon felt substrates. 2005 , 14, 1673-1677	31
2136	Synthesis of Nitrogen-Containing Microporous Carbon with a Highly Ordered Structure and Effect of Nitrogen Doping on H ₂ O Adsorption. 2005 , 17, 5187-5193	150
2135	Hydrothermal synthesis and pseudocapacitance properties of MnO ₂ nanostructures. 2005 , 109, 20207-14	832
2134	Mesoporous carbons with graphitic structures fabricated by using porous silica materials as templates and iron-impregnated polypyrrole as precursor. 2005 , 15, 1079	137
2133	Conducting polymer-based nanostructured materials: electrochemical aspects. 2005 , 16, R51-62	303
2132	Drastic change of electric double layer capacitance by surface functionalization of carbon nanotubes. 2005 , 87, 234106	76
2131	Performance of Manganese Oxide/CNTs Composites as Electrode Materials for Electrochemical Capacitors. 2005 , 152, A229	335
2130	Room-temperature phosphonium ionic liquids for supercapacitor application. 2005 , 86, 164104	148

2129	Electrochemical and Textural Characteristics of (Ru-Sn) $O_{x}nH_{2}O$ for Supercapacitors. 2005 , 152, A370	20
2128	Microwave digestion and acidic treatment procedures for the purification of multi-walled carbon nanotubes. 2005 , 14, 798-803	37
2127	Electrochemical Characterization of Electrochemically Prepared Ruthenium Oxide/Carbon Nanotube Electrode for Supercapacitor Application. 2005 , 8, A369	87
2126	KOH Activation of Needle Coke to Develop Activated Carbons for High-Performance EDLC. 2006 , 20, 1680-1684	104
2125	Origami fabrication of nanostructured, three-dimensional devices: Electrochemical capacitors with carbon electrodes. 2006 , 88, 083104	110
2124	Textural and electrochemical properties of carbon replica obtained from styryl organo-modified layered double hydroxide. 2006 , 16, 2074-2081	52
2123	New Carbon Based Materials for Electrochemical Energy Storage Systems: Batteries, Supercapacitors and Fuel Cells. 2006 ,	22
2122	HYBRID SUPERCAPACITORS BASED ON MnO_{2} /CARBON NANOTUBES COMPOSITES. 2006 , 33-40	2
2121	DEVELOPMENT OF SUPERCAPACITORS BASED ON CONDUCTING POLYMERS. 2006 , 41-50	3
2120	Oxidation treatment of carbon nanotubes: An essential process in nanocomposite with RuO_{2} for supercapacitor electrode materials. 2006 , 89, 033107	20
2119	Mesopore-modified zeolites: preparation, characterization, and applications. 2006 , 106, 896-910	922
2118	Synthesis and Electrochemical Characterization of Vanadium Oxide on Carbon Nanotube Film Substrate for Pseudocapacitor Applications. 2006 , 153, A989	97
2117	Electrodeposition of Nickel and Cobalt Mixed Oxide/Carbon Nanotube Thin Films and Their Charge Storage Properties. 2006 , 153, A1568	52
2116	Sol-Gel-Derived Ceria Nanoarchitectures: Synthesis, Characterization, and Electrical Properties. 2006 , 18, 50-58	198
2115	Surface Properties, Porosity, Chemical and Electrochemical Applications. 2006 , 495-549	10
2114	Chapter 6 Application of nanotextured carbons for supercapacitors and hydrogen storage. 2006 , 7, 293-343	9
2113	Cross-Linked Polymer Hydrogel Electrolytes for Electrochemical Capacitors. 2006 , 153, A614	84
2112	Nanoscale conductivity mapping of hybrid nanoarchitectures: ultrathin poly(o-phenylenediamine) on mesoporous manganese oxide ambigels. 2006 , 22, 4462-6	29

2111	Anomalous increase in carbon capacitance at pore sizes less than 1 nanometer. 2006 , 313, 1760-3		2937
2110	Phase transition and electrochemical capacitance of mechanically treated manganese oxides. 2006 , 414, 137-141		33
2109	Preparation of cresol-formaldehyde carbon aerogels via drying aquagel at ambient pressure. 2006 , 352, 3358-3362		16
2108	Nanocomposites based on functionalized nanotubes in polyaniline matrix by plasma polymerization. 2006 , 34, 181-189		21
2107	Carbon nanotube-enabled materials. 2006 , 213-274		10
2106	Fabrication and Characterization of Carbon Nanotube-Titanium Nitride Composites with Enhanced Electrical and Electrochemical Properties. 2006 , 89, 156-161		121
2105	Activated carbon produced from Sasol-Lurgi gasifier pitch and its application as electrodes in supercapacitors. <i>Carbon</i> , 2006 , 44, 441-446	10.4	75
2104	Microstructural and electrochemical characterization of RuO ₂ /CNT composites synthesized in supercritical diethyl amine. <i>Carbon</i> , 2006 , 44, 888-893	10.4	50
2103	Synthesis of multi-branched porous carbon nanofibers and their application in electrochemical double-layer capacitors. <i>Carbon</i> , 2006 , 44, 1425-1428	10.4	92
2102	Fabrication and electrochemical properties of carbon nanotube film electrodes. <i>Carbon</i> , 2006 , 44, 1963-1968	10.4	136
2101	Chemical and electrochemical characterization of porous carbon materials. <i>Carbon</i> , 2006 , 44, 2642-2651	10.4	190
2100	Preparation of porous carbons from thermoplastic precursors and their performance for electric double layer capacitors. <i>Carbon</i> , 2006 , 44, 2360-2367	10.4	187
2099	Carbon aerogel spheres prepared via alcohol supercritical drying. <i>Carbon</i> , 2006 , 44, 2430-2436	10.4	59
2098	Imaging the structure and porosity of active carbons by scanning tunneling microscopy. <i>Carbon</i> , 2006 , 44, 2469-2478	10.4	19
2097	A dilatometric study of the voltage limitation of carbonaceous electrodes in aprotic EDLC type electrolytes by charge-induced strain. <i>Carbon</i> , 2006 , 44, 2523-2533	10.4	107
2096	Relationship between the nanoporous texture of activated carbons and their capacitance properties in different electrolytes. <i>Carbon</i> , 2006 , 44, 2498-2507	10.4	755
2095	Thermal desorption of gases and solvents from graphite and carbon nanotube surfaces. <i>Carbon</i> , 2006 , 44, 2931-2942	10.4	139
2094	Capacitance properties of multi-walled carbon nanotubes modified by activation and ammoxidation. <i>Carbon</i> , 2006 , 44, 2368-2375	10.4	103

2093	11B NMR study of the . <i>Carbon</i> , 2006 , 44, 2578-2586	10.4	36
2092	The performance of electric double layer capacitors using particulate porous carbons derived from PAN fiber and phenol-formaldehyde resin. <i>Carbon</i> , 2006 , 44, 3218-3225	10.4	72
2091	Interactions between toluene and aniline and graphite surfaces. <i>Carbon</i> , 2006 , 44, 3130-3133	10.4	4
2090	Solvent-free ionic liquids as in situ probes for assessing the effect of ion size on the performance of electrical double layer capacitors. <i>Carbon</i> , 2006 , 44, 3126-3130	10.4	52
2089	Adsorption properties of N ₂ , H ₂ on single-walled carbon nanotubes modified by KOH. 2006 , 432, 518-522		16
2088	Optimisation of supercapacitors using carbons with controlled nanotexture and nitrogen content. 2006 , 51, 2209-2214		273
2087	Double-layer capacitors composed of interconnected silver particles and with a high-frequency response. 2006 , 51, 1172-1177		25
2086	Hydrothermal synthesis of binary Ru ₂ O ₃ oxides with excellent performances for supercapacitors. 2006 , 52, 1749-1757		36
2085	Ionic liquids as electrolytes. 2006 , 51, 5567-5580		2096
2084	Transformation of mesoporous benzene silica to nanoporous carbon. 2006 , 91, 276-285		8
2083	PAN/SAN/SWNT ternary composite: Pore size control and electrochemical supercapacitor behavior. 2006 , 47, 5831-5837		31
2082	Characterization of the porous carbon prepared by using halloysite as template and its application to EDLC. 2006 , 67, 1186-1189		32
2081	Optimisation of an asymmetric manganese oxide/activated carbon capacitor working at 2V in aqueous medium. 2006 , 153, 183-190		619
2080	On the specific double-layer capacitance of activated carbons, in relation to their structural and chemical properties. 2006 , 154, 314-320		68
2079	Performance of a polyaniline(DMcT)/carbon fiber composite as cathode for rechargeable lithium batteries. 2006 , 154, 281-286		36
2078	Nomex-derived activated carbon fibers as electrode materials in carbon based supercapacitors. 2006 , 153, 419-423		84
2077	Influence of mesophase activation conditions on the specific capacitance of the resulting carbons. 2006 , 156, 719-724		21
2076	Room temperature molten salt as electrolyte for carbon nanotube-based electric double layer capacitors. 2006 , 158, 773-778		87

2075	Effect of pore size and surface area of carbide derived carbons on specific capacitance. 2006 , 158, 765-772	515
2074	Studies on preparation and performances of carbon aerogel electrodes for the application of supercapacitor. 2006 , 158, 784-788	278
2073	Competitive effect of carbon nanotubes oxidation on aqueous EDLC performance: Balancing hydrophilicity and conductivity. 2006 , 158, 1517-1522	91
2072	Carbon properties and their role in supercapacitors. 2006 , 157, 11-27	3113
2071	Chalcocite as a potential material for supercapacitors. 2006 , 160, 1511-1517	36
2070	Cresol-formaldehyde based carbon aerogel as electrode material for electrochemical capacitor. 2006 , 162, 738-742	86
2069	Highly ordered MnO ₂ nanowire array thin films on Ti/Si substrate as an electrode for electrochemical capacitor. 2006 , 179, 1351-1355	63
2068	Electrosorption capacitance of nanostructured carbon-based materials. 2006 , 302, 54-61	125
2067	Synthesis of nanoporous carbon: An in situ template approach. 2006 , 94, 122-126	2
2066	Preparation, structural characterization, and electrochemical properties of chemically modified mesoporous carbon. 2006 , 96, 357-362	118
2065	High efficiency microwave digestion purification of multi-walled carbon nanotubes synthesized by thermal chemical vapor deposition. 2006 , 498, 202-205	33
2064	Chemistry of carbon nanotubes. 2006 , 106, 1105-36	3474
2063	Effects of activation temperature on the electrochemical capacitance of activated carbon nanotubes. 2006 , 17, 373-377	3
2062	Electronic properties and applications of cluster-assembled carbon films. 2006 , 17, 427-441	28
2061	Experimental analysis of the capacity of electrochemical capacitors operating with AC voltage at a frequency of 50 Hz. 2006 , 88, 83-88	1
2060	Solvent-free double-layer capacitors with polymer electrolytes based on 1-ethyl-3-methyl-imidazolium triflate ionic liquid. 2006 , 82, 579-584	42
2059	High-voltage asymmetric supercapacitors operating in aqueous electrolyte. 2006 , 82, 567-573	310
2058	The use of ionic liquids as solvent-free green electrolytes for hybrid supercapacitors. 2006 , 82, 627-632	76

2057	EDLC characteristics with high specific capacitance of the CNT electrodes grown on nanoporous alumina templates. 2006 , 6, 1012-1015	33
2056	Improved electrochemical capacitive characteristics of the carbon nanotubes grown on the alumina templates with high pore density. 2006 , 163, 304-308	20
2055	Pore characteristics and electrochemical performance of ordered mesoporous carbons for electric double-layer capacitors. 2006 , 51, 5715-5720	96
2054	The role of textural characteristics and oxygen-containing surface groups in the supercapacitor performances of activated carbons. 2006 , 52, 560-566	121
2053	Synthesis of novel ordered carbon nanorods and its application in electrochemical double layer capacitor. 2006 , 49, 425-433	1
2052	Feasibility of bamboo-based activated carbons for an electrochemical supercapacitor electrode. 2006 , 23, 592-594	46
2051	Pseudocapacitance characterization of hydrous ruthenium oxide prepared via cyclic voltammetric deposition. 2006 , 98, 442-446	29
2050	Effects of protection gas flow rate on the electrochemical capacitance of activated carbon nanotubes. 2006 , 99, 314-317	2
2049	Activated carbon-carbon nanotube composite porous film for supercapacitor applications. 2006 , 41, 478-484	84
2048	Multiwalled Carbon Nanotubes Resist Intercalation Whereas Pyrolytic Graphite Can Exfoliate in Propylene Carbonate: Electroanalysis Without the Deleterious Effects of Intercalation for the Detection of Ammonia. 2006 , 18, 2141-2147	9
2047	Single-walled Carbon Nanotubes as Electrode Materials for Supercapacitors. 2006 , 24, 1505-1508	24
2046	A Hybrid Supercapacitor Fabricated with a Carbon Nanotube Cathode and a TiO ₂ B Nanowire Anode. 2006 , 16, 2141-2146	520
2045	A High-Performance Carbon for Supercapacitors Obtained by Carbonization of a Seaweed Biopolymer. 2006 , 18, 1877-1882	711
2044	Nanocrystalline TiN Derived by a Two-Step Halide Approach for Electrochemical Capacitors. 2006 , 153, A2298	143
2043	Ionic Transport in Pores in Activated Carbons for EDLCs. 2006 , 153, A1914	9
2042	Correlation of Electrochemical Properties and Pore Structure for Carbon Nanoarchitectures with Ultrathin, Conformal Poly(o-Methoxyaniline) Coatings. 2006 , 45, 1885-1889	
2041	Chapter 4 Surface chemistry of activated carbons and its characterization. 2006 , 159-229	101
2040	The Electrochemistry of Carbon Nanotubes. 2006 , 153, A1484	22

2039	Carbon nanofibers grown on activated carbon fiber fabrics as electrode of supercapacitors. 2007 , T129, 80-84	8
2038	Binary Complex Electrolytes Based on $\text{LiX}[\text{X}=\text{N}(\text{SO}_2\text{CF}_3)_2]_2[\text{CF}_3\text{SO}_3]_3[\text{ClO}_4]_4$ -Acetamide for Electric Double Layer Capacitors. 2007 , 154, A703	19
2037	Effect of Structural Morphology on Electrochemical Properties of Carbon Nanotubes Directly Grown on Ti Foil. 2007 , 10, K60	1
2036	Using a cut-paste method to prepare a carbon nanotube fur electrode. 2007 , 18, 195607	51
2035	Carbon nanotube based battery architecture. 2007 , 91, 144104	45
2034	Modified Carbon Cryogel-Ammonia Borane Nanocomposites for Hydrogen Storage. 2007 , 1042, 1	
2033	Electrochemical capacitance of MWCNT/polyaniline composite coatings grown in acidic MWCNT suspensions by microwave-assisted hydrothermal digestion. 2007 , 18, 385603	21
2032	Structural Feature and Double-Layer Capacitive Performance of Porous Carbon Powder Derived from Polyacrylonitrile-Based Carbon Fiber. 2007 , 154, A993	95
2031	Template Approaches to Preparing Porous Carbon. 2007 , 63-128	1
2030	On the porosity of polypyrrole films. 2007 , 157, 1085-1090	40
2029	Synthesis of transition metal-doped carbon xerogels by cogelation. 2007 , 353, 2333-2345	14
2028	Two-step activation of glass-like carbon spheres—An approach to high yield activation. 2007 , 22, 102-108	9
2027	Improved capacitance of SBA-15 templated mesoporous carbons after modification with nitric acid oxidation. 2007 , 22, 307-314	87
2026	Nanocrystalline Metal Oxides Dispersed Multiwalled Carbon Nanotubes as Supercapacitor Electrodes. 2007 , 111, 7727-7734	270
2025	Electrochemistry of Carbon Nanotubes. 2007 , 567-604	16
2024	Aligned MWCNT Sheet Electrodes Prepared by Transfer Methodology Providing High-Power Capacitor Performance. 2007 , 10, A106	142
2023	Polymer Grafting of Carbon Nanotubes Using Living Free-Radical Polymerization. 2007 , 47, 265-290	105
2022	Comparisons of different carbon conductive additives on the electrochemical performance of activated carbon. 2007 , 18, 205705	22

2021	Vertically Aligned Carbon Nanofibers Coupled with Organosilicon Electrolytes: Electrical Properties of a High-Stability Nanostructured Electrochemical Interface. 2007 , 19, 5734-5741	22
2020	Synthesis of Graphitic Carbon Nanostructures from Sawdust and Their Application as Electrocatalyst Supports. 2007 , 111, 9749-9756	120
2019	Supercapacitor Electrodes from Tubes-in-Tube Carbon Nanostructures. 2007 , 19, 6120-6125	108
2018	Interactions of Single Wall Carbon Nanotubes with Methyl Viologen Radicals. Quantitative Estimation of Stored Electrons. 2007 , 111, 9012-9015	41
2017	In Situ Mn K-edge X-ray Absorption Spectroscopy Studies of Electrodeposited Manganese Oxide Films for Electrochemical Capacitors. 2007 , 111, 749-758	168
2016	Enhanced charge-discharge characteristics of RuO ₂ supercapacitors on heat-treated TiO ₂ nanorods. 2007 , 90, 122106	39
2015	The Large Electrochemical Capacitance of Microporous Doped Carbon Obtained by Using a Zeolite Template. 2007 , 17, 1828-1836	462
2014	High Electroactivity of Polyaniline in Supercapacitors by Using a Hierarchically Porous Carbon Monolith as a Support. 2007 , 17, 3083-3087	389
2013	Self-Sustained Thin Webs Consisting of Porous Carbon Nanofibers for Supercapacitors via the Electrospinning of Polyacrylonitrile Solutions Containing Zinc Chloride. 2007 , 19, 2341-2346	352
2012	Recent advances in microdevices for electrochemical energy conversion and storage. 2007 , 31, 548-575	60
2011	Carbon allotropes: beyond graphite and diamond. 2007 , 82, 524-531	164
2010	Rheological determination of the sol-gel transition during the aqueous synthesis of resorcinol-formaldehyde resins. 2007 , 293, 224-228	35
2009	Nanocrystalline diamond/carbon felt as a novel composite for electrochemical storage energy in capacitor. 2007 , 438, 47-52	28
2008	Resorcinol-formaldehyde based porous carbon as an electrode material for supercapacitors. <i>Carbon</i> , 2007 , 45, 160-165	10.4 79
2007	Structure and electrochemical properties of resorcinol-formaldehyde polymer-based carbon for electric double-layer capacitors. <i>Carbon</i> , 2007 , 45, 1439-1445	10.4 35
2006	Nitrogen-containing carbon spheres with very large uniform mesopores: The superior electrode materials for EDLC in organic electrolyte. <i>Carbon</i> , 2007 , 45, 1757-1763	10.4 302
2005	Easy preparation of nitrogen-enriched carbon materials from peptides of silk fibroins and their use to produce a high volumetric energy density in supercapacitors. <i>Carbon</i> , 2007 , 45, 2116-2125	10.4 198
2004	Densification of ordered microporous carbons and controlling their micropore size by hot-pressing. <i>Carbon</i> , 2007 , 45, 2011-2016	10.4 43

2003	Synthesis of nanoporous carbon with pre-graphitic domains. <i>Carbon</i> , 2007 , 45, 2307-2310	10.4	38
2002	Low-temperature preparation and electrochemical capacitance of WC/carbon composites with high specific surface area. <i>Carbon</i> , 2007 , 45, 2759-2767	10.4	26
2001	Nitrogen enriched mesoporous carbon spheres obtained by a facile method and its application for electrochemical capacitor. 2007 , 9, 569-573		241
2000	Synthesis and electrochemical characterization of bis(3,4-ethylene-dioxythiophene)-(4,4'-dinyonyl-2,2'-bithiazole) comonomer. 2007 , 52, 2158-2165		21
1999	Capacitance response of carbons in solvent-free ionic liquid electrolytes. 2007 , 9, 1567-1572		110
1998	Characterization of pistachio shell-derived carbons activated by a combination of KOH and CO ₂ for electric double-layer capacitors. 2007 , 52, 2498-2505		87
1997	Effects of thermal treatment of activated carbon on the electrochemical behaviour in supercapacitors. 2007 , 52, 4969-4973		148
1996	Synthesis and characterization of mesoporous carbon through inexpensive mesoporous silica as template. 2007 , 98, 189-199		48
1995	Synthesis of silver nanoparticles on functional multi-walled carbon nanotubes. 2007 , 465, 283-286		30
1994	Evolution of microstructure and properties of phenolic fibers during carbonization. 2007 , 459, 347-354		46
1993	Anodic deposition of hydrous ruthenium oxide for supercapacitors. 2007 , 163, 1126-1131		71
1992	Highly ordered cobalt-manganese oxide (CMO) nanowire array thin film on Ti/Si substrate as an electrode for electrochemical capacitor. 2007 , 163, 1132-1136		54
1991	Electrodeposition of mesoporous manganese dioxide supercapacitor electrodes through self-assembled triblock copolymer templates. 2007 , 164, 953-958		125
1990	New composite electrodes made of polypyrrole and graphite: Construction, optimization and characterization. 2007 , 170, 441-449		15
1989	Electrode materials for ionic liquid-based supercapacitors. 2007 , 174, 648-652		60
1988	The electrochemical capacitance of nanoporous carbons in aqueous and ionic liquids. 2007 , 171, 1054-1061		48
1987	Synthesis and characterization of tin oxide/carbon aerogel composite electrodes for electrochemical supercapacitors. 2007 , 172, 451-459		89
1986	Synthesis of manganese oxide/carbon nanotube nanocomposites using wet chemical method. 2007 , 190, 402-405		19

1985	Modification of multi-walled carbon nanotubes for electric double-layer capacitors: Tube opening and surface functionalization. 2007 , 68, 2353-2362	56
1984	Synthesis, electrochemical characterization and impedance studies on novel thiophene-nonylbithiazole-thiophene comonomer. 2007 , 610, 113-121	30
1983	Influence of KOH followed by oxidation pretreatment on the electrochemical performance of phenolic based activated carbon fibers. 2007 , 611, 225-231	40
1982	Preparation and characteristics of electrospun activated carbon materials having meso- and macropores. 2007 , 314, 32-7	78
1981	Electrochemical capacitance of polypyrrole nanowire prepared by using cetyltrimethylammonium bromide (CTAB) as soft template. 2007 , 101, 367-371	112
1980	LiNi _{0.8} Co _{0.2} O ₂ /MWCNT composite electrodes for supercapacitors. 2007 , 105, 169-174	20
1979	Preparation and electrochemical properties of multiwalled carbon nanotubes/Bi ₂ O ₃ porous composite for supercapacitors. 2007 , 42, 1740-1747	41
1978	Synthesis of macro/mesoporous silica and carbon monoliths by using a commercial polyurethane foam as sacrificial template. 2007 , 61, 2378-2381	44
1977	Pore structure control of mesoporous carbon as supercapacitor material. 2007 , 61, 4639-4642	55
1976	Double layer capacitance of gas-diffusion electrodes made of acetylene black and expanded natural graphites and evaluation of the surface area wetted by the electrolyte. 2007 , 80, 1341-1345	3
1975	Carbon materials for supercapacitor application. 2007 , 9, 1774-85	1539
1974	Alignment and Micropatterning of Carbon Nanotubes in Polymer Composites Using Modulated Magnetic Field. 2007 , 39, 589-592	23
1973	Influence of electrode preparation on the electrochemical behaviour of carbon-based supercapacitors. 2007 , 37, 717-721	37
1972	RF oxygen plasma treatment of activated carbon electrodes for electrochemical capacitors. 2007 , 37, 813-817	17
1971	A comparison study of the capacitive behavior for sol-gel-derived and co-annealed ruthenium oxide composites. 2007 , 52, 2691-2700	51
1970	Performance of templated mesoporous carbons in supercapacitors. 2007 , 52, 3207-3215	106
1969	Polyaniline/porous carbon electrodes by chemical polymerisation: Effect of carbon surface chemistry. 2007 , 52, 4962-4968	53
1968	Novel fullerene-functionalised poly(terthiophenes). 2007 , 599, 79-84	13

1967	An investigation of Cu ²⁺ and Fe ²⁺ ions as active materials for electrochemical redox supercapacitors. 2007 , 611, 43-50	72
1966	Practical and theoretical limits for electrochemical double-layer capacitors. 2007 , 173, 822-828	159
1965	Textural and electrochemical characterization of porous carbon nanofibers as electrodes for supercapacitors. 2007 , 172, 460-467	73
1964	Solid state double layer capacitor based on a polyether polymer electrolyte blend and nanostructured carbon black electrode composites. 2008 , 177, 652-659	30
1963	Significantly enhanced charge conduction in electric double layer capacitors using carbon nanotube-grafted activated carbon electrodes. 2008 , 183, 406-410	52
1962	The porous structures of activated carbon aerogels and their effects on electrochemical performance. 2008 , 185, 589-594	93
1961	Hydrogen in thin Pd-based layers deposited on reticulated vitreous carbon: A new system for electrochemical capacitors. 2008 , 185, 1598-1604	26
1960	A competitive candidate material for aqueous supercapacitors: High surface-area graphite. 2008 , 185, 1557-1562	87
1959	Preparation of Ni-doped carbon nanospheres with different surface chemistry and controlled pore structure. 2008 , 254, 3993-4000	10
1958	Electric double layer capacitors with gelled polymer electrolytes based on poly(ethylene oxide) cured with poly(propylene oxide) diamines. 2008 , 53, 4505-4511	40
1957	Morphological reason for enhancement of electrochemical double layer capacitances of various acetylene blacks by electrochemical polarization. 2008 , 53, 5789-5795	9
1956	Submicron mesoporous carbon spheres by ultrasonic emulsification. 2008 , 15, 265-270	12
1955	The influence of carbon source on the wall structure of ordered mesoporous carbons. 2008 , 15, 601-611	53
1954	Enhanced electrochemical properties of polyaniline-coated multiwall carbon nanotubes. 2008 , 15, 647-651	5
1953	Effects of activation time on the electrochemical capacitance of activated carbon nanotubes. 2008 , 19, 241-245	
1952	Graphene-based electrochemical supercapacitors. 2008 , 120, 9-13	671
1951	Electrochemical performance of Co/Al layered double hydroxide nanosheets mixed with multiwall carbon nanotubes. 2008 , 12, 1129-1134	74
1950	Nanostructured NiO for electrochemical capacitors: synthesis and electrochemical properties. 2008 , 12, 1003-1009	104

1949	High-voltage aqueous symmetric electrochemical capacitor based on Ru _{0.7} Sn _{0.3} O ₂ in H ₂ O electrodes in 1 M KOH. 2008 , 12, 1645-1652	13
1948	Preparation and electrochemical performance of activated carbon thin films with polyethylene oxide-salt addition for electrochemical capacitor applications. 2008 , 12, 1349-1355	48
1947	Synthesis and characterization of a grapevine nanostructure consisting of single-walled carbon nanotubes with covalently attached [60]fullerene balls. 2008 , 14, 5981-7	22
1946	Electrocatalysis and determination of uracil on polythionine/multiwall carbon nanotubes modified electrode. 2008 , 107, 3173-3178	10
1945	3D aperiodic hierarchical porous graphitic carbon material for high-rate electrochemical capacitive energy storage. 2008 , 47, 373-6	1604
1944	New Class of Carbon-Nanotube Aerogel Electrodes for Electrochemical Power Sources. 2008 , 20, 815-819	151
1943	3D Aperiodic Hierarchical Porous Graphitic Carbon Material for High-Rate Electrochemical Capacitive Energy Storage. 2008 , 120, 379-382	441
1942	Effects of micropore development on the physicochemical properties of KOH-activated carbons. 2008 , 39, 37-47	49
1941	On the performance of supercapacitors with electrodes based on carbon nanotubes and carbon activated material: a review. 2008 , 40, 2596-2605	327
1940	Mesoporous carbon functionalized with ferrocenecarboxylic acid and its electrocatalytic properties. 2008 , 113, 114-121	25
1939	High-energy density graphite/AC capacitor in organic electrolyte. 2008 , 177, 643-651	367
1938	Anthraquinone modified carbon fabric supercapacitors with improved energy and power densities. 2008 , 181, 182-185	114
1937	Electrochemical and capacitive properties of thin-layer carbon black electrodes. 2008 , 181, 186-192	37
1936	Influence of high temperature treatment of porous carbon on the electrochemical performance in supercapacitor. 2008 , 184, 675-681	40
1935	Hierarchical porous nickel oxide and carbon as electrode materials for asymmetric supercapacitor. 2008 , 185, 1563-1568	398
1934	Exfoliated graphite/ruthenium oxide composite electrodes for electrochemical supercapacitors. 2008 , 185, 1544-1549	43
1933	Preparation and electrochemical characterization of cobalt-manganese oxide as electrode materials for electrochemical capacitors. 2008 , 69, 1733-1739	15
1932	Cationic starch as a precursor to prepare porous activated carbon for application in supercapacitor electrodes. 2008 , 69, 2420-2425	29

1931	Effect of the thermal treatment of carbon-based electrodes on the electrochemical performance of supercapacitors. 2008 , 618, 17-23		20
1930	Fabrication of nickel oxide-embedded titania nanotube array for redox capacitance application. 2008 , 53, 3643-3649		86
1929	Preparation and electrochemical properties of pitch-based activated carbon aerogels. 2008 , 53, 5711-5715		33
1928	EDLC performance of carbide-derived carbons in aprotic and acidic electrolytes. 2008 , 53, 7111-7116		66
1927	Enhanced life-cycle supercapacitors by thermal treatment of mesophase-derived activated carbons. 2008 , 54, 305-310		49
1926	Development of mesoporosity during phosphoric acid activation of wood in steam atmosphere. 2008 , 99, 7208-14		39
1925	Effect of surface chemistry on electrochemical storage of hydrogen in porous carbon materials. <i>Carbon</i> , 2008 , 46, 1053-1059	10.4	75
1924	Chemical state of nitrogen in carbon aerogels issued from phenol/helamine/formaldehyde gels. <i>Carbon</i> , 2008 , 46, 1259-1262	10.4	63
1923	Preparation of microporous carbon films from fluorinated aromatic polyimides. <i>Carbon</i> , 2008 , 46, 1350-1357	10.4	37
1922	Hierarchical porous carbons with controlled micropores and mesopores for supercapacitor electrode materials. <i>Carbon</i> , 2008 , 46, 1718-1726	10.4	517
1921	An experimental and quantum mechanical study on electrochemical properties of N-substituted pyrroles. 2008 , 857, 95-104		9
1920	Pyroelectric temperature sensitization of multi-wall carbon nanotube papers. <i>Carbon</i> , 2008 , 46, 1262-1265	10.4	6
1919	Enhanced electrochemical capacitance of nitrogen-doped carbon gels synthesized by microwave-assisted polymerization of resorcinol and formaldehyde. 2008 , 10, 1105-1108		36
1918	Nanoporous carbon electrode from waste coffee beans for high performance supercapacitors. 2008 , 10, 1594-1597		373
1917	Electrodeposition of MnO ₂ nanowires on carbon nanotube paper as free-standing, flexible electrode for supercapacitors. 2008 , 10, 1724-1727		387
1916	Anodic deposition of hydrous ruthenium oxide for supercapacitors: Effects of the AcO ⁺ concentration, plating temperature, and oxide loading. 2008 , 53, 2679-2687		20
1915	Improved capacitance characteristics during electrochemical charging of carbon nanotubes modified with polyoxometallate monolayers. 2008 , 53, 3862-3869		66
1914	Liquid-phase synthesized mesoporous electrochemical supercapacitors of nickel hydroxide. 2008 , 53, 5016-5021		51

1913	Electrochemical properties of electrospun PAN/MWCNT carbon nanofibers electrodes coated with polypyrrole. 2008 , 53, 5796-5803	131
1912	Competitive effect of KOH activation on the electrochemical performances of carbon nanotubes for EDLC: Balance between porosity and conductivity. 2008 , 53, 7730-7735	112
1911	Dry modification of electrode materials by roller vibration milling at room temperature. 2008 , 6, 383-388	2
1910	Manganese oxide based materials for supercapacitors. 2008 , 3, 186-200	110
1909	Synthesis and Electrochemical Property of Boron-Doped Mesoporous Carbon in Supercapacitor. 2008 , 20, 7195-7200	451
1908	5,5-Bis(methylthio)-2,2-bithiophene: A Potential Cathode Electroactive Material for Energy Storage Devices. 2008 , 112, 3989-3997	32
1907	Investigations on carbonization processes of plain tobacco stems and H ₃ PO ₄ -impregnated tobacco stems used for the preparation of activated carbons with H ₃ PO ₄ activation. 2008 , 28, 73-80	26
1906	Silicon-doped carbon semiconductor from rice husk char. 2008 , 109, 169-173	23
1905	INTERACTION OF THE DIOXYGEN MOLECULE WITH THE C ₉₆ H ₂₄ POLYAROMATIC HYDROCARBON CLUSTER: A QUANTUM CHEMICAL INSIGHT. 2008 , 22, 2115-2127	3
1904	Surface Chemistry of Carbon Materials. 2008 , 45-92	17
1903	Synthesis of hybrid nanowire arrays and their application as high power supercapacitor electrodes. 2008 , 2373-5	168
1902	Batteries and electrochemical capacitors. 2008 , 61, 43-47	157
1901	Physicochemical Properties of Carbon Materials: A Brief Overview. 2008 , 1-44	8
1900	Porous conducting polymer/heteropolyoxometalate hybrid material for electrochemical supercapacitor applications. 2008 , 24, 1064-9	100
1899	ABTS-modified multiwalled carbon nanotubes as an effective mediating system for bioelectrocatalytic reduction of oxygen. 2008 , 80, 7643-8	61
1898	Carbon Nanotubes. 2008 ,	532
1897	Electrochemical Energy Storage. 2008 , 593-629	2
1896	Molecular-sieving capabilities of mesoporous carbon membranes. 2008 , 112, 8563-70	27

1895	Well-Aligned Cone-Shaped Nanostructure of Polypyrrole/RuO ₂ and Its Electrochemical Supercapacitor. 2008 , 112, 14843-14847	215
1894	Evolution of mechanical properties and final textural properties of resorcinol/formaldehyde xerogels during ambient air drying. 2008 , 354, 831-838	34
1893	Electrochemical properties of conductive filler/carbon aerogel composites as electrodes of supercapacitors. 2008 , 354, 4567-4571	14
1892	Comparison Between Electrochemical Properties of Aligned Carbon Nanotube Array and Entangled Carbon Nanotube Electrodes. 2008 , 155, K19	141
1891	Supercapacitance of Solid Carbon Nanofibers Made from Ethanol Flames. 2008 , 112, 3612-3618	74
1890	Dependence of electric double layer capacitance of activated carbons on the types of pores and their surface areas. 2008 , 23, 111-115	64
1889	Activated carbon coated with polyaniline as an electrode material in supercapacitors. 2008 , 23, 275-280	71
1888	Impedance characteristics of the diamond/carbon fiber electrodes for electrical double-layer capacitor. 2008 , 17, 1529-1533	32
1887	Preparation of three dimensionally ordered macroporous carbon with mesoporous walls for electric double-layer capacitors. 2008 , 18, 1674	139
1886	Graphitic carbon nanostructures via a facile microwave-induced solid-state process. 2008 , 2765-7	27
1885	Electrochemical Deposition of Porous Co(OH) ₂ Nanoflake Films on Stainless Steel Mesh for Flexible Supercapacitors. 2008 , 155, A926	58
1884	Electrochemical Activation of Expanded Graphite Electrode for Electrochemical Capacitor. 2008 , 155, A685	51
1883	Performance of Asymmetric Electric Double Layer Capacitors [Predominant Contribution of the Negative Electrode. 2008 , 26, 491-500	11
1882	Capacitive Behavior of Porous Nickel Oxide/Hydroxide Electrodes with Interconnected Nanoflakes Synthesized by Anodic Electrodeposition. 2008 , 155, A798	79
1881	Covalent Grafting of Ferrocene to Vertically Aligned Carbon Nanofibers: Electron-transfer Processes at Nanostructured Electrodes. 2008 , 112, 16910-16918	28
1880	Gelatin Hydrogel Electrolytes and Their Application to Electrochemical Supercapacitors. 2008 , 155, A74	47
1879	Electrosorption selectivity of ions from mixtures of electrolytes inside nanopores. 2008 , 129, 224703	53
1878	Influence of Carbon Nanotube Grafting on the Impedance Behavior of Activated Carbon Capacitors. 2008 , 155, A739	93

1877	Nanostructured manganese oxides and their composites with carbon nanotubes as electrode materials for energy storage devices. 2008 , 80, 2327-2343	29
1876	High-Voltage Asymmetric Electrochemical Capacitor Based on Polyfluorene Nanocomposite and Activated Carbon. 2008 , 155, A970	26
1875	Incorporating Ionic Liquid Electrolytes into Polymer Gels for Solid-State Ultracapacitors. 2008 , 155, A361	104
1874	Charge Storage Mechanism of Binderless Nanocomposite Electrodes Formed by Dispersion of CNTs and Carbon Aerogels. 2008 , 155, A115	12
1873	Calibration method for a carbon nanotube field-effect transistor biosensor. 2008 , 19, 045505	29
1872	Single-Walled Carbon Nanotubes Ionic Polymer Electroactive Hybrid Transducers. 2008 , 19, 905-915	48
1871	Potential dependence of electrochemical impedance of nanoscale modified carbon fibre surface. 2008 , 24, 358-365	7
1870	Some Effects of Textural Properties of Carbon Fibers from Phenolic Resins on Double-Layer Capacitance in Aprotic Electrolyte. 2008 , 155, F124	2
1869	Monte Carlo simulation of electrical double-layer formation from mixtures of electrolytes inside nanopores. 2008 , 128, 044705	31
1868	Multiple radial corrugations in multiwalled carbon nanotubes under pressure. 2008 , 19, 495705	30
1867	Substrate morphology induced self-organization into carbon nanotube arrays, ropes, and agglomerates. 2008 , 19, 435602	12
1866	Synthesis and Electrochemical Characterization of Mesoporous Carbons Prepared by Chemical Activation. 2008 , 155, A475	12
1865	Electrode Properties of Mn ₂ O ₃ Nanospheres Synthesized by Combined Sonochemical/Solvothermal Method for Use in Electrochemical Capacitors. 2008 , 2008, 1-8	34
1864	Glass-Like Carbon Spheres Activation, Porosity and Application Possibilities. 2008 , 26, 735-787	16
1863	Direct Deposition of Bamboo-Like Carbon Nanotubes on Copper Substrates by Sulfur-Assisted HFCVD. 2008 , 2008, 1-7	11
1862	Developing of Carbon Based Materials Wettability as Supercapacitors Electrodes. 2009 ,	
1861	Synthesis of Polypyrrole-Intercalated Layered Manganese Oxide Nanocomposite by a Delamination-Reassembling Method and Its Electrochemical Capacitance Performance. 2009 , 12, A95	35
1860	Electrochemical Double Layer Capacitance in Activated Carbon: Ion Size Effects. 2009 , 25, 163-171	4

1859	Synthesis of Conducting Composite of Polyaniline and Multi Wall Carbon Nanotube Grafted with Sulfonated Polystyrene. 2009 , 510, 51/[1185]-59/[1193]	2
1858	HIERARCHICAL POROUS MATERIALS: CAPILLARIES IN NANOPOROUS CARBON. 2009 , 02, 135-138	22
1857	Electrochemical impedance spectroscopy of poly[carbazole-co-N-p-tolylsulfonyl pyrrole] on carbon fiber microelectrodes, equivalent circuits for modelling. 2009 , 65, 281-287	40
1856	Preparation of nano-TiO ₂ /activated carbon composite and its electrochemical characteristics in non-aqueous electrolyte. 2009 , 113, 962-966	23
1855	Electrochemical characterization of supercapacitors based on carbons derived from coffee shells. 2009 , 115, 33-39	87
1854	High-performance carbon-based supercapacitors using Al current-collector with conformal carbon coating. 2009 , 117, 294-300	50
1853	Facile synthesis of MnO ₂ nanostructures for supercapacitors. 2009 , 44, 2062-2067	61
1852	Tuning Carbon Materials for Supercapacitors by Direct Pyrolysis of Seaweeds. 2009 , 19, 1032-1039	502
1851	Nitrogen-Enriched Nonporous Carbon Electrodes with Extraordinary Supercapacitance. 2009 , 19, 1800-1809	664
1850	Synthesis of a Graphite-Polyaniline Nanocomposite and Evaluation of Its Electrochemical Properties. 2009 , 32, 861-866	15
1849	Investigation of the ion storage/transfer behavior in an electrical double-layer capacitor by using ordered microporous carbons as model materials. 2009 , 15, 5355-63	133
1848	Influence of Surface Chemistry on Dehydrogenation in Carbon Cryogel Ammonia Borane Nanocomposites. 2009 , 2009, 599-603	24
1847	Preparation and comparison of two electrodes for supercapacitors: Pani/CNT/Ni and Pani/Alizarin-treated nickel. 2009 , 113, 1070-1081	23
1846	Humic acid/polypyrrole on a paraffin-impregnated graphite electrode and its use in arsenic extraction. 2009 , 113, 3619-3629	7
1845	LiClO ₄ -doped plasticized chitosan as biodegradable polymer gel electrolyte for supercapacitors. 2009 , 114, 2445-2454	27
1844	Nickel oxide coated on ultrasonically pretreated carbon nanotubes for supercapacitor. 2009 , 13, 1251-1257	54
1843	Quantitative assessment of hysteresis in voltammetric curves of electrochemical capacitors. 2009 , 15, 172-180	9
1842	Evaluating the potential of CNT-supported Co catalyst used for gas pollution removal in the incineration flue gas. 2009 , 90, 1884-92	13

1841	Analysis of the dynamic behavior changes of supercapacitors during calendar life test under several voltages and temperatures conditions. 2009 , 49, 1391-1397	12
1840	Electrochemical storage of polypyrrole/Fe ₂ O ₃ nanocomposites in ionic liquids. 2009 , 54, 2992-2997	42
1839	RVC as new carbon material for batteries. 2009 , 39, 559-567	20
1838	Capacitive behavior of polycarbazole- and poly(N-vinylcarbazole)-coated carbon fiber microelectrodes in various solutions. 2009 , 39, 2043-2048	35
1837	A novel spherical carbon. 2009 , 44, 221-226	21
1836	The control of porosity at nano scale in resorcinol formaldehyde carbon aerogels. 2009 , 44, 2705-2713	50
1835	Preparation of spherical activated carbon with hierarchical porous texture. 2009 , 44, 4750-4753	11
1834	Fibrous chitosan-carbon materials. 2009 , 41, 128-132	3
1833	Electron rich porous carbon/silica matrix from rice husk and its characterization. 2009 , 16, 239-245	15
1832	Studies on the performances of silica aerogel electrodes for the application of supercapacitor. 2009 , 15, 561-565	13
1831	Polymeric nanomaterials as electrolyte and electrodes in supercapacitors. 2009 , 2, 733-739	27
1830	Process intensification by CO ₂ for high quality carbon nanotube forest growth: Double-walled carbon nanotube convexity or single-walled carbon nanotube bowls?. 2009 , 2, 872-881	43
1829	Enhanced electrical capacitance of porous carbons by nitrogen enrichment and control of the pore structure. 2009 , 118, 28-34	70
1828	Manganese oxide/carbon composite as supercapacitor electrode materials. 2009 , 123, 260-267	139
1827	Striking capacitance of carbon/iodide interface. 2009 , 11, 87-90	211
1826	Influence of microstructure on the capacitive performance of polyaniline/carbon nanotube array composite electrodes. 2009 , 54, 1153-1159	143
1825	High-capacitance carbon electrode prepared by PVDC carbonization for aqueous EDLCs. 2009 , 54, 2185-2189	62
1824	LiPF ₆ based ethylene carbonate/dimethyl carbonate electrolyte for high power density electrical double layer capacitor. 2009 , 54, 4587-4594	55

1823	A novel EDOT- <i>o</i> -nylbithiazole-EDOT based comonomer as an active electrode material for supercapacitor applications. 2009 , 54, 6354-6360		35
1822	Electric double layer capacitors with polymer hydrogel electrolyte based on poly(acrylamide) and modified electrode and separator materials. 2009 , 54, 7396-7400		11
1821	Preparation, electrochemical characterization and charge/discharge of reticulated vitreous carbon/polyaniline composite electrodes. 2009 , 55, 227-233		15
1820	Water desorption from resorcinol-formaldehyde hydrogels and adsorption in the resulting xerogels. 2009 , 117, 61-66		6
1819	Radio frequency oxygen plasma treatment of carbon nanotube electrodes for electrochemical capacitors. 2009 , 188, 332-337		20
1818	Influence of the mesoporous structure on capacitance of the RuO ₂ electrode. 2009 , 189, 1284-1291		36
1817	High performance electrochemical capacitors from aligned carbon nanotube electrodes and ionic liquid electrolytes. 2009 , 189, 1270-1277		307
1816	Theoretical and experimental specific capacitance of polyaniline in sulfuric acid. 2009 , 190, 578-586		448
1815	Synthesis and characterization of mesoporous carbon thin films from phloroglucinol/surfactant self-assembly. 2009 , 347, 142-145		7
1814	Supercapacitor application of nickel oxide/titania nanocomposites. 2009 , 69, 2108-2114		85
1813	Catalytic treating of gas pollutants over cobalt catalyst supported on porous carbons derived from rice husk and carbon nanotube. 2009 , 90, 652-661		19
1812	Removal of naphthalene from petrochemical wastewater streams using carbon nanoporous adsorbent. 2009 , 255, 5041-5047		59
1811	Saturation of subnanometer pores in an electric double-layer capacitor. 2009 , 11, 554-556		95
1810	An activated carbon monolith as an electrode material for supercapacitors. <i>Carbon</i> , 2009 , 47, 195-200	10.4	140
1809	Effects of oxidation and heat treatment of acetylene blacks on their electrochemical double layer capacitances. <i>Carbon</i> , 2009 , 47, 226-233	10.4	12
1808	Thermoelectric power generation using doped MWCNTs. <i>Carbon</i> , 2009 , 47, 589-601	10.4	56
1807	Temperature effect on the formation of catalysts for growth of carbon nanofibers. <i>Carbon</i> , 2009 , 47, 795-803	10.4	35
1806	Electrochemical characterization of multi-walled carbon nanotube coated electrodes for biological applications. <i>Carbon</i> , 2009 , 47, 884-893	10.4	44

1805	Nanographite structures formed during annealing of disordered carbon containing finely-dispersed carbon nanocapsules with iron carbide cores. <i>Carbon</i> , 2009 , 47, 1056-1065	10.4	48
1804	Enhanced electrochemical and structural properties of carbon cryogels by surface chemistry alteration with boron and nitrogen. <i>Carbon</i> , 2009 , 47, 1436-1443	10.4	59
1803	Preparation of nitrogen-doped mesoporous carbon nanopipes for the electrochemical double layer capacitor. <i>Carbon</i> , 2009 , 47, 1407-1411	10.4	79
1802	Hierarchical porous carbons with high performance for supercapacitor electrodes. <i>Carbon</i> , 2009 , 47, 1715-1722	10.4	77
1801	High power supercapacitors using polyacrylonitrile-based carbon nanofiber paper. <i>Carbon</i> , 2009 , 47, 2984-2992	10.4	310
1800	Polarization-induced distortion of ions in the pores of carbon electrodes for electrochemical capacitors. <i>Carbon</i> , 2009 , 47, 3158-3166	10.4	64
1799	Enhancement mechanism of electrochemical capacitance in nitrogen-/boron-doped carbons with uniform straight nanochannels. 2009 , 25, 11961-8		177
1798	Unique Hydrogen-Bonded Structure of Water around Ca Ions Confined in Carbon Slit Pores. 2009 , 113, 12622-12624		22
1797	Covalent Grafting of Redox-Active Molecules to Vertically Aligned Carbon Nanofiber Arrays via Click Chemistry. 2009 , 21, 724-730		46
1796	Electrical properties of multiwalled carbon nanotubes / polyaniline nanocomposite. 2009 ,		2
1795	Electrochemical investigations of self-doped polyaniline nanofibers as a new electroactive material for high performance redox supercapacitor. 2009 , 159, 1717-1722		90
1794	Polyphosphate based electrochemical capacitors. 2009 , 159, 2309-2311		1
1793	Facile flame synthesis and electrochemical properties of carbon nanocoils. 2009 , 473, 351-355		27
1792	Effect of Pt nanostructures on the electrochemical properties of Co ₃ O ₄ electrodes for micro-electrochemical capacitors. 2009 , 478, L8-L11		12
1791	A simple approach towards one-dimensional mesoporous carbon with superior electrochemical capacitive activity. 2009 , 809-11		61
1790	Conducting polymer nanomaterials: electrosynthesis and applications. 2009 , 38, 2397-409		554
1789	Effect of temperature on the capacitance of carbon nanotube supercapacitors. 2009 , 3, 2199-206		343
1788	Preparation and Selected Properties of an Improved Composite of the Electrophoretically Deposited Single-Wall Carbon Nanotubes, Electrochemically Coated with a C ₆₀ -Pd and Polybithiophene Mixed Polymer Film. 2009 , 113, 14046-14058		12

1787	Confinement of Symmetric Tetraalkylammonium Ions in Nanoporous Carbon Electrodes of Electric Double-Layer Capacitors. 2009 , 113, 13443-13449	45
1786	Templated nanocrystal-based porous TiO(2) films for next-generation electrochemical capacitors. 2009 , 131, 1802-9	713
1785	Highly stable performance of supercapacitors from phosphorus-enriched carbons. 2009 , 131, 5026-7	514
1784	Catalytic Surfaces for Electroanalysis. 2009 ,	
1783	Carbon nanotube arrays and their composites for electrochemical capacitors and lithium-ion batteries. 2009 , 2, 932	224
1782	Mesoporous Carbon Nanofibers for Supercapacitor Application. 2009 , 113, 1093-1097	174
1781	Hydrogel-polymer electrolytes for electrochemical capacitors: an overview. 2009 , 2, 55-67	301
1780	Layer-by-layer assembly of all carbon nanotube ultrathin films for electrochemical applications. 2009 , 131, 671-9	557
1779	Pt/Carbon Catalyst Layer Microstructural Effects on Measured and Predicted Tafel Slopes for the Oxygen Reduction Reaction. 2009 , 113, 10103-10111	55
1778	Synthesis of Carbon/Carbon Core/Shell Nanotubes with a High Specific Surface Area. 2009 , 113, 61-68	36
1777	The Rate-Determining Step of Electroadsorption Processes into Nanoporous Carbon Electrodes Related to Water Desalination. 2009 , 113, 21319-21327	69
1776	Calculated properties of fully hydrogenated single layers of BN, BC ₂ N, and graphene: Graphane and its BN-containing analogues. 2009 , 80,	51
1775	Ordered Hierarchical Nanostructured Carbon as a Highly Efficient Cathode Catalyst Support in Proton Exchange Membrane Fuel Cell. 2009 , 21, 789-796	198
1774	Direct Redox Deposition of Manganese Oxide on Multiscaled Carbon Nanotube/Microfiber Carbon Electrode for Electrochemical Capacitor. 2009 , 156, A378	86
1773	Growth of carbon nanofibers synthesized from CO ₂ hydrogenation on a K/Ni/Al ₂ O ₃ catalyst. 2009 , 11, 220-224	11
1772	One-step synthesis of graphene/SnO ₂ nanocomposites and its application in electrochemical supercapacitors. 2009 , 20, 455602	360
1771	Phosphonium-Based Ionic Liquids: An Overview. 2009 , 62, 309	384
1770	Regulation of pore size distribution in coal-based activated carbon. 2009 , 24, 141-146	46

1769	Pores in carbon materials-importance of their control. 2009 , 24, 193-232	107
1768	CAPACITORS Electrochemical Double-Layer Capacitors: Carbon Materials. 2009 , 634-648	4
1767	Electrochemistry, Nanomaterials, and Nanostructures. 2009 , 81-149	3
1766	Supercapacitors based on hybrid carbon nanofibers containing multiwalled carbon nanotubes. 2009 , 19, 2810	164
1765	Investigation of redox reaction of Ru on carbon nanotubes by pulse potential electrochemical deposition. 2009 , 18, 337-340	5
1764	Electrochemical Study on Aqueous Magnesium Nitrate Electrolyte System for EDLC Applications. 2009 , 77, 51-55	15
1763	Effect of Carbon Source on the Textural and Electrochemical Properties of Novel Cage-type Mesoporous Carbon as a Replica of KIT-5 Mesoporous Silica. 2009 , 38, 918-919	12
1762	Nanomaterials in Energy Storage Systems. 2009 , 519-535	2
1761	Contributions of micropores and mesopores in electrode carbon to electric double layer capacitance. 2009 , 2009, 230-238	11
1760	Electrical Double-Layer Capacitors and Pseudocapacitors. 2009 , 329-375	10
1759	Novel fabrication technology for three-dimensional high surface area pyrolyzed structures. 2010 ,	2
1758	Carbon/Layered Double Hydroxide (LDH) Composites for Supercapacitor Application 2010 , 24, 3346-3351	100
1757	Cellulose composites prepared using ionic liquids (ILs) - Blood Compatibility to Batteries. 2010 , 133-152	5
1756	Preparation of functionalized graphene sheets by a low-temperature thermal exfoliation approach and their electrochemical supercapacitive behaviors. 2010 , 55, 3897-3903	242
1755	High-capacitance supercapacitors using nitrogen-decorated porous carbon derived from novolac resin containing peptide linkage. 2010 , 55, 5624-5628	18
1754	Preparation of carbon aerogel in ambient conditions for electrical double-layer capacitor. 2010 , 10, 682-686	111
1753	Preparation and electrochemical properties of mesoporous Co ₃ O ₄ crater-like microspheres as supercapacitor electrode materials. 2010 , 10, 1422-1426	96
1752	Preparation and characterization of porous carbon material-coated solid-phase microextraction metal fibers. 2010 , 1217, 7848-54	56

1751	New design of electric double layer capacitors with aqueous LiOH electrolyte as alternative to capacitor with KOH solution. 2010 , 195, 2564-2569	17
1750	Enhanced lithium-ion intercalation properties of coherent hydrous vanadium pentoxide/carbon cryogel nanocomposites. 2010 , 195, 3893-3899	28
1749	Grafting effect on the wetting and electrochemical performance of carbon cloth electrode and polypropylene separator in electric double layer capacitor. 2010 , 195, 5130-5137	37
1748	Preparation of porous doped carbons and the high performance in electrochemical capacitors. 2010 , 131, 89-96	77
1747	Bioinspired peptide nanotubes: Deposition technology and physical properties. 2010 , 169, 62-66	19
1746	Ru oxide/carbon fabric composites for supercapacitors. 2010 , 14, 231-240	18
1745	Inkjet printing of single-walled carbon nanotube/RuO ₂ nanowire supercapacitors on cloth fabrics and flexible substrates. 2010 , 3, 594-603	358
1744	Carbon nanotubes for supercapacitor. 2010 , 5, 654-68	515
1743	Electrodeposited platinum catalysts over hierarchical carbon monolithic support. 2010 , 40, 257-263	28
1742	Reverse electrodialysis: evaluation of suitable electrode systems. 2010 , 40, 1461-1474	175
1741	Usefulness of a composite electrode with a carbon surface modified by electrosynthesized polypyrrole for supercapacitor applications. 2010 , 40, 1925-1931	16
1740	Bioinspired peptide nanotubes as supercapacitor electrodes. 2010 , 45, 6374-6378	49
1739	Development of Microporosity in Mesoporous Carbons. 2010 , 53, 283-290	16
1738	Morphological and impedance studies on electropolymerized 3,4-(2,2-dibenzylpropylenedioxy)thiophene nanostructures on micron sized single carbon fiber. 2010 , 69, 527-533	13
1737	Synthesis of carbon nanofibers/mica hybrids for antistatic coatings. 2010 , 64, 711-714	11
1736	Porous carbons prepared from deoiled asphalt and their electrochemical properties for supercapacitors. 2010 , 64, 1868-1870	34
1735	Influence of the pitch fluoride on the electrical conductivity of the activated carbon cloth as electrodes of the supercapacitor. 2010 , 64, 2673-2675	20
1734	A review on electrochemical double-layer capacitors. 2010 , 51, 2901-2912	738

1733	Capacitance Evolution of Electrochemical Capacitors with Tailored Nanoporous Electrodes in Pure and Dissolved Ionic Liquids. 2010 , 10, 834-839	14
1732	Pseudocapacitance Effects for Enhancement of Capacitor Performance. 2010 , 10, 848-855	25
1731	High Power Density Electric Double Layer Capacitor with Improved Activated Carbon. 2010 , 21, 101-104	
1730	Nanostructured carbon and carbon nanocomposites for electrochemical energy storage applications. 2010 , 3, 136-68	563
1729	Synthesis and Electrical Capacitance of Carbon Nanoplates. 2010 , 2010, 4314-4320	10
1728	Understanding the Physicoelectrochemical Properties of Carbon Nanotubes: Current State of the Art. 2010 , 22, 7-19	63
1727	Detonation Nanodiamond and Onion-Like-Carbon-Embedded Polyaniline for Supercapacitors. 2010 , 20, 3979-3986	208
1726	Anchoring Hydrus RuO ₂ on Graphene Sheets for High-Performance Electrochemical Capacitors. 2010 , 20, 3595-3602	1033
1725	Effect of the Ionic Conductivity on the Performance of Polyelectrolyte-Based Supercapacitors. 2010 , 20, 4344-4350	66
1724	Advanced materials for energy storage. 2010 , 22, E28-62	3687
1723	Nitrogen-containing hydrothermal carbons with superior performance in supercapacitors. 2010 , 22, 5202-6	789
1722	Electrochemomechanical Devices: Artificial Muscles. 2010 , 241-272	1
1721	Microstructure and electrochemical double-layer capacitance of carbon electrodes prepared by zinc chloride activation of sugar cane bagasse. 2010 , 195, 912-918	396
1720	Polymer/graphite oxide composites as high-performance materials for electric double layer capacitors. 2010 , 195, 2414-2418	35
1719	Asymmetric capacitor based on superior porous Ni ₂ NiO ₂ oxide/hydroxide and carbon electrodes. 2010 , 195, 3017-3024	111
1718	Synergistic enhancement of supercapacitance upon integration of nickel (II) octa [(3,5-biscarboxylate)-phenoxy] phthalocyanine with SWCNT-phenylamine. 2010 , 195, 3841-3848	38
1717	A new type of high energy asymmetric capacitor with nanoporous carbon electrodes in aqueous electrolyte. 2010 , 195, 4234-4241	186
1716	Sol-gel processed thin-layer ruthenium oxide/carbon black supercapacitors: A revelation of the energy storage issues. 2010 , 195, 3969-3976	16

1715	Evaluation on carbon nanocapsules for supercapacitors using a titanium cavity electrode. 2010 , 195, 5122-5129	13
1714	In situ synthesis of N and Cu functionalized mesoporous FDU-14 resins and carbons for electrochemical hydrogen storage. 2010 , 35, 7530-7538	3
1713	Enhanced electrochemical hydrogen storage capacity of activated mesoporous carbon materials containing nickel inclusions. 2010 , 35, 12410-12420	19
1712	Hierarchical porous carbon obtained using the template of NaOH-treated zeolite and its high performance as supercapacitor. 2010 , 133, 106-114	39
1711	Novel polybenzoxazine-based carbon aerogel electrode for supercapacitors. 2010 , 167, 36-42	42
1710	Effect of annealing temperature on electrochemical characteristics of ruthenium oxide/multi-walled carbon nanotube composites. 2010 , 167, 65-69	20
1709	Preparation of capacitor's electrode from cassava peel waste. 2010 , 101, 3534-40	183
1708	Polyfluorinated boron cluster [B ₁₂ F ₁₁ H] ₂ based electrolytes for supercapacitors: Overcharge protection. 2010 , 12, 636-639	15
1707	Constructing a hierarchical graphene-carbon nanotube architecture for enhancing exposure of graphene and electrochemical activity of Pt nanoclusters. 2010 , 12, 1206-1209	73
1706	Varying carbon structures templated from KIT-6 for optimum electrochemical capacitance. 2010 , 55, 2817-2823	19
1705	A highly efficient synthesis approach of supported Pt-Ru catalyst for direct methanol fuel cell. 2010 , 55, 4543-4550	51
1704	Planar ultracapacitors of miniature interdigital electrode loaded with hydrous RuO ₂ and RuO ₂ nanorods. 2010 , 55, 5768-5774	56
1703	Preparation and electrochemical performance of polyaniline-based carbon nanotubes as electrode material for supercapacitor. 2010 , 55, 7021-7027	221
1702	Crystalline diamond/graphite nanoflake hybrid films. 2010 , 519, 625-629	6
1701	In situ polymerization and characterizations of polyaniline on MWCNT powders and aligned MWCNT films. 2010 , 150, 71-76	38
1700	Problems and perspectives in nanostructured carbon-based electrodes for clean and sustainable energy. 2010 , 150, 151-162	65
1699	Sorption properties of active carbons obtained from walnut shells by chemical and physical activation. 2010 , 150, 107-114	83
1698	Characterization of monolithic porous carbon prepared from resorcinol/formaldehyde gels with cationic surfactant. 2010 , 358, 13-20	34

1697	Effect of nanosize titanium oxide on electrochemical characteristics of activated carbon electrodes. 2010 , 10, 391-394		26
1696	Preparation and characterization of metal-doped carbon aerogel for supercapacitor. 2010 , 10, 947-951		46
1695	Physical, electrochemical and supercapacitive properties of activated carbon pellets from pre-carbonized rubber wood sawdust by CO ₂ activation. 2010 , 10, 1071-1075		63
1694	Bimodal, templated mesoporous carbons for capacitor applications. <i>Carbon</i> , 2010 , 48, 1056-1063	10.4	51
1693	Effect of activation time on the properties of activated carbons prepared by microwave-assisted activation for electric double layer capacitors. <i>Carbon</i> , 2010 , 48, 1662-1669	10.4	114
1692	A review of the control of pore structure in MgO-templated nanoporous carbons. <i>Carbon</i> , 2010 , 48, 2690-2707	10.4	210
1691	Spectroscopic and electrochemical study of hybrids containing conductive polymers and carbon nanotubes. <i>Carbon</i> , 2010 , 48, 2773-2781	10.4	15
1690	Nitrogen doped carbon nanotubes and their impact on the oxygen reduction reaction in fuel cells. <i>Carbon</i> , 2010 , 48, 3057-3065	10.4	323
1689	Fast and reversible surface redox reaction of graphene/MnO ₂ composites as supercapacitor electrodes. <i>Carbon</i> , 2010 , 48, 3825-3833	10.4	1169
1688	Structure and electrochemical capacitance of carbon cryogels derived from phenol-formaldehyde resins. <i>Carbon</i> , 2010 , 48, 3874-3883	10.4	51
1687	Synthesis of graphene oxide-intercalated hydroxides by metathesis and their decomposition to graphene/metal oxide composites. <i>Carbon</i> , 2010 , 48, 4343-4350	10.4	35
1686	High voltage supercapacitor built with seaweed carbons in neutral aqueous electrolyte. <i>Carbon</i> , 2010 , 48, 4351-4361	10.4	422
1685	Pseudo-capacitance of nanoporous carbons in pyrrolidinium-based protic ionic liquids. 2010 , 12, 414-417		61
1684	Development of new nanocomposite based on nanosized-manganese oxide and carbon nanotubes for high performance electrochemical capacitors. 2010 , 55, 3428-3433		64
1683	Adsorption of K ⁺ from an aqueous phase onto an activated carbon used as an electric double-layer capacitor electrode. 2010 , 20, 551-556		3
1682	Atomistic simulation of the interaction of an electrolyte with graphite nanostructures in perspective supercapacitors. 2010 , 48, 837-845		10
1681	High-power lithium batteries from functionalized carbon-nanotube electrodes. 2010 , 5, 531-7		946
1680	Carbon Nanotube Supercapacitors. 2010 ,		10

1679	Enhancement of Electrochemical Capacitance Using Ni-Modified Carbon Nanofibers Prepared by a Hydrothermal Process. 2010 , 157, K113	8
1678	Optimization of Nanostructures of Activated Carbon by Mechanical Methods. 2010 , 148-149, 1277-1280	
1677	Manufacturing of Carbonaceous Materials Based on Olive Stones Biomass for Electrochemical Applications. 2010 , 446, 23-31	
1676	Activated Carbon from Bituminous Coal by Microwave-Assisted Heating in Different Gas Media for Supercapacitor Electrodes. 2010 , 148-149, 1230-1234	2
1675	Template Synthesis of Activated Carbon for Supercapacitor. 2010 , 663-665, 568-571	
1674	A Porous Carbon Prepared by Using a Mordenite Mineral as Template and its Cyclic Voltammetry Study in H ₂ SO ₄ . 2010 , 143-144, 749-752	
1673	Research on Mechanism of Electrical Transport of Carbon Aerogels. 2010 , 160-162, 1378-1382	
1672	Research of Activated Carbon for Supercapacitor Prepared by Organic Template Method. 2010 , 663-665, 551-554	
1671	Influence of high-temperature treatment of granular activated carbon on its structure and electrochemical behavior in aqueous electrolyte solution. 2010 , 25, 1617-1628	12
1670	Different growth mechanisms of vertical carbon nanotubes by rf- or dc-plasma enhanced chemical vapor deposition at low temperature. 2010 , 28, 1081-1085	8
1669	Electrochemical Copolymerization of 3,4-Ethylenedioxythiophene and N-Phenylsulfonyl Pyrrole: Morphologic, Spectroscopic, Electrochemical Characterizations. 2010 , 157, P99	7
1668	Nanostructured materials for the construction of asymmetrical supercapacitors. 2010 , 224, 479-503	60
1667	Properties of Nitrogen-Functionalized Ordered Mesoporous Carbon Prepared Using Polypyrrole Precursor. 2010 , 157, B1665	110
1666	INFLUENCE OF PORE STRUCTURE ON THE ELECTROCHEMICAL PERFORMANCE OF ACTIVATED CARBON AS ELECTRODE MATERIAL FOR AQUEOUS SUPERCAPACITORS. 2010 , 03, 201-205	3
1665	Bioinspired nanostructural peptide materials for supercapacitor electrodes. 2010 , 25, 1661-1666	27
1664	Synthesis and Thermal Treatment of Multiwalled Carbon Nanotubes on Sputtered Cobalt for Electrodes of Electrochemical Capacitors. 2010 , 157, A209	1
1663	Electrochemistry. 53-75	
1662	Nickel(II) tetra-aminophthalocyanine modified MWCNTs as potential nanocomposite materials for the development of supercapacitors. 2010 , 3, 228-236	131

1661	High-performance supercapacitors using a nanoporous current collector made from super-aligned carbon nanotubes. 2010 , 21, 345701	75
1660	Self-Assembled Graphene/Carbon Nanotube Hybrid Films for Supercapacitors. 2010 , 1, 467-470	999
1659	Electrodeposition for Electrochemical Energy Conversion and Storage Devices. 2010 , 117-162	0
1658	Printable magnetite and pyrrole treated magnetite based electrodes for supercapacitors. 2010 , 20, 7637	96
1657	Carbon nanotube/manganese oxide ultrathin film electrodes for electrochemical capacitors. 2010 , 4, 3889-96	632
1656	Influence of KOH/Coke Mass Ratio on Properties of Activated Carbons Made by Microwave-Assisted Activation for Electric Double-Layer Capacitors. 2010 , 24, 3603-3609	37
1655	Functional hybrid materials based on carbon nanotubes and metal oxides. 2010 , 20, 6383	179
1654	Hierarchical nanocomposites of polyaniline nanowire arrays on graphene oxide sheets with synergistic effect for energy storage. 2010 , 4, 5019-26	1190
1653	Integration of Carbon Nanotubes to C-MEMS for On-chip Supercapacitors. 2010 , 9, 734-740	55
1652	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
1651	A detailed view on the polycondensation of ionic liquid monomers towards nitrogen doped carbon materials. 2010 , 20, 6746	222
1650	One-step Electrophoretic Deposition of Ni-Decorated Activated-Carbon Film as an Electrode Material for Supercapacitors. 2010 , 114, 6190-6196	31
1649	Facile and controllable electrochemical reduction of graphene oxide and its applications. 2010 , 20, 743-748	702
1648	Electrochemical behavior of single-walled carbon nanotube supercapacitors under compressive stress. 2010 , 4, 6039-49	241
1647	Influence of the Surface Chemistry of Modified Mesoporous Carbon on the Electrochemical Behavior of Solid-State Supercapacitors. 2010 , 24, 3313-3320	40
1646	Convective Drying of Gels: Comparison Between Simulated and Experimental Moisture Profiles Obtained by X-ray Microtomography. 2010 , 28, 644-650	6
1645	Effects of Carbon Nanotube Grafting on the Performance of Electric Double Layer Capacitors. 2010 , 24, 6476-6482	62
1644	Supercapacitor-Type Behavior of Carbon Composite and Replica Obtained from Hybrid Layered Double Hydroxide Active Container. 2010 , 22, 974-987	95

1643	Covalent Functionalization and Electron-Transfer Properties of Vertically Aligned Carbon Nanofibers: The Importance of Edge-Plane Sites. 2010 , 22, 2357-2366	42
1642	Performance of Electric Double-Layer Capacitor with Acidic Cellulose-Chitin Hybrid Gel Electrolyte. 2010 , 157, A203	38
1641	Energy storage in electrochemical capacitors: designing functional materials to improve performance. 2010 , 3, 1238	914
1640	Synthesis and electrochemical properties of electrospun V2O5 nanofibers as supercapacitor electrodes. 2010 , 20, 6720	255
1639	Conducting Polyaniline Nanowire Arrays for High Performance Supercapacitors. 2010 , 114, 8062-8067	442
1638	Capacitance and equivalent series resistance (ESR) optimization using the Taguchi technique for EDLC's. 2010 ,	1
1637	Carbon composites and replicas from intercalated layered double hydroxides. 2010 , 50, 367-375	17
1636	Reticulated vitreous carbon/polypyrrole composites as electrodes for lithium batteries: Preparation, electrochemical characterization and charge/discharge performance. 2010 , 160, 173-179	15
1635	Enhanced capacitance textile fibres for supercapacitors via an interfacial molecular templating process. 2010 , 160, 655-663	26
1634	Investigation of polyaniline co-doped with Zn ²⁺ and H ⁺ as the electrode material for electrochemical supercapacitors. 2010 , 160, 1228-1233	52
1633	Assessing the Concentration Effect on Hydration Radii in Aqueous Solutions by Electroadsorption on a Carbon Molecular Sieve Electrode. 2010 , 114, 13354-13361	14
1632	Photocatalytic and conductive MWCNT/TiO ₂ nanocomposite thin films. 2010 , 2, 2646-52	77
1631	Electric Double-Layer Capacitors from Activated Carbon Derived from Black Liquor. 2010 , 24, 1889-1893	21
1630	Preparation of ordered mesoporous carbon nanopipes with controlled nitrogen species for application in electrical double-layer capacitors. 2010 , 195, 2125-2129	87
1629	High-energy MnO ₂ nanowire/graphene and graphene asymmetric electrochemical capacitors. 2010 , 4, 5835-42	1331
1628	Templated mesoporous carbons and their performance for electric double layer capacitors. 2010 , 25, 376-381	17
1627	3D supercapacitor using nickel electroplated vertical aligned carbon nanotube array electrode. 2010 ,	9
1626	Multisegmented Au-MnO ₂ /Carbon Nanotube Hybrid Coaxial Arrays for High-Power Supercapacitor Applications. 2010 , 114, 658-663	288

1625	Polypyrrole self-organized nanopore arrays formed by controlled electropolymerization in TiO ₂ nanotube template. 2010 , 46, 8585-7	55
1624	Carbon-Based Nanomaterials for Electrochemical Energy Storage. 177-204	
1623	Highly Dispersed RuO ₂ Nanoparticles on Carbon Nanotubes: Facile Synthesis and Enhanced Supercapacitance Performance. 2010 , 114, 2448-2451	274
1622	Electrochemical Capacitance of Nanocomposite Polypyrrole/Cellulose Films. 2010 , 114, 17926-17933	101
1621	Exploring New Routes in the Synthesis of Carbon Xerogels for Their Application in Electric Double-Layer Capacitors. 2010 , 24, 3334-3339	40
1620	Diverse corrugation pattern in radially shrinking carbon nanotubes. 2010 , 82,	22
1619	Harvesting waste thermal energy using a carbon-nanotube-based thermo-electrochemical cell. 2010 , 10, 838-46	323
1618	A fish scale based hierarchical lamellar porous carbon material obtained using a natural template for high performance electrochemical capacitors. 2010 , 20, 4773	160
1617	Graphene as ion sensitive film for ionic liquids. 2010 ,	
1616	Synthesis of covalently attached hexadecanilines on carbon nanotubes: toward electronic nanocarbon preparation. 2010 , 2, 535-41	6
1615	Particle Size Effect of Silver Nanoparticles Decorated Single Walled Carbon Nanotube Electrode for Supercapacitors. 2010 , 157, A179	92
1614	Hybrid MnO ₂ /disordered mesoporous carbon nanocomposites: synthesis and characterization as electrochemical pseudocapacitor electrodes. 2010 , 20, 390-398	73
1613	Multiwalled Carbon Nanotube Electrodes for Electrical Double Layer Capacitors with Ionic Liquid Based Gel Polymer Electrolytes. 2010 , 157, A105	69
1612	Morphology control of ordered mesoporous carbons by changing HCl concentration. 2011 , 21, 5345	23
1611	Electrochemical capacitance and ionic transport in the mesoporous shell of a hierarchical porous core-shell carbon structure. 2011 , 21, 8880	59
1610	Binder-free Co(OH) ₂ nanoflake/TiO ₂ nanowire heterostructured electrodes for electrochemical energy storage with improved high-rate capabilities. 2011 , 21, 10482	55
1609	Electrochemical behavior of graphene nanosheets in alkylimidazolium tetrafluoroborate ionic liquid electrolytes: influences of organic solvents and the alkyl chains. 2011 , 21, 13205	54
1608	Enhanced supercapacitors from hierarchical carbon nanotube and nanohorn architectures. 2011 , 21, 17810	55

1607	High to ultra-high power electrical energy storage. 2011 , 13, 20714-23	109
1606	A divided potential driving self-discharge process for single-walled carbon nanotube based supercapacitors. 2011 , 1, 989	27
1605	Monolithic electrode for electric double-layer capacitors based on macro/meso/microporous S-Containing activated carbon with high surface area. 2011 , 21, 2060	141
1604	Hierarchically structured carbon replica of hybrid layered double hydroxide. 2011 , 35, 169-177	9
1603	Self-assembled lithium manganese oxide nanoparticles on carbon nanotube or graphene as high-performance cathode material for lithium-ion batteries. 2011 , 21, 17297	55
1602	Performance of Vanadium Oxide on Multi-Walled Carbon Nanotubes/Titanium Electrode for Supercapacitor Application. 2011 , 311-313, 414-418	
1601	Electrochemical Evaluation of a Novel Boron Doped Diamond (BDD) Material for Application as Potential Electrochemical Capacitor. 2011 , 44, 2005-2018	5
1600	Beta-phased Ni(OH) ₂ nanowall film with reversible capacitance higher than theoretical Faradic capacitance. 2011 , 47, 9651-3	244
1599	Simulating Electric Double Layer Capacitance of Mesoporous Electrodes with Cylindrical Pores. 2011 , 158, A1106	41
1598	Sorption of peat humic acids to multi-walled carbon nanotubes. 2011 , 45, 9276-83	94
1597	Supercritical fluid deposition of vanadium oxide on multi-walled carbon nanotube buckypaper for supercapacitor electrode application. 2011 , 22, 365402	30
1596	Supercapacitors Based on 3D Nanostructured Electrodes. 2011 , 477-521	
1595	Flexible holey graphene paper electrodes with enhanced rate capability for energy storage applications. 2011 , 5, 8739-49	434
1594	Advanced carbon aerogels for energy applications. 2011 , 4, 656	510
1593	Nitrogen-containing microporous carbon nanospheres with improved capacitive properties. 2011 , 4, 717-724	789
1592	Hierarchically structured carbon-based composites: Design, synthesis and their application in electrochemical capacitors. 2011 , 3, 529-45	260
1591	Thermodynamic analysis on energy densities of batteries. 2011 , 4, 2614	634
1590	Vanadium nitride/carbon nanotube nanocomposites as electrodes for supercapacitors. 2011 , 21, 13268	139

1589	CeO ₂ nanoparticles/graphene nanocomposite-based high performance supercapacitor. 2011 , 40, 6388-91	204
1588	Nitrogen-doped carbon xerogel: A novel carbon-based electrocatalyst for oxygen reduction reaction in proton exchange membrane (PEM) fuel cells. 2011 , 4, 3389	149
1587	In situ synthesis of ultrafine MnO ₂ /polypyrrole nanorod composites for high-performance supercapacitors. 2011 , 21, 10965	166
1586	Towards organic energy storage: characterization of 2,5-bis(methylthio)thieno[3,2-b]thiophene. 2011 , 21, 9553	22
1585	Superparamagnetic Fe ₃ O ₄ nanocrystals@graphene composites for energy storage devices. 2011 , 21, 5069	316
1584	High-performance nanostructured supercapacitors on a sponge. 2011 , 11, 5165-72	627
1583	A sustainable synthesis of nitrogen-doped carbon aerogels. 2011 , 13, 2428	172
1582	Compact-designed supercapacitors using free-standing single-walled carbon nanotube films. 2011 , 4, 1440	287
1581	Ultra-high Li storage capacity achieved by hollow carbon capsules with hierarchical nanoarchitecture. 2011 , 21, 19362	73
1580	Preparation and characterization of iridium dioxide-carbon nanotube nanocomposites for supercapacitors. 2011 , 22, 115706	54
1579	Hydrothermal carbonization of biomass residuals: a comparative review of the chemistry, processes and applications of wet and dry pyrolysis. 2011 , 2, 71-106	1013
1578	Preparation and Application of Carbon Aerogels. 2011 , 813-831	7
1577	Facile preparation and enhanced capacitance of the polyaniline/sodium alginate nanofiber network for supercapacitors. 2011 , 27, 6458-63	235
1576	Graphene based new energy materials. 2011 , 4, 1113	1637
1575	Nanocomposite Electrodes for High-Performance Supercapacitors. 2011 , 2, 655-660	144
1574	Printable photo-supercapacitor using single-walled carbon nanotubes. 2011 , 4, 413-416	167
1573	Microporous sulfur-doped carbon from thienyl-based polymer network precursors. 2011 , 47, 8283-5	140
1572	Dye-sensitized solar cell with a titanium-oxide-modified carbon nanotube transparent electrode. 2011 , 99, 021107	64

1571	Mechanisms of Energy Storage in Carbon-Based Supercapacitors Modified with a Quinoid Redox-Active Electrolyte. 2011 , 115, 17606-17611	241
1570	Evolution of dynamics and structure during formation of a cross-linked polymer gel. 2011 , 95, 28001	29
1569	Advanced Lithium Battery Cathodes Using Dispersed Carbon Fibers as the Current Collector. 2011 , 158, A1060	50
1568	Design and tailoring of a hierarchical graphene-carbon nanotube architecture for supercapacitors. 2011 , 21, 2374-2380	370
1567	Carbon Microspheres as Supercapacitors. 2011 , 115, 20481-20486	64
1566	Fast ion transport and high capacitance of polystyrene-based hierarchical porous carbon electrode material for supercapacitors. 2011 , 21, 1970-1976	202
1565	In situ self-assembly of mild chemical reduction graphene for three-dimensional architectures. 2011 , 3, 3132-7	602
1564	Flexible supercapacitors based on cloth-supported electrodes of conducting polymer nanowire array/SWCNT composites. 2011 , 21, 16373	190
1563	Flexible Symmetric Supercapacitors Based on TiO ₂ and Carbon Nanotubes. 2011 , 10, 706-709	17
1562	Aerogels Handbook. 2011 ,	316
1561	Alkali-treated graphene oxide as a solid base catalyst: synthesis and electrochemical capacitance of graphene/carbon composite aerogels. 2011 , 21, 18537	102
1560	How carboxylic groups improve the performance of single-walled carbon nanotube electrochemical capacitors?. 2011 , 4, 4220	105
1559	Synthesis and Characterization of Ni(OH) ₂ /Multiwalled Carbon Nanotubes Nanocomposites for Electrochemical Capacitors. 2011 , 239-242, 2968-2971	1
1558	Superior Capacitance of Functionalized Graphene. 2011 , 115, 7120-7125	277
1557	The role of nanomaterials in redox-based supercapacitors for next generation energy storage devices. 2011 , 3, 839-55	681
1556	Polyaniline-Coated Electro-Etched Carbon Fiber Cloth Electrodes for Supercapacitors. 2011 , 115, 23584-23590	196
1555	Functionalized Graphene-Based Nanocomposites for Supercapacitor Application. 2011 , 115, 14006-14013	321
1554	The governing self-discharge processes in activated carbon fabric-based supercapacitors with different organic electrolytes. 2011 , 4, 2152	113

1553	Real-time NMR studies of electrochemical double-layer capacitors. 2011 , 133, 19270-3	125
1552	New application and electrochemical characterization of a nickel-doped mesoporous carbon for supercapacitors. 2011 , 509, 9858-9864	16
1551	Supercapacitor performance of porous carbon nanofiber composites prepared by electrospinning polymethylhydrosiloxane (PMHS)/polyacrylonitrile (PAN) blend solutions. 2011 , 161, 1211-1216	58
1550	The effect of carbon particle morphology on the electrochemical properties of nanocarbon/polyaniline composites in supercapacitors. 2011 , 26, 180-186	31
1549	A comparative study of nitrogen-doped hierarchical porous carbon monoliths as electrodes for supercapacitors. 2011 , 26, 197-203	14
1548	Preparation of mesoporous carbon microsphere/activated carbon composite for electric double-layer capacitors. 2011 , 26, 237-240	9
1547	Nanostructured carbon-based electrodes: bridging the gap between thin-film lithium-ion batteries and electrochemical capacitors. 2011 , 4, 1972	319
1546	Graphene and carbon nanotube composite electrodes for supercapacitors with ultra-high energy density. 2011 , 13, 17615-24	525
1545	Effect of KOH char ratio on the properties of lignin-derived activated carbons for electric double layer capacitors. 2011 ,	2
1544	Doped graphene sheets as anode materials with superhigh rate and large capacity for lithium ion batteries. 2011 , 5, 5463-71	1700
1543	Reversible redox reaction on the oxygen-containing functional groups of an electrochemically modified graphite electrode for the pseudo-capacitance. 2011 , 21, 18753	84
1542	Carbon-Based Fibrous EDLC Capacitors and Supercapacitors. 2011 , 2011, 1-8	30
1541	Designing Nanostructured Carbon Xerogels. 2011 ,	4
1540	Fabrication and Plasma Treatment of Carbon Nanotubes on Sputtered Cobalt for Electrodes of Electrochemical Capacitors. 2011 , 79, 10-14	1
1539	Capacitive performance of ordered mesoporous carbons with tunable porous texture in ionic liquid electrolytes. 2011 , 13, 2000-2006	29
1538	Fluorination effect of activated carbon electrodes on the electrochemical performance of electric double layer capacitors. 2011 , 132, 1127-1133	57
1537	A high-performance three-dimensional micro supercapacitor based on self-supporting composite materials. 2011 , 196, 10465-10471	120
1536	Solvent-induced porosity control of carbon nanofiber webs for supercapacitor. 2011 , 196, 10496-10501	62

1535	Review study of electrochemical impedance spectroscopy and equivalent electrical circuits of conducting polymers on carbon surfaces. 2011 , 71, 1-10	132
1534	Mesoporous carbon-polyaniline electrode: Characterization and application to determination of copper and lead by anodic stripping voltammetry. 2011 , 128, 238-242	22
1533	Preparation of activated carbon from sorghum pith and its structural and electrochemical properties. 2011 , 46, 413-419	70
1532	TiN/VN composites with core/shell structure for supercapacitors. 2011 , 46, 835-839	59
1531	Carbon/PbO ₂ asymmetric electrochemical capacitor based on methanesulfonic acid electrolyte. 2011 , 56, 8122-8128	63
1530	Fabrication of polypyrrole (PPy)/carbon nanotube (CNT) composite electrode on ceramic fabric for supercapacitor applications. 2011 , 56, 7460-7466	150
1529	Characteristic analysis of a photovoltaic system flying at fixed latitude. 2011 , 52, 3337-3346	4
1528	Preparation of Pt/C via a polyol process – Investigation on carbon support adding sequence. 2011 , 36, 10490-10501	34
1527	Acid blue AS doped polypyrrole (PPy/AS) nanomaterials with different morphologies as electrode materials for supercapacitors. 2011 , 172, 1137-1144	36
1526	Controlled pore formation in organotrialkoxysilane-derived hybrids: from aerogels to hierarchically porous monoliths. 2011 , 40, 754-70	176
1525	Ultralayered Co ₃ O ₄ for High-Performance Supercapacitor Applications. 2011 , 115, 15646-15654	753
1524	Graphene Nanosheet/Ni ²⁺ /Al ³⁺ Layered Double-Hydroxide Composite as a Novel Electrode for a Supercapacitor. 2011 , 23, 3509-3516	470
1523	Hydrothermal Carbonization of Abundant Renewable Natural Organic Chemicals for High-Performance Supercapacitor Electrodes. 2011 , n/a-n/a	
1522	In-situ XAFS studies of Mn ¹² molecular-cluster batteries: super-reduced Mn ¹² clusters in solid-state electrochemistry. 2011 , 6, 1074-9	22
1521	The right kind of interior for multifunctional electrode architectures: carbon nanofoam papers with aperiodic submicrometre pore networks interconnected in 3D. 2011 , 4, 1913	98
1520	Study of the formation and electrochemical properties of nickel oxide-carbon fiber composites obtained in the presence of surfactants. 2011 , 47, 1220-1226	5
1519	Carbon nanotubes and their composites in electrochemical applications. 2011 , 4, 1592	476
1518	Growth of carbon nanotubes on aluminium foil for supercapacitors electrodes. 2011 , 46, 1487-1493	26

1517	Nano-energy research trends: bibliometrical analysis of nanotechnology research in the energy sector. 2011 , 13, 3911-3922	29
1516	Preparation and performances of carbon aerogel microspheres for the application of supercapacitor. 2011 , 15, 643-648	48
1515	Molding versus dispersion: effect of the preparation procedure on the capacitive and cycle life of carbon nanotubes aerogel composites. 2011 , 15, 765-771	9
1514	Exfoliated graphite nanosheets/carbon nanotubes hybrid materials for superior performance supercapacitors. 2011 , 15, 1179-1184	35
1513	The electrochemistry of activated carbonaceous materials: past, present, and future. 2011 , 15, 1563-1578	132
1512	The method of limited volume electrodes as a tool for hydrogen electrosorption studies in palladium and its alloys. 2011 , 15, 2489-2522	16
1511	Microwave-assisted hydrothermal synthesis of crystalline WO ₃ /WO ₃ ·0.5H ₂ O mixtures for pseudocapacitors of the asymmetric type. 2011 , 196, 2387-2392	111
1510	Enhanced capacitance in partially exfoliated multi-walled carbon nanotubes. 2011 , 196, 5209-5214	94
1509	Green synthesis of graphene nanosheets/ZnO composites and electrochemical properties. 2011 , 184, 1421-1427	209
1508	Facile synthesis of MnO ₂ /CNT nanocomposite and its electrochemical performance for supercapacitors. 2011 , 176, 1073-1078	81
1507	Influence of the PANi morphology deposited on the carbon fiber: An analysis of the capacitive behavior of this hybrid composite. 2011 , 511, 73-76	12
1506	Development of easy made low cost bindless monolithic electrodes from biomass with controlled properties to be used as electrochemical capacitors. 2011 , 102, 2781-7	80
1505	Application studies of activated carbon derived from rice husks produced by chemical-thermal process—a review. 2011 , 163, 39-52	229
1504	Synthesis and electropolymerization of 9-tosyl-9H-carbazole, electrochemical impedance spectroscopic study and circuit modelling. 2011 , 12, 8-14	22
1503	Binder-free activated carbon/carbon nanotube paper electrodes for use in supercapacitors. 2011 , 4, 870-881	154
1502	Ordered mesoporous carbon/SnO ₂ composites as the electrode material for supercapacitors. 2011 , 26, 407-411	6
1501	Electrochemical performance of interfacially polymerized polyaniline nanofibres as electrode materials for non-aqueous redox supercapacitors. 2011 , 18, 78-82	6
1500	Preparation and performance of cobalt-doped carbon aerogel for supercapacitor. 2011 , 28, 492-496	10

1499	Nano-structured porous carbon materials for catalysis and energy storage. 2011 , 28, 731-743	42
1498	Thermoplastic Polyurethane Nanocomposites Produced via Impregnation of Long Carbon Nanotube Forests. 2011 , 296, 53-58	8
1497	Brick-and-Mortar Self-Assembly Approach to Graphitic Mesoporous Carbon Nanocomposites. 2011 , 21, 2208-2215	93
1496	Advances in tailoring resorcinol-formaldehyde organic and carbon gels. 2011 , 23, 2887-903	320
1495	Promising carbons for supercapacitors derived from fungi. 2011 , 23, 2745-8	289
1494	Carbon materials for chemical capacitive energy storage. 2011 , 23, 4828-50	2273
1493	Synthesis of Partially Graphitic Ordered Mesoporous Carbons with High Surface Areas. 2011 , 1, 115-123	147
1492	Hydrothermal Carbonization of Abundant Renewable Natural Organic Chemicals for High-Performance Supercapacitor Electrodes. 2011 , 1, 356-361	470
1491	An All-Solid-State Flexible Micro-supercapacitor on a Chip. 2011 , 1, 1068-1072	315
1490	Carbon nanotubes for sustainable energy applications. 2011 , 4, 913-25	78
1489	Bis(2,2'-biphenoxy)borates for electrochemical double-layer capacitor electrolytes. 2011 , 17, 3082-5	12
1488	Deep-eutectic-solvent-assisted synthesis of hierarchical carbon electrodes exhibiting capacitance retention at high current densities. 2011 , 17, 10533-7	73
1487	Synthesis of carbon xerogels at varying sol/gel pHs, dye adsorption and chemical regeneration. 2011 , 171, 1399-1405	16
1486	Preparation of capacitor's electrode from sunflower seed shell. 2011 , 102, 1118-23	330
1485	Mesoporous carbon spheres grafted with carbon nanofibers for high-rate electric double layer capacitors. <i>Carbon</i> , 2011 , 49, 895-903	10.4 113
1484	Preparation, structure and supercapacitance of bonded carbon nanofiber electrode materials. <i>Carbon</i> , 2011 , 49, 2380-2388	10.4 179
1483	Graphene and nanostructured MnO ₂ composite electrodes for supercapacitors. <i>Carbon</i> , 2011 , 49, 2917-2925	10.4 616
1482	The synthesis of microporous carbon by the fluorination of titanium carbide. <i>Carbon</i> , 2011 , 49, 2998-3003	10.4 18

1481	Surface characteristics and electrochemical capacitances of carbon aerogels obtained from resorcinol and pyrocatechol using boric and oxalic acids as polymerization catalysts. <i>Carbon</i> , 2011 , 49, 3808-3819	10.4	56
1480	Surface and electrochemical properties of amino-fluorinated activated carbon. 2011 , 377, 243-250		22
1479	Fabrication method of parallel mesoporous carbon nanotubes. 2011 , 377, 150-155		8
1478	Influence of surface chemistry on the electronic properties of graphene nanoflakes. 2011 , 503, 91-96		20
1477	Compressive properties and fracture behavior of ceramic fiber-reinforced carbon aerogel under quasi-static and dynamic loading. <i>Carbon</i> , 2011 , 49, 1542-1549	10.4	60
1476	Influence of the fuel structure on the flame synthesis of carbon nanomaterials. <i>Carbon</i> , 2011 , 49, 3412-3423		28
1475	Electrochemical study of double-walled carbon nanotube electrode/block polyether-lithium bis(trifluorosulphonyl)imide salt polymer electrolyte interface. 2011 , 56, 4650-4656		4
1474	Synthesis of boron/nitrogen substituted carbons for aqueous asymmetric capacitors. 2011 , 56, 5369-5375		23
1473	Simulation of electric double layer capacitors with mesoporous electrodes: Effects of morphology and electrolyte permittivity. 2011 , 56, 6189-6197		60
1472	Modification of the properties of carbon nanocoils by different treatments in liquid phase. 2011 , 142, 55-61		14
1471	Carbon materials with tailored porosity by self-assembly method: Influence of the synthesis conditions. 2011 , 143, 30-36		8
1470	Adjustment of electrodes potential window in an asymmetric carbon/MnO ₂ supercapacitor. 2011 , 196, 580-586		214
1469	Hierarchical porous carbons prepared by an easy one-step carbonization and activation of phenol-formaldehyde resins with high performance for supercapacitors. 2011 , 196, 1615-1619		76
1468	Electrical double layer capacitors with sucrose derived carbon electrodes in ionic liquid electrolytes. 2011 , 196, 4072-4079		97
1467	High-frequency carbon supercapacitors from polyfurfuryl alcohol. 2011 , 196, 7816-7822		19
1466	Effect of NaI/I ₂ mediators on properties of PEO/LiAlO ₂ based all-solid-state supercapacitors. 2011 , 196, 5997-6002		36
1465	Direct synthesis of high concentration N-doped coiled carbon nanofibers from amine flames and its electrochemical properties. 2011 , 196, 7868-7873		38
1464	A sustainable route for the preparation of activated carbon and silica from rice husk ash. 2011 , 186, 1314-9		119

1463	Performance of electrochemical double layer capacitors using highly porous activated carbons prepared from beer lees. 2011 , 17, 450-454	53
1462	Fast microwave-assisted synthesis of tailored mesoporous carbon xerogels. 2011 , 357, 541-7	51
1461	A second-order discretization of the nonlinear Poisson-Boltzmann equation over irregular geometries using non-graded adaptive Cartesian grids. 2011 , 230, 2125-2140	30
1460	Graphene based materials: Past, present and future. 2011 , 56, 1178-1271	2607
1459	Magnetic field enhances the graphitized structure and field emission effect of carbon nanotubes. 2011 , 519, 4166-4173	10
1458	Asymmetric electrochemical capacitors stretching the limits of aqueous electrolytes. 2011 , 36, 513-522	327
1457	Electrochemical Impedance Spectroscopic Study of Polythiophenes on Carbon Materials. 2011 , 50, 1130-1148	20
1456	Double Templating Synthesis and Electrochemical Properties of Carbon Foams. 2011 , 347-353, 3400-3403	
1455	Synthesis and Electrochemical Performance of Mesoporous Carbon Foams by Microemulsion Method. 2011 , 347-353, 3416-3419	
1454	A Templated Carbon Prepared by Using a Clinoptilolite-Ca Mineral as Template and Furfuralcohol as Carbon Source: Pore Structure and Electrochemical Performance in H ₂ SO ₄ . 2011 , 66-68, 764-767	
1453	Prepared Activated Carbon from Rice Husk Cracking by Medium Optimization Using a Statistical Experimental Design. 2011 , 366, 374-377	
1452	Preparation and Electrochemical Properties of Fluorinated Mesoporous Carbon Foams for Electric Double-Layer Capacitors. 2011 , 239-242, 3190-3193	1
1451	Excellent Rate Capability in H ₂ SO ₄ of a Porous Carbon Prepared by Template Method Using a Mazzite Mineral as Template. 2011 , 230-232, 1173-1176	
1450	Solid-Liquid Interface. 2011 , 147-252	9
1449	Hydrothermal synthesis and electrochemical characterisation of nano SnO ₂ /V ₂ O ₅ /CNT composites. 2011 , 15, 160-166	3
1448	A nanostructured electrode of IrOx foil on the carbon nanotubes for supercapacitors. 2011 , 22, 355708	17
1447	Carbon Xerogel Catalyst for NO Oxidation. 2012 , 2, 447-465	11
1446	Supercapacitive Behaviors of Hierarchically Porous Carbons Prepared by Metal Oxide/Surfactant Templates. 2012 , 159, A431-A437	9

1445	Self-Rechargeable Multifunctional Carbon Fiber Composites with CNTs Supercapacitors. 2012 ,		
1444	Electrochemical Behavior of Tungsten Carbide-Derived Carbon Based Electric Double-Layer Capacitors. 2012 , 159, A208-A213		23
1443	One-Step Synthesis of Thin Graphite Layers Supported CNTs in Porous Copper by CVD. 2012 , 588-589, 1677-1680		1
1442	Nanodiamond Films for Applications in Electrochemical Systems. 2012 , 2012, 1-16		19
1441	Synthesis and Characterization of Ni/CNTs Electrodes and their Supercapacitors Performance. 2012 , 507, 48-51		
1440	Effects of the catalyst and substrate thickness on the carbon nanotubes/nanofibers as supercapacitor electrodes. 2012 , 86, 065603		3
1439	The Influence of Graphitic Structure of Carbon Electrode on Aging Behavior of Electric Double Layer Capacitor. 2012 , 80, 752-754		4
1438	Graphene-based materials for energy applications. 2012 , 37, 1265-1272		113
1437	Unusual energy enhancement in carbon-based electrochemical capacitors. 2012 , 22, 24213		105
1436	Electrochemical Study of Functionalized Carbon Nano-Onions for High-Performance Supercapacitor Electrodes. 2012 , 116, 15068-15075		79
1435	Graphene for energy conversion and storage in fuel cells and supercapacitors. 2012 , 1, 534-551		548
1434	A high density of vertically-oriented graphenes for use in electric double layer capacitors. <i>Carbon</i> , 2012 , 50, 5481-5488	10.4	117
1433	Non-faradic carbon nanotube-based supercapacitors: state of the art. 2012 , 60, 10401		7
1432	Review of Electrochemical Capacitors Based on Carbon Nanotubes and Graphene. 2012 , 01, 1-13		88
1431	Surface Analysis of Supercapacitor Electrodes After Long-Lasting Constant Current Tests in Organic Electrolyte. 2012 , 159, A1141-A1147		15
1430	Flexible solid-state supercapacitors based on carbon nanoparticles/MnO ₂ nanorods hybrid structure. 2012 , 6, 656-61		893
1429	Encyclopedia of Nanotechnology. 2012 , 1644-1644		
1428	Capacitance of electrochemical double layer capacitors. 2012 , 86, 225-231		12

1427	Capacitance behavior of KOH activated mesocarbon microbeads in different aqueous electrolytes. 2012 , 86, 260-267	73
1426	Non-aqueous electrochemical capacitor utilizing electrolytic redox reactions of bromide species in ionic liquid. 2012 , 86, 294-297	64
1425	Hybrid structure of zinc oxide nanorods and three dimensional graphene foam for supercapacitor and electrochemical sensor applications. 2012 , 2, 4364	253
1424	Improve the Supercapacity Performance of MnO ₂ -Decorated Graphene by Controlling the Oxidization Extent of Graphene. 2012 , 116, 25226-25232	87
1423	A 3D hexaporous carbon assembled from single-layer graphene as high performance supercapacitor. 2012 , 5, 2159-64	68
1422	Preparation and performance of polyvinyl alcohol-based activated carbon as electrode material in both aqueous and organic electrolytes. 2012 , 16, 3355-3362	13
1421	Chitosan hydrogel-based electrode binder and electrolyte membrane for EDLCs: experimental studies and model validation. 2012 , 42, 935-943	30
1420	Preparation of activated carbon sheet electrode assisted electrosorption process. 2012 , 43, 473-479	65
1419	Electrochemical and electromechanical properties of high performance polymer actuators using multi-walled carbon nanotubes containing ruthenium oxide. 2012 , 174, 217-224	5
1418	Superior performance of manganese oxide/multi-walled carbon nanotubes polymer actuator over ruthenium oxide/multi-walled carbon nanotubes and single-walled carbon nanotubes. 2012 , 171-172, 595-601	28
1417	Formation of graphitic tubules from ordered mesoporous carbon and their effect on supercapacitive energy storage. 2012 , 22, 21472	27
1416	Superior performance of a vapor grown carbon fiber polymer actuator containing ruthenium oxide over a single-walled carbon nanotube. 2012 , 22, 15104	16
1415	Ionic liquid-assisted microwave reduction of graphite oxide for supercapacitors. 2012 , 2, 8808	30
1414	Pyrolysis-assisted graphene exfoliation from graphite particles deposited on photoresist pillars. 2012 ,	
1413	Waste paper based activated carbon monolith as electrode materials for high performance electric double-layer capacitors. 2012 , 2, 1890	41
1412	High-performance aqueous supercapacitors based on hierarchically porous graphitized carbon. 2012 , 2, 1755	13
1411	Fabrication of a mesoporous Co(OH) ₂ /ITO nanowire composite electrode and its application in supercapacitors. 2012 , 2, 10512	21
1410	Relationships between structure and activity of carbon as a multifunctional support for electrocatalysts. 2012 , 14, 9475-85	18

1409	Fabrication and tests of a three-dimensional microsupercapacitor using SU-8 photoresist as the separator. 2012 , 7, 1166-1169	7
1408	Microwave-assisted non-aqueous homogenous precipitation of nanoball-like mesoporous Ni(OH)_2 as a precursor for NiOx and its application as a pseudocapacitor. 2012 , 22, 8029	102
1407	Synthesis of 5-(3,6-di(thiophene-2-yl)-9H-carbazole-9-yl)pentane-1-amine and Electrochemical Impedance Spectroscopy. 2012 , 51, 640-646	8
1406	Moving towards high-power, high-frequency and low-resistance CNT supercapacitors by tuning the CNT length, axial deformation and contact resistance. 2012 , 23, 305401	42
1405	Coconut-Shell-Based Porous Carbons with a Tunable Micro/Mesopore Ratio for High-Performance Supercapacitors. 2012 , 26, 5321-5329	174
1404	Graphene for energy harvesting/storage devices and printed electronics. 2012 , 10, 1-8	98
1403	Investigations into the electrochemical characteristics of nickel oxide hydroxide/multi-walled carbon nanotube nanocomposites for use as supercapacitor electrodes. 2012 , 161, 2641-2646	24
1402	Charge storage in carbon nanotube TiO_2 hybrid nanoparticles. 2012 , 162, 650-654	6
1401	Vertically aligned carbon nanotubes grown on carbon fabric with high rate capability for super-capacitors. 2012 , 162, 1090-1096	28
1400	Flexible solid-state paper based carbon nanotube supercapacitor. 2012 , 100, 104103	166
1399	A review of electrode materials for electrochemical supercapacitors. 2012 , 41, 797-828	6816
1398	Temperature stable supercapacitors based on ionic liquid and mixed functionalized carbon nanomaterials. 2012 , 16, 3573-3580	33
1397	Hybrid multilayer thin film supercapacitor of graphene nanosheets with polyaniline: importance of establishing intimate electronic contact through nanoscale blending. 2012 , 22, 21092	154
1396	KOH activation of carbon-based materials for energy storage. 2012 , 22, 23710	1696
1395	Benzoxazole and benzimidazole heterocycle-grafted graphene for high-performance supercapacitor electrodes. 2012 , 22, 23439	112
1394	Lithium bis(oxalato)borate as an electrolyte for micromesoporous carbide-derived carbon based supercapacitors. 2012 , 669, 67-72	15
1393	Effect of surfactant on high capacitance of galvanostatically deposited MnO_2 . 2012 , 676, 35-39	16
1392	Nanostructured carbon for energy storage and conversion. 2012 , 1, 195-220	797

1391	Synthesis of activated carbon nanotube/copper oxide composites and their electrochemical performance. 2012 , 530, 6-10	110
1390	Free-standing and porous hierarchical nanoarchitectures constructed with cobalt cobaltite nanowalls for supercapacitors with high specific capacitances. 2012 , 219, 140-146	82
1389	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
1388	Detection of pathogenic microorganisms using biosensor based on multi-walled carbon nanotubes dispersed in DNA solution. 2012 , 12, 1553-1560	22
1387	Étude morphologique et structurale des fibres R/F. 2012 , 15, 493-498	3
1386	Synthesis of microporous carbon nanotubes by templating method and their high electrochemical performance. 2012 , 78, 147-153	13
1385	The effects of pristine and carboxylated multi-walled carbon nanotubes as conductive additives on the performance of LiNi _{0.33} Co _{0.33} Mn _{0.33} O ₂ and LiFePO ₄ positive electrodes. 2012 , 78, 17-26	28
1384	CoxNi _{1-x} double hydroxide nanoparticles with ultrahigh specific capacitances as supercapacitor electrode materials. 2012 , 78, 205-211	110
1383	NH ₃ -activated polyaniline for use as a high performance electrode material in supercapacitors. 2012 , 78, 340-346	20
1382	High-performance electrochemical capacitors using electrodeposited MnO ₂ on carbon nanotube array grown on carbon fabric. 2012 , 78, 515-523	50
1381	Dual-heteroatom-modified ordered mesoporous carbon: Hydrothermal functionalization, structure, and its electrochemical performance. 2012 , 22, 4963	99
1380	Porous carbon spheres from energetic carbon precursors using ultrasonic spray pyrolysis. 2012 , 24, 6028-33	52
1379	Renewing functionalized graphene as electrodes for high-performance supercapacitors. 2012 , 24, 6348-55	355
1378	Deep Eutectic Solvent-based Ionic Liquid Electrolytes for Electrical Double-layer Capacitors. 2012 , 59, 1280-1287	33
1377	Effect of pore characteristics on electrochemical capacitance of activated carbons. 2012 , 48, 1179-1186	3
1376	Chemical vapor-deposited carbon nanofibers on carbon fabric for supercapacitor electrode applications. 2012 , 7, 651	43
1375	Triethylammonium bis(tetrafluoromethylsulfonyl)amide protic ionic liquid as an electrolyte for electrical double-layer capacitors. 2012 , 14, 8199-207	114
1374	Encyclopedia of Nanotechnology. 2012 ,	55

1373 Encyclopedia of Nanotechnology. **2012**, 1790-1803

1372 Electrochemical assembly of MnO₂ in ionic liquid-graphene films into a hierarchical structure for high rate capability and long cycle stability of pseudocapacitors. **2012**, 4, 5394-400 46

1371 Oxide Nanostructures for Energy Storage. **2012**, 269-302 4

1370 Phthalocyanines in batteries and supercapacitors. **2012**, 16, 754-760 15

1369 Preparation of Graphene Oxide/Polyaniline Nanocomposite with Assistance of Supercritical Carbon Dioxide for Supercapacitor Electrodes. **2012**, 51, 14390-14398 114

1368 Hydrothermal Carbons: Synthesis, Characterization, and Applications. **2012**, 351-399 10

1367 Enhanced capacitive deionization of graphene/mesoporous carbon composites. **2012**, 4, 5440-6 208

1366 Adsorption by Carbon Gels. **2012**, 207-244 7

1365 Towards the upper bound of electrochemical performance of ACNT@polyaniline arrays as supercapacitors. **2012**, 5, 5833-5841 72

1364 A novel nano-nonwoven fabric with three-dimensionally dispersed nanofibers: entrapment of carbon nanofibers within nonwovens using the wet-lay process. **2012**, 23, 185601 12

1363 Thermal treatment effects on charge storage performance of graphene-based materials for supercapacitors. **2012**, 4, 3239-46 47

1362 Exploring the large voltage range of carbon/carbon supercapacitors in aqueous lithium sulfate electrolyte. **2012**, 5, 9611 262

1361 Facile method for the preparation of water dispersible graphene using sulfonated poly(ether-ether-ketone) and its application as energy storage materials. **2012**, 28, 9825-33 76

1360 Nitrogen-doped carbon xerogel as high active oxygen reduction catalyst for direct methanol alkaline fuel cell. **2012**, 37, 19065-19072 35

1359 Porous lanthanum doped NiO microspheres for supercapacitor application. **2012**, 682, 37-44 65

1358 Electrochemical sensor for amino acids based on gold nanoparticles/macroporous carbon composites modified glassy carbon electrode. **2012**, 687, 117-122 6

1357 Hydrothermally synthesized RuO₂/Carbon nanofibers composites for use in high-rate supercapacitor electrodes. **2012**, 72, 1524-1529 61

1356 Voltage characteristics and capacitance balancing for Li₄Ti₅O₁₂/activated carbon hybrid capacitors. **2012**, 86, 277-281 32

1355	NaClO ₄ and NaPF ₆ as potential non-aqueous electrolyte salts for electrical double layer capacitor application. 2012 , 82, 309-313	36
1354	Rectangular microscale carbon tubes with protuberant wall for high-rate electrochemical capacitors. 2012 , 80, 34-40	8
1353	The electrochemical catalytic activity of single-walled carbon nanotubes towards VO ₂ ⁺ /VO ₂ ⁺ and V ³⁺ /V ²⁺ redox pairs for an all vanadium redox flow battery. 2012 , 79, 102-108	105
1352	Anodic composite deposition of hydrous RuO ₂ /TiO ₂ nanocomposites for electrochemical capacitors. 2012 , 85, 90-98	14
1351	Supercapacitor modified with methylene blue as redox active electrolyte. 2012 , 83, 241-246	130
1350	A two-stage, self-aligned vertical densification process for as-grown CNT forests in supercapacitor applications. 2012 , 188, 261-267	28
1349	Aromatic sulfide, sulfoxide, and sulfone mediated mesoporous carbon monolith for use in supercapacitor. 2012 , 1, 624-630	248
1348	Nanostructured activated carbons from natural precursors for electrical double layer capacitors. 2012 , 1, 552-565	392
1347	Graphene-based multilayers: Critical evaluation of materials assembly techniques. 2012 , 7, 430-447	112
1346	Hierarchical Co ₃ O ₄ nanosheet@nanowire arrays with enhanced pseudocapacitive performance. 2012 , 2, 1663-1668	103
1345	Direct synthesis of fullerene-intercalated porous carbon nanofibers by chemical vapor deposition. <i>Carbon</i> , 2012 , 50, 5162-5166	10.4 9
1344	Preparation of mesoporous/macroporous materials in highly concentrated emulsions based on cubic phases by a single-step method. 2012 , 28, 12334-40	24
1343	Self-standing positive electrodes of oxidized few-walled carbon nanotubes for light-weight and high-power lithium batteries. 2012 , 5, 5437-5444	109
1342	MULTIWALLED CARBON NANOTUBES BASED NANOCOMPOSITES FOR SUPERCAPACITORS: A REVIEW OF ELECTRODE MATERIALS. 2012 , 07, 1230002	67
1341	A comprehensive study on KOH activation of ordered mesoporous carbons and their supercapacitor application. 2012 , 22, 93-99	299
1340	Nitrogen modification of highly porous carbon for improved supercapacitor performance. 2012 , 22, 9884	190
1339	Highly porous chemically modified carbon cryogels and their coherent nanocomposites for energy applications. 2012 , 5, 5619-5637	61
1338	Preparation of Ni Nanoparticles-TiO ₂ Nanotube Arrays Composite and Its Application for Electrochemical Capacitor. 2012 , 33, 1613-1616	9

1337	Graphene electrochemical supercapacitors: the influence of oxygen functional groups. 2012 , 48, 2770-2	56
1336	A Solid-State Reaction Route to Anchoring Ni(OH) ₂ Nanoparticles on Reduced Graphene Oxide Sheets for Supercapacitors. 2012 , 51, 9973-9979	89
1335	Surfactant-free hybridization of transition metal oxide nanoparticles with conductive graphene for high-performance supercapacitor. 2012 , 14, 371-377	72
1334	Cryogel Synthesis of Hierarchical Interconnected Macro-/Mesoporous Co ₃ O ₄ with Superb Electrochemical Energy Storage. 2012 , 116, 4930-4935	79
1333	Gel Polymer Electrolyte Based Electrical Double Layer Capacitors: Comparative Study with Multiwalled Carbon Nanotubes and Activated Carbon Electrodes. 2012 , 116, 26118-26127	105
1332	Three-dimensional hierarchical porous carbon with a bimodal pore arrangement for capacitive deionization. 2012 , 22, 23835	140
1331	Scientometric analysis of publications in the area of nanoenergy based on the materials of the peer-reviewed journal of VINITI RAS Physics of Nanoobjects and Nanotechnology. 2012 , 39, 215-219	2
1330	Silicon carbide coated silicon nanowires as robust electrode material for aqueous micro-supercapacitor. 2012 , 100, 163901	121
1329	Carbon Nanocoils as Unusual Electrode Materials for Supercapacitors. 2012 , 159, A464-A469	15
1328	Cutting and unzipping multiwalled carbon nanotubes into curved graphene nanosheets and their enhanced supercapacitor performance. 2012 , 4, 6827-34	105
1327	High pseudocapacitance of MnO ₂ nanoparticles in graphitic disordered mesoporous carbon at high scan rates. 2012 , 22, 3160	77
1326	Fabrication of hollow core carbon spheres with hierarchical nanoarchitecture for ultrahigh electrical charge storage. 2012 , 22, 19031	106
1325	Water-dispersible, sulfonated hyperbranched poly(ether-ketone) grafted multiwalled carbon nanotubes as oxygen reduction catalysts. 2012 , 6, 6345-55	48
1324	Carbon nanostructures: A morphological classification for charge density optimization. 2012 , 23, 130-134	26
1323	Encyclopedia of Nanotechnology. 2012 , 1543-1543	
1322	Dye-sensitized solar cell with a pair of carbon-based electrodes. 2012 , 45, 165103	40
1321	Design of Hierarchical Porous Carbonaceous Foams from a Dual-Template Approach and Their Use as Electrochemical Capacitor and Li Ion Battery Negative Electrodes. 2012 , 116, 1408-1421	125
1320	Functional Metal Oxide Nanostructures. 2012 ,	20

1319	Study of carbon aerogel-activated carbon composite electrodes for capacitive deionization application. 2012 , 49, 130-135	15
1318	Synthesis and characterization of pyrene bearing amphiphilic miktoarm star polymer and its noncovalent interactions with multiwalled carbon nanotubes. 2012 , 50, 2406-2414	28
1317	Carbon nanomaterials for advanced energy conversion and storage. 2012 , 8, 1130-66	1149
1316	Needle-like polyaniline nanowires on graphite nanofibers: hierarchical micro/nano-architecture for high performance supercapacitors. 2012 , 22, 5114	158
1315	Towards nano-organic chemistry: perspectives for a bottom-up approach to the synthesis of low-dimensional carbon nanostructures. 2012 , 4, 369-79	23
1314	Hierarchical Co ₃ O ₄ @Ni-Co-O supercapacitor electrodes with ultrahigh specific capacitance per area. 2012 , 5, 369-378	136
1313	Recent advances in the synthesis and application of layered double hydroxide (LDH) nanosheets. 2012 , 112, 4124-55	2233
1312	Functional Carbon Materials From Ionic Liquid Precursors. 2012 , 213, 1132-1145	91
1311	Functionalization of reduced graphene oxides by redox-active ionic liquids for energy storage. 2012	14
1310	An overview of the applications of graphene-based materials in supercapacitors. 2012 , 8, 1805-34	1082
1309	Carbonized Chicken Eggshell Membranes with 3D Architectures as High-Performance Electrode Materials for Supercapacitors. 2012 , 2, 431-437	510
1308	High Energy Density Supercapacitor Based on a Hybrid Carbon Nanotube/Reduced Graphite Oxide Architecture. 2012 , 2, 438-444	169
1307	Paper-Based Supercapacitors for Self-Powered Nanosystems. 2012 , 124, 5018-5022	109
1306	Paper-based supercapacitors for self-powered nanosystems. 2012 , 51, 4934-8	332
1305	Nitrogen-doped carbon monolith for alkaline supercapacitors and understanding nitrogen-induced redox transitions. 2012 , 18, 5345-51	317
1304	Edge-enriched, porous carbon-based, high energy density supercapacitors for hybrid electric vehicles. 2012 , 5, 535-41	55
1303	Exploring aligned-carbon-nanotubes@polyaniline arrays on household Al as supercapacitors. 2012 , 5, 888-95	33
1302	Three-dimensional hierarchically ordered porous carbons with partially graphitic nanostructures for electrochemical capacitive energy storage. 2012 , 5, 563-71	132

1301	Carbon-based electrochemical capacitors. 2012 , 5, 480-99		436
1300	Phosphate-functionalized carbon monoliths from deep eutectic solvents and their use as monolithic electrodes in supercapacitors. 2012 , 5, 1405-9		81
1299	Incorporation of manganese dioxide within ultraporous activated graphene for high-performance electrochemical capacitors. 2012 , 6, 5404-12		323
1298	Chemically derived graphene-metal oxide hybrids as electrodes for electrochemical energy storage: pre-graphenization or post-graphenization?. 2012 , 22, 13947		37
1297	Hierarchically aminated graphene honeycombs for electrochemical capacitive energy storage. 2012 , 22, 14076		239
1296	Carbon Nanotubes-Graphene-Solidlike Ionic Liquid Layer-Based Hybrid Electrode Material for High Performance Supercapacitor. 2012 , 116, 14179-14187		73
1295	Transforming collagen wastes into doped nanocarbons for sustainable energy applications. 2012 , 14, 1689		49
1294	Carbon Nanotubes Applications: Solar and Fuel Cells, Hydrogen Storage, Lithium Batteries, Supercapacitors, Nanocomposites, Gas, Pathogens, Dyes, Heavy Metals and Pesticides. 2012 , 3-46		9
1293	Modified graphene/polyaniline nanocomposites for supercapacitor application. 2012 , 20, 415-421		32
1292	Nitrogenated porous carbon electrodes for supercapacitors. 2012 , 47, 5996-6004		36
1291	Electrochemical behavior and capacitance properties of carbon xerogel/multiwalled carbon nanotubes composites. 2012 , 16, 1067-1076		12
1290	Comparison of carbon aerogel and carbide-derived carbon as electrode materials for non-aqueous supercapacitors with high performance. 2012 , 16, 2717-2722		11
1289	Electrochemical capacitance performance of polypyrrole-TiO ₂ nanotube hybrid. 2012 , 16, 2683-2689		49
1288	Electrochemical properties of Mn-doped activated carbon aerogel as electrode material for supercapacitor. 2012 , 12, 233-237		34
1287	Mn-doped activated carbon aerogel as electrode material for pseudo-capacitive supercapacitor: Effect of activation agent. 2012 , 12, 1074-1080		9
1286	A comparison between oxidation of activated carbon by electrochemical and chemical treatments. <i>Carbon</i> , 2012 , 50, 1123-1134	10.4	36
1285	Low temperature growth mechanisms of vertically aligned carbon nanofibers and nanotubes by radio frequency-plasma enhanced chemical vapor deposition. <i>Carbon</i> , 2012 , 50, 1235-1242	10.4	27
1284	Superior performance of non-activated multi-walled carbon nanotube polymer actuator containing ruthenium oxide over a single-walled carbon nanotube. <i>Carbon</i> , 2012 , 50, 1888-1896	10.4	22

1283	Electrochemical performance of carbon gels with variable surface chemistry and physics. <i>Carbon</i> , 2012 , 50, 3324-3332	10.4	42
1282	A microwave-based method for the synthesis of carbon xerogel spheres. <i>Carbon</i> , 2012 , 50, 3555-3560	10.4	16
1281	Structural evolution during annealing of thermally reduced graphene nanosheets for application in supercapacitors. <i>Carbon</i> , 2012 , 50, 3572-3584	10.4	312
1280	High-performance charge storage by N-containing nanostructured carbon derived from polyaniline. <i>Carbon</i> , 2012 , 50, 3915-3927	10.4	102
1279	One-step fabrication and capacitive behavior of electrochemical double layer capacitor electrodes using vertically-oriented graphene directly grown on metal. <i>Carbon</i> , 2012 , 50, 4379-4387	10.4	125
1278	Activated carbon xerogels for the removal of the anionic azo dyes Orange II and Chromotrope 2R by adsorption and catalytic wet peroxide oxidation. 2012 , 195-196, 112-121		73
1277	Fabrication of SnO ₂ and SiO ₂ nanoparticle-embedded carbon nanofiber composites via co-electrospinning. 2012 , 38, 3197-3201		10
1276	Surface modification of poly(2-methoxy-5-(2'-ethyl-hexyloxy)-1,4-phenylene vinylene) (MEH-PPV) by confined photo-catalytic oxidation. 2012 , 368, 663-6		3
1275	Effects of surface chemical properties of activated carbon modified by amino-fluorination for electric double-layer capacitor. 2012 , 381, 152-7		27
1274	Physical and electrochemical studies of polyphenylsilane-derived porous carbon nanofibers produced via electrospinning. 2012 , 59, 202-206		14
1273	Polystyrene-based carbon spheres as electrode for electrochemical capacitors. 2012 , 59, 424-428		25
1272	Effect of surfactants on capacitance properties of carbon electrodes. 2012 , 60, 206-212		38
1271	The evolution of electrochemical functionality of carbons derived from glucose during pyrolysis and activation. 2012 , 60, 392-400		18
1270	Porous wood carbon monolith for high-performance supercapacitors. 2012 , 60, 443-448		157
1269	Electrodeposition of carbon nanotube/carbon fabric composite using cetyltrimethylammonium bromide for high performance capacitor. 2012 , 60, 449-455		14
1268	Physical interpretation of cyclic voltammetry for measuring electric double layer capacitances. 2012 , 64, 130-139		101
1267	Synthesis of reduced graphene nanosheet/urchin-like manganese dioxide composite and high performance as supercapacitor electrode. 2012 , 69, 112-119		130
1266	The production of porous carbon from calcium lignosulfonate without activation process and the capacitive performance. 2012 , 71, 92-99		28

1265	Electropolymerization and electrochemical performance of salen-type redox polymer on different carbon supports for supercapacitors. 2012 , 76, 1-7	21
1264	Highly conductive, mesoporous carbon nanofiber web as electrode material for high-performance supercapacitors. 2012 , 75, 325-331	121
1263	Pore structure and electrochemical performances of tannin-based carbon cryogels. 2012 , 39, 274-282	54
1262	Agglomerates of amorphous carbon nanoparticles synthesized by a solution-phase method. 2012 , 66, 199-202	10
1261	Facile preparation of macroporous graphitized carbon monoliths from iron-containing resorcinol-formaldehyde gels. 2012 , 76, 1-4	30
1260	Three-dimensional bicontinuous nanoporous Au/polyaniline hybrid films for high-performance electrochemical supercapacitors. 2012 , 197, 325-329	93
1259	Nanotextured gold coatings on carbon nanofiber scaffolds as ultrahigh surface-area electrodes. 2012 , 198, 393-401	20
1258	Enhanced high-current capacitive behavior of graphene/CoAl-layered double hydroxide composites as electrode material for supercapacitors. 2012 , 199, 395-401	175
1257	The effects of surfactant template concentration on the supercapacitive behaviors of hierarchically porous carbons. 2012 , 199, 402-408	46
1256	High power supercapacitor electrodes based on flexible TiC-CDC nano-felts. 2012 , 201, 368-375	82
1255	Dual-template synthesis of Co(OH) ₂ with mesoporous nanowire structure and its application in supercapacitor. 2012 , 201, 382-386	149
1254	Highly conductive electrospun carbon nanofiber/MnO ₂ coaxial nano-cables for high energy and power density supercapacitors. 2012 , 208, 345-353	223
1253	Electrodeposition of manganese oxide from eutectic urea/choline chloride ionic liquid: An in situ study based on soft X-ray spectromicroscopy and visible reflectivity. 2012 , 211, 71-76	19
1252	Shape-alterable and -recoverable graphene/polyurethane bi-layered composite film for supercapacitor electrode. 2012 , 213, 350-357	37
1251	Atomistic models for disordered nanoporous carbons using reactive force fields. 2012 , 154, 24-37	65
1250	Structure and properties of polymethylsilsesquioxane aerogels synthesized with surfactant n-hexadecyltrimethylammonium chloride. 2012 , 158, 247-252	43
1249	Nanocrystalline diamond coating on carbon fibers produced at different temperatures: Morphological, structural and electrochemical study. 2012 , 520, 5277-5283	13
1248	Zero-dimensional, one-dimensional, two-dimensional and three-dimensional nanostructured materials for advanced electrochemical energy devices. 2012 , 57, 724-803	704

1247	Improved capacitance characteristics of activated carbon-based electrodes by physicochemical base-tuning. 2012 , 18, 642-647	14
1246	Effect of simultaneous etching and N-doping on the surface and electrochemical properties of AC. 2012 , 18, 116-122	22
1245	Polypyrrole-Derived Activated Carbons for High-Performance Electrical Double-Layer Capacitors with Ionic Liquid Electrolyte. 2012 , 22, 827-834	359
1244	Hierarchical Nanocomposites Derived from Nanocarbons and Layered Double Hydroxides - Properties, Synthesis, and Applications. 2012 , 22, 675-694	477
1243	Carbon nanocages as supercapacitor electrode materials. 2012 , 24, 347-52	441
1242	20 V stack of aqueous supercapacitors with carbon (□) titanium bipolar plates and CNT-polypyrrole composite (+). 2012 , 58, 974-983	34
1241	Development of supercapacitor active composites by electrochemical deposition of polypyrrole on carbon nanofibres. 2012 , 68, 1395-1404	9
1240	Liquid-phase synthesis and application of monolithic porous materials based on organic□horganic hybrid methylsiloxanes, crosslinked polymers and carbons. 2013 , 65, 12-22	9
1239	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
1238	Materials made of carbon nanotubes. The carbon nanotube forest. 2013 , 82, 538-566	32
1237	Original design of nitrogen-doped carbon aerogels from sustainable precursors: application as metal-free oxygen reduction catalysts. 2013 , 15, 2514	123
1236	Hierarchical composites of polyaniline-graphene nanoribbons-carbon nanotubes as electrode materials in all-solid-state supercapacitors. 2013 , 5, 7312-20	161
1235	Effects of covalent surface modifications on the electrical and electrochemical properties of graphene using sodium 4-aminoazobenzene-4?-sulfonate. <i>Carbon</i> , 2013 , 54, 310-322	10.4 54
1234	Doping carbons beyond nitrogen: an overview of advanced heteroatom doped carbons with boron, sulphur and phosphorus for energy applications. 2013 , 6, 2839	1320
1233	Dynamic electrosorption analysis: a viable liquid-phase characterization method for porous carbon?. 2013 , 1, 9332	8
1232	A new family of fluidic precursors for the self-templated synthesis of hierarchical nanoporous carbons. 2013 , 49, 7289-91	28
1231	Small Particles of Chemically-Reduced Graphene with Improved Electrochemical Capacity. 2013 , 117, 15496-15504	13
1230	Application of capacitive deionization technology to the removal of sodium chloride from aqueous solutions. 2013 , 10, 753-760	49

1229	A novel core-shell multi-walled carbon nanotube@graphene oxide nanoribbon heterostructure as a potential supercapacitor material. 2013 , 1, 11237	80
1228	Supercapacitive electrochemical performance of graphene-containing carbon aerogel prepared using polyethyleneimine-modified graphene oxide. 2013 , 13, 945-949	34
1227	Design, synthesis and the electrochemical performance of MnO ₂ /C@CNT as supercapacitor material. 2013 , 48, 3389-3393	28
1226	Graphite oxide/polypyrrole composite electrodes for achieving high energy density supercapacitors. 2013 , 43, 773-782	42
1225	An overview of carbon materials for flexible electrochemical capacitors. 2013 , 5, 8799-820	235
1224	Rational design of a high performance all solid state flexible micro-supercapacitor on paper. 2013 , 3, 15827	40
1223	Conjugated microporous polymers: design, synthesis and application. 2013 , 42, 8012-31	1242
1222	Graphene/poly(ortho-phenylenediamine) nanocomposite material for electrochemical supercapacitor. 2013 , 17, 2203-2212	37
1221	Nanocarbons for Supercapacitors. 2013 , 393-421	4
1220	Synthese von porösen Kohlenstoffmonolithen unter Verwendung von Porenbeton als Templat. 2013 , 85, 955-959	4
1219	Synthesis and pseudocapacitive investigation of LiCr _x Mn _{2-x} O ₄ cathode material for aqueous hybrid supercapacitor. 2013 , 19, 1527-1533	13
1218	Studies on electrical double layer capacitor with a low-viscosity ionic liquid 1-ethyl-3-methylimidazolium tetracyanoborate as electrolyte. 2013 , 36, 729-733	22
1217	The production of activated carbon from cation exchange resin for high-performance supercapacitor. 2013 , 17, 1749-1758	17
1216	Hybrid materials utilizing polyelectrolyte-derivatized carbon nanotubes and vanadium-mixed addenda heteropolytungstate for efficient electrochemical charging and electrocatalysis. 2013 , 17, 1631-1640 ²⁶	26
1215	High performance supercapacitor electrodes based on deoxygenated graphite oxide by ball milling. 2013 , 109, 874-880	24
1214	Excellent electrochemical performance of nitrogen-enriched hierarchical porous carbon electrodes prepared using nano-CaCO ₃ as template. 2013 , 17, 2651-2660	34
1213	Nitric acid oxidation of ordered mesoporous carbons for use in electrochemical supercapacitors. 2013 , 17, 2223-2233	29
1212	Activated carbon/graphene composites with high-rate performance as electrode materials for electrochemical capacitors. 2013 , 17, 2949-2958	30

1211	Graphene and Nanostructured Mn ₃ O ₄ Composites for Supercapacitors. 2013 , 144, 118-126	19
1210	Impedance-based study of capacitive porous carbon electrodes with hierarchical and bimodal porosity. 2013 , 241, 266-273	67
1209	Cycling characteristics of high energy density, electrochemically activated porous-carbon supercapacitor electrodes in aqueous electrolytes. 2013 , 1, 10518	25
1208	Carbon nanotubes (CNTs) enrich the solar cells. 2013 , 96, 239-252	64
1207	A High-Performance Graphene Oxide-Doped Ion Gel as Gel Polymer Electrolyte for All-Solid-State Supercapacitor Applications. 2013 , 23, 3353-3360	306
1206	Nanostructured electrodes for high-performance pseudocapacitors. 2013 , 52, 1882-9	431
1205	Preparation of nanoporous carbon microspheres by subcritical water carbonization and electrocapacitive study. 2013 , 111, 99-107	12
1204	Carbon nano-onions for supercapacitor electrodes: recent developments and applications. 2013 , 1, 13703	101
1203	Dynamic and structural properties of room-temperature ionic liquids near silica and carbon surfaces. 2013 , 29, 9744-9	55
1202	Preparation of mesoporous MgO-templated carbons from phenolic resin and their applications for electric double-layer capacitors. 2013 , 58, 992-997	8
1201	Supercapacitive property of metal-organic-frameworks with different pore dimensions and morphology. 2013 , 171, 53-57	165
1200	Easy synthesis of hierarchical carbon spheres with superior capacitive performance in supercapacitors. 2013 , 29, 12266-74	64
1199	Planar thin film supercapacitor based on cluster-assembled nanostructured carbon and ionic liquid electrolyte. <i>Carbon</i> , 2013 , 59, 212-220	10.4 44
1198	Restacking-inhibited 3D reduced graphene oxide for high performance supercapacitor electrodes. 2013 , 7, 9366-74	343
1197	High rate performance activated carbons prepared from ginkgo shells for electrochemical supercapacitors. <i>Carbon</i> , 2013 , 56, 146-154	10.4 159
1196	Preparation of graphene nanosheets/SnO ₂ composites by pre-reduction followed by in-situ reduction and their electrochemical performances. 2013 , 141, 1-8	33
1195	Vanadium oxide-carbon nanotube composite electrodes for energy storage by supercritical fluid deposition: experiment design and device performance. 2013 , 24, 315401	6
1194	Influence of reactivation on the electrochemical performances of activated carbon based on coconut shell. 2013 , 25 Suppl 1, S110-7	11

1193	The influence of self-assembly behavior of nanoparticles on the dielectric polymer composites. 2013 , 3, 112106	4
1192	Electrochemical Activity of Electrodeposited V2O5Coatings. 2013 , 160, D6-D9	37
1191	Nanostructured materials for supercapacitors. 2013 , 31, 050803	34
1190	The study of polythiophene, poly(3-methylthiophene) and poly(3,4-ethylenedioxythiophene) on pencil graphite electrode as an electrode active material for supercapacitor applications. 2013 , 184, 16-22	40
1189	Effect of deposition method and the surfactant on high capacitance of electrochemically deposited MnO2 on stainless steel substrate. 2013 , 690, 13-18	36
1188	Interfacial electrochemical analysis on LiCoO2/carbon nanotubes layers as cathode active composite in aqueous electrolytes. 2013 , 113, 77-86	13
1187	Activated carbon-carbon nanotube nanocomposite coatings for supercapacitor applications. 2013 , 232, 326-330	28
1186	Synergistic interaction between redox-active electrolyte and binder-free functionalized carbon for ultrahigh supercapacitor performance. 2013 , 4, 2923	490
1185	Role of fluorination in improvement of the electrochemical properties of activated carbon nanofiber electrodes. 2013 , 150, 98-103	19
1184	Ruthenium oxide - single walled carbon nanotube composite based high energy supercapacitor. 2013 ,	2
1183	Layered MoS2-graphene composites for supercapacitor applications with enhanced capacitive performance. 2013 , 38, 14027-14034	318
1182	Ordered mesoporous carbon nanospheres as electrode materials for high-performance supercapacitors. 2013 , 36, 66-70	74
1181	Surface functional groups of carbon nanotubes to manipulate capacitive behaviors. 2013 , 5, 12304-9	36
1180	Electrochemical fabrication of polyaniline/MnO2/graphite felt as free-standing, flexible electrode for supercapacitors. 2013 , 34, 819-824	18
1179	Tween 80 Modified Graphene with Improved Processability for the Fabrication of Supercapacitors. 2013 , 28, 1253-1259	9
1178	Effect of gold and silver nanoislands on the electrochemical properties of carbon nanofoam. 2013 , 111, 305-313	13
1177	Hydrothermal synthesis and electrochemical performance of Co3O4/reduced graphene oxide nanosheet composites for supercapacitors. 2013 , 112, 120-126	91
1176	Mesoporous N-containing carbon nanosheets towards high-performance electrochemical capacitors. <i>Carbon</i> , 2013 , 64, 141-149	10.4 76

1175	Electrochemical performance of lithium ion capacitors using aqueous electrolyte at high temperature. 2013 , 5, 021404	9
1174	Mechanical properties and interfacial analysis of aluminum matrix composites reinforced by carbon nanotubes with diverse structures. 2013 , 577, 120-124	36
1173	Microwave assisted synthesis of MnO ₂ on nickel foam-graphene for electrochemical capacitor. 2013 , 114, 48-53	44
1172	Mixture of 1-ethyl-3-methylimidazolium tetrafluoroborate and 1-ethyl-3-methylimidazolium iodide: A new potential high capacitance electrolyte for EDLCs. 2013 , 35, 5-7	23
1171	Fabrication and performance evaluation of button cell supercapacitors based on MnO ₂ nanowire/carbon nanobead electrodes. 2013 , 3, 17492	32
1170	A general approach for producing nanoporous carbon, especially as evidenced for the case of adipic acid and zinc. 2013 , 1, 14919	22
1169	Potentiodynamic deposition of composition influenced Co _{1-x} Ni _x LDHs thin film electrode for redox supercapacitors. 2013 , 38, 4046-4053	67
1168	Highly dispersed carbon nanotube/polypyrrole core/shell composites with improved electrochemical capacitive performance. 2013 , 1, 15230	58
1167	Highly ordered macroporous woody biochar with ultra-high carbon content as supercapacitor electrodes. 2013 , 113, 481-489	170
1166	Flexible asymmetric supercapacitors based on ultrathin two-dimensional nanosheets with outstanding electrochemical performance and aesthetic property. 2013 , 3, 2598	127
1165	One-step electrochemical synthesis of 6-amino-4-hydroxy-2-naphthalene-sulfonic acid functionalized graphene for green energy storage electrode materials. 2013 , 24, 365706	30
1164	Poly(thieno[3,4-b][1,4]dioxine) and poly([1,4]dioxino[2,3-c]pyrrole) derivatives: p- and n-dopable redox-active electrode materials for solid state supercapacitor applications. 2013 , 14, 3249-3259	20
1163	Rheological phase synthesis and electrochemical performance of Co ₃ O ₄ for supercapacitors. 2013 , 49, 1053-1056	0
1162	Carbon nanomaterials for high-performance supercapacitors. 2013 , 16, 272-280	476
1161	Towards ultrahigh volumetric capacitance: graphene derived highly dense but porous carbons for supercapacitors. 2013 , 3, 2975	467
1160	Microwave-assisted ionothermal synthesis of nanostructured anatase titanium dioxide/activated carbon composite as electrode material for capacitive deionization. 2013 , 96, 173-179	70
1159	Easy synthesis of honeycomb hierarchical porous carbon and its capacitive performance. 2013 , 227, 118-122	27
1158	Polyvinyl alcohol (PVA)/cellulose nanofibril (CNF)/multiwalled carbon nanotube (MWCNT) hybrid organic aerogels with superior mechanical properties. 2013 , 3, 20816	66

1157	Design and synthesis of NiO nanoflakes/graphene nanocomposite as high performance electrodes of pseudocapacitor. 2013 , 3, 19409	49
1156	Improvement of electric double-layer capacitance of ordered mesoporous carbon CMK-3 by partial graphitization using metal oxide catalysts. 2013 , 179, 136-143	27
1155	In situ SAXS investigation of structural changes in soft resorcinol-formaldehyde polymer gels during CO ₂ -drying. 2013 , 75, 112-119	10
1154	Solvent-based preferential deposition of functionalized carbon nanotubes on substrates. 2013 , 114, 074301	4
1153	Influence of pore structures on the electrochemical performance of asphaltene-based ordered mesoporous carbons. 2013 , 174, 67-73	28
1152	Manganese oxide/graphene oxide composites for high-energy aqueous asymmetric electrochemical capacitors. 2013 , 110, 228-233	77
1151	Green Carbon. 2013 , 1-36	
1150	Electrochemical and structural characteristics of activated carbon-based electrodes modified via phosphoric acid. 2013 , 172, 131-135	34
1149	Production of carbon nanostructures under stationary quasi-equilibrium condensation during magnetron sputtering. 2013 , 56, 736-740	0
1148	Synthesis of highly crystalline sp ² -bonded boron nitride aerogels. 2013 , 7, 8540-6	79
1147	Superior capacitive and electrocatalytic properties of carbonized nanostructured polyaniline upon a low-temperature hydrothermal treatment. <i>Carbon</i> , 2013 , 64, 472-486	10.4 62
1146	High-volumetric performance aligned nano-porous microwave exfoliated graphite oxide-based electrochemical capacitors. 2013 , 25, 4879-85	97
1145	Porous Carbons from Nonporous MOFs: Influence of Ligand Characteristics on Intrinsic Properties of End Carbon. 2013 , 13, 4195-4199	124
1144	Sulfur-infiltrated micro- and mesoporous silicon carbide-derived carbon cathode for high-performance lithium sulfur batteries. 2013 , 25, 4573-9	284
1143	A perspective: carbon nanotube macro-films for energy storage. 2013 , 6, 3183-3201	153
1142	Flexible and high surface area composites of carbon fiber, polypyrrole, and poly(DMCT) for supercapacitor electrodes. 2013 , 93, 93-100	52
1141	Hydrothermal synthesis of reduced graphene sheets/Fe ₂ O ₃ nanorods composites and their enhanced electrochemical performance for supercapacitors. 2013 , 20, 46-53	59
1140	Electronics and Structural Properties of Single-Walled Carbon Nanotubes Interacting with a Glucose Molecule: ab initio Calculations. 2013 , 60, 341-347	4

1139	High-performance supercapacitor electrodes based on graphene achieved by thermal treatment with the aid of nitric acid. 2013 , 5, 9656-62	78
1138	Carbonisation of resorcinol-formaldehyde organic xerogels: Effect of temperature, particle size and heating rate on the porosity of carbon xerogels. 2013 , 100, 111-116	48
1137	High capacitive performance of flexible and binder-free graphene-polypyrrole composite membrane based on in situ reduction of graphene oxide and self-assembly. 2013 , 5, 9860-6	82
1136	High-performance symmetric electrochemical capacitor based on graphene foam and nanostructured manganese oxide. 2013 , 3, 082118	73
1135	Moderating black powder chemistry for the synthesis of doped and highly porous graphene nanoplatelets and their use in electrocatalysis. 2013 , 25, 6284-90	209
1134	Synthesis of carbon nano-onion and nickel hydroxide/oxide composites as supercapacitor electrodes. 2013 , 3, 25891	48
1133	Nitrogen-enriched carbon electrodes in electrochemical capacitors: investigating accessible porosity using CM-SANS. 2013 , 15, 16774-8	17
1132	Facile treatment of wastewater produced in Hummer's method to prepare Mn ₃ O ₄ nanoparticles and study their electrochemical performance in an asymmetric supercapacitor. 2013 , 3, 2398	32
1131	Ultrahigh-performance nonaqueous electric double-layer capacitors using an activated carbon composite electrode with alginate. 2013 , 3, 1037-1040	23
1130	Neutron imaging of ion transport in mesoporous carbon materials. 2013 , 15, 11740-7	14
1129	Biomimetic Conducting Polymers: Synthesis, Materials, Properties, Functions, and Devices. 2013 , 53, 311-351	102
1128	Novel metal(II) coordination polymers based on N,N'-bis-(4-pyridyl)phthalamide as supercapacitor electrode materials in an aqueous electrolyte. 2013 , 42, 1603-11	78
1127	Tuning the porous texture and specific surface area of nanoporous carbons for supercapacitor electrodes by adjusting the hydrothermal synthesis temperature. 2013 , 1, 12962	33
1126	Synthesis of hydrophilic carbon black; role of hydrophilicity in maintaining the hydration level and protonic conduction. 2013 , 3, 3917	27
1125	Architectural design of hierarchically ordered porous carbons for high-rate electrochemical capacitors. 2013 , 1, 2886	65
1124	Self-assembled three-dimensional graphene/OMCs hybrid aerogels for high-rate supercapacitive energy storage. 2013 , 3, 25317	7
1123	Synthesis and electrochemical performance of polyaniline/MnO ₂ nanowire composites for supercapacitors. 2013 , 74, 360-365	67
1122	Microstructure and surface properties of lignocellulosic-based activated carbons. 2013 , 265, 731-737	62

1121	High performance supercapacitor electrode based on graphene paper via flame-induced reduction of graphene oxide paper. 2013 , 222, 52-58		158
1120	Graphene-beaded carbon nanofibers for use in supercapacitor electrodes: Synthesis and electrochemical characterization. 2013 , 222, 410-416		145
1119	A high-capacity carbon prepared from renewable chicken feather biopolymer for supercapacitors. 2013 , 225, 101-107		161
1118	Electrochemical deposition of nanostructured manganese oxide on hierarchically porous graphene/carbon nanotube structure for ultrahigh-performance electrochemical capacitors. 2013 , 225, 347-355		65
1117	The effects of electrolyte on the supercapacitive performance of activated calcium carbide-derived carbon. 2013 , 226, 202-209		109
1116	A New Partially Reduced Graphene Oxide Nanosheet/Polyaniline Nanowafer Hybrid as Supercapacitor Electrode Material. 2013 , 27, 568-575		110
1115	Nanostructured carbon-metal oxide composite electrodes for supercapacitors: a review. 2013 , 5, 72-88		1608
1114	Functionalized carbon onions, detonation nanodiamond and mesoporous carbon as cathodes in Li-ion electrochemical energy storage devices. <i>Carbon</i> , 2013 , 53, 292-301	10.4	93
1113	Preparation and one-step activation of microporous carbon nanofibers for use as supercapacitor electrodes. <i>Carbon</i> , 2013 , 51, 290-300	10.4	155
1112	Designing conducting polymer films for electrochemical energy storage technologies. 2013 , 3, 1957-1964		30
1111	Influence of the electrochemical reduction process on the performance of graphene-based capacitors. <i>Carbon</i> , 2013 , 51, 94-101	10.4	47
1110	Investigation of polyaniline films doped with Ni ²⁺ as the electrode material for electrochemical supercapacitors. 2013 , 90, 393-399		31
1109	Bacterial cellulose as source for activated nanosized carbon for electric double layer capacitors. 2013 , 48, 367-376		42
1108	On the importance of the structure in the electrical conductivity of fishbone carbon nanofibers. 2013 , 48, 1423-1435		23
1107	Investigations on copper chloride doped polyaniline composites as efficient electrode materials for supercapacitor applications. 2013 , 24, 576-585		37
1106	Electrochemical impedance spectroscopy on nanostructured carbon electrodes grown by supersonic cluster beam deposition. 2013 , 15, 1		12
1105	Nitrogen-doped porous carbon for supercapacitor with long-term electrochemical stability. 2013 , 230, 50-58		233
1104	Electrochemical synthesis of layer-by-layer reduced graphene oxide sheets/polyaniline nanofibers composite and its electrochemical performance. 2013 , 91, 185-194		128

1103	Spectroscopic investigations of sequential nitric acid treatments on granulated activated carbon: Effects of surface oxygen groups on density. <i>Carbon</i> , 2013 , 57, 174-183	10.4	33
1102	The electrochemical properties of nanocomposite films obtained by chemical in situ polymerization of aniline and carbon nanostructures. 2013 , 14, 116-24		25
1101	Sculpture preparation of crystalline mesoporous carbons from nanoshell-containing carbon. <i>Carbon</i> , 2013 , 61, 537-542	10.4	3
1100	Performance of an Electrochemical double layer capacitor based on coconut shell active material and ionic liquid as an electrolyte. 2013 , 228, 83-88		32
1099	Photochemical reaction between diphenylamine and 1,1,1-tribromoethane and photo-induced pattern formation. 2013 , 98, 323-326		2
1098	Facile preparation of mesoporous carbons for supercapacitors by one-step microwave-assisted ZnCl ₂ activation. 2013 , 94, 158-160		38
1097	Electrochemical performance of supercapacitors with KOH activated mesophase carbon microbead electrodes. 2013 , 44, 611-616		16
1096	Effects of CO ₂ activation on electrochemical performance of microporous carbons derived from poly(vinylidene fluoride). 2013 , 207, 158-162		18
1095	Performance characteristics of supercapacitor electrodes made of silicon carbide nanowires grown on carbon fabric. 2013 , 243, 648-653		73
1094	Enhanced capacitive behavior of carbon aerogels/reduced graphene oxide composite film for supercapacitors. 2013 , 247-248, 66-70		8
1093	Supercapacitive properties of activated carbon electrode in organic electrolytes containing single- and double-cationic liquid salts. 2013 , 89, 807-813		28
1092	Gel-Based Activated Carbon Electrode For Supercapacitors. 2013 , 50, 53-58		1
1091	Carbon Nanomaterials for Flexible Energy Storage. 2013 , 1, 175-192		34
1090	Microstructural and Morphological Effects on Charge Storage Properties in MnO ₂ -Carbon Nanofibers Based Supercapacitors. 2013 , 160, A2315-A2321		26
1089	Electrochemical and electromechanical properties of high-performance polymer actuators containing vapor grown carbon nanofiber and metal oxide. 2013 , 176, 1065-1073		10
1088	Effects of solvent on the morphology of nanostructured Co ₃ O ₄ and its application for high-performance supercapacitors. 2013 , 112, 378-385		86
1087	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
1086	Ethanol-based synthesis of hierarchically porous carbon using nanocrystalline beta zeolite template for high-rate electrical double layer capacitor. <i>Carbon</i> , 2013 , 60, 175-185	10.4	51

1085	Monitoring surface ion mobility on aluminum oxide: Effect of chemical pretreatments. 2013 , 110, 526-533	7
1084	Dual-cell reduction and group effect in an internal microelectrolysis reactor. 2013 , 89, 861-867	7
1083	Enhancing the capacitance of TiO ₂ nanotube arrays by a facile cathodic reduction process. 2013 , 239, 128-131	77
1082	Comparison of electrochemical and electromechanical properties of a high performance carbon black polymer actuator and a single-walled carbon nanotube polymer actuator. 2013 , 176, 1103-1109	5
1081	Hybrid supercapacitor materials from poly(3,4-ethylenedioxythiophene) conformally coated aligned carbon nanotubes. 2013 , 112, 522-528	35
1080	Sustainable synthesis of phosphorus- and nitrogen-co-doped porous carbons with tunable surface properties for supercapacitors. 2013 , 239, 81-88	137
1079	Flexible energy storage devices based on carbon nanotube forests with built-in metal electrodes. 2013 , 195, 224-230	22
1078	Preparation of activated carbon from <i>Turbinaria turbinata</i> seaweeds and its use as supercapacitor electrode materials. 2013 , 16, 73-79	21
1077	One-step electrophoretic deposition of reduced graphene oxide and Ni(OH) ₂ composite films for controlled syntheses supercapacitor electrodes. 2013 , 117, 1616-27	168
1076	In Situ Synthesis of Graphene/Amine-Modified Graphene, Polypyrrole Composites in Presence of SrTiO ₃ for Supercapacitor Applications. 2013 , 52, 213-220	18
1075	Supercapacitors: Review of Materials and Fabrication Methods. 2013 , 139, 72-79	307
1074	Microporous carbon nanoplates from regenerated silk proteins for supercapacitors. 2013 , 25, 1993-8	421
1073	Solvothermal synthesis of SnO ₂ /graphene nanocomposites for supercapacitor application. 2013 , 39, 6647-6655	127
1072	Electroanalysis using modified hierarchical nanoporous carbon materials. 2013 , 164, 147-73	11
1071	The role of band structure in electron transfer kinetics in low-dimensional carbon. 2013 , 44, 226-230	13
1070	Unusual electrochemical behavior of Ru ₂ Ir binary oxide-based aqueous symmetric supercapacitors in KOH solution. 2013 , 88, 654-658	12
1069	Electrical Double-Layer Capacitors and Carbons for EDLCs. 2013 , 131-165	23
1068	Electrode Materials with Pseudocapacitive Properties. 2013 , 207-237	18

1067	General Properties of Electrochemical Capacitors. 2013 , 69-109	26
1066	Ultra-high dielectric constant composites based on the oleic acid modified ferroferric oxide nanoparticles and polyvinylidene fluoride. 2013 , 102, 092904	21
1065	Ethylene glycol reduced graphene oxide/polypyrrole composite for supercapacitor. 2013 , 88, 519-525	167
1064	A comparative study of electrosorption selectivity of ions by activated carbon electrodes in capacitive deionization. 2013 , 314, 124-129	186
1063	Post-synthetic functionalization of mesoporous carbon electrodes with copper oxide nanoparticles for supercapacitor application. 2013 , 172, 77-86	40
1062	Synthesis of ultrathin nitrogen-doped graphitic carbon nanocages as advanced electrode materials for supercapacitor. 2013 , 5, 2241-8	282
1061	Comparison of the electrochemical properties of thin films of MWCNTs/C60-Pd, SWCNTs/C60-Pd and ox-CNOs/C60-Pd. 2013 , 96, 274-284	30
1060	Effect of sheet morphology on the scalability of graphene-based ultracapacitors. 2013 , 7, 1464-71	446
1059	A Computational Study of the Interfacial Structure and Capacitance of Graphene in [BMIM][PF6] Ionic Liquid. 2013 , 160, A1-A10	166
1058	Scaleable ultra-thin and high power density graphene electrochemical capacitor electrodes manufactured by aqueous exfoliation and spray deposition. <i>Carbon</i> , 2013 , 52, 337-346	10.4 45
1057	Nanomaterials for energy conversion and storage. 2013 , 42, 3127-71	1188
1056	From dead leaves to high energy density supercapacitors. 2013 , 6, 1249	678
1055	Voltage dependence of carbon-based supercapacitors for pseudocapacitance quantification. 2013 , 95, 225-229	29
1054	Asymmetric hybrid capacitors based on activated carbon and activated carbon fibre/BANI electrodes. 2013 , 89, 326-333	82
1053	The effects of surface modification on the supercapacitive behaviors of novel mesoporous carbon derived from rod-like hydroxyapatite template. 2013 , 89, 400-406	81
1052	Preparation of activated carbon aerogels with hierarchically porous structures for electrical double layer capacitors. 2013 , 89, 571-576	65
1051	Enhanced supercapacitor performance of N-doped mesoporous carbons prepared from a gelatin biomolecule. 2013 , 14, 1563-9	40
1050	Scalable high-power redox capacitors with aligned nanoforests of crystalline MnO ₂ nanorods by high voltage electrophoretic deposition. 2013 , 7, 2114-25	78

1049	Clean Energy. 2013 , 19, 279-383	9
1048	Carbon nanotubes coated with a nitrogen-doped carbon layer and its enhanced electrochemical capacitance. 2013 , 1, 7222	42
1047	Solid-state, flexible, high strength paper-based supercapacitors. 2013 , 1, 5835	62
1046	Capacitive behavior of mesoporous manganese dioxide on indium tin oxide nanowires. 2013 , 2, 933-942	27
1045	A pyrrolidinium nitrate protic ionic liquid-based electrolyte for very low-temperature electrical double-layer capacitors. 2013 , 15, 6539-48	61
1044	Reactive template-induced self-assembly to ordered mesoporous polymeric and carbonaceous materials. 2013 , 7, 1748-54	65
1043	Electrochemical behavior of luteolin and its detection based on macroporous carbon modified glassy carbon electrode. 2013 , 5, 3365	30
1042	Large-scale production of nanographene sheets with a controlled mesoporous architecture as high-performance electrochemical electrode materials. 2013 , 6, 1084-90	46
1041	Ordered hierarchical mesoporous/microporous carbon with optimized pore structure for supercapacitors. 2013 , 1, 1192-1200	58
1040	Novel glycerol assisted synthesis of polypyrrole nanospheres and its electrochemical properties. 2013 , 168, 9-15	23
1039	Nitrogen-doped porous carbons by conversion of azo dyes especially in the case of tartrazine. 2013 , 242, 41-49	21
1038	Solid-state supercapacitors with ionic liquid based gel polymer electrolyte: Effect of lithium salt addition. 2013 , 243, 211-218	53
1037	Self-discharge of electrochemical double layer capacitors. 2013 , 15, 8692-9	91
1036	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
1035	Maricite (NaMn _{1/3} Ni _{1/3} Co _{1/3} PO ₄)/Activated Carbon: Hybrid Capacitor. 2013 , 27, 3516-3522	60
1034	Use of Carbon Materials. 2013 , 591-630	
1033	Carbon/carbon supercapacitors. 2013 , 22, 226-240	220
1032	Important roles of graphene edges in carbon-based energy storage devices. 2013 , 22, 183-194	30

1031	Hydrothermal carbons from hemicellulose-derived aqueous hydrolysis products as electrode materials for supercapacitors. 2013 , 6, 374-82	138
1030	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
1029	Important parameters affecting the cell voltage of aqueous electrical double-layer capacitors. 2013 , 242, 289-298	60
1028	Carbonaceous nickel oxide nano-composites: As electrode materials in electrochemical capacitor applications. 2013 , 237, 156-166	33
1027	Conducting polymers-based electrochemical supercapacitors Progress and prospects. 2013 , 101, 109-129	311
1026	Self-deployable current sources fabricated from edible materials. 2013 , 1, 3781-3788	91
1025	A direct and quantitative three-dimensional reconstruction of the internal structure of disordered mesoporous carbon with tailored pore size. 2013 , 19, 745-50	8
1024	Hierarchical porous nickel oxide-carbon nanotubes as advanced pseudocapacitor materials for supercapacitors. 2013 , 561-562, 68-73	35
1023	Sulfur-containing activated carbons with greatly reduced content of bottle neck pores for double-layer capacitors: a case study for pseudocapacitance detection. 2013 , 6, 2465	262
1022	Hydrothermal synthesis of carbon nanotube/cubic Fe ₃ O ₄ nanocomposite for enhanced performance supercapacitor electrode material. 2013 , 178, 736-743	156
1021	A nitrogen-doped ordered mesoporous carbon nanofiber array for supercapacitors. 2013 , 1, 8488	116
1020	Polymer brush stabilized amorphous MnO ₂ on graphene oxide sheets as novel electrode materials for high performance supercapacitors. 2013 , 1, 8587	22
1019	Chemical adsorption of NiO nanostructures on nickel foam-graphene for supercapacitor applications. 2013 , 48, 6707-6712	88
1018	Electrospun polyaniline nanofibers web electrodes for supercapacitors. 2013 , 129, 1660-1668	111
1017	An electrochemical route to quantitative oxidation of graphene frameworks with controllable C/O ratios and added pseudocapacitances. 2013 , 19, 10716-22	88
1016	A new conducting salt for high voltage propylene carbonate-based electrochemical double layer capacitors. 2013 , 110, 221-227	49
1015	Microwave assisted green synthesis of MgO-carbon nanotube composites as electrode material for high power and energy density supercapacitors. 2013 , 1, 4105	43
1014	Carbon nanofibers grafted on activated carbon as an electrode in high-power supercapacitors. 2013 , 6, 1516-22	25

1013	Energetic contribution to hydration shells in one-dimensional aqueous electrolyte solution by anomalous hydrogen bonds. 2013 , 15, 5658-63	12
1012	Carbon-Based Nanomaterials for Electrochemical Energy Storage. 2013 , 299-326	
1011	Sandwich-Type Microporous Carbon Nanosheets for Enhanced Supercapacitor Performance. 2013 , 3, 1421-1427	130
1010	Mesoporous ITO/NiO with a core/shell structure for supercapacitors. 2013 , 2, 1303-1313	35
1009	Polyaniline modified graphene and carbon nanotube composite electrode for asymmetric supercapacitors of high energy density. 2013 , 241, 423-428	152
1008	Solvothermal one-step synthesis of Ni-Al layered double hydroxide/carbon nanotube/reduced graphene oxide sheet ternary nanocomposite with ultrahigh capacitance for supercapacitors. 2013 , 5, 5443-54	212
1007	Using hydroxylamine as a reducer to prepare N-doped graphene hydrogels used in high-performance energy storage. 2013 , 238, 492-500	93
1006	Interconnected carbon nanosheets derived from hemp for ultrafast supercapacitors with high energy. 2013 , 7, 5131-41	760
1005	Advanced porous carbon electrodes for electrochemical capacitors. 2013 , 1, 9395	141
1004	Ultramicroporous carbon as electrode material for supercapacitors. 2013 , 228, 193-197	81
1003	Nitrogen-containing porous carbons: synthesis and application. 2013 , 1, 999-1013	527
1002	Nickel-Doped Activated Mesoporous Carbon Microspheres with Partially Graphitic Structure for Supercapacitors. 2013 , 27, 1168-1173	140
1001	Carbon nanoparticle ionic liquid functionalized activated carbon hybrid electrode for efficiency enhancement in supercapacitors. 2013 , 37, 886	20
1000	Highly uniform deposition of MoO ₃ nanodots on multiwalled carbon nanotubes for improved performance of supercapacitors. 2013 , 235, 187-192	58
999	A high-energy-density micro supercapacitor of asymmetric MnO ₂ /carbon configuration by using micro-fabrication technologies. 2013 , 234, 302-309	108
998	Electrochemically-deposited nanostructured Co(OH) ₂ flakes on three-dimensional ordered nickel/silicon microchannel plates for miniature supercapacitors. 2013 , 1, 532-540	68
997	The production of hydrochar-based hierarchical porous carbons for use as electrochemical supercapacitor electrode materials. 2013 , 423, 104-111	71
996	Solvated graphenes: an emerging class of functional soft materials. 2013 , 25, 13-30	192

995	A novel route towards high quality fullerene-pillared graphene. <i>Carbon</i> , 2013 , 61, 313-320	10.4	22
994	The preparation and characterization graphene-cross-linked phenol/formaldehyde hybrid carbon xerogels. 2013 , 67, 304-311		18
993	Capacitive performance of binder-free carbon/carbon composite cryogels. 2013 , 165, 228-233		13
992	Activated high specific surface area carbon aerogels for EDLCs. 2013 , 167, 176-181		81
991	The role of plasma treatment on electrochemical capacitance of undoped and nitrogen doped carbon nanotubes. 2013 , 2, 71-81		3
990	Preparation and characterization of Li ₄ Ti ₅ O ₁₂ synthesized using hydrogen titanate nanowire for hybrid super capacitor. 2013 , 2, 285-290		6
989	Synthesis, Properties and Potential Applications of Porous Graphene: A Review. 2013 , 5, 260-273		74
988	Eco-friendly water-borne conducting polyaniline. 2013 , 31, 853-869		9
987	Investigations of electrochemical double layer capacitor (EDLC) materials by comparison of test methods. 2013 , 44, 641-649		19
986	Activated carbons derived from coconut shells as high energy density cathode material for Li-ion capacitors. 2013 , 3, 3002		195
985	Nanocomposite for methanol oxidation: synthesis and characterization of cubic Pt nanoparticles on graphene sheets. 2013 , 14, 035001		26
984	Hierarchical porous carbon microspheres derived from porous starch for use in high-rate electrochemical double-layer capacitors. 2013 , 139, 406-9		58
983	Enhanced electrical capacitance of porous carbon nanofibers derived from polyacrylonitrile and boron trioxide. 2013 , 88, 597-603		30
982	Functional composition and super-capacitor properties of graphite oxide reduced with hot sulfuric acid. 2013 , 250, 2747-2752		15
981	The dopant concentration profiles in PPy/DDS/Cl and PPy/Cl/DDS bilayers. 2013 , 181, 123-128		1
980	Preparation and electrochemical behaviors of styrene/acrylonitrile-based porous carbon electrodes. 2013 , 113, 23-28		7
979	Electronic properties of pristine and modified single-walled carbon nanotubes. 2013 , 56, 1047-1073		27
978	Facile synthesis of meso/macroporous dual materials with ordered mesopores using highly concentrated emulsions based on a cubic liquid crystal. 2013 , 29, 432-40		19

977	Hydrothermal synthesis of simonkolleite microplatelets on nickel foam-graphene for electrochemical supercapacitors. 2013 , 17, 2879-2886	24
976	Graphene as a Target for Polymer Synthesis. 2013 , 61-92	11
975	Flexible high performance wet-spun graphene fiber supercapacitors. 2013 , 3, 23957	137
974	Natural, cheap and environmentally friendly binder for supercapacitors. 2013 , 221, 14-20	69
973	A novel method to produce a hierarchical porous carbon as a conductive support of PtRu particles. Effect on CO and methanol electrooxidation. 2013 , 221, 42-48	16
972	Controlled Self-Assembly of Functionalized Carbon Nanotubes on Silicon Substrates. 2013 ,	
971	Graphene/Polypyrrole Nanocomposite as Electrochemical Supercapacitor Electrode: Electrochemical Impedance Studies. 2013 , 02, 81-87	59
970	Pulse plating of platinum on aligned multiwalled carbon nanotubes. 2013 , 29, 427-433	6
969	Visualization of Two-Dimensional Excitation Temperatures in CH ₄ /N ₂ /Ar Plasmas for Preparation of Carbonaceous Materials. 2013 , 135,	2
968	A Low Temperature Inorganic Molten Salt Supercapacitor. 2013 , 53, 27-33	
967	Nanostructured Materials for Energy-Related Applications. 2013 , 1013-1038	
966	Multilayer Polyoxometalates-Carbon Nanotube Composites for Electrochemical Capacitors. 2013 , 2, M3046-M3050	36
965	Flexible and weaveable capacitor wire based on a carbon nanocomposite fiber. 2013 , 25, 5965-70	401
964	Development of High Performance Electrochemical Capacitor: A Systematic Review of Electrode Fabrication Technique Based on Different Carbon Materials. 2013 , 2, M3101-M3119	38
963	Nickel-cobalt oxide coated CNTs as additives of activated carbon electrode for high-performance supercapacitors. 2013 ,	
962	Tailoring the efficiency of 3D wire-shaped photovoltaic cells (WPVCs) by functionalization of solid-liquid interfacial properties. 2013 , 210, 2535-2541	4
961	High Power Density Supercapacitors Based on the Carbon Dioxide Activated D-Glucose Derived Carbon Electrodes and Acetonitrile Electrolyte. 2013 , 160, A1834-A1841	41
960	Evaluation of Double-Layer and Redox Capacitances of Activated Carbon Electrodes in N-Ethyl-N-methylpyrrolidinium Fluorohydrogenate Ionic Liquid. 2013 , 160, A734-A738	15

959	Activated Carbons from Orange Peel Waste as Supercapacitor Electrodes. 2013 , 53, 9-13	4
958	Carbon Materials and Their Energy Conversion and Storage Applications. 2013 , 59-94	2
957	Green Carbon Nanomaterials. 2013 , 7-58	
956	Large Electrocaloric Effect in a Dielectric Liquid Possessing a Large Dielectric Anisotropy Near the Isotropic-Nematic Transition. 2013 , 23, 2894-2898	30
955	Nanostrukturierte Elektroden für Hochleistungs-Pseudokondensatoren. 2013 , 125, 1932-1940	24
954	Effects of Parameters for Preparing Carbon Nanotubes on the Capacitances of Manganese-Cobalt-Zinc Oxide/Carbon Nanotube Electrodes. 2013 , 81, 239-245	
953	Application of Chitosan-based Gel Electrolytes with Ionic Liquids for High-Performance and Safe Electric Double Layer Capacitors. 2013 , 81, 867-872	9
952	PREPARATION OF CONDUCTING CARBON FROM RICE HUSK CHAR. 2013 , 43, 29-32	1
951	Optimization of Mesoporous Activated Carbon from Coconut Shells by Chemical Activation with Phosphoric Acid. 2013 , 8,	10
950	. 2013 ,	34
949	The Future of Energy Storage Systems. 2013 ,	0
948	Inorganic Nanostructures Decorated Graphene. 2013 ,	1
947	Effect of activation methods on the surface properties of carbonized biomass derived from fluted pumpkin stem (<i>Telfairia occidentalis</i> Hook F) waste. 2014 , 7, 1777	
946	Textural and Chemical Properties of Activated Carbon Prepared from Tropical Peat Soil by Chemical Activation Method. 2014 , 10,	10
945	Improvement in electrochemical capacitance of activated carbon from scrap tires by nitric acid treatment. 2014 , 8, 391-398	6
944	Freestanding MoO ₃ /nanobelt/carbon nanotube films for Li-ion intercalation pseudocapacitors. 2014 , 9, 355-363	125
943	Applications of Aerogels and Their Composites in Energy-Related Technologies. 2014 , 157-180	7
942	Electrodeposition of a MnCuZnO Hybrid Material for Supercapacitors: A Soft X-ray Fluorescence and Absorption Microspectroscopy Study. 2014 , 1, 392-399	3

941	The hydrate shell of a Cl ⁻ ion in a planar nanopore, structure. 2014 , 50, 1118-1126	19
940	Binder-free activated carbon papers for high-performance electric double-layer capacitors. 2014 , 18, 2797-2802	6
939	Synthesis of boron, nitrogen co-doped porous carbon from asphaltene for high-performance supercapacitors. 2014 , 23, 086101	4
938	Control of sleep-to-wake transitions via fast aminoacid and slow neuropeptide transmission. 2014 , 16,	13
937	SIM.M.F-S1: Testing machine calibration in compression SIM comparison up to 100 kN. 2014 , 51, 07001-07001	
936	Influence of Modification on the Electrochemical Properties and Thermal Oxidation Stability of Carbon Fibers. 2014 , 46, 178-183	3
935	In-situ and ex-situ measurements of thermal conductivity of supercapacitors. 2014 , 78, 373-383	14
934	Three-dimensional nanoscale Co ₃ O ₄ electrode on ordered Ni/Si microchannel plates for electrochemical supercapacitors. 2014 , 132, 405-408	11
933	A Corrugated Graphene/Carbon Nanotube Composite as Electrode Material. 2014 , 04, 1441019	10
932	Polyaniline- and poly(ethylenedioxythiophene)-cellulose nanocomposite electrodes for supercapacitors. 2014 , 18, 3307-3315	22
931	Study on modeling and application of ultracapacitor. 2014 ,	1
930	MnOx/carbon nanotube/reduced graphene oxide nanohybrids as high-performance supercapacitor electrodes. 2014 , 6, e140-e140	46
929	Hierarchical activated mesoporous phenolic-resin-based carbons for supercapacitors. 2014 , 9, 2789-97	20
928	All-Carbon Electrode Consisting of Carbon Nanotubes on Graphite Foil for Flexible Electrochemical Applications. 2014 , 7, 1975-1983	12
927	Liquid Phase Plasma Synthesis of Iron Oxide/Carbon Composite as Dielectric Material for Capacitor. 2014 , 2014, 1-6	6
926	Fabrication of Ultrafine Carbon Fibers Possessing a Nanoporous Structure from Electrospun Polyvinyl Alcohol Fibers Containing Silica Nanoparticles. 2014 , 2014, 1-6	3
925	Research on multifunction electric power platform for heavy equipment based on ultracapacitor technology. 2014 ,	
924	Morphology Effects on the Supercapacitive Electrochemical Performances of Iron Oxide/Reduced Graphene Oxide Nanocomposites. 2014 , 1, 747-754	21

923	Poly(ϵ -caprolactone)-based polymer electrolyte for electrical double-layer capacitors. 2014 , 26, 637-640	35
922	Capacitance Enhancement of Activated Carbon Modified in the Propylene Carbonate Electrolyte. 2014 , 161, A1828-A1835	12
921	Carbon nanotube supercellulose supercapacitor. 2014 ,	1
920	Facile synthesis of reduced graphene oxide-modified, nitrogen-doped carbon xerogel with enhanced electrochemical capacitance. 2014 , 148, 1171-1177	6
919	Three-dimensional graphitized carbon nanovesicles for high-performance supercapacitors based on ionic liquids. 2014 , 7, 777-84	24
918	Electrochemical role of oxygen containing functional groups on activated carbon electrode. 2014 , 4, 62678-62683	14
917	Carbon-nanotube-modified electrodes for highly efficient acute neural recording. 2014 , 3, 245-52	19
916	Encyclopedia of Polymeric Nanomaterials. 2014 , 1-9	
915	Preparation of well-controlled porous carbon nanofiber materials by varying the compatibility of polymer blends. 2014 , 63, 1471-1477	43
914	Excellent capacitive performance of a three-dimensional hierarchical porous graphene/carbon composite with a superhigh surface area. 2014 , 20, 13314-20	52
913	Synthesis of polypyrrole/titanium dioxide brush-like nanocomposites with enhanced supercapacitive performance. 2014 , 4, 63719-63724	15
912	A hierarchical porous carbon membrane from polyacrylonitrile/polyvinylpyrrolidone blending membranes: Preparation, characterization and electrochemical capacitive performance. 2014 , 23, 684-693	32
911	Ionic liquid directed assembly of wrinkled and porous composite electrode for high-power flexible supercapacitors. 2014 , 4, 65012-65020	7
910	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
909	Chaotic and periodic vibration of a carbon nanotube supported by nonlinear foundation. 2014 ,	3
908	Fluorine-doped Fe(2)O(3) as high energy density electroactive material for hybrid supercapacitor applications. 2014 , 9, 852-7	85
907	Supercapacitor Behavior of Poly(Carbazole-EDOT) Derivatives/Multi-Walled Carbon Nanotubes, Characterizations and Equivalent Circuit Model Evaluations. 2014 , 53, 1070-1081	8
906	Hierarchically porous carbon with manganese oxides as highly efficient electrode for asymmetric supercapacitors. 2014 , 7, 841-7	61

905	Preparation of Orange Peel Based Activated Carbons as Cathodes in Lithium Ion Capacitors. 2014 , 896, 95-99	3
904	Macroporous silicon for high-capacitance devices using metal electrodes. 2014 , 9, 473	6
903	Self-Discharge and Microstructure of Supercapacitors Tested at Room Temperature and at 333 K. 2014 , 802, 427-432	1
902	Electric Double Layer Capacitor of Multiwall Carbon Nanotubes under Different Degree of Acid Oxidations. 2014 , 802, 186-191	
901	Effects of preparation temperature on electrochemical performance of nitrogen-enriched carbons. 2014 , 24, 3541-3550	5
900	Supercapacitors specialities - Materials review. 2014 ,	17
899	Recent advances in graphene-based planar micro-supercapacitors for on-chip energy storage. 2014 , 1, 277-292	249
898	Electrical and electronic properties of nitrogen doped amorphous carbon (a-CN _x) thin films. 2014 , 14, 1845-1848	21
897	7. Sustainable carbon hybrid materials made by hydrothermal carbonization and their use in energy applications. 2014 ,	2
896	TiO ₂ sol-gel spray method for carbon electrode fabrication to enhance desalination efficiency of capacitive deionization. 2014 , 342, 70-74	88
895	Thermal conductivity and temperature profiles in carbon electrodes for supercapacitors. 2014 , 246, 160-166	19
894	Preparation of porous nanocarbons with tunable morphology and pore size from copolymer templated precursors. 2014 , 1, 121-124	27
893	Silver nanoparticles decorated on a three-dimensional graphene scaffold for electrochemical applications. 2014 , 75, 109-114	52
892	Self-discharge in Manganese Oxide Electrochemical Capacitor Electrodes in Aqueous Electrolytes with Comparisons to Faradaic and Charge Redistribution Models. 2014 , 140, 116-124	42
891	Millimeter-long multilayer graphene nanoribbons prepared by wet chemical processing. <i>Carbon</i> , 2014 , 71, 120-126	10.4 13
890	All solid-state electrochemical capacitors using N,N-dimethylpyrrolidinium fluorohydrogenate as ionic plastic crystal electrolyte. 2014 , 245, 758-763	21
889	Enhanced electrical capacitance of tetraethyl orthosilicate-derived porous carbon nanofibers produced via electrospinning. 2014 , 714-715, 92-96	18
888	Synthesis of starch-derived mesoporous carbon for electric double layer capacitor. 2014 , 245, 166-172	90

887	Poly(ortho-aminophenol)/graphene nanocomposite as an efficient supercapacitor electrode. 2014 , 713, 103-111	23
886	E. grandis as a Biocarbons Precursor for Supercapacitor Electrode Application. 2014 , 5, 305-313	20
885	Charge Storage Capacity of Renewable Biopolymer/Conjugated Polymer Interpenetrating Networks Enhanced by Electroactive Dopants. 2014 , 4, 1300443	62
884	Carbon Aerogels and Monoliths: Control of Porosity and Nanoarchitecture via Sol-Gel routes. 2014 , 26, 196-210	174
883	Conducting polymer nanowire arrays for high performance supercapacitors. 2014 , 10, 14-31	593
882	Solid-state flexible polyaniline/silver cellulose nanofibrils aerogel supercapacitors. 2014 , 246, 283-289	103
881	KOH-activated depleted fullerene soot for electrochemical double-layer capacitors. 2014 , 44, 309-316	18
880	Fe ₃ O ₄ @C core-shell microspheres: synthesis, characterization, and application as supercapacitor electrodes. 2014 , 18, 1067-1076	34
879	Molybdenum doped carbon aerogels with catalytic potential. <i>Carbon</i> , 2014 , 66, 210-218	10.4 17
878	Carbons and electrolytes for advanced supercapacitors. 2014 , 26, 2219-51, 2283	1808
877	Solution synthesis of metal oxides for electrochemical energy storage applications. 2014 , 6, 5008-48	321
876	Recent progress on carbon-based support materials for electrocatalysts of direct methanol fuel cells. 2014 , 2, 6266-6291	393
875	Metal-organic framework composites. 2014 , 43, 5468-512	1539
874	Interactions and structure of ionic liquids on graphene and carbon nanotubes surfaces. 2014 , 4, 18017-18024	61
873	Supercapacitors based on modified graphene electrodes with poly(ionic liquid). 2014 , 256, 264-273	65
872	Heterostructured Ni(OH) ₂ /Co(OH) ₂ composites on 3D ordered NiCo nanoparticles fabricated on microchannel plates for advanced miniature supercapacitor. 2014 , 589, 364-371	32
871	Effect of pre-lithiation degrees of mesocarbon microbeads anode on the electrochemical performance of lithium-ion capacitors. 2014 , 125, 22-28	101
870	Activated carbon aerogel containing graphene as electrode material for supercapacitor. 2014 , 50, 240-245	46

869	Zn ₃ V ₂ O ₈ hexagon nanosheets: a high-performance anode material for lithium-ion batteries. 2014 , 2, 2461	106
868	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
867	Functional materials based on manganese dioxide deposited on carbon fiber. 2014 , 40, 1-7	3
866	Liquid precipitation synthesis of Co ₃ O ₄ for high-performance electrochemical capacitors. 2014 , 20, 489-494	10
865	Graphene/MnO ₂ hybrid nanosheets as high performance electrode materials for supercapacitors. 2014 , 143, 740-746	30
864	Toward binder-free electrochemical capacitor electrodes of vanadium oxide-nanostructured carbon by supercritical fluid deposition: Precursor adsorption and conversion, and electrode performance. 2014 , 248, 1241-1247	12
863	Supercapacitor/biofuel cell hybrids based on wired enzymes on carbon nanotube matrices: autonomous reloading after high power pulses in neutral buffered glucose solutions. 2014 , 7, 1884-1888	106
862	A general approach for fabrication of nitrogen-doped graphene sheets and its application in supercapacitors. 2014 , 417, 270-7	74
861	Development of multi-walled carbon nanotube/poly(vinyl alcohol) composite as electrode for capacitive deionization. 2014 , 130, 7-14	62
860	Application of Capacitive Deionisation in water desalination: A review. 2014 , 342, 3-15	309
859	Electrochemical and spectroelectrochemical comparison of alternated monomers and their copolymers based on carbazole and thiophene derivatives. 2014 , 122, 118-129	36
858	Assembly of viral hydrogels for three-dimensional conducting nanocomposites. 2014 , 26, 5101-7	44
857	Activated Carbon Modified by CNTs/Ni-Co Oxide as Hybrid Electrode Materials for High Performance Supercapacitors. 2014 , 13, 557-562	3
856	Carbon as catalyst and support for electrochemical energy conversion. <i>Carbon</i> , 2014 , 75, 5-42	10.4 359
855	Energy Harvesting for Nanostructured Self-Powered Photodetectors. 2014 , 24, 2591-2610	177
854	Preparation of High-performance Covalently Bonded Polyaniline Nanorods/Graphene Supercapacitor Electrode Materials using Interfacial Copolymerization Approach. 2014 , 127, 139-145	48
853	Freestanding functionalized carbon nanotube-based electrode for solid-state asymmetric supercapacitors. 2014 , 6, 1-9	166
852	Functionalized graphene foam as electrode for improved electrochemical storage. 2014 , 18, 2359-2365	23

851	Electrochemical Performance of Carbon Nanorods with Embedded Cobalt Metal Nanoparticles as an Electrode Material for Electrochemical Capacitors. 2014 , 125, 232-240	47
850	Synthesis of β -MnOOH and β -MnO ₂ Nanowires and their Electrochemical Capacitive Behavior. 2014 , 169-177	
849	Supercapacitors Based on Flexible Substrates: An Overview. 2014 , 2, 325-341	140
848	Graphene-based nanowire supercapacitors. 2014 , 30, 3567-71	62
847	Polyaniline based electrodes for electrochemical supercapacitor: Synergistic effect of silver, activated carbon and polyaniline. 2014 , 724, 21-28	39
846	Review of nanostructured carbon materials for electrochemical capacitor applications: advantages and limitations of activated carbon, carbide-derived carbon, zeolite-templated carbon, carbon aerogels, carbon nanotubes, onion-like carbon, and graphene. 2014 , 3, 424-473	398
845	Activated carbon aerogel as electrode material for coin-type EDLC cell in organic electrolyte. 2014 , 14, 603-607	24
844	Sulfur-incorporated, porous graphene films for high performance flexible electrochemical capacitors. <i>Carbon</i> , 2014 , 77, 59-65	10.4 97
843	Capacitive behaviour of thermally reduced graphene oxide in a novel ionic liquid containing di-cationic charge. 2014 , 193, 110-116	23
842	Importance of open, heteroatom-decorated edges in chemically doped-graphene for supercapacitor applications. 2014 , 2, 9532-9540	80
841	The role of ionic electrolytes on capacitive performance of ZnO-reduced graphene oxide nanohybrids with thermally tunable morphologies. 2014 , 6, 1394-405	76
840	A flexible and high-voltage internal tandem supercapacitor based on graphene-based porous materials with ultrahigh energy density. 2014 , 10, 2285-92	51
839	Significantly enhancing supercapacitive performance of nitrogen-doped graphene nanosheet electrodes by phosphoric acid activation. 2014 , 6, 1563-8	50
838	Enhanced electrochemical performance of hydrous RuO ₂ /mesoporous carbon nanocomposites via nitrogen doping. 2014 , 6, 9751-9	57
837	Graphitization as a Universal Tool to Tailor the Potential-Dependent Capacitance of Carbon Supercapacitors. 2014 , 4, 1400316	168
836	Construction of high-energy-density supercapacitors from pine-cone-derived high-surface-area carbons. 2014 , 7, 1435-42	105
835	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
834	Electrochemical storage properties of polyaniline-, poly(N-methylaniline)-, and poly(N-ethylaniline)-coated pencil graphite electrodes. 2014 , 68,	15

833	Monolithic carbons with spheroidal and hierarchical pores produced by the linkage of functionalized graphene sheets. <i>Carbon</i> , 2014 , 69, 169-177	10.4	74
832	Fast Response, vertically oriented graphene nanosheet electric double layer capacitors synthesized from C(2)H(2). 2014 , 8, 5873-82		113
831	Template-assisted low temperature synthesis of functionalized graphene for ultrahigh volumetric performance supercapacitors. 2014 , 8, 4720-9		360
830	Anodic electrodeposition of a porous nickel oxide/hydroxide film on passivated nickel foam for supercapacitors. 2014 , 2, 7161-7164		54
829	Ultramicroporous Carbon Nanoparticles for the High-Performance Electrical Double-Layer Capacitor Electrode. 2014 , 28, 1561-1568		82
828	Phosphorous and nitrogen dual heteroatom doped mesoporous carbon synthesized via microwave method for supercapacitor application. 2014 , 250, 257-265		188
827	Strategies for enhancing the performance of carbon/carbon supercapacitors in aqueous electrolytes. 2014 , 128, 210-217		39
826	Carbon Materials for Electrochemical Capacitors. 2014 , 237-265		8
825	Reduced graphene oxide and vertically aligned carbon nanotubes superhydrophilic films for supercapacitors devices. 2014 , 49, 487-493		41
824	Inkjet-printed energy storage device using graphene/polyaniline inks. 2014 , 248, 483-488		160
823	An easy one-step electrosynthesis of graphene/polyaniline composites and electrochemical capacitor. <i>Carbon</i> , 2014 , 67, 662-672	10.4	68
822	Electrophoretic self-assembly of expanded mesocarbon microbeads with attached nickel nanoparticles as a high-rate electrode for supercapacitors. 2014 , 6, 4195-203		18
821	Electrosorption on activated biochar: effect of thermo-chemical activation treatment on the electric double layer capacitance. 2014 , 44, 141-157		56
820	Biosourced nitrogen-doped microcellular carbon monoliths. 2014 , 7, 397-401		10
819	Graphene with three-dimensional architecture for high performance supercapacitor. <i>Carbon</i> , 2014 , 67, 221-229	10.4	127
818	Hierarchically porous carbons with partially graphitized structures for high rate supercapacitors. 2014 , 49, 363-370		11
817	Fluorinated activated carbon with superb kinetics for the supercapacitor application in nonaqueous electrolyte. 2014 , 443, 535-539		35
816	Enhanced electrochemical energy storage performance of reduced graphene oxide by incorporating oxygen-rich in-plane pores. 2014 , 2, 1802-1808		15

815	Encapsulation Strategies in Energy Conversion Materials. 2014 , 26, 423-434	55
814	Inorganic nanostructured materials for high performance electrochemical supercapacitors. 2014 , 6, 2037-45	177
813	Application of electrochemical impedance spectroscopy in bio-fuel cell characterization: A review. 2014 , 39, 20159-20170	63
812	Catalyst and doping methods for arc graphene. 2014 , 25, 445601	7
811	Preparation, characterization and electrochemical measurement of porous carbon derived from poly(furfuryl alcohol)/polyvinylpyrrolidone electrospun nanofibers. 2014 , 4, 63162-63170	5
810	Electrochemical performance of porous diamond-like carbon electrodes for sensing hormones, neurotransmitters, and endocrine disruptors. 2014 , 6, 21086-92	32
809	Sodium molybdate - an additive of choice for enhancing the performance of AC/AC electrochemical capacitors in a salt aqueous electrolyte. 2014 , 172, 199-214	31
808	CHAPTER 5:Nanotubes for Energy Storage. 2014 , 121-198	
807	Sulfur-rich carbon cryogels for supercapacitors with improved conductivity and wettability. 2014 , 2, 8472	81
806	Spontaneous polymerization of 2-ethynylpyridine with acylated multi-walled carbon nanotubes in supercritical carbon dioxide and their optical and electrochemical performance. 2014 , 95, 431-436	3
805	Nanosheet-assembled 3D nanoflowers of ruthenium oxide with superior rate performance for supercapacitor applications. 2014 , 4, 16115-16120	18
804	Quantitative analysis of BF ₄ ⁻ ions infiltrated into micropores of activated carbon fibers using nuclear magnetic resonance. 2014 , 4, 16726	5
803	Determination of Sunset yellow in foods based on a facile electrochemical sensor. 2014 , 6, 8760-8766	11
802	Rich nitrogen-doped ordered mesoporous phenolic resin-based carbon for supercapacitors. 2014 , 148, 187-194	94
801	Preparation and electrochemical applications of spherical maltose-based templated carbon/MnO _x composite materials. 2014 , 148, 228-236	4
800	Vertically aligned cobalt hydroxide nano-flake coated electro-etched carbon fiber cloth electrodes for supercapacitors. 2014 , 616-617, 35-39	5
799	Ordered multimodal porous carbon with hierarchical nanostructure as high performance electrode material for supercapacitors. 2014 , 4, 38931-38938	11
798	Enhanced electrical capacitance of heteroatom-decorated nanoporous carbon nanofiber composites containing graphene. 2014 , 137, 781-788	21

797	Insertion-type electrodes for nonaqueous Li-ion capacitors. 2014 , 114, 11619-35	533
796	Transparent and flexible supercapacitors with single walled carbon nanotube thin film electrodes. 2014 , 6, 15434-9	105
795	Manganese dioxide core-shell nanowires in situ grown on carbon spheres for supercapacitor application. 2014 , 16, 4016	28
794	Fabrication of quasi-cubic Fe ₃ O ₄ @rGO composite via a colloid electrostatic self-assembly process for supercapacitors. 2014 , 4, 50765-50770	38
793	Electrochemical supercapacitor with polymeric active electrolyte. 2014 , 2, 10526-10531	41
792	Electrochemically enhanced adsorption of PFOA and PFOS on multiwalled carbon nanotubes in continuous flow mode. 2014 , 59, 2890-2897	12
791	Ammonia Treatment of Activated Carbon Powders for Supercapacitor Electrode Application. 2014 , 161, A568-A575	39
790	Conversion of a zinc salicylate complex into porous carbons through a template carbonization process as a superior electrode material for supercapacitors. 2014 , 4, 6664	16
789	A copper based metal-organic framework as single source for the synthesis of electrode materials for high-performance supercapacitors and glucose sensing applications. 2014 , 39, 19609-19620	73
788	V ₂ O ₅ /functionalized MWCNT hybrid nanocomposite: the fabrication and its enhanced supercapacitive performance. 2014 , 4, 37437-37445	33
787	Activated carbon with micrometer-scale channels prepared from luffa sponge fibers and their application for supercapacitors. 2014 , 4, 35789-35796	36
786	Supercapacitor characteristics of pressurized RuO ₂ /carbon powder as binder-free electrodes. 2014 , 4, 48276-48284	22
785	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
784	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
783	Nitrogen- and oxygen-containing activated carbon nanotubes with improved capacitive properties. 2014 , 4, 5524	49
782	Asymmetrical Supercapacitor Composed of Thin Co(OH) ₂ Nanoflakes on Three-Dimensional Ni/Si Microchannel Plates with Superior Electrochemical Performance. 2014 , 149, 18-27	25
781	Template-free synthesis of hierarchical porous carbon derived from low-cost biomass for high-performance supercapacitors. 2014 , 4, 51072-51079	49
780	Electrocatalysis of oxygen reduction on carbon nanotubes with different surface functional groups in acid and alkaline solutions. 2014 , 39, 16964-16975	26

779	Nitrogen rich graphene-cross-linked melamine formaldehyde carbon cryogels for supercapacitors. 2014 , 142, 101-107		13
778	Enhanced electric double-layer capacitance by desolvation of lithium ions in confined nanopores of microporous carbon. 2014 , 8, 3614-9		30
777	High-performance hybrid electrochemical capacitor with binder-free Nb ₂ O ₅ @graphene. 2014 , 4, 37389		66
776	All-solid-state flexible micro-supercapacitor arrays with patterned graphene/MWNT electrodes. <i>Carbon</i> , 2014 , 79, 156-164	10.4	117
775	Shape-controlled porous nanocarbons for high performance supercapacitors. 2014 , 2, 5236		47
774	A monolithic functional film of nanotubes/cellulose/ionic liquid for high performance supercapacitors. 2014 , 271, 589-596		8
773	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
772	Surface enhanced 3D rGO hybrids and porous rGO nano-networks as high performance supercapacitor electrodes for integrated energy storage devices. <i>Carbon</i> , 2020 , 158, 527-535	10.4	25
771	Polymer Electrolytes for Supercapacitor and Challenges. 2020 , 231-297		5
770	Heteroatoms-doped hierarchical porous carbon derived from chitin for flexible all-solid-state symmetric supercapacitors. 2020 , 384, 123263		123
769	From Molecular Precursors to Nanoparticles Tailoring the Adsorption Properties of Porous Carbon Materials by Controlled Chemical Functionalization. 2020 , 30, 1908371		26
768	Enhancing the performance of polypyrrole composites as electrode materials for supercapacitors by carbon nanotubes additives. 2020 , 137, 48867		11
767	Synthesis and characterization of novel nitrogen doped biocarbons from distillers dried grains with solubles (DDGS) for supercapacitor applications. 2020 , 9, 100375		7
766	Electrospun hyaluronic acid-carbon nanotube nanofibers for neural engineering. 2020 , 9, 100581		16
765	Progress in supercapacitors: roles of two dimensional nanotubular materials. 2020 , 2, 70-108		91
764	Recycle of industrial waste: a new method of applying the paint residue to supercapacitors. 2020 , 31, 274-285		1
763	Interfacial aspects induced by saturated aqueous electrolytes in electrochemical capacitor applications. 2020 , 334, 135572		10
762	Integration of Cu extraction and Zn electrowinning processes for energy storage. 2020 , 253, 119779		2

761	Role of aqueous electrolytes on the performance of electrochemical energy storage device. 2020 , 858, 113793	41
760	Nanohybrid TiN/Vertical graphene for high-performance supercapacitor applications. 2020 , 26, 138-146	23
759	Impact of hydrolysis on surface area and energy storage applications of activated carbons produced from corn fiber and soy hulls. 2020 , 3, 19-28	10
758	Pyrolytic Carbon Films with Tunable Electronic Structure and Surface Functionality: A Planar Stand-In for Electroanalysis of Energy-Relevant Reactions. 2020 , 7, 672-683	
757	Effect of ruthenium based catalyst loading on the electrochemical properties of carbon xerogel. 2020 , 739, 136947	1
756	Synthesis, structural and electrochemical properties of Mn-MoO ₄ /graphene nanocomposite electrode material with improved performance for supercapacitor application. 2020 , 27, 101069	21
755	Preparation and Electrochemical Performance of Hollow Activated Carbon Fiber Self-Supported Electrode for Supercapacitor. 2020 , 20, 2316-2323	6
754	VxO _y nanoparticles and activated charcoal based nanocomposite for supercapacitor electrode application. 2020 , 26, 2581-2598	4
753	Dehydration-triggered electronic structure modulation enables high-performance quasi-solid-state Li-ion capacitors. 2020 , 392, 123795	2
752	3D Printing of Electrochemical Energy Storage Devices: A Review of Printing Techniques and Electrode/Electrolyte Architectures. 2020 , 3, 130-146	59
751	A brief review on synthesis, properties and lithium-ion battery applications of borophene. 2020 , 19, 100150	15
750	Electroanalytical characterization of electrochemical capacitor systems using step potential electrochemical spectroscopy. 2020 , 332, 135508	7
749	Impact of morphological variation by phase-oriented MnO ₂ -based hierarchical ternary composites for the fabrication of solid-state symmetric supercapacitor. 2020 , 26, 2563-2579	7
748	Nanotechnology in energy storage: the supercapacitors. 2020 , 179, 431-458	10
747	Reviewing the fundamentals of supercapacitors and the difficulties involving the analysis of the electrochemical findings obtained for porous electrode materials. 2020 , 27, 555-590	79
746	Advanced porous hierarchical activated carbon derived from agricultural wastes toward high performance supercapacitors. 2020 , 820, 153111	89
745	Review of PVA-based gel polymer electrolytes in flexible solid-state supercapacitors: Opportunities and challenges. 2020 , 27, 101072	128
744	Unravelling the volumetric performance of activated carbons from biomass wastes in supercapacitors. 2020 , 448, 227413	34

743	Comparison of the electrochemical properties of engineered switchgrass biomass-derived activated carbon-based EDLCs. 2020 , 586, 124150		17
742	Sulfur modification of carbon materials as well as the redox additive of Na ₂ S for largely improving capacitive performance of supercapacitors. 2020 , 856, 113678		9
741	Facile preparation of functionalized hierarchical porous carbon from bean dregs for high-performance supercapacitors. 2020 , 31, 728-739		3
740	Nitrogen Doped Superactivated Carbons Prepared at Mild Conditions as Electrodes for Supercapacitors in Organic Electrolyte. 2020 , 6, 56		2
739	Towards high-energy-density supercapacitors via less-defects activated carbon from sawdust. 2020 , 362, 137152		7
738	High performance electrode of few-layer-carbon@bulk-carbon synthesized via controlling diffusion depth from liquid phase to solid phase for supercapacitors. 2020 , 32, 101672		8
737	Porous Carbon-Based Supercapacitors Directly Derived from Metal-Organic Frameworks. 2020 , 13,		6
736	Mechanism of In-Situ Catalytic Cracking of Biomass Tar over Biochar with Multiple Active Sites. 2020 ,		
735	High-energy plasma activation of renewable carbon for enhanced capacitive performance of supercapacitor electrode. 2020 , 362, 137148		10
734	The influence of H ₂ and NH ₃ on catalyst nanoparticle formation and carbon nanotube growth. <i>Carbon</i> , 2020 , 170, 384-393	10.4	2
733	Pinning ultrasmall greigite nanoparticles on graphene for effective transition-metal-sulfide supercapacitors in an ionic liquid electrolyte. 2020 , 8, 25716-25726		7
732	Electrochemical response enhancement of CF and GO/CF composites using a promising CF etching. 2020 , 108, 107997		
731	Cyclic voltammetry of supercapacitors with the simplest equivalent circuit. 2020 , 69, 1672-1678		1
730	Cyclic voltammetry of porous carbon is impacted by charge redistribution ¶understanding the mechanism and effects on performance metrics. <i>Carbon</i> , 2020 , 170, 245-255	10.4	2
729	Review of energy storage services, applications, limitations, and benefits. 2020 , 6, 288-306		85
728	A comprehensive review on synthesis and applications of molybdenum disulfide (MoS ₂) material: Past and recent developments. 2020 , 121, 108200		42
727	Electrochemical impedance spectroscopy correlation among graphene oxide/carbon fibers (GO/CF) composites and GO structural parameters produced at different oxidation degrees. 2020 , 9, 10841-10853		3
726	Green Synthesis of Porous Honeycomblike Carbon Materials for Supercapacitor Electrodes. 2020 , 59, 14288-14295		7

725	Integrating Solution-Processable Conducting Polymers in Carbon Fiber Paper: Scalable 3D Electrodes for Redox-Based Supercapacitors. 2020 , 2, 3234-3242	7
724	Hydrous ruthenium oxide-tantalum pentoxide thin film electrodes prepared by thermal decomposition for electrochemical capacitors. 2020 , 46, 16636-16643	1
723	Nanoconfinement Effects on Enhanced Reversibility of Redox Reactions Coupled with an Irreversible Chemical Process by Electrolysis Acceleration in Nanoporous Carbon Electrodes for a Redox-Enhanced Electrochemical Capacitor. 2020 , 3, 7844-7855	2
722	Function composition of modified reduced graphite oxide. 2020 , 17, 100311	1
721	Phosphorus-doped carbon/carbon nanotube hybrids as high-performance electrodes for supercapacitors. 2020 , 354, 136713	4
720	An intuitive review of supercapacitors with recent progress and novel device applications. 2020 , 31, 101652	75
719	Iodide ion containing ionic liquid mixture based asymmetrical capacitor performance. 2020 , 32, 101845	3
718	Metal-Free Carbon-Based Supercapacitors A Comprehensive Review. 2020 , 1, 410-438	11
717	Opening the internal structure for transport of ions: improvement of the structural and chemical properties of single-walled carbon nanohorns for supercapacitor electrodes.. 2020 , 10, 38357-38368	5
716	Metal oxides nanostructure-based electrode materials for supercapacitor application. 2020 , 22, 1	8
715	Durability evaluation of a Fe/Ni catalyst in polymer electrolyte fuel cell environment via accelerated stress tests. 2020 , 78, 105209	18
714	¶Ni(OH) ₂ nanosheets coating on 3D flower-like ¶Ni(OH) ₂ as high-performance electrodes for asymmetric supercapacitor and Ni/MH battery. 2020 , 849, 156616	12
713	Application of Biomass-Derived Nitrogen-Doped Carbon Aerogels in Electrocatalysis and Supercapacitors. 2020 , 7, 3695-3712	18
712	From cluster design to energy storage device engineering. 2020 , 31-58	
711	Effect of Alkaline-Basic Electrolytes on the Capacitance Performance of Biomass-Derived Carbonaceous Materials. 2020 , 13,	7
710	A graphene-covalent organic framework hybrid for high-performance supercapacitors. 2020 , 32, 448-457	39
709	Energy Storage in Supercapacitors: Focus on Tannin-Derived Carbon Electrodes. 2020 , 7,	16
708	Effect of aqueous electrolytes on the supercapacitive performance of glycol-mediated CoFe ₂ O ₄ nanoparticles. 2020 , 15, e2548	3

707	Synthesis and physical properties of spinel ferrites/MWCNTs hybrids nanocomposites for energy storage and photocatalytic applications. 2020 , 596, 412389	25
706	Interstitial nanoclusters within graphene sheets for highly conductive, strong and electrochemically active fiber-shaped supercapacitors. 2020 , 20, 100768	7
705	Recent advance and prospectives of electrocatalysts based on transition metal selenides for efficient water splitting. 2020 , 78, 105234	81
704	Waste Biomass-Derived Carbon Anode for Enhanced Lithium Storage. 2020 , 5, 19715-19720	18
703	On the elastic properties of single-walled phagraphene nanotubes. 2020 , 756, 137830	1
702	The Effect of Carbonization Temperature on Carbon Aerogels Structure. 2020 , 842, 182-185	1
701	Binder free high performance hybrid supercapacitor device based on nickel ferrite nanoparticles. 2020 , 31, 101677	12
700	Recent advances in biomass derived activated carbon electrodes for hybrid electrochemical capacitor applications: Challenges and opportunities. <i>Carbon</i> , 2020 , 170, 1-29	10.4 50
699	In-Situ Synthesis Graphene Supported TiO ₂ Nanosheets with Superior Cyclic and Rate Performance for Lithium-Ion Batteries. 2020 , 5, 12425-12429	2
698	Hardwood versus softwood Kraft lignin precursor-product relationships in the manufacture of porous carbon nanofibers for supercapacitors. 2020 , 8, 23543-23554	13
697	Characterization of Molecular Spacer-Functionalized Nanostructured Carbons for Electrical Energy Storage Supercapacitor Materials. 2020 , 6, 66	
696	Self-charging flexible solar capacitors based on integrated perovskite solar cells and quasi-solid-state supercapacitors fabricated at low temperature. 2020 , 479, 229046	6
695	Nanocarbon Aerogels and Aerographite. 2020 , 247-274	1
694	Preparation and Performance of Porous Carbon Nanocomposite from Renewable Phenolic Resin and Halloysite Nanotube. 2020 , 10,	3
693	Porous carbons derived from potato for high-performancesupercapacitors. 2020 , 26, 6319-6329	4
692	Influence of Oxygen-Containing Functional Groups on the Environmental Properties, Transformations, and Toxicity of Carbon Nanotubes. 2020 , 120, 11651-11697	33
691	. 2020 ,	2
690	Nanoparticle-Based Electrodes with High Charge Transfer Efficiency through Ligand Exchange Layer-by-Layer Assembly. 2020 , 32, e2001924	8

689	Electrocatalytic Hydrogenation of Biomass-Derived Organics: A Review. 2020 , 120, 11370-11419	62
688	Electrode Materials for Supercapacitors: A Review of Recent Advances. 2020 , 10, 969	81
687	Electrospun Deposited Manganese Oxide Nanofibers Thin Film Electrode for Supercapacitor Application: Effect of Mn Concentration. 2020 , 392, 2000159	
686	Preparation and characterization of high value-added activated carbon derived from biowaste walnut shell by KOH activation for supercapacitor electrode. 2020 , 31, 18541-18553	11
685	GrapheneIbnic Liquid Interfacial Potential Drop from Density Functional Theory-Based Molecular Dynamics Simulations. 2020 , 124, 19548-19555	16
684	Electrospun Lignin-Derived Carbon Micro- and Nanofibers: A Review on Precursors, Properties, and Applications. 2020 , 8, 13868-13893	23
683	Synthesis of Sustainable Carbon Nanospheres from Natural Bioresources and Their Diverse Applications. 2020 , 393-420	2
682	Nickel silicate coreIshell microspheres hybridized with graphene boosting electrochemical performance. 2020 , 758, 137936	2
681	Inherent Impurities in Graphene/Poly(lactic Acid) Filament Strongly Influence on the Capacitive Performance of 3D-Printed Electrode. 2020 , 26, 15746-15753	20
680	Rolled Supercapacitor Device Model Using Carbon-Sheet as Electrodes in KCl Electrolyte System. 2020 , 860, 53-58	2
679	Layer-by-layer-stacked graphene/graphene-island supercapacitor. 2020 , 10, 055202	0
678	A tightly packed Co ₃ O ₄ /C&S composite for high-performance electrochemical supercapacitors from a cobalt(III) cluster-based coordination precursor. 2020 , 288, 121435	13
677	¹⁹ F Ex Situ Solid-State NMR Study on Structural Differences in Pores of Activated Carbon Series Derived from Chemical and Physical Activation Processes for EDLCs. 2020 , 124, 12457-12465	2
676	Model and Measurement Based Insights into Double Layer Capacitors: Voltage-Dependent Capacitance and Low Ionic Conductivity in Pores. 2020 , 167, 080535	1
675	3D-interconnected framework binary composite based on polypyrrole/textile polyacrylonitrile-derived activated carbon fiber felt as supercapacitor electrode. 2020 , 31, 10225-10233	3
674	Considerations for application of granular activated carbon as capacitive bioanode in bioelectrochemical systems. 2020 , 157, 782-792	11
673	Two-Dimensional Transition Metal Oxide and Hydroxide-Based Hierarchical Architectures for Advanced Supercapacitor Materials. 2020 , 8, 390	25
672	Production, activation, and applications of biochar in recent times. 2020 , 2, 253-285	65

671	Bismuth-Ferrite-Based Electrochemical Supercapacitors. 2020,	1
670	Core-shell type composites based on polyimide-derived carbon nanofibers and manganese dioxide for self-standing and binder-free supercapacitor electrode applications. 2020, 196, 108212	20
669	Preparation of activated carbon via acidic dehydration of durian husk for supercapacitor applications. 2020, 107, 107906	22
668	Cobalt hexacyanoferrate/MnO ₂ nanocomposite for asymmetrical supercapacitors with enhanced electrochemical performance and its charge storage mechanism. 2020, 465, 228266	33
667	One-step fabrication of biomass-derived hierarchically porous carbon/MnO nanosheets composites for symmetric hybrid supercapacitor. 2020, 526, 146696	81
666	Structural engineering of Fe _{2.8} Sn _{0.2} O ₄ @C micro/nano composite as anode material for high-performance lithium ion batteries. 2020, 468, 228366	5
665	Utilizing ink composition to tune bulk-electrode gas transport, performance, and operational robustness for a FeNi catalyst in polymer electrolyte fuel cell. 2020, 75, 104943	32
664	Structural Analysis of Furfural Resin-based Active Carbon to Control an Electric Double-layer Capacitor. 2020, 88, 127-131	2
663	An Experimental Study on Preventing Thermal Runaway Propagation in Lithium-Ion Battery Module Using Aerogel and Liquid Cooling Plate Together. 2020, 56, 2579-2602	16
662	3D hierarchical self-supported NiO/Co ₃ O ₄ @C/CoS ₂ nanocomposites as electrode materials for high-performance supercapacitors. 2020, 2, 2785-2791	13
661	Progress in Capacitive Deionization for Desalination of Brackish Water: A Materials Perspective. 2020, 91-113	
660	Enhanced capacitive performance by improving the graphitized structure in carbon aerogel microspheres.. 2020, 10, 22242-22249	3
659	Effect of Salt Concentration on Poly (Acrylic Acid) Hydrogel Electrolytes and their Applications in Supercapacitor. 2020, 167, 100524	11
658	Hybrid electrochemical supercapacitor based on birnessite-type MnO ₂ /carbon composite as the positive electrode and carbonized iron-polyaniline/nickel graphene foam as a negative electrode. 2020, 10, 065113	9
657	Acetonitrile confined in carbon nanotubes, part I: Structure, dynamic and transport properties. 2020, 311, 113053	
656	Fluorine-Free Ionic Liquid-Based Electrolyte for Supercapacitors Operating at Elevated Temperatures. 2020, 8, 10212-10221	8
655	Microwave exfoliated graphene-based materials for flexible solid-state supercapacitor. 2020, 1220, 128710	15
654	Unusual Redox Behavior of Ruthenocene Confined in the Micropores of Activated Carbon. 2020, 124, 15205-15215	8

653	Conductive and flexible PEDOT-decorated paper as high performance electrode fabricated by vapor phase polymerization for supercapacitor. 2020 , 603, 125173	8
652	Suppressed self-discharge of an aqueous supercapacitor using Earth-abundant materials. 2020 , 871, 114307	5
651	Fast preparation of vertical graphene nanosheets by helicon wave plasma chemical vapor deposition and its electrochemical performance. 2020 , 108, 107958	4
650	Electrochemical Properties of Carbon Electrodes Modified with Nanoparticles of Fe ₄ [Fe(CN) ₆] ₃ , K ₂ Co[Fe(CN) ₆], and Their Sodium-Containing Analogs. 2020 , 56, 451-458	2
649	Orderly Arranged Bead-Chain Cu ₂ O-Mn ₃ O ₄ -NiO Ternary Nanocomposites with High Specific Capacitance for Supercapacitors. 2020 , 15, 2050082	2
648	Gel Polymer Electrolyte with Anion-Trapping Boron Moieties via One-Step Synthesis for Symmetrical Supercapacitors. 2020 , 305, 1900807	2
647	Carbon nano-fiber forest foundation for ruthenium oxide pseudo-electrochemical capacitors. 2020 , 1, 215-227	8
646	Understanding the electrochemistry of "water-in-salt" electrolytes: basal plane highly ordered pyrolytic graphite as a model system. 2020 , 11, 6978-6989	14
645	Bio-Based Carbon Materials from Potato Waste as Electrode Materials in Supercapacitors. 2020 , 13, 2406	7
644	Present status of biomass-derived carbon-based composites for supercapacitor application. 2020 , 373-415	5
643	Formation and trapping of CO ₂ due to the decomposition of amide solvents during the chemical reduction of graphene oxide by using the solvothermal method. 2020 , 108, 107966	4
642	Electrochemical capacitive performance of intact anaerobic granular sludge-based 3D bioanode. 2020 , 470, 228399	9
641	A High Energy Density Self-supported and Bendable Organic Electrode for Redox Supercapacitors with a Wide Voltage Window. 2020 , 38, 522-530	7
640	Research Progress on Porous Carbon Supported Metal/Metal Oxide Nanomaterials for Supercapacitor Electrode Applications. 2020 , 59, 6347-6374	63
639	Elucidating the Role of Ionomer in the Performance of Platinum Group Metal-free Catalyst Layer via in situ Electrochemical Diagnostics. 2020 , 167, 044519	12
638	O/N-co-doped hierarchically porous carbon from carboxymethyl cellulose ammonium for high-performance supercapacitors. 2020 , 55, 7417-7431	10
637	Current Technology of Supercapacitors: A Review. 2020 , 49, 3520-3532	37
636	A flexible polyelectrolyte-based gel polymer electrolyte for high-performance all-solid-state supercapacitor application.. 2020 , 10, 9299-9308	14

635	Wet-spinning assembly and in situ electrodeposition of carbon nanotube-based composite fibers for high energy density wire-shaped asymmetric supercapacitor. 2020 , 569, 298-306	15
634	Nitro-graphene oxide in iridium oxide hybrids: electrochemical modulation of N-graphene redox states and charge capacities. 2020 , 4, 1421-1433	7
633	An Electrochemically Stable 2D Covalent Organic Framework for High-performance Organic Supercapacitors. 2020 , 38, 558-564	8
632	Revisiting cyclic voltammetry and electrochemical impedance spectroscopy analysis for capacitance measurements. 2020 , 343, 136109	30
631	Improved Capacitive Performances from Adjusted Graphite Microcrystallites with Multilayer Graphene Being In Situ Formed in Amorphous Carbons. 2020 , 8, 1901500	
630	Recent advances in hybrid organic-inorganic materials with spatial architecture for state-of-the-art applications. 2020 , 112, 100663	93
629	N-Doping in Precursor Sol: Some Observations in Reference to In Situ-Grown Carbon Film Electrodes for Supercapacitor Applications. 2020 , 8, 1901479	5
628	Multiscale modeling of electrolytes in porous electrode: From equilibrium structure to non-equilibrium transport. 2020 , 5, 303-321	24
627	Recent advances in cobalt based heterogeneous catalysts for oxygen evolution reaction. 2020 , 511, 119854	26
626	Practical Framework for Problem-Based Learning in an Introductory Circuit Analysis Course. 2020 ,	
625	Effect of Zinc Chloride Activation on D-Glucose Derived Carbons Based Capacitors Performance in Ionic Liquid. 2020 , 167, 080533	4
624	Fabrication of 3D binder-free graphene NiO electrode for highly stable supercapattery. 2020 , 10, 11214	21
623	Heteroatom-Doped and Oxygen-Functionalized Nanocarbons for High-Performance Supercapacitors. 2020 , 10, 2001239	120
622	Synthesis of PEDOT: PPy/AC composite as an electrode for supercapacitor. 2020 , 31, 13597-13609	10
621	Carbon-based nanocomposites in solid-state hydrogen storage technology: An overview. 2020 , 44, 11044-11058	5
620	Holey nitrogen-doped multiwalled carbon nanotubes from extended air oxidation at low-temperature. 2020 , 524, 146546	5
619	Tunable electrochemical synthesis of 3D nucleated microparticles like Cu-BTC MOF-carbon nanotubes composite: Enzyme free ultrasensitive determination of glucose in a complex biological fluid. 2020 , 354, 136673	32
618	High-performance yarn supercapacitor based on directly twisted carbon nanotube@bacterial cellulose membrane. 2020 , 27, 7649-7661	9

617	Fabrication and Characterization of Humidity Sensors Based on Graphene Oxide-PEDOT:PSS Composites on a Flexible Substrate. 2020 , 11,	18
616	Graphitic-Based Solid-State Supercapacitors: Enabling Redox Reaction by In Situ Electrochemical Treatment. 2020 , 3, 587-595	3
615	High Electrochemical Performance of 2.5 V Aqueous Symmetric Supercapacitor Based on Nitrogen-Doped Reduced Graphene Oxide. 2020 , 8, 1901339	11
614	Low temperature and highly efficient oxygen/sulfur dual-modification of nanoporous carbon under hydrothermal conditions for supercapacitor application. 2020 , 24, 761-770	3
613	The conductivity of polydimethylsiloxane/graphene nano-ribbon foam composite with elongation. <i>Carbon</i> , 2020 , 162, 328-338	10.4 13
612	Interweaving Activated Carbon with Multi-dimensional Carbon Nanomaterials for High-performance Supercapacitors. 2020 , 167, 040507	5
611	Study of the aging process of nanostructured porous carbon-based electrodes in electrochemical capacitors filled with aqueous or organic electrolytes. 2020 , 28, 101249	9
610	Novel electrode material derived from porous polymeric organic framework of phloroglucinol and terephthaldehyde for symmetric supercapacitors. 2020 , 28, 101283	25
609	Fabrication and empirical analysis of graphene dispersion/activated carbon on conductive networks in porous graphite felt supercapacitor. 2020 , 28, 101264	2
608	Single-walled carbon nanotubes/NiCoMn layered double hydroxide nanohybrids as electrode materials for high-performance hybrid energy storage devices. 2020 , 454, 227912	19
607	Textural characteristics of activated carbons derived from tabah bamboo manufactured by using H3PO4 chemical activation. 2020 , 22, 148-155	20
606	Quantifying Induced Polarization of Conductive Inclusions in Porous Media and Implications for Geophysical Measurements. 2020 , 10, 1669	6
605	Preparation and electrochemical properties of sucrose-based porous carbon materials by combustion expansion-chemical activation method. 2020 , 50, 549-558	2
604	The use of activated carbon from coffee endocarp for the manufacture of supercapacitors. 2020 , 31, 7547-7554	6
603	Biogenic Synthesis of Carbon-Based Micro Composites from Mushroom (<i>Asparagus Disporus</i>). 2020 , 21, 1862-1867	
602	The Potentiality of Rice Husk-Derived Activated Carbon: From Synthesis to Application. 2020 , 8, 203	39
601	Enhanced electrochemical double-layer capacitive performance with CO2 plasma treatment on activated carbon prepared from pyrolysis of pistachio shells. 2020 , 45, 8843-8852	19
600	Relationship between microstructure and electrochemical properties of 2lignin-derived carbon nanofibers prepared by thermal treatment. 2020 , 260, 116287	8

599	Designing ionic channels in novel carbons for electrochemical energy storage. 2020 , 7, 191-201	16
598	A leaf-vein-like MnO ₂ @PVDF nanofiber gel polymer electrolyte matrix for Li-ion capacitor with excellent thermal stability and improved cyclability. 2020 , 387, 124058	12
597	Beyond Lithium-Based Batteries. 2020 , 13,	15
596	Carbon-based nanomaterials and ZnO ternary compound layers grown by laser technique for environmental and energy storage applications. 2020 , 509, 145359	7
595	Bio-based electric devices. 2020 , 311-355	0
594	Real-time mass spectrometric characterization of the solid-electrolyte interphase of a lithium-ion battery. 2020 , 15, 224-230	156
593	Hierarchical N-Doped Porous Carbons for Zn-Air Batteries and Supercapacitors. 2020 , 12, 20	43
592	Improvement of a commercial activated carbon for organic electric double-layer capacitors using a consecutive doping method. <i>Carbon</i> , 2020 , 160, 45-53	10.4 14
591	Boosting the supercapacitor performances of activated carbon with carbon nanomaterials. 2020 , 450, 227678	66
590	Utilization of acai stone biomass for the sustainable production of nanoporous carbon for CO ₂ capture. 2020 , 25, e00168	10
589	B/N-doped graphdiyne as superior supercapacitor electrode with record high quantum capacitance. 2020 , 523, 146468	17
588	Activation-free, porous and superamphiphilic N-doped carbon capsular nanofibrous electrode for high performance electrochemical capacitor. 2020 , 463, 228112	5
587	Waste-Derived Heteroatom-Doped Activated Carbon/Manganese Dioxide Trio-Composite for Supercapacitor Applications. 2020 , 8, 1901402	14
586	Chemical activation of carbon materials for supercapacitors: Elucidating the effect of spatial characteristics of the precursors. 2020 , 597, 124762	2
585	Electrode materials of Cobalt@Nitrogen doped carbon nano rod/reduced graphene oxide on Nickel foam by electrophoretic deposition and 3D rGO aerogel for a high-performance asymmetrical supercapacitor. 2020 , 343, 136117	10
584	Electrochemical investigation on high-rate properties of graphene nanoplatelet-carbon nanotube hybrids for Li-ion capacitors. 2020 , 863, 114060	7
583	Novel hierarchical nanoporous graphene nanoplatelets with excellent rate capabilities produced via self-templating liquid metal dealloying. 2020 , 24, 101120	9
582	Colorimetric and amperometric detection of urine creatinine based on the ABTS radical cation modified electrode. 2020 , 314, 128034	9

581	Ultrasound-assisted synthesis of unzipped multiwalled carbon nanotubes/titanium dioxide nanocomposite as a promising next-generation energy storage material. 2020 , 66, 105105	8
580	NixRh1-x bimetallic alloy nanofibers as a pH-universal electrocatalyst for the hydrogen evolution reaction: the synthetic strategy and fascinating electroactivity. 2020 , 8, 8629-8637	11
579	Carbon Xerogels for Effluent Treatment. 2020 , 65, 2255-2270	4
578	Activated carbon xerogels derived from phenolic oil: Basic catalysis synthesis and electrochemical performances. 2020 , 205, 106427	5
577	EDLC Characteristics of Carbon Materials Prepared from Coal Extract. 2020 , 88, 119-126	2
576	Ultrafast microwave synthesis of rambutan-like CMK-3/carbon nanotubes nanocomposites for high-performance supercapacitor electrode materials. 2020 , 10, 6227	7
575	A stretchable vertically stacked microsupercapacitor with kirigami-bridged island structure: MnO ₂ /graphene/Poly(3,4-ethylenedioxythiophene) nanocomposite electrode through pen lithography. 2020 , 453, 227898	10
574	Chloride functionalized carbon nanotube sponge: High charge capacity and high magnetic saturation. <i>Carbon</i> , 2020 , 164, 324-336	10.4 5
573	Fabrication of supercapacitor using banyan leaves-based activated carbon electrode and formic acid-based polymer electrolyte. 2020 , 28, 320-324	2
572	Recent advances in selective catalytic reduction of NO _x by carbon monoxide for flue gas cleaning process: a review. 2021 , 63, 68-119	16
571	Recent advances in carbon nanostructures prepared from carbon dioxide for high-performance supercapacitors. 2021 , 54, 352-367	44
570	Improved electrosorption kinetics in meso/microporous carbon composite electrode for swift salt removal. 2021 , 359, 133-140	4
569	Multi-walled carbon nanotubes and activated carbon composite material as electrodes for electrochemical capacitors. 2021 , 33, 100738	12
568	Recent advancement made in the field of reduced graphene oxide-based nanocomposites used in the energy storage devices: A review. 2021 , 33, 102032	19
567	Current applications of smart nanotextiles and future trends. 2021 , 343-365	3
566	Large-scale single-step synthesis of wrinkled NB doped 3D graphene like nanosheets from Tender palm shoots for high energy density supercapacitors. 2021 , 46, 403-415	11
565	Electrochemical Evaluation of Titanium (IV) Oxide/Polyacrylonitrile Electrospun Discharged Battery Coals as Supercapacitor Electrodes. 2021 , 33, 120-128	8
564	A graphene-laminated electrode with high glucose oxidase loading for highly-sensitive glucose detection. 2021 , 66, 57-63	8

563	Controlling the flake size of bifunctional 2D WSe ₂ nanosheets as flexible binders and supercapacitor materials. 2021 , 3, 653-660	10
562	Capacitor performance of MgO-templated carbons synthesized using hydrothermally treated MgO particles. 2021 , 310, 110646	1
561	Carbon Related Materials. 2021 ,	2
560	Self-template synthesis of hierarchical porous carbon for supercapacitors based on bituminous coal. 2021 , 45, 2116-2125	4
559	Preparation and application of sulfonated polysulfone in an electrochemical hydrogen storage system. 2021 , 45, 4026-4035	4
558	Optimized synthesis of nitrogen-doped carbon with extremely high surface area for adsorption and supercapacitor. 2021 , 538, 147961	14
557	Biomass waste derived functionalized hierarchical porous carbon with high gravimetric and volumetric capacitances for supercapacitors. 2021 , 310, 110659	54
556	Inorganic matter in rice husk derived carbon and its effect on the capacitive performance. 2021 , 57, 639-649	3
555	Study of the pore size effect on the charge storage of hydrous RuO ₂ nanoparticles supported within the pores of activated carbon. 2021 , 111, 106472	3
554	Synthesis, characterization and supercapacitor electrode performances of VS ₂ nanosheets. 2021 , 46, 545-549	6
553	Recent advances in bimetallic metal-organic framework as a potential candidate for supercapacitor electrode material. 2021 , 430, 213660	35
552	Self-Healable Inks Permitting 3D Printing of Diverse Systems towards Advanced Bicontinuous Supercapacitors. 2021 , 35, 345-352	15
551	Perovskite oxides as supercapacitive electrode: Properties, design and recent advances. 2021 , 431, 213680	9
550	Processing of Fe ₂ O ₃ Nanoparticles on Activated Carbon Cloth as Binder-Free Electrode Material for Supercapacitor Energy Storage. 2021 , 33, 102042	8
549	Exploring the electrosorption selectivity and recovery of indium ions with capacitive deionization in acidic solution. 2021 , 586, 819-829	8
548	Conversion of wheat husk to high surface area activated carbon for energy storage in high-performance supercapacitors. 2021 , 144, 105909	27
547	From hierarchically porous carbon to Mn ₃ O ₄ /Carbon composites for high voltage aqueous supercapacitors. 2021 , 485, 229111	10
546	Electrochemical prospects and potential of hausmannite Mn ₃ O ₄ nanoparticles synthesized through microplasma discharge for supercapacitor applications. 2021 , 45, 7038-7056	3

545	Microwave-assisted ultrafast in-situ growth of N-doped carbon quantum dots on multiwalled carbon nanotubes as an efficient electrocatalyst for photovoltaics. 2021 , 586, 349-361	18
544	Direct current gas-liquid phase pulsed plasma polymerization of polypyrrole under atmospheric pressure. 2021 , 18, 2000186	4
543	Building up nanostructured layer-by-layer films combining reduced graphene oxide-manganese dioxide nanocomposite in supercapacitor electrodes. 2021 , 718, 138483	4
542	Highly conducting polymer electrolyte-ionic liquid and porous carbon material for sandwich electric double layer capacitor. 2021 , 33, 469-475	5
541	The Applications of Water-in-Salt Electrolytes in Electrochemical Energy Storage Devices. 2021 , 31, 2006749	54
540	Understanding and Tuning the Electrical Conductivity of Activated Carbon: A State-of-the-Art Review. 2021 , 46, 1-37	20
539	Supercapacitor Devices. 2021 , 39-79	5
538	Building next-generation supercapacitors with battery type Ni(OH) ₂ . 2021 , 9, 15542-15585	14
537	Activated carbon from banyan prop root biomass and its application in pseudocapacitors: a strategy towards circular economy for energy. 2021 , 27, 1357-1368	0
536	Ab initio design of a new family of 2D materials: transition metal carbon nitrogen compounds (MCNs). 2021 , 9, 4748-4756	2
535	Mixed Transition Metal Oxides for Energy Applications. 2021 , 405-429	1
534	Synthesis of mesoporous carbon platelets of high surface area and large porosity from polymer blends-calcium phosphate nanocomposites for high-power supercapacitor. 2021 , 68, 462-468	1
533	Polymer Graphene-Based Nanofibers and Their Application for Batteries. 2021 , 119-148	
532	Enhanced electrochemical performance of MnO nanoparticles: graphene aerogels as conductive substrates and capacitance contributors. 2021 , 50, 8776-8784	4
531	Photodoping of metal oxide nanocrystals for multi-charge accumulation and light-driven energy storage. 2021 , 13, 8773-8783	13
530	Untangling the respective effects of heteroatom-doped carbon materials in batteries, supercapacitors and the ORR to design high performance materials. 2021 , 14, 2036-2089	86
529	Electrical double-layer capacitors. 2021 , 199-237	1
528	Recycling of Cobalt Oxides Electrodes from Spent Lithium-Ion Batteries by Electrochemical Method. 2021 , 91-123	13

527	Recycled Nanomaterials for Energy Storage (Supercapacitor) Applications. 2021 , 175-202	9
526	Natural silk for energy and sensing applications: a review. 2021 , 19, 2141-2155	6
525	Peculiar role of the electrolyte viscosity in the electrochemical capacitor performance. 2021 , 9, 8644-8654	6
524	Advanced applications of green materials in supercapacitors. 2021 , 339-371	1
523	Modification techniques to improve the capacitive performance of biocarbon materials. 2021 , 33, 101870	5
522	High temperature supercapacitors using water-in-salt electrolytes: stability above 100 °C. 2021 , 57, 5294-5297	3
521	CHAPTER 15:Surface Structures and Their Reactions in Transition Metal Oxides. 2021 , 460-482	
520	High specific energy supercapacitor electrode prepared from MnS/Ni3S2 composite grown on nickel foam.	3
519	Nanomaterials for Energy Harvesting and Storage. 2021 , 188-203	1
518	Real-time monitoring of electrochemical carbon corrosion in alkaline media. 2021 , 9, 19834-19839	7
517	Recent Trends in the Use of Three-Dimensional Graphene Structures for Supercapacitors. 2021 , 3, 574-596	6
516	Overview of Electrode Materials Progressed for Application in Electrochemical Supercapacitors: An Update. 2021 , 33, 1039-1050	0
515	Graphene based nano-composites for efficient energy conversion and storage in Solar cells and Supercapacitors : A Review.. 2021 , 60, 784-797	3
514	Biomass-derived tubular carbon materials: progress in synthesis and applications. 2021 , 9, 13822-13850	10
513	Ionic thermoelectric materials for near ambient temperature energy harvesting. 2021 , 118, 020501	13
512	Biomass-derived carbon electrodes for supercapacitors and hybrid solar cells: towards sustainable photo-supercapacitors. 2021 , 5, 4784-4806	2
511	Supercapacitors based on two-dimensional metal oxides, hydroxides, and its graphene-based hybrids. 2021 , 193-215	0
510	Development of electrode materials for high-performance supercapacitors. 2021 , 545-557	0

509	Functionalized Carbon Nanotube and MnO Nanoflower Hybrid as an Electrode Material for Supercapacitor Application. 2021 , 12,	3
508	What Is the Right Carbon for Practical Anode in Alkali Metal Ion Batteries?. 2021 , 1, 2000063	17
507	Low-Cost Carbon Xerogels Derived from Phenol/Formaldehyde Resin for Organic Electric Double-Layer Capacitors. 2021 , 9, 2000918	1
506	Optimisation of NiO electrodeposition on 3D graphene electrode for electrochemical energy storage using response surface methodology. 2021 , 882, 114992	8
505	Maximizing Redox Charge Storage via Cation (V) Anion (S) Dual Doping on Nickel Diselenide Nanodiscs for Hybrid Supercapacitors. 2021 , 4, 2430-2439	5
504	Effect of Carbon Dots on Supercapacitor Performance of Carbon Nanohorn/Conducting Polymer Composites. 2021 , 94, 454-462	7
503	A complex study of the dependence of the reduced graphite oxide electrochemical behavior on the annealing temperature and the type of electrolyte. 2021 , 370, 137832	5
502	Fabrication of reduced graphene oxide/manganese oxide ink for 3D-printing technology on the application of high-performance supercapacitors. 2021 , 56, 8102-8114	4
501	MoS/Epitaxial graphene layered electrodes for solid-state supercapacitors. 2021 , 32, 195401	1
500	Effect of various aqueous electrolytes on the electrochemical performance of V2O5 spindle-like nanostructures as electrode material for supercapacitor application. 2021 , 32, 6623-6635	2
499	Semiconductor Properties of Electrodeposited Manganese Dioxide for Electrochemical Capacitors: Mott-Schottky Analysis. 2021 , 168, 020508	4
498	Carbon Nanotube Films for Energy Applications. 2021 , 14, 1890	3
497	The Application of Polymer Nanocomposites in Energy Storage Devices. 2021 , 157-187	1
496	Supercapacitor electrode materials: addressing challenges in mechanism and charge storage. 2021 ,	13
495	Experimental and Theoretical Study of the Effect of Functionalized Pyrene Polymerization on Carbon Electrode Surfaces for Electrochemical Storage. 2021 , 4, 1018-1031	
494	Electrospun carbon fibers for microbial fuel cells: A novel bioanode design applied to wastewater treatment. 2021 , 373, 137864	5
493	Thermally Stabilized Soot for Supercapacitors. 2021 , 218, 2000617	
492	Dead Ashoka (Saraca asoca) leaves-derived porous activated carbons and flexible iongel polymer electrolyte for high-energy-density electric double-layer capacitors. 2021 , 11-12, 100062	2

491	Anti-corrosive siloxane coatings for improved long-term performance of supercapacitors with an aqueous electrolyte. 2021 , 372, 137840	7
490	Electrochemical Capacitor Performance of Nanotextured Carbon/Transition Metal Dichalcogenides Composites. 2021 , 17, e2006821	2
489	Recent advances in functional fiber electronics. 2021 , 1, 105-126	36
488	Effect of Steam on the Tar Reforming during Circulating Fluidized Bed Char Gasification. 2021 , 6, 11192-11198	3
487	The Functional Chameleon of Materials Chemistry-Combining Carbon Structures into All-Carbon Hybrid Nanomaterials with Intrinsic Porosity to Overcome the "Functionality-Conductivity-Dilemma" in Electrochemical Energy Storage and Electrocatalysis. 2021 , 17, e2007508	6
486	The prospects and challenges of solar electrochemical capacitors. 2021 , 35, 102294	3
485	Green synthesis of high-performance supercapacitor electrode materials from agricultural corncob waste by mild potassium hydroxide soaking and a one-step carbonization. 2021 , 161, 113215	10
484	Performance analysis, challenges and future perspectives of nickel based nanostructured electrodes for electrochemical supercapacitors. 2021 , 11, 564-599	23
483	Liquid metals dealloying as a general approach for the selective extraction of metals and the fabrication of nanoporous metals: A review. 2021 , 26, 102007	24
482	Redox Mechanism Contributions to the Behaviour of Electrochemical Capacitor Materials. 2021 , 168, 050503	1
481	Modular Platform for Synthesis of Poly(Ionic Liquid) Electrolytes for Electrochemical Applications in Supercapacitors. 2021 , 6, 3795-3801	1
480	Aerosol-Jet-Printed CoFe ₂ O ₄ Nanoparticle Vertically Aligned Carbon Nanotube Composite for Microsupercapacitors. 2021 , 125, 7590-7597	4
479	Mesoporous Carbon: A Versatile Material for Scientific Applications. 2021 , 22,	11
478	Sustainable nitrogen-containing chemicals and materials from natural marine resources chitin and microalgae. 2021 , 505, 111517	4
477	Enhancement of Volumetric Capacitance of Binder-Free Single-Walled Carbon Nanotube Film via Fluorination. 2021 , 11,	2
476	Electrochemical Zinc Ion Capacitors: Fundamentals, Materials, and Systems. 2021 , 11, 2100201	37
475	Biomass-Derived Carbonaceous Materials to Achieve High-Energy-Density Supercapacitors. 2021 , 8,	2
474	Structural changes in resorcinol formaldehyde aerogel seen by NMR. 2021 , 317, 110988	3

473	Improvement of Mesoporosity on Supercapacitive Performance of Activated Carbons Derived From Coffee Grounds. 2021 , 42, 748-755	1
472	Recent advances in anode materials for potassium-ion batteries: A review. 1	23
471	Lignin-based carbon fibers: Formation, modification and potential applications. 2021 ,	11
470	In situ decoration of laser-scribed graphene with TiO ₂ nanoparticles for scalable high-performance micro-supercapacitors. <i>Carbon</i> , 2021 , 176, 296-306	10.4 15
469	Conducting Polymer-Based Flexible Supercapacitor Devices. 2021 , 611-634	0
468	Optimising the fabrication of 3D binder-free graphene electrode for electrochemical energy storage application. 2021 , 413, 127080	4
467	New insight into ion dynamics in nanoporous carbon materials: An application of the step potential electrochemical spectroscopy (SPECS) technique and electrochemical dilatometry. 2021 , 377, 138115	2
466	Supercapacitor with Carbon/MoS ₂ Composites. 2021 , 9,	3
465	Co ₃ O ₄ Nanoparticles Embedded in Mesoporous Carbon for Supercapacitor Applications. 2021 , 4, 5022-5037	5
464	Carbon material with high specific surface area and high pseudocapacitance: Possible application in supercapacitors. 2021 , 319, 111063	4
463	Fabrication Approaches of Energy Storage Materials for Flexible Supercapacitors. 2021 , 533-547	
462	Nano-Fe ₃ O ₄ /Carbon Nanotubes Composites by One-Pot Microwave Solvothermal Method for Supercapacitor Applications. 2021 , 14, 2908	1
461	Honeycomb-like Ni ₃ (NO ₃) ₂ (OH) ₄ @Ni/Co-BTC composites as electrode materials for high performance supercapacitors. 2021 , 268, 115136	1
460	Tunable Pseudocapacitive Intercalation of Chloroaluminate Anions into Graphite Electrodes for Rechargeable Aluminum Batteries. 2021 , 168, 060514	5
459	A simplified subsurface soil salinity estimation using synergy of SENTINEL-1 SAR and SENTINEL-2 multispectral satellite data, for early stages of wheat crop growth in Rupnagar, Punjab, India. 2021 , 32, 3905-3919	3
458	Nature inspired approach to mimic design for increased specific capacitance as supercapacitor electrodes. 2021 , 592, 42-50	3
457	N-doped cellulose-based carbon aerogels with a honeycomb-like structure for high-performance supercapacitors. 2021 , 38, 102414	3
456	Promoting the energy density of lithium-ion capacitor by coupling the pore-size and nitrogen content in capacitive carbon cathode. 2021 , 498, 229912	13

455	N-Doped Mesoporous Carbon Prepared from a Polybenzoxazine Precursor for High Performance Supercapacitors. 2021 , 13,		4
454	Sol-gel synthesized carbon nanoparticles as supercapacitor electrodes with ultralong cycling stability. 1-8		3
453	A practical approach to design sulfur host material for lithium-sulfur batteries based on electrical conductivity and pore structure. 2021 , 27, 102309		1
452	Mixed ternary metal MFeCo (M = Al, Mg, Cu, Zn, or Ni) oxide electrodes for high-performance energy storage devices. 2021 , 27, 3777-3791		0
451	A dual shape pore model to analyze the gas adsorption data of hierarchical micro-mesoporous carbons. <i>Carbon</i> , 2021 , 178, 113-124	10.4	9
450	Manganese Oxide Carbon-Based Nanocomposite in Energy Storage Applications. 2021 , 2, 232-248		12
449	Reversible hydrogenation and irreversible epoxidation induced by graphene oxide electrolysis. <i>Carbon</i> , 2021 , 177, 26-34	10.4	3
448	Metal/Metal Oxide Nanoparticles-Composited Porous Carbon for High-Performance Supercapacitors. 2021 , 38, 102479		17
447	Simple and cost-effective synthesis of activated carbon@few layers of graphene composite electrode for supercapacitor applications. 2021 , 1166, 012007		0
446	Divalent Ion Selectivity in Capacitive Deionization with Vanadium Hexacyanoferrate: Experiments and Quantum-Chemical Computations. 2021 , 31, 2105203		9
445	Designing Ultrasmall Carbon Nanospheres with Tailored Sizes and Textural Properties for High-Rate High-Energy Supercapacitors. 2021 , 13, 32916-32929		4
444	Improved electrochemical performance of symmetric polyaniline/activated carbon hybrid for high supercapacitance: Comparison with indirect capacitance. 2021 , 32, 4490		1
443	Evaluation of Titanate Nanotubes (TiNTs) as a Modifier for the Determination of Lead (II) by Differential Pulse Adsorptive Stripping Voltammetry (DPAdSV). 1-13		0
442	Carbon aerogels with integrated engineered macroporous architectures for improved mass transport. <i>Carbon</i> , 2021 , 179, 125-132	10.4	1
441	Polypyrrole/CNT/cotton Composite Yarn Supercapacitor for Wearable Electronics. 1		0
440	A critical review on biochar-based engineered hierarchical porous carbon for capacitive charge storage. 2021 , 145, 111029		24
439	Nanocarbon-Iridium Oxide Nanostructured Hybrids as Large Charge Capacity Electrostimulation Electrodes for Neural Repair. 2021 , 26,		1
438	A review of supercapacitors modeling, SoH, and SoE estimation methods: Issues and challenges. 2021 , 45, 18424		7

437	A fascinating pH independent catalyst for hydrogen evolution reaction: Crystalline bimetallic hcp-Co Rh1- alloy nanofibers driven by thermally induced phase transition from a single phase of CoRh ₂ O ₄ . 2021 , 553, 149568	2
436	Design principles and direct applications of cobalt-based metal-organic frameworks for electrochemical energy storage. 2021 , 438, 213872	20
435	Recovering renewable carbon materials from automotive shredder residue (ASR) for micro-supercapacitor electrodes. 2021 , 304, 127131	8
434	Soybean root-derived N, O co-doped hierarchical porous carbon for supercapacitors. 2021 , 555, 149726	21
433	Activated Carbon Derived from Cellulose and Cellulose Acetate Microspheres as Electrode Materials for Symmetric Supercapacitors in Aqueous Electrolytes. 2021 , 35, 12653-12665	8
432	On the need for simultaneous electrochemical testing of positive and negative electrodes in carbon supercapacitors. 2021 , 384, 138372	4
431	Synthesis of polyaniline nanotubes decorated with graphene quantum dots: Structural & electrochemical studies. 2021 , 388, 138614	3
430	Recent advances in graphene-based micro-supercapacitors: Processes and applications. 1	2
429	Asymmetric Fiber Supercapacitors Based on a FeC ₂ O ₄ /FeOOH-CNT Hybrid Material. 2021 , 7, 62	0
428	Flax-Derived Carbon: A Highly Durable Electrode Material for Electrochemical Double-Layer Supercapacitors. 2021 , 11,	1
427	Low-Cost Activated Carbon Electrodes from Waste Maple Leaves for Organic Electric Double-Layer Capacitors. 2021 , 168, 080532	0
426	CoPO Microplate/Bacterial Cellulose-Derived Carbon Nanofiber Composites with Enhanced Electrochemical Performance. 2021 , 11,	2
425	Comparative Study of the Structural Features and Electrochemical Properties of Nitrogen-Containing Multi-Walled Carbon Nanotubes after Ion-Beam Irradiation and Hydrochloric Acid Treatment. 2021 , 11,	2
424	Activated Carbon from Corncoobs Doped with RuO ₂ as Biobased Electrode Material. 2021 , 2, 324-343	2
423	Constructing graphene-coupled nitrogen-doped carbon-based all-carbon hybrid for hybrid Li-ion supercapattery: An investigation and insight into charge-averaged charge/discharge voltage analysis. 2021 , 872, 159660	2
422	Chitin and chitosan based biopolymer derived electrode materials for supercapacitor applications: A critical review. 2021 , 104, 155-155	19
421	One-pot microwave-assisted synthesis of porous reduced graphene oxide as an electrode material for high capacitance supercapacitor. 2021 , 386, 138439	4
420	A critical review on the electrosorption of organic compounds in aqueous effluent - Influencing factors and engineering considerations. 2021 , 112128	3

4 ¹⁹	Green and facile synthesis of porous carbon spheres from waste solution for high performance all-solid-state symmetric supercapacitors. 2021 , 46, 32373-32384	2
4 ¹⁸	Synthesis of biomass-derived carbon aerogel/MnOx composite as electrode material for high-performance supercapacitors. 2021 , 390, 138817	4
4 ¹⁷	Aqueous-based, high-density nanoporous carbon xerogels with high specific surface area for supercapacitors. 1	0
4 ¹⁶	Electrospun deposited Mn ₂ O ₃ /GO nanofiber composite electrode for hybrid coin cell supercapacitor devices. 1	
4 ¹⁵	Carbon-based slurry electrodes for energy storage and power supply systems. 2021 , 40, 461-489	8
4 ¹⁴	The mechanical and electrochemical properties of polyaniline-coated carbon nanotube mat. 2021 , 41, 102757	1
4 ¹³	Facile immobilization of iron on carbon nanospheres using organometallic-complex for supercapacitor applications. 1-9	
4 ¹²	High electrical conductivity and oxidation reduction reaction activity of tungsten carbide/carbon nanocomposite synthesized from palm oil by solution plasma process. 2021 , 11, 1587-1593	
4 ¹¹	Performance enhancement of graphene/GO/rGO based supercapacitors: A comparative review. 2021 , 28, 102685	4
4 ¹⁰	Simulation of cyclic voltammetry in structural supercapacitors with pseudocapacitance behavior. 2021 , 390, 138822	6
4 ⁰⁹	Design and synthesis of novel electroactive 2,2':5',2''-terthiophene monomers including oxyethylene chains for solid-state flexible energy storage applications. 2021 , 389, 138662	1
4 ⁰⁸	Application of step potential electrochemical spectroscopy in pouch cell prototype capacitors. 2021 , 390, 138845	1
4 ⁰⁷	Aqueous electrochemical energy storage system based on phenanthroline- and anthraquinone-modified carbon electrodes. 2021 , 390, 138862	3
4 ⁰⁶	Analyses of dispersive effects and the distributed capacitance in the time and frequency domains of activated carbon nanofiber electrodes as symmetric supercapacitors. 2021 , 402, 139299	1
4 ⁰⁵	Monte Carlo simulations and mean-field modeling of electric double layers at weakly and moderately charged spherical macroions. 2021 , 104, 034609	1
4 ⁰⁴	Hybrid Li-Ion Capacitor Operated within an All-Climate Temperature Range from -60 to +55 °C. 2021 , 13, 45630-45638	2
4 ⁰³	Structural pore elucidation of super-activated carbon based on the micro-domain structure model. 2021 , 101, 186-194	0
4 ⁰²	A review on novel activation strategy on carbonaceous materials with special morphology/texture for electrochemical storage. 2021 , 60, 572-590	21

401	Relationships between polypyrrole synthesis conditions, its morphology and electronic structure with supercapacitor properties measured in electrolytes with different ions and pH values. 2021 , 391, 138892	3
400	Carbon materials for stable Li metal anodes: Challenges, solutions, and outlook.	9
399	Design principles of high-voltage aqueous supercapacitors. 2021 , 21, 100739	8
398	Dual-role of ZnO as a templating and activating agent to derive porous carbon from polyvinylidene chloride (PVDC) resin. 2021 , 422, 130047	4
397	Hybrid materials based on pyrrhotite, troilite, and few-layered graphitic nanostructures: Synthesis, characterization, and cyclic voltammetry studies. 2021 , 563, 150327	0
396	Simple technique of multiwalled carbon nanotubes growth on aluminum foil for supercapacitors. 2021 , 272, 115342	1
395	Recent advances in potassium-ion hybrid capacitors: Electrode materials, storage mechanisms and performance evaluation. 2021 , 41, 108-132	36
394	Pressurized physical activation: A simple production method for activated carbon with a highly developed pore structure. <i>Carbon</i> , 2021 , 183, 735-742	10.4 8
393	2-amino-6-methylpyridine based salt converted to carbon electrode material for supercapacitive application. 2021 , 1244, 130895	
392	Functionalized biochar electrodes for asymmetrical capacitive deionization. 2021 , 516, 115240	6
391	Enhanced ammonium removal and recovery from municipal wastewater by asymmetric CDI cell equipped with oxygen functionalized carbon electrode. 2021 , 274, 119064	0
390	Characterization and electrochemical studies of MWCNTs decorated with Ag nanoparticles through pulse reversed current electrodeposition using a deep eutectic solvent for energy storage applications. 2021 , 15, 342-359	7
389	Waste coffee grounds derived nanoporous carbon incorporated with carbon nanotubes composites for electrochemical double-layer capacitors in organic electrolyte. 2021 , 43, 103169	7
388	Recent advancements in multifunctional applications of sol-gel derived polymer incorporated TiO ₂ -ZrO ₂ composite coatings: A comprehensive review. 2021 , 6, 100173	3
387	Role of magnetism present in the cobaltites (ACo ₂ O ₄ A = Co, Mn, and Fe) on the charge storage mechanism in aqueous supercapacitor. 2021 , 568, 150966	0
386	Hierarchical Structured Multidimensional Nano Carbon Bowl @MoS ₂ /Graphene Electrodes with Enhanced Electrochemical Capacitance Performances. 2021 , 887, 161401	1
385	Electrochemical oxidation of ciprofloxacin in different aqueous matrices using synthesized boron-doped micro and nano-diamond anodes. 2022 , 204, 112027	7
384	Biochar as a novel carbon-negative electron source and mediator: electron exchange capacity (EEC) and environmentally persistent free radicals (EPFRs): a review. 2022 , 429, 132313	9

383	The Electrochemical Performance of Simple, Flexible and Highly Thermally Stable PVA-TiO ₂ Nanocomposite in an All-Solid-State Supercapacitor. 2021 , 20, 215-223	1
382	Biopolymer-based (nano)materials for supercapacitor applications. 2021 , 609-671	0
381	Low-cost supercapacitor based on colloidal graphite. 2021 , 24,	0
380	Progress of Biomaterials Applications in Supercapacitors. 2021 ,	
379	Influence of Magnetic Field on the Electrodeposition and Capacitive Performances of MnO ₂ . 2021 , 7, 19	0
378	Electrocatalytic Activity of Schiff Base Containing Copper Phthalocyanines Towards the Detection of Catechol: Effect of Heteroatoms and Asymmetry.	
377	Synergetic Effect of NiO _x Decoration and Oxygen Plasma Treatment on Electrochemical Capacitor Performance of Vertical Graphene Nanosheets. 2021 , 4, 791-800	4
376	A Tubular Electrochemical Reactor for Slurry Electrodes. 2020 , 7, 2665-2671	7
375	Sustainable Energy-Storage Materials from Lignin/Graphene Nanocomposite-Derived Porous Carbon Film. 2017 , 5, 1927-1935	23
374	NOVEL CARBONACEOUS MATERIALS FOR APPLICATION IN THE ELECTROCHEMICAL SUPERCAPACITORS. 2006 , 5-20	4
373	HIGH RESOLUTION TRANSMISSION ELECTRON MICROSCOPY IMAGE ANALYSIS OF DISORDERED CARBONS USED FOR ELECTROCHEMICAL STORAGE OF ENERGY. 2006 , 411-424	1
372	MODELING POROSITY DEVELOPMENT DURING KOH ACTIVATION OF COAL AND PITCH-DERIVED CARBONS FOR ELECTROCHEMICAL CAPACITORS. 2006 , 63-72	1
371	GENERAL PROPERTIES OF IONIC LIQUIDS AS ELECTROLYTES FOR CARBON-BASED DOUBLE LAYER CAPACITORS. 2006 , 73-83	1
370	Electrochemical Supercapacitors: History, Types, Designing Processes, Operation Mechanisms, and Advantages and Disadvantages. 2020 , 11-36	3
369	Activated Carbon as Electrode Materials for Supercapacitors. 2020 , 113-144	16
368	Nanoflakes MnO ₂ Thin Film as a Supercapacitor Electrode. 2018 , 531-537	1
367	Carbon Nanofibers. 2013 , 233-262	25
366	Application of Carbon Nanotubes for Resolving Issues and Challenges on Electrochemical Capacitors. 2015 , 415-445	1

365	Monolithic Electrode for Electric Double-Layer Capacitors Based on Macro/Meso/Microporous S-Containing Activated Carbon with High Surface Area. 2013 , 79-89	3
364	Electrochemical Application of Carbon Nanotubes. 2003 , 305-318	5
363	Encyclopedia of Nanotechnology. 2016 , 2813-2827	0
362	Graphene Reinforced Biopolymer Nanocomposites in Energy Storage Applications. 2021 , 233-250	1
361	Carbon nanosheets by the graphenization of ungraphitizable isotropic pitch molecules. <i>Carbon</i> , 2017 , 121, 479-489	10.4 23
360	High specific power/energy, ultralong life supercapacitors enabled by cross-cutting bamboo-derived porous carbons. 2020 , 109, 108044	9
359	Analysis of the electrocatalytic activity of molybdenum carbide thin porous electrodes toward the hydrogen evolution reaction. 2016 , 220, 363-372	16
358	Superior environmentally friendly stretchable supercapacitor based on nitrogen-doped graphene/hydrogel and single-walled carbon nanotubes. 2020 , 30, 101505	9
357	Low-cost supercapacitor based on multi-walled carbon nanotubes and activated carbon derived from fruit shells. 2020 , 6, e03202	12
356	Study of electrode and electrolyte material of supercapacitor. 2020 , 33, 1573-1578	3
355	Carbon-Based Fibers for Advanced Electrochemical Energy Storage Devices. 2020 , 120, 2811-2878	156
354	Polyethylene glycol mediated synthesis of iron vanadate (FeVO ₄) nanoparticles with supercapacitive features. 2020 , 7, 064010	5
353	Treatment of ETA wastewater using GAC as particle electrodes in three-dimensional electrode reactor. 2013 , 27, 241-249	1
352	Editors' Choice Review Activated Carbon Electrode Design: Engineering Tradeoff with Respect to Capacitive Deionization Performance. 2020 , 167, 143501	25
351	Correlation between the Molecular Structure of Reducing Agent and pH of Graphene Oxide Dispersion on the Formation of 3D-Graphene Networks. 2020 , 9, 071003	26
350	Nanotextured Carbons for Electrochemical Energy Storage. 2006 ,	3
349	Industrial Production of Double-Layer Capacitors. 2009 , 429-467	3
348	Carbide-Derived Carbons and Templated Carbons. 2009 , 77-113	3

347	Future Scope and Directions of Nanotechnology in Creating Next-Generation Supercapacitors. 2014 , 153-190	0
346	Study on Synthesis and Electrochemical Performance of Micro-Mesoporous Nano-Carbon Derived from Seaweed as Electrode Material for Supercapacitors. 2017 , 07, 11-20	1
345	Construction and Characterisation of Double Layer Capacitors. 2010 , 117, 228-233	5
344	Buckling characteristics of multiwalled carbon nanotubes under external pressure. 2009 , 2, 209-222	8
343	Electrospun Metal Oxide/Carbon Nanofiber Composite Electrode for Supercapacitor Application. 2015 , 26, 239-246	3
342	Influence of Textural Structure by Heat-treatment on Electrochemical Properties of Pitch-based Activated Carbon Fiber. 2015 , 26, 598-603	3
341	Mechanical properties and application analysis of spider silk bionic material. 2020 , 20, 443-457	15
340	Temperature Dependent Characteristics of Activated Carbons from Walnut Shells for Improved Supercapacitor Performance. 2018 , 20, 99	8
339	Supercapacitor Properties Under Changing Load. 2019 , 218, 81-93	1
338	Electronic properties of pristine and modified single-walled carbon nanotubes. 2013 , 183, 1145-1174	8
337	Synthesis and Characterization of Phase Pure NiO Nanoparticles via the Combustion Route using Different Organic Fuels for Electrochemical Capacitor Applications. 2015 , 6, 16-25	11
336	Effect of Chemically Treated / Untreated Carbon Cloth: Potential Use as Electrode Materials in the Capacitive Deionization Process of Desalination of Aqueous Salt Solution. 2015 , 6, 139-145	5
335	Synthesis and Characterization of Porous Carbon/Fe Nanocomposite. 2010 , 25, 457-462	2
334	Performance Improvement of Flexible Thin Film Si Solar Cells using Graphite Substrate. 2019 , 29, 317-321	1
333	Polyaniline as Proficient Electrode Material for Supercapacitor Applications. 2019 , 190-219	5
332	The Effect of Diffusion Barrier and thin Film Deposition Temperature on Change of Carbon Nanotubes Length. 2017 , 24, 248-253	2
331	Lignocellulosic-Based Activated Carbon Prepared by a Chemical Impregnation Method as Electrode Materials for Double Layer Capacitor. 2017 , 07, 175-190	3
330	Application of Electrochemical Supercapacitor to Photovoltaic System on Unmanned Flying Machine. 2014 , 05, 77-87	1

329	Synthesis of Mesoporous Carbons with Controllable N-Content and Their Supercapacitor Properties. 2008 , 29, 413-416	30
328	Electrochemical Behaviors of PAN/Ag-based Carbon Nanofibers by Electrospinning. 2008 , 29, 777-781	22
327	Preparation and Electrochemical Performance of CNT Electrode with Deposited Titanium Dioxide for Electrochemical Capacitor. 2010 , 31, 423-428	9
326	The Preparation of Non-aqueous Supercapacitors with Lithium Transition-Metal Oxide/Activated Carbon Composite Positive Electrodes. 2010 , 31, 3183-3189	9
325	Template Synthesis of Nitrogen-Doped Short Tubular Carbons with Big Inner Diameter and their Application in Electrochemical Sensing. 2014 , 35, 2423-2430	2
324	Synthesis of 7-Methyl-3-(2'-oxo-2H-benzopyran-6'-yl)-5H-1,4-thiazolo-[3,2-a]pyrimidin-5-one and Its Derivatives. 2010 , 54, 9-12	1
323	Surface Treatment of Multi-walled Carbon Nanotubes for Increasing Electric Double-layer Capacitance. 2010 , 54, 93-98	4
322	Synthesis, Properties and Potential Applications of Porous Graphene: A Review. 2013 , 5, 260	3
321	Electrochemical Behavior of Lithium Titanium oxide/activated Carbon Composite for Electrochemical Capacitor. 2010 , 1, 63-68	4
320	Effect of Chemically Treated / Untreated Carbon Cloth: Potential Use as Electrode Materials in the Capacitive Deionization Process of Desalination of Aqueous Salt Solution. 2015 , 6, 139-145	3
319	Electrochemical Properties of EDLC Electrodes Prepared by Acid and Heat Treatment of Commercial Activated Carbons. 2008 , 9, 137-144	12
318	Synthesis and Electrochemical Performance of Polypyrrole-Coated Iron Oxide/Carbon Nanotube Composites. 2012 , 13, 157-160	15
317	Preparation and application of reduced graphene oxide as the conductive material for capacitive deionization. 2014 , 15, 38-44	17
316	Effect of microporosity on nitrogen-doped microporous carbons for electrode of supercapacitor. 2014 , 15, 210-213	12
315	Preparation and characterization of chemically activated carbon materials for CO ₂ capture. 2016 , 17, 85-89	8
314	Enhancing the performance of electrochemical capacitor electrodes by modifying their carbon nanopores with redox-active materials. 2019 , 2019, 103-113	8
313	Influence of Oxygen-/Nitrogen-containing Functional Groups on the Performance of Electrical Double-Layer Capacitor. 2012 , 50, 1043-1048	3
312	Graphene-Mercury-Graphene Sandwich Electrode for Electroanalysis. 2021 , 8, 4277	0

- 311 Physical and chemical properties of carbon nanotubes in view of mechanistic neuroscience investigations. Some outlook from condensed matter, materials science and physical chemistry. **2021**, 131, 112480 2
- 310 Synergistic combination of N/P dual-doped activated carbon with redox-active electrolyte for high performance supercapacitors. **2021**, 110449 3
- 309 Growth, Properties, and Applications of Branched Carbon Nanostructures. **2021**, 11, 4
- 308 Electrocatalytic activity of Schiff base containing copper phthalocyanines towards the detection of catechol: Effect of heteroatoms and asymmetry. **2021**, 210, 115518 1
- 307 Vertical Growth of CNTs by Bias-assisted ICPHFCVD and their Field Emission Properties. **2002**, 39, 171-177
- 306 Fabrication of Aluminum Powder Disk by a Template Method and Its Etching Condition for an Electrode of Hybrid Supercapacitor. **2003**, 6, 145-152
- 305 Structure of porous carbon materials for energy storage applications. **2004**, 33, 114-120
- 304 Redox Capacitor Properties of Indole Derivatives II Electrochemical Characteristics of Substituted Cyclic Indole Trimers. **2005**, 73, 813-822 2
- 303 Nanotextured Carbons for Electrochemical Energy Storage. **2006**, 295-319
- 302 Benefits in Energy Budget. 147
- 301 Preparation and capacitor performance of composites based on mesoporous carbon/nanofibrous carbons. **2011**, 2011, 6-10
- 300 Encyclopedia of Sustainability Science and Technology. **2012**, 6769-6790
- 299 Effect of KOH Activation on Electrochemical Behaviors of Graphite Nanofibers. **2012**, 36, 321-325
- 298 Electrochemical characterization of supercapacitors based on carbons derived from Sorona activated by ZnCl₂. **2012**, 21, 309-314
- 297 Synthesis of Well-Distributed SnO₂-Sn-Ag₃Sn Nanoparticles in Carbon Nanofibers Using Co-Electrospinning. **2013**, 23, 143-148 1
- 296 Krajowe badania nanorurek węglowych. **2014**,
- 295 Electrochemical Characteristics of Hybrid Capacitor using Core-shell Structure of MCMB/Li₄Ti₅O₁₂ Composite. **2014**, 52, 52-57 1
- 294 Surface Chemistry of Green Carbons. **2014**, 1-33 1

293 Supercapacitors: Carbon Nanotube-Conducting Polymer Composites. 4685-4696

292 Synthesis and application of carbon nanostructured materials as the electrodes of supercapacitors. **2014**, 49-55

291 Doppelschichtkondensatoren. **2015**, 23-155

290 Encyclopedia of Nanotechnology. **2015**, 1-15

289 DESSALINIZAÇÃO DE ÁGUA UTILIZANDO TECNOLOGIA DE DEIONIZAÇÃO CAPACITIVA: ANÁLISE DE DIFERENTES ELETRODOS.

288 Synthesis and Characterization of Phase Pure NiO Nanoparticles via the Combustion Route using Different Organic Fuels for Electrochemical Capacitor Applications. **2015**, 6, 16-25 3

287 Effects of the Mixing of an Active Material and a Conductive Additive on the Electric Double Layer Capacitor Performance in Organic Electrolyte. **2015**, 25, 132-137

286 Polymer Nanocomposites for Energy Storage Applications. 483-503 1

285 Electron Transfer and Charge Storage in Thin Films of Nanoparticles. **2016**, 869-939

284 Zakończenie. **2016**,

283 Zastosowania grafenu. **2016**,

282 Cluster-Assembled Carbon Thin Films for Planar Supercapacitors. 1-7

281 Hybrid Modeling of Membrane Processes. **2016**, 149-172

280 Introduction. **2017**, 1-13

279 Doppelschichtkondensatoren. **2018**, 23-164

278 Biomass derived Nanoporous Carbon Based Electrodes for High Performance Symmetric Supercapacitor. **2019**, 8, 33-37

277 Conducting nanocomposite coatings. **2019**, 73-117

276 Module Stabilizing of Biocarbon Based Electrochemical Capacitor. **2019**, 2, 32-38

275 New Type of Stacked Supercapacitors. **2019**, 97-105

274 Novel P(VDF-TrFE) Polymer Electrolytes: Their Use in High-Efficiency, All-Solid-State Electrochemical Capacitors Using ZnO Nanowires. **2019**, 9, 126-132

273 ~~Novel P(VDF-TrFE) Polymer Electrolytes: Their Use in High-Efficiency, All-Solid-State Electrochemical Capacitors Using ZnO Nanowires.~~ **2019**, 14, 13-18

2

272 Mechanochemical Processing of Natural Graphite under Different Atmospheres for Fabricating Electrodes Used in Electric Double-layer Capacitors. **2020**, 88, 94-98

1

271 Facile Preparation of Activated Carbon/Zinc Oxide Nanocomposite for Supercapacitor Application. **2020**, 13, 223-231

270 Facile template-free synthesis of mesoporous cobalt sulfide for high-performance hybrid supercapacitors. **2021**, 32, 28663

269 Green self-assembly of CuCe₂(MoO₄)₄/montmorillonite-K10 nanocomposites; a promising solid-state hydrogen storage profile. **2021**, 310, 122401

268 Amperometric Sulfite Sensor Using Electrodecorated Pt Particles onto an Aminated Glassy Carbon Electrode Prepared by Stepwise Electrolysis. **2020**, 36, 1547-1550

1

267 Oxygen-Rich Non-Graphitic Carbon Derived from 'Citrus sinensis' for High-Energy Density Pseudocapacitive Charge Storage. **2020**, 5, 14993-15003

266 Electrical Conductivity of Carbon Electrodes by Mixing Carbon Rod and Electrolyte Paste of Spent Battery. **2021**, 10, 221-227

1

265 Materials under research: Nanomaterials, aerogels, biomaterials, composites, inks. **2022**, 3-31

264 Graphene electrode functionalization for high performance hybrid energy storage with vanadyl sulfate redox electrolytes. **2022**, 517, 230712

1

263 Activated-Carbon Based Electrochemical Capacitors. **2020**,

262 Research of MnCO₃/CB Composite on Properties Apply to Supercapacitors. **2020**, 185, 04023

261 Tailoring the Electrocatalytic Properties of sp²-Hybridized Carbon Nanomaterials with Molecule Doping.

260 Turning bulk V₂O₅ into an active capacitive material by thermally driven nanostructuring and surface activation. **2021**, 133467

1

259 Synthesis and Characterization of Graphene Oxide-based Nanocomposite NaCr₂O₄ /GO for Electrochemical Applications. **2021**, 15, 6287-6287

3

258 Nanostructured Carbon-Based Electrode Materials for Supercapacitor Applications. **2021**, 317-355

1

- 257 Carbon Materials as Electrodes of Electrochemical Double-Layer Capacitors: Textural and Electrochemical Characterization. **2021**, 149-185
- 256 Electrochemical Detection for Sulfite Using Glassy Carbon Electrode Modified by Electrodeposition of Platinum Particles on Nitrogen-Containing Functional Groups. **2020**, 88, 441-443
- 255 Rapid preparation of nitrogen-doped carbon and its use in electrochemical capacitors. **2020**, 2020, 113-121
- 254 The Structure and Electrochemical Properties of PAN-Based Carbon Aerogel Composite. **2021**, 312-323
- 253 Effect of a Carbon Matrix on the Properties of Nanocomposites Based on Highly Dispersed Carbon Black. **2020**, 54, 392-400
- 252 Structural supercapacitor constructed by SnO₂/graphene coated nickel foam electrode and synchronously synthesized polymer cement electrolyte at room temperature. **2022**, 277, 125488 1
- 251 Imidazolium cation linkers of polyoxomolybdate-polypyrrole nanocomposite electrode-based energy storage supercapacitors. **2022**, 277, 125441 0
- 250 Biochar and its twin benefits: Crop residue management and climate change mitigation in India. **2022**, 156, 111959 2
- 249 Surface Modified Activated Carbons: Sustainable Bio-Based Materials for Environmental Remediation. **2021**, 11, 4
- 248 Electrochemical storage reactions of hydrogen in activated carbon from phenolic resin. **2021**, 2
- 247 Carbon cryogel preparation and characterization. **2021**, 108727 0
- 246 Electrochemical Sensitization of Activated Carbon by Microporous MOF for Supercapacitor Applications. **2022**, 9, e202101425
- 245 Nitrogen-doped activated porous carbon for 4.5 V lithium-ion capacitor with high energy and power density. **2021**, 47, 103675 1
- 244 Sustainable Preparation of Nanoporous Carbons via Dry Ball Milling: Electrochemical Studies Using Nanocarbon Composite Electrodes and a Deep Eutectic Solvent as Electrolyte.. **2021**, 11, 4
- 243 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
- 242 Review Pseudocapacitive Energy Storage Materials from H₂O-g-Phase Compounds to High-Entropy Ceramics. 1
- 241 Stable and enhanced electrochemical performance based on hierarchical core-shell structure of CoMnO@NiSe electrode for hybrid supercapacitor. **2021**, 33, 2
- 240 Linear and non-linear pseudocapacitances with or without diffusion control. **2021**, 3

- 239 Influence of sequential HTC pre-treatment and pyrolysis on wet food-industry wastes: Optimisation toward nitrogen-rich hierarchical carbonaceous materials intended for use in energy storage solutions. **2021**, 151648 1
- 238 Synthesis of perovskite bismuth ferrite embedded nitrogen-doped Carbon (BiFeO₃-NC) nanocomposite for energy storage application. **2021**, 44, 103515 3
- 237 Multifunctional Composite Aerogels As Micropollutant Scavengers. **2022**, 229-266
- 236 . **2021**, 9, 154957-154964 1
- 235 Metal OxideCarbon Nanocomposites for Electrochemical Storage. **2022**, 49-67
- 234 High-Mass-Loading Electrodes Prepared by Carbonizing P-Phenylenediamine-Modified Polyaniline Nanofibers. 0
- 233 Optimal selection of materials for high performance of carbon-aerogel supercapacitors. **2022**,
- 232 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
- 231 Hydrothermal, KOH-assisted synthesis of lignin-derived porous carbon for supercapacitors: value-added of lignin and constructing texture properties/specific capacitance relationships. **2022**, 16, 570-580 0
- 230 Role of low-dimensional carbon nanostructures in hybrid material as anticorrosive coating. **2022**, 163, 106682
- 229 A review on the development of a porous carbon-based as modeling materials for electric double layer capacitors. **2022**, 15, 103625 2
- 228 Nitrogen-doped graphene fiber electrodes with optimal micro-/meso-/macro-porosity ratios for high-performance flexible supercapacitors. **2022**, 520, 230866 1
- 227 Reversible surface reconstruction of Na₃NiCO₃PO₄: A battery type electrode for pseudocapacitor applications. **2022**, 520, 230903 0
- 226 Interaction of resorcinol-formaldehyde carbon aerogels with water: A comprehensive NMR study. *Carbon*, **2022**, 189, 57-70 10.4 1
- 225 Deep eutectic solvents as effective electrolyte from potassium iodide and ethylene glycol exhibiting redox behavior for supercapacitor application. **2022**, 48, 103955 1
- 224 The influence of carboxyl group on nitrogen doping for defective carbon nanotubes toward oxygen reduction reaction. *Carbon*, **2022**, 189, 369-376 10.4 0
- 223 Modification, Production, and Methods of KOH-Activated Carbon. 0
- 222 Enhancing the Performance of a Metal-Free Self-Supported Carbon Felt-Based Supercapacitor with Facile Two-Step Electrochemical Activation.. **2022**, 12, 2

221	Pseudocapacitive binary metal oxide NiMn ₂ O ₄ nanoparticles as an electrode for high-powered hybrid supercapacitors. 2022 , 33, 3139	0
220	Preparation and electrochemical characterization of porous carbon pearls from carboxymethyl cellulose for electrical double-layer capacitors. 1	1
219	Preparation of hierarchically porous carbons with enhanced porosity and energy storage capacity through an internal phase-external phase coefficient HIPE templating. 2022 , 330, 111614	0
218	Fabrication and characterizations of hybrid materials based on polyaniline, metal oxide, and graphene nano-platelets for supercapacitor electrodes. 2022 , 137, 109201	2
217	A Comprehensive Review on Supercapacitor Applications and Developments. 2022 , 15, 674	19
216	Electrode materials from cuprous oxide and chitin nanofibrils for supercapacitors with high specific capacity. 1	1
215	Porosity of Nanostructured Carbon Thin Films. 2022 , 159-179	
214	Twist-Stabilized, Coiled Carbon Nanotube Yarns with Enhanced Capacitance.. 2022 ,	4
213	Ultrahigh-power supercapacitors from commercial activated carbon enabled by compositing with carbon nanomaterials. 2022 , 403, 139728	1
212	Bridging Electronics and Micro Energy Storage. 2022 , 59-84	
211	Value-Added Bio-carbon Production through the Slow Pyrolysis of Waste Bio-oil: Fundamental Studies on Their Structure-Property-Processing Co-relation.. 2022 , 7, 1612-1627	0
210	Reline deep eutectic solvent as a green electrolyte for electrochemical energy storage applications.	10
209	Recent advances on fiber-reinforced multifunctional composites for structural supercapacitors. 2022 , 4, 012001	0
208	Gold nanoparticles for power retention in electrochemical capacitors with KSCN-based aqueous electrolyte. 2022 , 14, 100087	
207	Atomic-Level Structure of Mesoporous Hexagonal Boron Nitride Determined by High-Resolution Solid-State Multinuclear Magnetic Resonance Spectroscopy and Density Functional Theory Calculations.	3
206	Graphene Quantum Dot Inlaid Carbon Nanofibers: Revealing the Edge Activity for Ultrahigh Rate Pseudocapacitive Energy Storage. 2022 , 47, 158-158	1
205	PVA:Nano-eggshell microcomposite as an energy storage material for supercapacitors. 2022 , 33, 6496	0
204	Capacitive characteristics and electrosorption of hydrogen in microporous activated carbon fibers. 2022 , 47, 10194-10194	

203	Regeneration of activated carbon adsorbent by anodic and cathodic electrochemical process. 2022 , 159, 1150-1163	1
202	Facile synthesis of a binary composite from watermelon rind using response surface methodology for supercapacitor electrode material. 2022 , 49, 104147	1
201	Aqueous Processed Ni-Rich Li(Ni _{0.8} Co _{0.1} Mn _{0.1})O ₂ Cathodes Along with Water-Based Binders and a Carbon Fabric as 3-D Conductive Host. 2021 , 168, 120538	1
200	Sandwich-like chitosan porous carbon Spheres/MXene composite with high specific capacitance and rate performance for supercapacitors. 2022 , 7, 63-72	17
199	Metal oxide-carbon composites for supercapacitor applications. 2022 , 133-177	0
198	Composite Structural Supercapacitors: High-Performance Carbon Nanotube Supercapacitors Through Ionic Liquid Localisation.	
197	Graphene Supercapacitor Electrode of Liquid Hydrocarbons using CVD Process. 2022 ,	
196	Development of Perovskite Based Electrode Materials for Application in Electrochemical Supercapacitors: Present Status and Future Prospects. 2022 , 34, 497-507	
195	Electrical conductivity of metal oxide-carbon composites. 2022 , 61-74	
194	Metal oxide-carbon composite: synthesis and properties by using conventional enabling technologies. 2022 , 25-60	
193	XXXXXXXXXX XXXXXXXXXX 109-115	
192	Communication Demonstrating the Role of Mass Transport in Double Layer Formation. 2022 , 169, 020578	
191	Upcycling process of transforming waste coffee into spherical graphene by flash pyrolysis for sustainable supercapacitor manufacturing with virgin graphene electrodes and its comparative life cycle assessment. 1	2
190	Study of the preparation and electrochemical performance of porous carbon derived from hypercrosslinked polymers. 1	0
189	Vaporized Hydrothermal Functionalization of Carbon Fiber and Its Superior Supercapacitor Performance. 2022 , 36, 4052-4064	1
188	IrO ₂ /nO Composite Nanorod Array as an Acid-Stable Electrocatalyst with Superior Activity for the Oxygen Evolution Reaction. 2022 , 5, 3810-3820	
187	Polymeric Network Hierarchically Organized on Carbon Nano-onions: Block Polymerization as a Tool for the Controlled Formation of Specific Pore Diameters.. 2022 , 4, 2442-2458	0
186	Progress and perspective in mechanically robust carbon aerogels. 2022 , 131, 110904	

185	Bitumen and asphaltene derived nanoporous carbon and nickel oxide/carbon composites for supercapacitor electrodes.. 2022 , 12, 4095	1
184	Evolution of nanoporosity and electrochemical behavior in organosilicon polymer derived carbon hybrids. 2022 , 48, 8216-8227	
183	Effect of Hierarchical Porosity on PMo12 Adsorption and Capacitance in Hybrid Carbon/PMo12 Electrodes for Supercapacitors. 2022 , 36, 3987-3996	2
182	Valorization of rubberwood waste into porous carbon. 2022 , 1234, 012031	
181	Materials based on molybdenum disulfide as a catalyst in organic transformations: An overview. 1-20	0
180	Facile Synthesis of Sustainable Biomass-Derived Porous Biochars as Promising Electrode Materials for High-Performance Supercapacitor Applications.. 2022 , 12,	1
179	Electrode Material for Supercapacitors Based on Products of Solid Phase Pyrolysis of Metal-Phthalocyanines. 2022 , 57, 76-80	
178	Revisiting the Effect of Pyrolysis Temperature and Type of Activation on the Performance of Carbon Electrodes in an Electrochemical Capacitor.. 2022 , 15,	0
177	A comprehensive review on batteries and supercapacitors: Development and challenges since their inception.	2
176	A facile synthesis strategy of fungi-derived porous carbon-based iron oxides composite for asymmetric supercapacitors. 2022 , 48, 9197-9204	1
175	Microscopic Simulations of Electrochemical Double-Layer Capacitors.. 2022 ,	5
174	Ozonation with ammoxidation as a method of obtaining O, N-doped carbon electrode material to electrochemical capacitors. 2022 , 413, 140130	0
173	In-situ electrochemical and operando Raman techniques to investigate the effect of porosity in different carbon electrodes in organic electrolyte supercapacitors. 2022 , 50, 104219	1
172	An overview of recent progress in nanostructured carbon-based supercapacitor electrodes: From zero to bi-dimensional materials. <i>Carbon</i> , 2022 , 193, 298-338	10.4 15
171	High-Performance Carbon Electrodes Modified with Polyaniline for Stable and Selective Anion Separation. 2022 , 290, 120807	2
170	Microwave one-step controllable synthesis of NiSb materials for high-performance energy storage. 2022 , 909, 164770	0
169	Chitosan/polypyrrole hybrid film as multistep electrochemical sensor: sensing electrical, thermal and chemical working ambient. 2022 , 152, 111817	3
168	Production of ZnFe2O4 doped carbon cloth-based flexible composite electrodes for supercapacitors. 2021 , 10, 199-205	1

167	Supercapacitor with electrodes based on high-purity single-walled carbon nanotubes. 2021 , 2086, 012067	
166	Electrically Conductive MoS ₂ Reinforced Polyacrylonitrile Nanofibers for Biomedical Applications. 2022 , 2, 2100105	0
165	Schiff-bases for sustainable battery and supercapacitor electrodes. 2021 , 1, 20210128	2
164	Computational study on noncovalent interactions between (n, n) single-walled carbon nanotubes and simple lignin model-compounds. 2021 ,	0
163	Valorization of Albedo Orange Peel Waste to Develop Electrode Materials in Supercapacitors for the Electric Industry. 2021 , 2021, 1-9	0
162	Electrochemical Improvement of the MWCNT/Al Electrodes for Supercapacitors.. 2021 , 14,	0
161	Capacitive performance of electrochemically deposited Co/Ni oxides/hydroxides on polythiophene-coated carbon-cloth. 2022 , 42, 151-162	
160	Synergetic Effects of Mixed-Metal Polyoxometalates@Carbon-Based Composites as Electrocatalysts for the Oxygen Reduction and the Oxygen Evolution Reactions. 2022 , 12, 440	0
159	Carbon-Supported Noble-Metal Nanoparticles for Catalytic Applications A Review. 2022 , 12, 584	5
158	Semi-Rigid Polyurethane Foam and Polymethylsilsesquioxane Aerogel Composite for Thermal Insulation and Sound Absorption. 2022 , 30, 245-253	0
157	Microsphere rGO/MnO ₂ composites as electrode materials for high-performance symmetric supercapacitors synthesized by reflux reaction. 2022 , 109508	0
156	Nanocomposite electrodes using highly conductive sub-millimetre-long single-walled carbon nanotubes pasted with PEDOT:PSS and high-performance actuators. 2022 , 109039	
155	Potential Gradient-Driven Fast-Switching Electrochromic Device. 1880-1887	6
154	Porosity Tunable Poly(Lactic Acid)-Based Composite Gel Polymer Electrolyte with High Electrolyte Uptake for Quasi-Solid-State Supercapacitors.. 2022 , 14,	0
153	Standardized protocols for evaluating platinum group metal-free oxygen reduction reaction electrocatalysts in polymer electrolyte fuel cells.	8
152	Electrochemical Investigation of PANI:PPy/AC and PANI:PEDOT/AC Composites as Electrode Materials in Supercapacitors. 2022 , 14, 1976	0
151	Upscalable ultra thick rayon carbon felt based hybrid organic-inorganic electrodes for high energy density supercapacitors.	1
150	Effective conversion of Cassia fistula dry fruits biomass into porous activated carbon for supercapacitors. 2022 , 286, 126188	0

149	Construction of nickel ferrite nanoparticle-loaded on carboxymethyl cellulose-derived porous carbon for efficient pseudocapacitive energy storage.. 2022 , 622, 327-335	2
148	Fabrication and electrical response of flexible supercapacitor based on activated carbon from bamboo. 2017 , 14, 1600258	6
147	Use of a Superbase/DMSO/CO ₂ Solvent in order to Incorporate Cellulose into Organic Ionogel Electrolyte for Flexible Supercapacitors. 2022 , 137032	1
146	Fundamentals, Mechanism, and Materials for Hybrid Supercapacitors. 2022 , 71-100	1
145	Nanocomposites of Carbon Nanotubes for Electrochemical Energy Storage Applications. 2022 , 245-265	0
144	Supercapacitors for Short-term, High Power Energy Storage. 2022 , 71-98	0
143	A high-performance asymmetric supercapacitor using composite electrodes of layered double hydroxides and holey reduced graphene oxide. 2022 , 52, 104899	1
142	An overview of patents and recent development in flexible supercapacitors. 2022 , 52, 104887	0
141	Efficient electro-assisted adsorption/desorption of phosphate on MOF-derived hierarchically porous carbon electrode. 2022 , 361, 132262	1
140	Dual carbon Li-ion capacitor with high energy density and ultralong cycling life at a wide voltage window.	0
139	A novel single step method to rapidly screen for metal contaminants in beverages, a case study with aluminum. 2022 , 102691	0
138	New Insights into improved Electrochemical performance of graphene synthesized from rice husk Doped Graphite composite electrode for supercapacitor. 2022 , 100887	1
137	In Situ Synthesis of Cobalt Oxide and Carbon Nanocomposite. 2023 , 443-448	
136	Evaluation of Activated Carbon and Platinum Black as High-Capacitance Materials for Platinum Electrodes. 2022 , 22, 4278	0
135	Sansevieria trifasciata biomass-derived activated carbon by supercritical-CO ₂ route: electrochemical detection towards carcinogenic organic pollutant and energy storage application. 2022 , 140672	1
134	Diffusion control and surface control mechanism in hierarchical nanostructured porous zinc-based MOF material for supercapattery.	1
133	Electrochemical and physical properties of pulverized graphite for use in electric double layer capacitors. 2022 , 1, 50-58	
132	Biomass Derived Hierarchical Porous Carbon for Supercapacitor Application and Dilute Stream Co ₂ Capture.	

131	Modeling of the effect of surfactant addition on electrolyte degradation in supercapacitors. 2022,	
130	Highly porous seeding-free boron-doped ultrananocrystalline diamond used as high-performance anode for electrochemical removal of carbaryl from water. 2022, 135497	0
129	A Monolithic Silicon-Mesoporous Carbon Photosupercapacitor with High Overall Photoconversion Efficiency. 2200237	0
128	Electrochemical performance of binder-free Ni(OH) ₂ /RGO battery type electrode materials for supercapacitor. 1-9	0
127	Application of Tungsten-Oxide-Based Electrochromic Devices for Supercapacitors. 2022, 5, 60	0
126	In-situ construction of abundant active centers on hierarchically porous carbon electrode toward high-performance phosphate electrosorption: Synergistic effect of electric field and capture sites. 2022,	0
125	Development of Disposable and Flexible Supercapacitor Based on Carbonaceous and Ecofriendly Materials. 2022, 8, 32	
124	Scalable manufacturing of leaf-like MXene /Ag NWs /cellulose composite paper electrode for all-solid-state supercapacitor.	1
123	Metal-organic frameworks marry carbon: Booster for electrochemical energy storage. 2022, 53, 105104	1
122	Investigation on various emission colours in composite materials based on carbon and luminophors doped with lanthanide ions. 2022, 223, 115953	
121	Polypyrrole/SnCl ₂ modified bacterial cellulose electrodes with high areal capacitance for flexible supercapacitors. 2022, 292, 119679	1
120	Manganese Doping: A Novel Approach to Enhancing Surface Wettability of Carbon Electrodes.	
119	A novel MnO ₂ and carbon nanotube composite with potent electrochemical properties synthesized using a microwave-assisted method for use in supercapacitor electrodes.	0
118	Understanding the effects of electrode meso-macropore structure and solvent polarity on electric double layer capacitors based on a continuum model. 2022,	
117	Electrochemical characterization and degradation of carbon fibre reinforced polymer in quiescent near neutral chloride media. 2022, 6,	0
116	Thermoelectric-Powered Supercapacitors Based on Ni/Mn Nanowires Driven by Quadripartite Electrolyte.	1
115	Stretchable multifunctional self-powered systems with Cu-EGaIn liquid metal electrodes. 2022, 101, 107582	1
114	Composite Structural Supercapacitors: High-Performance Carbon Nanotube Supercapacitors through Ionic Liquid Localisation. 2022, 12, 2558	1

- 113 Structure, Composition, and Properties of Lint Cotton Samples in Dependence of Carbonization Methods. **2022**, 67, 556-565
- 112 Nanoporous Carbon Electrodes Derived from Coffee Side Streams for Supercapacitors in Aqueous Electrolytes. **2022**, 12, 2647 1
- 111 Facile Hydrothermal Synthesis of Binder-Free Hexagonal MnO₂ Nanoparticles for a High-Performance Supercapacitor Electrode Material. **2022**, 12, 1101
- 110 Role of Carbon Material Surface Functional Groups on Their Interactions With Aqueous Solutions. **2022**, 116707
- 109 Electrochemical performance of various activated carbon-multi-walled carbon nanotubes symmetric supercapacitor electrodes in aqueous electrolytes. 0
- 108 Binder-Free MnO₂/MWCNT/Al Electrodes for Supercapacitors. **2022**, 12, 2922 0
- 107 Facile synthesis of reduced graphene oxide from *Azadirachta indica* for optical power limiting applications: an eco-friendly approach.
- 106 Spray pyrolysis: Approaches for nanostructured metal oxide films in energy storage application. **2022**, 54, 105387 0
- 105 Cobalt-embedded nitrogen-doped carbon nanosheets with enhanced oxidase-like activity for detecting perfluorooctane sulfonate. **2022**, 181, 107814 0
- 104 Fabrication of ionic liquid based D-Ti₃C₂/MoO₃ hybrid electrode system for efficient energy storage applications. **2022**, 429, 141036 1
- 103 Membrane capacitive deionization (MCDI) for removal of chromium complexes with AC@SiO₂-NH₂ electrode. **2022**, 10, 108363 0
- 102 Biochar-derived material decorated by MXene/reduced graphene oxide using one-step hydrothermal treatment as high-performance supercapacitor electrodes. **2022**, 199, 224-232 1
- 101 Biomass derived hierarchical porous carbon for supercapacitor application and dilute stream CO₂ capture. **2022**, 199, 249-257 3
- 100 Data-driven machine learning approach for predicting the capacitance of graphene-based supercapacitor electrodes. **2022**, 55, 105411 0
- 99 High energy density solid-state supercapacitors based on porous carbon electrodes derived from pre-treated bio-waste precursor sugarcane bagasse. **2022**, 55, 105421 0
- 98 Engineered Biochar as Supercapacitors. **2022**, 259-290 0
- 97 Recent advances in novel graphene: new horizons in renewable energy storage technologies. **2022**, 10, 11472-11531 1
- 96 Composites Containing Resins and Carbon Nano-Onions as Efficient Porous Carbon Materials for Supercapacitors. 0

95	Metal oxide-based nanocomposites for supercapacitive applications. 2022 , 187-211	0
94	Electrochemical Capacitor Based on Reduced Graphene Oxide/NiS ₂ Composite.	0
93	Waste plastic-derived FWCNT-NiMgAl composite for supercapacitor application.	0
92	Caesium acetate based electrolytes for aqueous electrical double layer capacitors.	0
91	Oxygen Reduction Reaction on Chromium Carbide-Derived Carbons. 2022 , 58, 781-797	0
90	Metal-Free Homocoupling of Pyrene inside the Pores of Mesoporous Carbons via Electrochemical Oxidation: Application for Electrochemical Capacitors. 2022 , 7, 35245-35255	1
89	Manganese doping: A novel approach to enhancing surface wettability of carbon electrodes. 2022 , 9, 100217	1
88	Fe/Co Doped ZIF Derived Nitrogen Doped Nanoporous Carbon as Electrode Material for Supercapacitors. 2022 ,	0
87	Symmetric supercapacitors with cellulose-derived carbons and Na ₂ SO ₄ electrolytes operating in a wide temperature range. 2022 , 55, 105725	1
86	A three-dimensional directly grown hierarchical grapes-like Nickel Manganese Selenide for high-performance Li-ion battery and supercapacitor electrodes. 2022 , 26, 101187	0
85	Innovation from waste with biomass-derived chitin and chitosan as green and sustainable polymer: A review. 2022 , 8, 100149	0
84	Energy Materials: Fundamentals to Advanced Applications. 2022 , 1-42	0
83	Binder-free La(OH) ₃ supported activated carbon fiber electrode with N-doped C layer for efficient phosphate electrosorption. 2022 , 155430	0
82	Advances in Supercapacitor Development: Materials, Processes, and Applications.	0
81	Enhanced Electrochemical Performance of Sugarcane Bagasse-Derived Activated Carbon via a High-Energy Ball Milling Treatment. 2022 , 12, 3555	0
80	Electrochemical Polarization Part 2: Electrochemical Devices. 2022 , 90, 102004-102004	1
79	Bifunctional Self-Penetrating Co(II)-Based 3D MOF for High-Performance Environmental and Energy Storage Applications.	2
78	Nonconventional synthesis of polyhedral Mn ₃ O ₄ nanoarchitectures incorporated reduced graphene oxide: superior supercapacitor capabilities. 2022 , 21, 2555-2570	0

- 77 Facile and Rapid Electrochemical Conversion of Ni into Ni(OH)₂ Thin Film as the Catalyst for Direct Growth of Carbon Nanotubes on Ni Foam for Supercapacitors. **2022**, 12, 3867 ○
- 76 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
- 75 Facile Synthesis of Nitrogen-Doped Zeolite-Templated Carbons and Their Application to Electric Double-Layer Capacitor. **2022**, ○
- 74 Crystalline multilayer graphene nanoflakes synthesized by catalytic chemical vapor deposition using reduced nanostructured hematite as catalyst precursor and 1,2-dichlorobenzene and benzylamine mixture as carbon source. **2023**, 203, 813-826 ○
- 73 Materials design and preparation for high energy density and high power density electrochemical supercapacitors. **2023**, 152, 100713 ○
- 72 Fabrication of high-rate microsupercapacitors by ultraviolet laser-assisted scribing of fluorinated graphene films. **2023**, 557, 232549 ○
- 71 Frontiers and recent developments on supercapacitor's materials, design, and applications: Transport and power system applications. **2023**, 58, 106104 ○
- 70 Coherent construction of recovered Al₂O₃ embedded N-doped activated carbon by supercritical-CO₂ pathway: Robust hybrid electrode material for energy storage device. **2023**, 936, 168213 ○
- 69 Activated carbon prepared by co-pyrolysis of waste tobacco straw and waste LDPE mulch film: characterization and application for methylene blue removal. **2022**, 12, 34165-34175 ○
- 68 Recent progress of transition metal-based biomass-derived carbon composites for supercapacitor. ○
- 67 Effect of Synthesis Conditions on Capacitive Properties of Porous Carbon Derived from Hemp Bast Fiber. **2022**, 15, 8761 ○
- 66 Symmetric Supercapacitor Based on Nitrogen-Doped and Plasma-Functionalized 3D Graphene. **2022**, 8, 258 1
- 65 Nanomaterials for supercapacitors as energy storage application: Focus on its characteristics and limitations. **2022**, ○
- 64 Chemically Modified Carbon Nanotubes in Energy Production and Storage. **2023**, 107-128 ○
- 63 Facile Preparation and Improved Electrochemical Performance of Oxygen-Enriched Porous Carbon Materials Based on Diacetal-Containing Polybenzoxazine. 2200508 ○
- 62 Synergistic Effect of Bimetal (Zn/Ni) Organic Framework/Reduced Graphene Oxide for High-Performance Supercapacitor. **2023**, 156435 ○
- 61 Biomass-derived nanostructured carbon materials for high-performance supercapacitor electrodes. ○
- 60 Electrochemical Evaluation of Different Graphite Felt Electrode Treatments in Full Vanadium Redox Flow Batteries. **2023**, 9, 39 ○

59	Sustainable Modification of Chitosan Binder for Capacitive Electrodes Operating in Aqueous Electrolytes.	0
58	Denitrification in Microbial Fuel Cells Using Granular Activated Carbon as an Effective Biocathode. 2023 , 16, 709	0
57	Progress on carbon for electrochemical capacitors. 2023 , 2, 20220021	1
56	Effect of electrolyte and carbon material on the electrochemical performance of high-voltage aqueous symmetric supercapacitors. 2023 , 58, 1721-1738	0
55	Characterization of quenched MD simulated porous carbon electrodes for supercapacitors. 2023 ,	0
54	Facile synthesis of a multifunctional ternary SnO ₂ /MWCNTs/PANI nanocomposite: Detailed analysis of dielectric, electrochemical, and water splitting applications. 2023 , 441, 141816	1
53	Metal-organic framework hybrid adsorbents for carbon capture I ^A review. 2023 , 11, 109291	0
52	Electroreduction of Carbon Dioxide to Acetate using Heterogenized Hydrophilic Manganese Porphyrins.	0
51	Active Carbon-Based Electrode Materials from Petroleum Waste for Supercapacitors. 2023 , 9, 4	0
50	Facile Preparation of Cobalt Nanoparticles Encapsulated Nitrogen-Doped Carbon Sponge for Efficient Oxygen Reduction Reaction. 2023 , 15, 521	1
49	Nanocarbons (graphene, etc.), MXenes for energy storage applications. 2023 , 275-320	0
48	Preparation and Mechanism Research of Walnut Shell-based Hierarchical Porous Carbon for Supercapacitor.	0
47	Fundamental understanding of charge storage mechanism. 2023 , 65-82	0
46	General introduction about electrochemistry and supercapacitors. 2023 , 3-16	0
45	A novel porous rod with nanosphere CuS ₂ /NiFe ₂ O ₄ nanocomposite for low-cost high-performance energy storage system. 2023 , 34,	0
44	Electrode materials for EDLC and pseudocapacitors. 2023 , 179-198	0
43	Fundamentals of supercapacitors. 2023 , 83-100	0
42	Oxygen-enriched porous carbon derived from acid washed and oxidized lignite via H ₃ PO ₄ hydrothermal for high-performance supercapacitors. 2023 , 243, 107665	0

- 41 Progress on nano-scaled alloys and mixed metal oxides in solid-state hydrogen storage; an overview. **2023**, 61, 106722 ○
- 40 Tuning the electrical properties of graphene oxide through low-temperature thermal annealing. **2023**, 15, 5743-5755 1
- 39 Organic materials as polymer electrolytes for supercapacitor application. **2023**, 365-394 ○
- 38 Metal organic frameworks-carbon based nanocomposites for environmental sensing and catalytic applications. **2023**, ○
- 37 Developments of nanocomposites in supercapacitor applications. **2023**, 209-223 ○
- 36 Molecular insights into the electric double-layer structure at a polymer electrolyte-electrode interface. **2023**, 446, 142131 ○
- 35 Carbon nanomaterials-PEDOT: PSS based electrochemical ionic soft actuators: Recent development in design and applications. **2023**, 354, 114277 ○
- 34 Revisiting the performance of electrical double-layer capacitors implementing a sodium perchlorate water-in-salt electrolyte. **2023**, 450, 142212 ○
- 33 Effect of varying carbon microstructures on the ion storage behavior of dual carbon lithium-ion capacitor. **2023**, 454, 142353 ○
- 32 Defining graphenic crystallites in disordered carbon: Moving beyond the platelet model. **2023**, 209, 117965 ○
- 31 Why electrochemical capacitor electrolytes should not be ignored?. **2023**, 452, 142347 ○
- 30 Tuning N/O-doped carbon materials for supercapacitors by direct pyrolysis of imidazolium polymer. **2023**, 64, 107057 ○
- 29 Passivation of macroporous Si using sputtered TiN coating for on-chip energy storage. **2023**, 561, 232743 ○
- 28 Facile synthesis of activated carbon and multiwalled carbon nanotubes and comparative performance of various AC-MWCNTs supercapacitor electrodes. **2023**, 34, ○
- 27 Microporous MOF-5@AC and Cu-BDC@AC Composite Materials for Methane Storage in ANG Technology. **2023**, 2023, 1-14 ○
- 26 Dynamic nuclear polarization [nuclear magnetic resonance for analyzing surface functional groups on carbonaceous materials. **2023**, 206, 84-93 ○
- 25 Electrochemistry of Carbon Materials: Progress in Raman Spectroscopy, Optical Absorption Spectroscopy, and Applications. **2023**, 13, 640 ○
- 24 Nanointerfaces: Concepts and Strategies for Optical and X-ray Spectroscopic Characterization. ○

- 23 Additive Manufacturing of Carbon Using Commodity Polypropylene. 2208029 ○
- 22 Application of Nickel Foam in Electrochemical Systems: A Review. **2023**, 52, 2264-2291 ○
- 21 Highly efficient, remarkable sensor activity and energy storage properties of MXenes and borophene nanomaterials. **2023**, 100392 ○
- 20 The Progress and Comprehensive Analysis of Supercapacitors for Alternating Current Line Filtering: A Review. **2023**, 6, ○
- 19 Electrochemical properties of activated carbon from waste coffee grounds with hydrothermal-microwave radiation technique. **2023**, 34, ○
- 18 Observation of carrier dynamics in MoS₂ thin layer by femtosecond transient absorption microscopy. **2023**, 62, SG1029 ○
- 17 Evaluation of nanostructured electrode materials for high-performance supercapacitors using multiple-criteria decision-making approach. **2023**, 31, 2286-2314 ○
- 16 Enhanced Hydro-Actuation and Capacitance of Electrochemically Inner-Bundle-Activated Carbon Nanotube Yarns. **2023**, 15, 13484-13494 ○
- 15 Progress and perspective on multi-dimensional structured carbon nanomaterials for cathodes in aqueous zinc-based energy storage. **2023**, 11, 481-516 ○
- 14 Dopamine removal from water by advanced oxidative processes with Fe/N-doped carbon nanotubes. **2023**, 30, 55424-55436 ○
- 13 Introduction to nanocomposite polymer electrolytes for energy storage. **2023**, 313-329 ○
- 12 Enhanced activated carbon lithium-ion capacitor electrochemical stability through electrolyte dielectric optimisation. **2023**, 7, 1846-1854 ○
- 11 Traditional Electrode Materials for Supercapacitor Applications. **2023**, 19-64 ○
- 10 Low-Pressure Argon/Hydrogen/Oxygen Plasma Treatment on LiMn₂O₄ Li-Ion Hybrid Supercapacitors. **2023**, 12, 043002 ○
- 9 Synthesis of carbon materials with extremely high pyridinic-nitrogen content and controlled edges from aromatic compounds with highly symmetric skeletons. ○
- 8 Effect of Annealing on Graphene/PVDF Nanocomposites. **2023**, 8, 13876-13883 ○
- 7 Carbon-based nanomaterials for supercapacitor applications. **2023**, 325-342 ○
- 6 Oxygen and nitrogen-doped carbon particles derived from pyrolysis of *Chlorella vulgaris* and *Spirulina platensis* microalgae as an efficient electrode material for supercapacitor application. 1-11 ○

- 5 Waste plastic to energy storage materials: A State-of-the-art review. ○
- 4 The impact of physicochemical features of carbon electrodes on the capacitive performance of supercapacitors: a machine learning approach. **2023**, 13, ○
- 3 Storage of atomic hydrogen in multilayer graphene. **2023**, ○
- 2 One pot synthesis of carbon decorated NiO nanorods as cathode materials for high-performance asymmetric supercapacitors. **2023**, 66, 107339 ○
- 1 Effects of oxygen-containing functional groups on carbon materials in supercapacitors: A review. **2023**, 230, 111952 ○