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## Supercapacitor Devices Based on Graphene Materials

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2162	Electrochemical Activation of Graphene at Low Temperature: The Synthesis of Three-Dimensional Nanoarchitectures for High Performance Supercapacitors and Capacitive Deionization.		
2161	Stable dispersions of reduced graphene oxide in ionic liquids. <b>2010</b> , 20, 5401		103
2160	Graphene-based materials in electrochemistry. <b>2010</b> , 39, 3157-80		1200
2159	Sandwich Complex of TATB/Graphene: An Approach to Molecular Monolayers of Explosives. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 22684-22687	3.8	45
2158	Fabrication of free-standing, electrochemically active, and biocompatible graphene oxide-polyaniline and graphene-polyaniline hybrid papers. <b>2010</b> , 2, 2521-9		429
2157	Anchoring semiconductor and metal nanoparticles on a two-dimensional catalyst mat. Storing and shuttling electrons with reduced graphene oxide. <b>2010</b> , 10, 577-83		937
2156	Enhanced Mechanical Properties of Graphene-Based Poly(vinyl alcohol) Composites. <b>2010</b> , 43, 2357-2363		1173
2155	Graphene-based materials as supercapacitor electrodes. <b>2010</b> , 20, 5983		1171
2154	Preparation of functionalized graphene sheets by a low-temperature thermal exfoliation approach and their electrochemical supercapacitive behaviors. <b>2010</b> , 55, 3897-3903		242
2153	Anchoring Hydrrous RuO <sub>2</sub> on Graphene Sheets for High-Performance Electrochemical Capacitors. <b>2010</b> , 20, 3595-3602		1033
2152	A three-dimensional carbon nanotube/graphene sandwich and its application as electrode in supercapacitors. <b>2010</b> , 22, 3723-8		1092
2151	Graphene and graphene oxide: synthesis, properties, and applications. <b>2010</b> , 22, 3906-24		7620
2150	Electrophoretic deposition of graphene nanosheets on nickel foams for electrochemical capacitors. <b>2010</b> , 195, 3031-3035		222
2149	Electrochemical behaviors of graphene/ZnO and graphene/Bi <sub>2</sub> O <sub>3</sub> composite films for supercapacitors. <b>2010</b> , 55, 4170-4173		362
2148	Rapid microwave-assisted synthesis of graphene nanosheet/Co <sub>3</sub> O <sub>4</sub> composite for supercapacitors. <b>2010</b> , 55, 6973-6978		423
2147	Facile solvothermal synthesis of a graphene nanosheet/Bismuth oxide composite and its electrochemical characteristics. <b>2010</b> , 55, 8974-8980		128
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2144	Modification of the electronic structures of graphene by viologen. <b>2010</b> , 498, 168-171	32
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2141	Modern Theories of Carbon-Based Electrochemical Capacitors: A Short Review. <b>2010</b> ,	2
2140	Ultrathin, transparent, and flexible graphene films for supercapacitor application. <b>2010</b> , 96, 253105	316
2139	Reducing sugar: new functional molecules for the green synthesis of graphene nanosheets. <b>2010</b> , 4, 2429-37	1145
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2133	Self-assembly of cationic polyelectrolyte-functionalized graphene nanosheets and gold nanoparticles: a two-dimensional heterostructure for hydrogen peroxide sensing. <b>2010</b> , 26, 11277-82	269
2132	Facile and controllable electrochemical reduction of graphene oxide and its applications. <b>2010</b> , 20, 743-748	702
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2130	Supercapacitors based on flexible graphene/polyaniline nanofiber composite films. <b>2010</b> , 4, 1963-70	1934
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2116	Hydrothermal Synthesis of RuO <sub>2</sub> ·xH <sub>2</sub> O/Graphene Hybrid Nanocomposite for Supercapacitor Application. <b>2011</b> ,		
2115	One-step molybdate ion assisted electrochemical synthesis of HMoO <sub>3</sub> -decorated graphene sheets and its potential applications. <b>2011</b> , 21, 15009		44
2114	Self-assembled graphene/azo polyelectrolyte multilayer film and its application in electrochemical energy storage device. <b>2011</b> , 27, 2007-13		63
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2112	Facile synthesis of graphene nanosheets via Fe reduction of exfoliated graphite oxide. <b>2011</b> , 5, 191-8		742
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2109	What is the choice for supercapacitors: graphene or graphene oxide?. <b>2011</b> , 4, 2826		568
2108	Fabrication of free-standing graphene/polyaniline nanofibers composite paper via electrostatic adsorption for electrochemical supercapacitors. <b>2011</b> , 35, 369-374		123
2107	Preparation of non-covalently functionalized graphene using 9-anthracene carboxylic acid. <b>2011</b> , 22, 405603		43
2106	CeO <sub>2</sub> nanoparticles/graphene nanocomposite-based high performance supercapacitor. <b>2011</b> , 40, 6388-91		204
2105	Flexible Zn <sub>2</sub> SnO <sub>4</sub> /MnO <sub>2</sub> core/shell nanocable-carbon microfiber hybrid composites for high-performance supercapacitor electrodes. <b>2011</b> , 11, 1215-20		752
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2075	Microwave-assisted synthesis of graphene/ZnO nanocomposite for electrochemical supercapacitors. <b>2011</b> , 509, 5488-5492		166
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2065	Controlled drug release characteristics and enhanced antibacterial effect of graphene nanosheets containing gentamicin sulfate. <b>2011</b> , 3, 4104-8	123
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2059	Enhancement of the energy storage properties of supercapacitors using graphene nanosheets dispersed with metal oxide-loaded carbon nanotubes. <b>2011</b> , 196, 8858-8865	112
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2046	Exfoliated graphite nanosheets/carbon nanotubes hybrid materials for superior performance supercapacitors. <b>2011</b> , 15, 1179-1184		35
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2042	Green synthesis of graphene nanosheets/ZnO composites and electrochemical properties. <b>2011</b> , 184, 1421-1427		209
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2040	Graphene-based conducting inks for direct inkjet printing of flexible conductive patterns and their applications in electric circuits and chemical sensors. <b>2011</b> , 4, 675-684		355
2039	Advanced asymmetrical supercapacitors based on graphene hybrid materials. <b>2011</b> , 4, 729-736		349
2038	Direct Synthesis of Vertically Interconnected 3-D Graphitic Nanosheets on Hemispherical Carbon Particles by Microwave Plasma CVD. <b>2011</b> , 6, 67-73		23



2037	A green and fast way for reduction of graphene oxide in acidic aqueous solution via microwave assistance. <b>2011</b> , 208, 2325-2327	22
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2031	Graphene/Cellulose Paper Flexible Supercapacitors. <b>2011</b> , 1, 917-922	745
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2025	High performance supercapacitors based on reduced graphene oxide in aqueous and ionic liquid electrolytes. <b>2011</b> , 49, 573-580	555
2024	Preparation, structure and supercapacitance of bonded carbon nanofiber electrode materials. <b>2011</b> , 49, 2380-2388	179
2023	Graphene and nanostructured MnO <sub>2</sub> composite electrodes for supercapacitors. <b>2011</b> , 49, 2917-2925	616
2022	Surface amorphization and deoxygenation of graphene oxide paper by Ti ion implantation. <b>2011</b> , 49, 3141-3147	47
2021	Synthesis of electrochemically-reduced graphene oxide film with controllable size and thickness and its use in supercapacitor. <b>2011</b> , 49, 3488-3496	239
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2002	Simple Synthesis and Enhanced Performance of Graphene Oxide-Gold Composites. <b>2012</b> , 2012, 1-5	11

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1988	Graphene-based materials for energy applications. <b>2012</b> , 37, 1265-1272		113
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1985	Electrochemical Study of Functionalized Carbon Nano-Onions for High-Performance Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 15068-15075	3.8	79
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1980	Review of Electrochemical Capacitors Based on Carbon Nanotubes and Graphene. <b>2012</b> , 01, 1-13		88
1979	Flexible solid-state supercapacitors based on carbon nanoparticles/MnO <sub>2</sub> nanorods hybrid structure. <b>2012</b> , 6, 656-61		893
1978	An electrochemical capacitor electrode based on porous carbon spheres hybridized with polyaniline and nanoscale ruthenium oxide. <b>2012</b> , 4, 5583-9		72
1977	Spherical Ni(OH) <sub>2</sub> nanoarchitecture grown on graphene as advanced electrochemical pseudocapacitor materials. <b>2012</b> , 48, 2773-5		213
1976	Improve the Supercapacity Performance of MnO <sub>2</sub> -Decorated Graphene by Controlling the Oxidization Extent of Graphene. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 25226-25232	3.8	87
1975	A new view of electrochemistry at highly oriented pyrolytic graphite. <b>2012</b> , 134, 20117-30		202
1974	Self-assembly of graphene into three-dimensional structures promoted by natural phenolic acids. <b>2012</b> , 22, 22459		148
1973	Water-soluble graphene grafted by poly(sodium 4-styrenesulfonate) for enhancement of electric capacitance. <b>2012</b> , 23, 475704		39
1972	In situ synthesis of graphene/single-walled carbon nanotube hybrid material by arc-discharge and its application in supercapacitors. <b>2012</b> , 1, 820-827		73
1971	A Versatile, Ultralight, Nitrogen-Doped Graphene Framework. <b>2012</b> , 124, 11533-11537		262
1970	A versatile, ultralight, nitrogen-doped graphene framework. <b>2012</b> , 51, 11371-5		663
1969	Enzyme immobilization and direct electrochemistry based on a new matrix of phospholipid-monolayer-functionalized graphene. <b>2012</b> , 7, 2824-9		21
1968	A 3D hexaporous carbon assembled from single-layer graphene as high performance supercapacitor. <b>2012</b> , 5, 2159-64		68
1967	Carbon nanowalls synthesis by means of atmospheric dcPECVD method. <b>2012</b> , 249, 2625-2628		12
1966	Reduced graphene oxide/MWCNT hybrid sandwiched film by self-assembly for high performance supercapacitor electrodes. <b>2012</b> , 108, 701-707		24

1965	KCl-assisted, chemically reduced graphene oxide for high-performance supercapacitor electrodes. <b>2012</b> , 16, 3635-3641	7
1964	Synthesis of Porous NiO/Reduced Graphene Oxide Composites for Supercapacitors. <b>2012</b> , 159, A990-A994	30
1963	A novel electrochemiluminescence sensor based on Ru(bpy) <sub>3</sub> <sup>2+</sup> immobilized by graphene on glassy carbon electrode surface via in situ wet-chemical reaction. <b>2012</b> , 171-172, 1159-1165	26
1962	Gold-graphene nanocomposite based ultrasensitive electrochemical glucose sensor. <b>2012</b> ,	
1961	Preparation of Graphene/Polypyrrole Composite Film via Electrodeposition for Supercapacitors. <b>2012</b> , 11, 1080-1086	22
1960	Relationship between intrinsic capacitance and thickness of graphene nanosheets. <b>2012</b> , 22, 13091	8
1959	Ionic liquid-assisted microwave reduction of graphite oxide for supercapacitors. <b>2012</b> , 2, 8808	30
1958	Facile synthetic fabrication of iron oxide particles and novel hydrogen superoxide supercapacitors. <b>2012</b> , 2, 6672	65
1957	Free-standing Ni-microfiber-supported carbon nanotube aerogel hybrid electrodes in 3D for high-performance supercapacitors. <b>2012</b> , 2, 6562	16
1956	Formation of nano-scaled crevices and spacers in NiO-attached graphene oxide nanosheets for supercapacitors. <b>2012</b> , 22, 2442-2448	90
1955	Enhanced electrochemical performance of polyaniline/sulfonated polyhedral oligosilsesquioxane nanocomposites with porous and ordered hierarchical nanostructure. <b>2012</b> , 22, 1884-1892	54
1954	Microwave-assisted non-aqueous homogenous precipitation of nanoball-like mesoporous Ni(OH) <sub>2</sub> as a precursor for NiO <sub>x</sub> and its application as a pseudocapacitor. <b>2012</b> , 22, 8029	102
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1952	Carbon-nanoparticles encapsulated in hollow nickel oxides for supercapacitor application. <b>2012</b> , 22, 16376	141
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1950	Graphene for energy harvesting/storage devices and printed electronics. <b>2012</b> , 10, 1-8	98
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1948	Layer-by-layer self-assembly in the development of electrochemical energy conversion and storage devices from fuel cells to supercapacitors. <b>2012</b> , 41, 7291-321	201

1947	Effect of HNO <sub>3</sub> functionalization on large scale graphene for enhanced tri-iodide reduction in dye-sensitized solar cells. <b>2012</b> , 22, 20490	92
1946	Fabricating graphene supercapacitors: highlighting the impact of surfactants and moieties. <b>2012</b> , 48, 1425-7	77
1945	Polyaniline-grafted reduced graphene oxide for efficient electrochemical supercapacitors. <b>2012</b> , 6, 1715-23	724
1944	Solvothermal synthesis of CoS <sub>2</sub> /graphene nanocomposite material for high-performance supercapacitors. <b>2012</b> , 22, 15750	180
1943	Electrochemical reduction of graphene oxide and its in situ spectroelectrochemical characterization. <b>2012</b> , 14, 14003-9	76
1942	Graphene oxide with improved electrical conductivity for supercapacitor electrodes. <b>2012</b> , 258, 3726-3731	90
1941	Direct electrodeposition and superior pseudocapacitive property of ultrahigh porous silver-incorporated polyaniline films. <b>2012</b> , 87, 142-145	38
1940	Graphene/metal oxide composite electrode materials for energy storage. <b>2012</b> , 1, 107-131	1507
1939	Nanostructured carbon for energy storage and conversion. <b>2012</b> , 1, 195-220	797
1938	Facile synthesis and super capacitive behavior of SWNT/MnO <sub>2</sub> hybrid films. <b>2012</b> , 1, 479-487	89
1937	Theoretical approaches to graphene and graphene-based materials. <b>2012</b> , 7, 180-200	109
1936	Alkaline deoxygenated graphene oxide for supercapacitor applications: An effective green alternative for chemically reduced graphene. <b>2012</b> , 215, 1-10	110
1935	Carbon nanotubes/cobalt sulfide composites as potential high-rate and high-efficiency supercapacitors. <b>2012</b> , 215, 43-47	108
1934	Hierarchical composites of sulfonated graphene-supported vertically aligned polyaniline nanorods for high-performance supercapacitors. <b>2012</b> , 215, 36-42	97
1933	Sn nanoparticles grown on graphene for enhanced electrochemical properties. <b>2012</b> , 217, 303-308	32
1932	Graphene: an emerging electronic material. <b>2012</b> , 24, 5782-825	603
1931	Graphene-based electrodes. <b>2012</b> , 24, 5979-6004	756
1930	Renewing functionalized graphene as electrodes for high-performance supercapacitors. <b>2012</b> , 24, 6348-55	355

1929	Lithiumbatterien und elektrische Doppelschichtkondensatoren: aktuelle Herausforderungen. <b>2012</b> , 124, 10134-10166		176
1928	Challenges facing lithium batteries and electrical double-layer capacitors. <b>2012</b> , 51, 9994-10024		2149
1927	Preparation of graphene by using an intense cavitation field in a pressurized ultrasonic reactor. <b>2012</b> , 18, 14047-54		37
1926	Reduced Graphene Oxide-ZnO Nanocomposites for Flexible Supercapacitors. <b>2012</b> , 8, 373-376		5
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1921	In situ synthesized heteropoly acid/polyaniline/graphene nanocomposites to simultaneously boost both double layer- and pseudo-capacitance for supercapacitors. <b>2012</b> , 14, 12823-8		64
1920	Effect of 1- Pyrene Carboxylic-Acid Functionalization of Graphene on Its Capacitive Energy Storage. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 20688-20693	3.8	73
1919	Nanostructured MnO <sub>2</sub> /graphene composites for supercapacitor electrodes: the effect of morphology, crystallinity and composition. <b>2012</b> , 22, 1845-1851		228
1918	High-performance supercapacitors based on a graphene-activated carbon composite prepared by chemical activation. <b>2012</b> , 2, 7747		132
1917	Thermal treatment effects on charge storage performance of graphene-based materials for supercapacitors. <b>2012</b> , 4, 3239-46		47
1916	Conducting Polymers Directly Coated on Reduced Graphene Oxide Sheets as High-Performance Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 5420-5426	3.8	581
1915	Recent progress on graphene-based photocatalysts: current status and future perspectives. <b>2012</b> , 4, 5792-813		820
1914	Hydrothermal preparation of nitrogen-doped graphene sheets via hexamethylenetetramine for application as supercapacitor electrodes. <b>2012</b> , 85, 459-466		141
1913	Tuning electrical conductivity and surface area of chemically-exfoliated graphene through nanocrystal functionalization. <b>2012</b> , 135, 1057-1063		41
1912	Graphene-based multilayers: Critical evaluation of materials assembly techniques. <b>2012</b> , 7, 430-447		112

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1910	Graphene-polymer composites. <b>2012</b> , 40, 012018		8
1909	Nanocrystalline ruthenium oxide dispersed Few Layered Graphene (FLG) nanoflakes as supercapacitor electrodes. <b>2012</b> , 22, 14944		119
1908	Photochemical Engineering of Graphene Oxide Nanosheets. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 19822-19827	3.8	104
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1905	Controlled, Stepwise Reduction and Band Gap Manipulation of Graphene Oxide. <b>2012</b> , 3, 986-91		314
1904	A Solid-State Reaction Route to Anchoring Ni(OH) <sub>2</sub> Nanoparticles on Reduced Graphene Oxide Sheets for Supercapacitors. <b>2012</b> , 51, 9973-9979		89
1903	Composite electronic materials based on poly(3,4-propylenedioxythiophene) and highly charged poly(aryleneethynylene)-wrapped carbon nanotubes for supercapacitors. <b>2012</b> , 4, 102-9		44
1902	Porous graphene: Properties, preparation, and potential applications. <b>2012</b> , 57, 2948-2955		77
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1899	Globular reduced graphene oxide-metal oxide structures for energy storage applications. <b>2012</b> , 5, 5236-5240		64
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1896	A facile green strategy for rapid reduction of graphene oxide by metallic zinc. <b>2012</b> , 2, 8827		163
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1894	Highly wrinkled cross-linked graphene oxide membranes for biological and charge-storage applications. <b>2012</b> , 8, 423-31		93



1893	Flexible pillared graphene-paper electrodes for high-performance electrochemical supercapacitors. <b>2012</b> , 8, 452-9		276
1892	Thermoresponsive graphene oxide-PNIPAM nanocomposites with controllable grafting polymer chains via moderate in situ SETRP. <b>2012</b> , 50, 4451-4458		69
1891	Electrophoretic build-up of alternately multilayered films and micropatterns based on graphene sheets and nanoparticles and their applications in flexible supercapacitors. <b>2012</b> , 8, 3201-8		61
1890	Graphene-based composites. <b>2012</b> , 41, 666-86		3116
1889	High-performance asymmetric supercapacitor based on graphene hydrogel and nanostructured MnO <sub>2</sub> . <b>2012</b> , 4, 2801-10		612
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1887	Carbon-based nanostructured materials and their composites as supercapacitor electrodes. <b>2012</b> , 22, 767-784		579
1886	Nitrogen-doped graphene nanosheets as anode materials for lithium ion batteries: a first-principles study. <b>2012</b> , 22, 8911		445
1885	Electrodynamically sprayed thin films of aqueous dispersible graphene nanosheets: highly efficient cathodes for dye-sensitized solar cells. <b>2012</b> , 4, 3500-7		82
1884	Towards Rationally Designed Graphene-Based Materials and Devices. <b>2012</b> , 213, 1091-1100		19
1883	Poly(urethane-co-vinyl imidazole)/graphene nanocomposites. <b>2012</b> , 33, 459-466		7
1882	The electrocapacitive properties of graphene oxide reduced by urea. <b>2012</b> , 5, 6391-6399		410
1881	Graphene oxide and its reduction: modeling and experimental progress. <b>2012</b> , 2, 2643		418
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1879	An overview of the applications of graphene-based materials in supercapacitors. <b>2012</b> , 8, 1805-34		1082
1878	Graphene electrochemistry: fundamental concepts through to prominent applications. <b>2012</b> , 41, 6944-76		497
1877	Tightly connected MnO <sub>2</sub> /graphene with tunable energy density and power density for supercapacitor applications. <b>2012</b> , 22, 7697		68
1876	Structure-Based Enhanced Capacitance: In Situ Growth of Highly Ordered Polyaniline Nanorods on Reduced Graphene Oxide Patterns. <b>2012</b> , 22, 1284-1290		224

1875	Graphite Oxide as an Olefin Polymerization Carbocatalyst: Applications in Electrochemical Double Layer Capacitors. <b>2012</b> , 22, 3247-3253		63
1874	Micro-Supercapacitors Based on Interdigital Electrodes of Reduced Graphene Oxide and Carbon Nanotube Composites with Ultrahigh Power Handling Performance. <b>2012</b> , 22, 4501-4510		647
1873	Graphene hydrogels deposited in nickel foams for high-rate electrochemical capacitors. <b>2012</b> , 24, 4569-73		375
1872	Nanostructured Ternary Electrodes for Energy-Storage Applications. <b>2012</b> , 2, 381-389		154
1871	High Energy Density Supercapacitor Based on a Hybrid Carbon Nanotube/Reduced Graphite Oxide Architecture. <b>2012</b> , 2, 438-444		169
1870	Definitive Evidence for Fast Electron Transfer at Pristine Basal Plane Graphite from High-Resolution Electrochemical Imaging. <b>2012</b> , 124, 5501-5504		24
1869	Definitive evidence for fast electron transfer at pristine basal plane graphite from high-resolution electrochemical imaging. <b>2012</b> , 51, 5405-8		126
1868	Partially reduced graphite oxide as an electrode material for electrochemical double-layer capacitors. <b>2012</b> , 18, 9125-36		46
1867	On the configuration of supercapacitors for maximizing electrochemical performance. <b>2012</b> , 5, 818-41		359
1866	Supercapacitors based on high-quality graphene scrolls. <b>2012</b> , 4, 3997-4001		81
1865	Graphene and its derivatives: switching ON and OFF. <b>2012</b> , 41, 4688-707		219
1864	Flexible and conductive nanocomposite electrode based on graphene sheets and cotton cloth for supercapacitor. <b>2012</b> , 22, 17245		312
1863	Carbon Nanotubes-Graphene-Solidlike Ionic Liquid Layer-Based Hybrid Electrode Material for High Performance Supercapacitor. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 14179-14187	3.8	73
1862	Conducting polymer/carbon nanocoil composite electrodes for efficient supercapacitors. <b>2012</b> , 22, 5177		81
1861	Focusing on energy and optoelectronic applications: a journey for graphene and graphene oxide at large scale. <b>2012</b> , 45, 598-607		280
1860	Modified graphene/polyaniline nanocomposites for supercapacitor application. <b>2012</b> , 20, 415-421		32
1859	Electrochemical determination of methyl parathion using poly(malachite green)/graphene nanosheets/nafion composite film-modified glassy carbon electrode. <b>2012</b> , 42, 509-516		26
1858	Three-dimensional flower-like nickel oxide supported on graphene sheets as electrode material for supercapacitors. <b>2012</b> , 63, 146-152		57

1857	A simple and controllable nanostructure comprising non-conductive poly(vinylidene fluoride) and graphene nanosheets for supercapacitor. <b>2012</b> , 6, 149-159	4
1856	Investigation of the electrode molding technologies for the carbon-based supercapacitors. <b>2012</b> , 16, 2541-2546	2
1855	Surfactant-assisted electrodeposition and improved electrochemical capacitance of silver-doped manganese oxide pseudocapacitor electrodes. <b>2012</b> , 16, 2623-2629	36
1854	Thermally reduced graphite oxide as positive electrode in Vanadium Redox Flow Batteries. <b>2012</b> , 50, 828-834	115
1853	One-step fabrication and capacitive behavior of electrochemical double layer capacitor electrodes using vertically-oriented graphene directly grown on metal. <b>2012</b> , 50, 4379-4387	125
1852	Improved dispersibility of graphene oxide in o-dichlorobenzene by adding a poly(3-alkylthiophene). <b>2012</b> , 50, 4566-4572	27
1851	Advanced nanostructured photocatalysts based on reduced graphene oxide/TiO <sub>2</sub> composites for degradation of diphenhydramine pharmaceutical and methyl orange dye. <b>2012</b> , 123-124, 241-256	234
1850	Synthesis of reduced graphene nanosheet/urchin-like manganese dioxide composite and high performance as supercapacitor electrode. <b>2012</b> , 69, 112-119	130
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1848	Excellent electrochemical performance of graphene-silver nanoparticle hybrids prepared using a microwave spark assistance process. <b>2012</b> , 74, 207-214	35
1847	Supercapacitor based on electropolymerized polythiophene and multi-walled carbon nanotubes composites. <b>2012</b> , 132, 596-600	92
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1845	Effects of pore diameters on the pseudocapacitive property of three-dimensionally ordered macroporous manganese oxide electrodes. <b>2012</b> , 68, 230-233	28
1844	Synthesis of carbon nanowires as electrochemical electrode materials. <b>2012</b> , 69, 55-58	12
1843	A facile one-step hydrothermal method to produce MnO <sub>2</sub> /graphene sheet composites and its electrochemical properties. <b>2012</b> , 82, 133-136	40
1842	Polypyrrole/carbon nanotube nanocomposite enhanced the electrochemical capacitance of flexible graphene film for supercapacitors. <b>2012</b> , 197, 319-324	169
1841	Spectroscopic and electrochemical characteristics of a carboxylated graphene/ZnO composites. <b>2012</b> , 199, 379-385	67
1840	Preparation and capacitance performance of Ag/graphene based nanocomposite. <b>2012</b> , 201, 376-381	70

1839	Reduced graphene oxide/nickel oxide composite as high performance electrode materials for supercapacitors. <b>2012</b> , 203, 243-249	103
1838	Graphene based supercapacitor fabricated by vacuum filtration deposition. <b>2012</b> , 206, 476-482	101
1837	P25-graphene hydrogels: room-temperature synthesis and application for removal of methylene blue from aqueous solution. <b>2012</b> , 205-206, 229-35	160
1836	Electrical Power From Nanotube and Graphene Electrochemical Thermal Energy Harvesters. <b>2012</b> , 22, 477-489	141
1835	Carbon nanocages as supercapacitor electrode materials. <b>2012</b> , 24, 347-52	441
1834	Folded structured graphene paper for high performance electrode materials. <b>2012</b> , 24, 1089-94	576
1833	Role of Oxygen Functional Groups in Carbon Nanotube/Graphene Freestanding Electrodes for High Performance Lithium Batteries. <b>2013</b> , 23, 1037-1045	264
1832	Graphene-amplified electrogenerated chemiluminescence of CdTe quantum dots for H <sub>2</sub> O <sub>2</sub> sensing. <b>2013</b> , 28, 259-64	25
1831	Cellulose nanofibers/multi-walled carbon nanotube nanohybrid aerogel for all-solid-state flexible supercapacitors. <b>2013</b> , 3, 15058	100
1830	Electrophoretic deposition of graphene, carbon nanotubes and composite films using methyl violet dye as a dispersing agent. <b>2013</b> , 436, 97-103	49
1829	Preparation and characterization of polypyrrole/graphene nanocomposite films and their electrochemical performance. <b>2013</b> , 20, 1	54
1828	Physical Properties of Graphene Nanoribbons: Insights from First-Principles Studies. <b>2013</b> , 51-77	1
1827	Synthesis of graphene/NiFe <sub>2</sub> O <sub>4</sub> nanocomposites and their electrochemical capacitive behavior. <b>2013</b> , 1, 6393	141
1826	Synthesis of reduced graphene oxide by an ionothermal method and electrochemical performance. <b>2013</b> , 3, 11807	24
1825	High-performance supercapacitors based on silver nanoparticle/polyaniline/graphene nanocomposites coated on flexible carbon fiber paper. <b>2013</b> , 1, 9630	177
1824	Multifunctional nitrogen-rich brick-and-mortar carbon as high performance supercapacitor electrodes and oxygen reduction electrocatalysts. <b>2013</b> , 1, 11061	32
1823	Hierarchical composites of polyaniline-graphene nanoribbons-carbon nanotubes as electrode materials in all-solid-state supercapacitors. <b>2013</b> , 5, 7312-20	161
1822	Improved supercapacitor performance of MnO <sub>2</sub> /graphene composites constructed using a supercritical fluid and wrapped with an ionic liquid. <b>2013</b> , 1, 3395	50

1821	Small Particles of Chemically-Reduced Graphene with Improved Electrochemical Capacity. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 15496-15504	3.8	13
1820	Electrolytic graphene oxide and its electrochemical properties. <b>2013</b> , 704, 233-241		26
1819	Synthesis and supercapacitor performance studies of N-doped graphene materials using o-phenylenediamine as the double-N precursor. <b>2013</b> , 63, 508-516		165
1818	Applications of Nanomaterials in Sensors and Diagnostics. <b>2013</b> ,		24
1817	A novel core-shell multi-walled carbon nanotube@graphene oxide nanoribbon heterostructure as a potential supercapacitor material. <b>2013</b> , 1, 11237		80
1816	Self-assembled foam-like graphene networks formed through nucleate boiling. <b>2013</b> , 3, 1396		65
1815	Controllable pore size of three dimensional self-assembled foam-like graphene and its wettability. <b>2013</b> , 64, 27-34		25
1814	Deposition of three-dimensional graphene aerogel on nickel foam as a binder-free supercapacitor electrode. <b>2013</b> , 5, 7122-9		238
1813	High-performance aqueous asymmetric electrochemical capacitors based on graphene oxide/cobalt(II)-tetrapyrazinoporphyrazine hybrids. <b>2013</b> , 1, 2821		36
1812	Electrochemically polymerized vine-like nanostructured polyaniline on activated carbon nanofibers for supercapacitor. <b>2013</b> , 111, 136-143		45
1811	Graphite oxide/polypyrrole composite electrodes for achieving high energy density supercapacitors. <b>2013</b> , 43, 773-782		42
1810	Electrochemical performance of conducting polymer and its nanocomposites prepared by chemical vapor phase polymerization method. <b>2013</b> , 24, 2245-2253		21
1809	Highly deformation-tolerant carbon nanotube sponges as supercapacitor electrodes. <b>2013</b> , 5, 8472-9		86
1808	Graphene/poly(ortho-phenylenediamine) nanocomposite material for electrochemical supercapacitor. <b>2013</b> , 17, 2203-2212		37
1807	Nanocarbons for Supercapacitors. <b>2013</b> , 393-421		4
1806	Functionalized graphene hydrogel-based high-performance supercapacitors. <b>2013</b> , 25, 5779-84		520
1805	Flexible supercapacitor based on MnO <sub>2</sub> nanoparticles via electrospinning. <b>2013</b> , 1, 10103		85
1804	Activated carbon/graphene composites with high-rate performance as electrode materials for electrochemical capacitors. <b>2013</b> , 17, 2949-2958		30

1803	A High-Performance Graphene Oxide-Doped Ion Gel as Gel Polymer Electrolyte for All-Solid-State Supercapacitor Applications. <b>2013</b> , 23, 3353-3360	306
1802	Nanostructured electrodes for high-performance pseudocapacitors. <b>2013</b> , 52, 1882-9	431
1801	The synthesis of shape-controlled polypyrrole/graphene and the study of its capacitance properties. <b>2013</b> , 70, 2291-2304	28
1800	Effects of reduction and polystyrene sulfate functionalization on the capacitive behaviour of thermally exfoliated graphene. <b>2013</b> , 1, 5892	32
1799	Superior Micro-Supercapacitors Based on Graphene Quantum Dots. <b>2013</b> , 23, 4111-4122	490
1798	Graphene for energy solutions and its industrialization. <b>2013</b> , 5, 10108-26	71
1797	Preparation of graphene nanosheets/SnO <sub>2</sub> composites by pre-reduction followed by in-situ reduction and their electrochemical performances. <b>2013</b> , 141, 1-8	33
1796	High-energy-density nonaqueous MnO <sub>2</sub> @nanoporous gold based supercapacitors. <b>2013</b> , 1, 9202	78
1795	Synthesis of reduced graphene oxide/ZnO nanorods composites on graphene coated PET flexible substrates. <b>2013</b> , 48, 4163-4167	16
1794	Nanostructured materials for supercapacitors. <b>2013</b> , 31, 050803	34
1793	Assembled graphene oxide and single-walled carbon nanotube ink for stable supercapacitors. <b>2013</b> , 28, 918-926	31
1792	Assembling fabrication and capacitance of manganese oxide nanosheets and functionalized carbon nanotubes hybrid material. <b>2013</b> , 429, 91-97	13
1791	A rapid and efficient self-healing thermo-reversible elastomer crosslinked with graphene oxide. <b>2013</b> , 25, 5785-90	193
1790	Tween 80 Modified Graphene with Improved Processability for the Fabrication of Supercapacitors. <b>2013</b> , 28, 1253-1259	9
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1788	Microwave assisted synthesis of MnO <sub>2</sub> on nickel foam-graphene for electrochemical capacitor. <b>2013</b> , 114, 48-53	44
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1786	A general approach for producing nanoporous carbon, especially as evidenced for the case of adipic acid and zinc. <b>2013</b> , 1, 14919	22

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1782	One-step electrochemical synthesis of 6-amino-4-hydroxy-2-naphthalene-sulfonic acid functionalized graphene for green energy storage electrode materials. <b>2013</b> , 24, 365706	30
1781	Layer-by-layer spray deposition and unzipping of single-wall carbon nanotube-based thin film electrodes for electrochemical capacitors. <b>2013</b> , 61, 525-536	34
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1779	Manganese oxide/graphene oxide composites for high-energy aqueous asymmetric electrochemical capacitors. <b>2013</b> , 110, 228-233	77
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1776	High-volumetric performance aligned nano-porous microwave exfoliated graphite oxide-based electrochemical capacitors. <b>2013</b> , 25, 4879-85	97
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1765	The application of genetic algorithm for lattice matching of composite structure. <b>2013</b> ,	
1764	Hierarchical nanocomposites of polyaniline nanowire arrays on reduced graphene oxide sheets for supercapacitors. <b>2013</b> , 3, 3568	219
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1762	A seeded synthetic strategy for uniform polymer and carbon nanospheres with tunable sizes for high performance electrochemical energy storage. <b>2013</b> , 49, 3043-5	55
1761	Electrochemical investigation of free-standing polypyrrole/silver nanocomposite films: a substrate free electrode material for supercapacitors. <b>2013</b> , 3, 24567	47
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1746	Large scale templated synthesis of single-layered graphene with a high electrical capacitance. <b>2013</b> , 53, 245-251	36
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1744	Electrochemical synthesis of layer-by-layer reduced graphene oxide sheets/polyaniline nanofibers composite and its electrochemical performance. <b>2013</b> , 91, 185-194	128
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1735	Micro supercapacitors based on a 3D structure with symmetric graphene or activated carbon electrodes. <b>2013</b> , 23, 114013	26
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1722	Electrochromic polyaniline/graphite oxide nanocomposites with endured electrochemical energy storage. <b>2013</b> , 54, 1820-1831	246
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1718	Polyaniline uniformly coated on graphene oxide sheets as supercapacitor material with improved capacitive properties. <b>2013</b> , 139, 572-579	37
1717	Three-dimensional graphene/polyaniline composite material for high-performance supercapacitor applications. <b>2013</b> , 178, 293-298	90
1716	Fabrication of high-surface-area graphene/polyaniline nanocomposites and their application in supercapacitors. <b>2013</b> , 5, 2685-91	273
1715	Strongly coupled inorganic-nano-carbon hybrid materials for energy storage. <b>2013</b> , 42, 3088-113	707
1714	Low-temperature preparation of nitrogen-doped graphene for supercapacitors. <b>2013</b> , 56, 218-223	74

1713	Scaleable ultra-thin and high power density graphene electrochemical capacitor electrodes manufactured by aqueous exfoliation and spray deposition. <b>2013</b> , 52, 337-346	45
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1696	Langmuir-Blodgett assembly of sulphonated graphene nanosheets into single- and multi-layered thin films. <b>2013</b> , 568-569, 101-105	13

1695	Screen-Printable Thin Film Supercapacitor Device Utilizing Graphene/Polyaniline Inks. <b>2013</b> , 3, 1035-1040	194
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1687	One step synthesis and capacitive performance of graphene nanosheets/Mn <sub>3</sub> O <sub>4</sub> composite. <b>2013</b> , 89, 18-23	66
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1665	Room-temperature synthesis of 3-dimensional Ag-graphene hybrid hydrogel with promising electrochemical properties. <b>2013</b> , 178, 769-774		20
1664	Microwave-Assisted In Situ Synthesis of Graphene/PEDOT Hybrid and Its Application in Supercapacitors. <b>2013</b> , 78, 227-234		50
1663	High-performance supercapacitor electrode materials prepared from various pollens. <b>2013</b> , 9, 1342-7		175
1662	Microwave-Assisted Solution Synthesis of Nanomaterials. <b>2013</b> , 107-143		1
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1660	Carbon nanoparticle ionic liquid functionalized activated carbon hybrid electrode for efficiency enhancement in supercapacitors. <b>2013</b> , 37, 886		20

1659	High rate performance of flexible pseudocapacitors fabricated using ionic-liquid-based proton conducting polymer electrolyte with poly(3, 4-ethylenedioxythiophene):poly(styrene sulfonate) and its hydrous ruthenium oxide composite electrodes. <b>2013</b> , 5, 3875-83	67
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1653	Synthesis, Properties and Potential Applications of Porous Graphene: A Review. <b>2013</b> , 5, 260-273	74
1652	Synthesis of Cobalt Sulfide/graphene (CoS/G) Nanocomposites for Supercapacitor Applications. <b>2013</b> , 12, 985-990	32
1651	Solution-based carbohydrate synthesis of individual solid, hollow, and porous carbon nanospheres using spray pyrolysis. <b>2013</b> , 7, 11156-65	84
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1644	An effective route to produce few-layer graphene using combinatorial ball milling and strong aqueous exfoliants. <b>2013</b> , 5, 033123	36
1643	Development of High Performance Electrochemical Capacitor: A Systematic Review of Electrode Fabrication Technique Based on Different Carbon Materials. <b>2013</b> , 2, M3101-M3119	38
1642	Indirect transformation of coordination-polymer particles into magnetic carbon-coated MN3O4 (MN3O4@C) nanowires for supercapacitor electrodes with good cycling performance. <b>2013</b> , 19, 7084-9	43

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1638	Nanostrukturierte Elektroden für Hochleistungs-Pseudokondensatoren. <b>2013</b> , 125, 1932-1940	24
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1635	Electroanalytical Sensing of Flunitrazepam Based on Screen Printed Graphene Electrodes. <b>2013</b> , 1, 68-77	13
1634	The Structure of Supported Ionic Liquids at the Interface. <b>2013</b> ,	
1633	Inorganic Nanostructures Decorated Graphene. <b>2013</b> ,	1
1632	Quantum-mechanical calculations on molecular substructures involved in nanosystems. <b>2014</b> , 19, 15468-506	10
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1626	Energy Storage and Materials. <b>2014</b> , 323-386	
1625	Super Dielectric Materials. <b>2014</b> , 7, 8197-8212	21
1624	Fabrication of a Low Density Carbon Fiber Foam and Its Characterization as a Strain Gauge. <b>2014</b> , 7, 3699-3714	9

1623	Nanoporous Activated Carbon Derived from Rice Husk for High Performance Supercapacitor. <b>2014</b> , 2014, 1-7		22
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1619	Designed single-step synthesis, structure, and derivative textural properties of well-ordered layered penta-coordinate silicon alcoholate complexes. <b>2014</b> , 20, 6315-23		3
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1616	An efficient and eco-friendly solution-chemical route for preparation of ultrastable reduced graphene oxide suspensions. <b>2014</b> , 60, 2757-2764		44
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1612	Graphene Applications. <b>2014</b> , 127-174		3
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1610	Preparation and Characterization of Scalable and Multi-Functional High Conductivity Polymer Electrode Material. <b>2014</b> , 898, 64-67		
1609	Pseudocapacity of N-doped and polymer modified carbon nanomaterials in non-aqueous media. <b>2014</b> , 29, A98-A106		2
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1607	Effects of preparation temperature on electrochemical performance of nitrogen-enriched carbons. <b>2014</b> , 24, 3541-3550		5
1606	Chemical and mechanical defenses vary among maternal lines and leaf ages in <i>Verbascum thapsus</i> L. (Scrophulariaceae) and reduce palatability to a generalist insect. <b>2014</b> , 9, e104889		11



1605	Electrochemical Performance of Cu Nanoparticle/Carbonized Wood Electrode for Supercapacitor Application. <b>2014</b> , 1678, 19	1
1604	Graphene-based nanocomposites for energy storage and conversion in lithium batteries, supercapacitors and fuel cells. <b>2014</b> , 2, 15-32	375
1603	Silver nanoparticles decorated on a three-dimensional graphene scaffold for electrochemical applications. <b>2014</b> , 75, 109-114	52
1602	Effect of the electrochemical oxidation/reduction cycle on the electrochemical capacitance of graphite oxide. <b>2014</b> , 76, 40-45	29
1601	NiAl-layered Double Hydroxide/Reduced Graphene Oxide Composite: Microwave-assisted Synthesis and Supercapacitive Properties. <b>2014</b> , 134, 309-318	77
1600	Poly(ortho-aminophenol)/graphene nanocomposite as an efficient supercapacitor electrode. <b>2014</b> , 713, 103-111	23
1599	Irradiation preparation of reduced graphene oxide/carbon nanotube composites for high-performance supercapacitors. <b>2014</b> , 245, 436-444	62
1598	Electrochemical capacitance of porous NiO $\cdot$ eO <sub>2</sub> binary oxide synthesized via sol-gel technique for supercapacitor. <b>2014</b> , 20, 409-420	58
1597	Influence of hydrophilic properties on capacitive behavior of functionalized graphene. <b>2014</b> , 20, 1055-1061	7
1596	Label-free electrochemical immunoassay for ultrasensitive detection of norethindrone. <b>2014</b> , 145, 155-160	1
1595	A universal equivalent circuit for carbon-based supercapacitors. <b>2014</b> , 18, 1377-1387	94
1594	A rational template carbonization method for producing highly porous carbon for supercapacitor application. <b>2014</b> , 117, 55-61	27
1593	A review of graphene and graphene oxide sponge: material synthesis and applications to energy and the environment. <b>2014</b> , 7, 1564	860
1592	Far-infrared reduced graphene oxide as high performance electrodes for supercapacitors. <b>2014</b> , 75, 201-208	30
1591	Three-dimensional graphene materials: preparation, structures and application in supercapacitors. <b>2014</b> , 7, 1850-1865	705
1590	Hydrothermal synthesis of a flower-like nano-nickel hydroxide for high performance supercapacitors. <b>2014</b> , 123, 158-166	83
1589	Interactions and structure of ionic liquids on graphene and carbon nanotubes surfaces. <b>2014</b> , 4, 18017-18024	61
1588	Ni(OH) <sub>2</sub> nanoflakes electrodeposited on Ni foam-supported vertically oriented graphene nanosheets for application in asymmetric supercapacitors. <b>2014</b> , 52, 89-95	75

1587	Supercapacitors based on modified graphene electrodes with poly(ionic liquid). <b>2014</b> , 256, 264-273	65
1586	Computational Discovery, Characterization, and Design of Single-Layer Materials. <b>2014</b> , 66, 366-374	36
1585	Nitrogen-containing nanoporous carbons by a rational template carbonization method evinced in the cases of 1, 10-phenanthroline and benzimidazole. <b>2014</b> , 18, 1879-1887	3
1584	Hydrothermal synthesis of carbon- and reduced graphene oxide-supported CoMoO <sub>4</sub> nanorods for supercapacitor. <b>2014</b> , 20, 1323-1334	30
1583	Preparation of Electrode Based on Plasma Modification and Its Electrochemical Application. <b>2014</b> , 23, 588-592	11
1582	Graphene/MnO <sub>2</sub> hybrid nanosheets as high performance electrode materials for supercapacitors. <b>2014</b> , 143, 740-746	30
1581	Synthesis of 3D graphite oxide-exfoliated carbon nanotube carbon composite and its application as catalyst support for fuel cells. <b>2014</b> , 260, 338-348	42
1580	Synthesis and characterization of carbon nanoparticles and their modified carbon paste electrode for the determination of dopamine. <b>2014</b> , 720-721, 1-8	21
1579	Synthesis of graphene-carbon sphere hybrid aerogel with silver nanoparticles and its catalytic and adsorption applications. <b>2014</b> , 244, 160-167	86
1578	Amorphous RuO <sub>2</sub> coated on carbon spheres as excellent electrode materials for supercapacitors. <b>2014</b> , 4, 6927	49
1577	A high-performance all-solid-state supercapacitor with graphene-doped carbon material electrodes and a graphene oxide-doped ion gel electrolyte. <b>2014</b> , 72, 381-386	86
1576	Recent Advances in Design and Fabrication of Electrochemical Supercapacitors with High Energy Densities. <b>2014</b> , 4, 1300816	1364
1575	Understanding ionic liquids from theoretical methods. <b>2014</b> , 192, 71-76	54
1574	Heat transport enhancement of thermal energy storage material using graphene/ceramic composites. <b>2014</b> , 75, 314-321	61
1573	Two dimensional nanomaterials for flexible supercapacitors. <b>2014</b> , 43, 3303-23	827
1572	In situ one-pot synthesis of graphene-polyaniline nanofiber composite for high-performance electrochemical capacitors. <b>2014</b> , 308, 333-340	44
1571	In situ assembly of MnO <sub>2</sub> nanowires/graphene oxide nanosheets composite with high specific capacitance. <b>2014</b> , 116, 111-117	84
1570	Facile synthesis of nanocrystalline LiFePO <sub>4</sub> /graphene composite as cathode material for high power lithium ion batteries. <b>2014</b> , 130, 594-599	29

1569	Composite graphene/semiconductor nanostructures for energy storage. <b>2014</b> , 213-266	
1568	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. <b>2014</b> , 3, 424-473	398
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1566	Electrodeposited nitrogen-doped graphene/carbon nanotubes nanocomposite as enhancer for simultaneous and sensitive voltammetric determination of caffeine and vanillin. <b>2014</b> , 833, 22-8	70
1565	Facile fabrication and electrochemical performance of flower-like Fe <sub>3</sub> O <sub>4</sub> @C@layered double hydroxide (LDH) composite. <b>2014</b> , 2, 8758-8765	56
1564	A flexible and high-voltage internal tandem supercapacitor based on graphene-based porous materials with ultrahigh energy density. <b>2014</b> , 10, 2285-92	51
1563	Graphene. <b>2014</b> , 1-32	2
1562	A multifunctional load-bearing solid-state supercapacitor. <b>2014</b> , 14, 3197-202	69
1561	Crumpled reduced graphene oxide by flame-induced reduction of graphite oxide for supercapacitive energy storage. <b>2014</b> , 2, 5730-5737	48
1560	Synthesis of nanotitania decorated few-layer graphene for enhanced visible light driven photocatalysis. <b>2014</b> , 428, 214-21	48
1559	Fast Response, vertically oriented graphene nanosheet electric double layer capacitors synthesized from C(2)H(2). <b>2014</b> , 8, 5873-82	113
1558	Chemical vapor deposition of N-doped graphene and carbon films: the role of precursors and gas phase. <b>2014</b> , 8, 3337-46	107
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1556	Reduced graphene oxide and vertically aligned carbon nanotubes superhydrophilic films for supercapacitors devices. <b>2014</b> , 49, 487-493	41
1555	Inkjet-printed energy storage device using graphene/polyaniline inks. <b>2014</b> , 248, 483-488	160
1554	Facile and novel electrochemical preparation of a graphene-transition metal oxide nanocomposite for ultrasensitive electrochemical sensing of acetaminophen and phenacetin. <b>2014</b> , 6, 207-14	72
1553	Facile room temperature methods for growing ultra thin films of graphene nanosheets, nanoparticulate tin oxide and preliminary assessment of graphene/tin oxide stacked layered composite structure for supercapacitor application. <b>2014</b> , 4, 4094-4104	17
1552	Insight into the capacitive properties of reduced graphene oxide. <b>2014</b> , 6, 2248-54	44

1551	Defect-controlled synthesis of graphene based nano-size electronic devices using in situ thermal treatment. <b>2014</b> , 15, 685-691	6
1550	One-pot hydrothermal synthesis of reduced graphene oxide/Ni(OH) <sub>2</sub> films on nickel foam for high performance supercapacitors. <b>2014</b> , 115, 155-164	168
1549	Application of carbon materials in redox flow batteries. <b>2014</b> , 253, 150-166	220
1548	Preparation of novel three-dimensional NiO/ultrathin derived graphene hybrid for supercapacitor applications. <b>2014</b> , 6, 1106-12	161
1547	Clean surface transfer of graphene films via an effective sandwich method for organic light-emitting diode applications. <b>2014</b> , 2, 201-207	52
1546	Inorganic nanostructured materials for high performance electrochemical supercapacitors. <b>2014</b> , 6, 2037-45	177
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1538	CHAPTER 5:Nanotubes for Energy Storage. <b>2014</b> , 121-198	
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1536	Molecular force transfer mechanisms in graphene oxide paper evaluated using atomic force microscopy and in situ synchrotron micro FT-IR spectroscopy. <b>2014</b> , 6, 14404-11	14
1535	Temperature-dependent structure and electrochemical performance of highly nanoporous carbon from potassium biphthalate and magnesium powder via a template carbonization process. <b>2014</b> , 2, 9675	19
1534	Controllable synthesis of RGO/FexOy nanocomposites as high-performance anode materials for lithium ion batteries. <b>2014</b> , 2, 9844-9850	53

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1527	An interleaved porous laminate composed of reduced graphene oxide sheets and carbon black spacers by in situ electrophoretic deposition. <b>2014</b> , 4, 3284-3292	44
1526	Vertically aligned cobalt hydroxide nano-flake coated electro-etched carbon fiber cloth electrodes for supercapacitors. <b>2014</b> , 616-617, 35-39	5
1525	Enhanced electrical capacitance of heteroatom-decorated nanoporous carbon nanofiber composites containing graphene. <b>2014</b> , 137, 781-788	21
1524	Edge-enriched porous graphene nanoribbons for high energy density supercapacitors. <b>2014</b> , 2, 7484	47
1523	Functionalization of monolithic and porous three-dimensional graphene by one-step chitosan electrodeposition for enzymatic biosensor. <b>2014</b> , 6, 19997-20002	80
1522	Alkali reduction of graphene oxide in molten halide salts: production of corrugated graphene derivatives for high-performance supercapacitors. <b>2014</b> , 8, 11225-33	96
1521	One-Step Synthesis of Aqueous Graphene Dispersion Stabilized by Sodium Dodecylbenzene Sulfonate. <b>2014</b> , 924, 46-51	0
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1517	Functionalization of graphene with nitrogen using ethylenediaminetetraacetic acid and their electrochemical energy storage properties. <b>2014</b> , 4, 24248	18
1516	A 3D hierarchical hybrid nanostructure of carbon nanotubes and activated carbon for high-performance supercapacitors. <b>2014</b> , 2, 3505	33

1515	Expeditious fabrication of flower-like hierarchical mesoporous carbon superstructures as supercapacitor electrode materials. <b>2014</b> , 2, 16884-16891	55
1514	Nonenzymatic sensing of methyl parathion based on graphene/gadolinium Prussian Blue analogue nanocomposite modified glassy carbon electrode. <b>2014</b> , 6, 2157	32
1513	Carboxylated graphene oxide/Mn <sub>2</sub> O <sub>3</sub> nanorod composites for their electrochemical characteristics. <b>2014</b> , 2, 4292	45
1512	Synthesis and electrochemical properties of graphene oxide/manganese oxide/polyaniline and its reduced composites. <b>2014</b> , 4, 56615-56624	13
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1499	Achieving 100% Utilization of Reduced Graphene Oxide by Layer-by-Layer Assembly: Insight into the Capacitance of Chemically Derived Graphene in a Monolayer State. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 6624-6630	3.8 10
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1496	Molecular-scale heteroassembly of redoxable hydroxide nanosheets and conductive graphene into superlattice composites for high-performance supercapacitors. <b>2014</b> , 26, 4173-8		144
1495	Generalized Conversion of Halogen-Containing Plastic Waste into Nanoporous Carbon by a Template Carbonization Method. <b>2014</b> , 53, 6990-6997		20
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1491	Nitrogen-doped reduced graphene oxide-Ni(OH) <sub>2</sub> -built 3D flower composite with easy hydrothermal process and excellent electrochemical performance. <b>2014</b> , 138, 69-78		39
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1485	Three-dimensional Co <sub>3</sub> O <sub>4</sub> /flocculent graphene hybrid on Ni foam for supercapacitor applications. <b>2014</b> , 2, 15987-15994		45
1484	Sulfur-doped porous reduced graphene oxide hollow nanosphere frameworks as metal-free electrocatalysts for oxygen reduction reaction and as supercapacitor electrode materials. <b>2014</b> , 6, 13740-7		159
1483	Controlled assembly of Bi <sub>2</sub> S <sub>3</sub> architectures as Schottky diode, supercapacitor electrodes and highly efficient photocatalysts. <b>2014</b> , 4, 41636-41641		42
1482	One-step electrodeposited nickel cobalt sulfide nanosheet arrays for high-performance asymmetric supercapacitors. <b>2014</b> , 8, 9531-41		599
1481	One-pot synthesis of thin Co(OH) <sub>2</sub> nanosheets on graphene and their high activity as a capacitor electrode. <b>2014</b> , 4, 51619-51623		23
1480	Tunable Graphene Oxide Proton/Electron Mixed Conductor that Functions at Room Temperature. <b>2014</b> , 26, 5598-5604		61

1479	A facile one-pot fabrication of flowerlike graphene-based particles for electric double-layer capacitors. <b>2014</b> , 148, 631-638		3
1478	Modified physicochemical properties and supercapacitive performance via DMSO inducement to PEDOT:PSS active layer. <b>2014</b> , 15, 3423-3430		32
1477	Solid-state functionalization of graphene with amino acids toward water-dispersity: implications on a composite with polyaniline and its characteristics as a supercapacitor electrode material. <b>2014</b> , 2, 12526		28
1476	Electrochemical and Corrosion Stability of Nanostructured Silicon by Graphene Coatings: Toward High Power Porous Silicon Supercapacitors. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 10893-10902	3.8	66
1475	Solution combustion synthesis of cobalt oxides (Co <sub>3</sub> O <sub>4</sub> and Co <sub>3</sub> O <sub>4</sub> /CoO) nanoparticles as supercapacitor electrode materials. <b>2014</b> , 132, 127-135		151
1474	Fabrication of free-standing hierarchical carbon nanofiber/graphene oxide/polyaniline films for supercapacitors. <b>2014</b> , 6, 200-9		145
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1472	Facile fabrication of three-dimensional highly ordered structural polyaniline-graphene bulk hybrid materials for high performance supercapacitor electrodes. <b>2014</b> , 2, 813-823		122
1471	Recyclable removal of bisphenol A from aqueous solution by reduced graphene oxide-magnetic nanoparticles: adsorption and desorption. <b>2014</b> , 421, 85-92		108
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1468	The self-assembly of shape controlled functionalized graphene-MnO <sub>2</sub> composites for application as supercapacitors. <b>2014</b> , 2, 9178-9184		87
1467	Additive-Driven Self-Assembly of Well-Ordered Mesoporous Carbon/Iron Oxide Nanoparticle Composites for Supercapacitors. <b>2014</b> , 26, 2128-2137		118
1466	A simple route to prepare free-standing graphene thin film for high-performance flexible electrode materials. <b>2014</b> , 4, 30422		6
1465	Low cost and flexible mesh-based supercapacitors for promising large-area flexible/wearable energy storage. <b>2014</b> , 6, 82-91		39
1464	A Facile One-Step Method for the Synthesis of Reduced Graphene Oxide Nanocomposites by NADH as Reducing Agent and Its Application in NADH Sensing. <b>2014</b> , 26, 171-177		27
1463	Hydrothermal synthesis of NiCo <sub>2</sub> O <sub>4</sub> nanowires/nitrogen-doped graphene for high-performance supercapacitor. <b>2014</b> , 314, 1000-1006		42
1462	Co(OH) nanosheet-decorated graphene-CNT composite for supercapacitors of high energy density. <b>2014</b> , 15, 014206		41



1461	Facile preparation of three-dimensional multilayer porous MnO <sub>2</sub> /reduced graphene oxide composite and its supercapacitive performance. <b>2014</b> , 271, 582-588		53
1460	Morphological characterization and impedance spectroscopy study of porous 3D carbons based on graphene foam-PVA/phenol-formaldehyde resin composite as an electrode material for supercapacitors. <b>2014</b> , 4, 39066		38
1459	Instantaneous Reduction of Graphene Oxide Paper for Supercapacitor Electrodes with Unimpeded Liquid Permeation. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 13493-13502	3.8	14
1458	Three-dimensional Interconnected Nanocarbon Hybrid Prepared by One-pot Synthesis Method with Polypyrrole-based Nanotube and Graphene and the Application in High-performance Capacitance. <b>2014</b> , 146, 386-394		16
1457	Functionalized graphene oxide based on p-phenylenediamine as spacers and nitrogen dopants for high performance supercapacitors. <b>2014</b> , 59, 1809-1815		23
1456	Aldehyde-poly(ethylene glycol) modified graphene oxide/conducting polymers composite as high-performance electrochemical supercapacitors. <b>2014</b> , 2, 18058-18069		35
1455	High-performance all-solid-state flexible supercapacitors based on two-step activated carbon cloth. <b>2014</b> , 272, 16-23		81
1454	Predicting ion specific capacitances of supercapacitors due to quantum ionic interactions. <b>2014</b> , 427, 67-72		9
1453	Structure and electrochemical performance of highly nanoporous carbons from benzoate-metal complexes by a template carbonization method for supercapacitor application. <b>2014</b> , 72, 410-420		50
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1451	Charging Mechanism and Moving Reaction Fronts in a Supercapacitor with Pseudocapacitance. <b>2014</b> , 161, A239-A246		11
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1449	Multilayer super-short carbon nanotube/reduced graphene oxide architecture for enhanced supercapacitor properties. <b>2014</b> , 247, 396-401		67
1448	Polypyrrole/hexadecylpyridinium chloride-modified graphite oxide composites: Fabrication, characterization, and application in supercapacitors. <b>2014</b> , 246, 621-628		68
1447	Structure and electrochemical properties of electrospun carbon fiber composites containing graphene. <b>2014</b> , 20, 3474-3479		42
1446	Facile synthesis and advanced performance of Ni(OH) <sub>2</sub> /CNTs nanoflake composites on supercapacitor applications. <b>2014</b> , 601, 168-173		44
1445	Chemically grafted graphene-polyaniline composite for application in supercapacitor. <b>2014</b> , 133, 325-334		145
1444	Direct synthesis of RGO/Cu <sub>2</sub> O composite films on Cu foil for supercapacitors. <b>2014</b> , 586, 745-753		93

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1438	Large-scale synthesis of reduced graphene oxides with uniformly coated polyaniline for supercapacitor applications. <b>2014</b> , 7, 1551-6	156
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1435	Oxygen adsorption effect on nitrogen-doped graphene electrical properties. <b>2014</b> , 7, 055101	10
1434	The Handbook of Graphene Electrochemistry. <b>2014</b> ,	123
1433	Flexible supercapacitors based on carbon nanomaterials. <b>2014</b> , 2, 10756	337
1432	A new voltammetric sensor for morphine detection based on electrochemically reduced MWNTs-doped graphene oxide composite film. <b>2014</b> , 201, 511-519	31
1431	Self-standing rationally functionalized graphene as high-performance electrode materials for supercapacitors. <b>2014</b> , 23, 346-353	14
1430	Formation of Oriented Graphene Nanoribbons over Heteroepitaxial Cu Surfaces by Chemical Vapor Deposition. <b>2014</b> , 26, 5215-5222	7
1429	Effects of Oxygen-Containing Functional Groups on Supercapacitor Performance. <b>2014</b> , 5, 2330-4	71
1428	Experimental and modeling study on charge storage/transfer mechanism of graphene-based supercapacitors. <b>2014</b> , 268, 604-609	11
1427	Potential of laser-induced breakdown spectroscopy for discrimination of nano-sized carbon materials. Insights on the optical characterization of graphene. <b>2014</b> , 97, 105-112	10
1426	Highly nanoporous carbon derived from potassium biphthalate by a template carbonization method. <b>2014</b> , 125, 652-658	3

1425	Raman and Infrared Spectroscopic Characterization of Graphene. <b>2014</b> , 165-194	
1424	Role of nanocrystalline domain size on the electrochemical double-layer capacitance of high edge density carbon nanostructures. <b>2015</b> , 5, 285-290	5
1423	Cellulose-Derived Supercapacitors from the Carbonisation of Filter Paper. <b>2015</b> , 4, 586-9	23
1422	Formation of defects in the graphite oxidization process: a positron study. <b>2015</b> , 5, 88908-88914	5
1421	- Different Functionalization Methods of Carbon-Based Nanomaterials. <b>2015</b> , 54-83	
1420	Microwave exfoliated graphene oxide/TiO <sub>2</sub> nanowire hybrid for high performance lithium ion battery. <b>2015</b> , 118, 125102	14
1419	Microwave-assisted synthesis of layer-by-layer ultra-large and thin NiAl-LDH/RGO nanocomposites and their excellent performance as electrodes. <b>2015</b> , 58, 944-952	32
1418	Functionalization of graphene with single-stranded DNA. <b>2015</b> , 67, 1952-1956	
1417	Graphene-based electrodes for flexible electronics. <b>2015</b> , 64, 1676-1684	23
1416	Improved electrochemical performances of polyaniline by graphitized mesoporus carbon: Hybrid electrode for supercapacitor. <b>2015</b> , 132, n/a-n/a	6
1415	Fast Ion and Electron Transport in a Supercapacitor Based on Monolithic Nanowire-Array Electrodes Prepared from a Defect-Free Anodic Aluminium Oxide Mold. <b>2015</b> , 2, 1500354	6
1414	Chemical Modification of Graphene Oxide through Diazonium Chemistry and Its Influence on the Structure-Property Relationships of Graphene Oxide-Iron Oxide Nanocomposites. <b>2015</b> , 21, 12465-74	27
1413	Electrochemical Reaction of Graphene Oxide at Au Electrode Surface Monitored by Surface Enhanced Infrared Absorption Spectroscopy. <b>2015</b> , 13, 413-416	1
1412	Improvement of Electric Conductivity of Carbon Materials with introducing Naphthalene and Anthracene by Using Solution Plasma Process. <b>2015</b> , 66, 416-419	2
1411	3D Reduced Graphene Oxide Coated V <sub>2</sub> O <sub>5</sub> Nanoribbon Scaffolds for High-Capacity Supercapacitor Electrodes. <b>2015</b> , 32, 817-821	43
1410	Non-Covalent Functionalization of Graphene with Bisphenol A for High-Performance Supercapacitors. <b>2015</b> , 33, 199-206	35
1409	High-Surface-Area Nitrogen-Doped Reduced Graphene Oxide for Electric Double-Layer Capacitors. <b>2015</b> , 8, 1875-84	62
1408	Energy storage in symmetric and asymmetric supercapacitors based in carbon cloth/polyaniline-carbon black nanocomposites. <b>2015</b> , 39, 2053-2061	17

1407	Straightforward Generation of Pillared, Microporous Graphene Frameworks for Use in Supercapacitors. <b>2015</b> , 27, 6714-21	117
1406	Reduced graphene oxide-wrapped MoO <sub>3</sub> composites prepared by using metal-organic frameworks as precursor for all-solid-state flexible supercapacitors. <b>2015</b> , 27, 4695-701	326
1405	. <b>2015</b> ,	6
1404	Unique Reactivity of Transition Metal Atoms Embedded in Graphene to CO, NO, O <sub>2</sub> and O Adsorption: A First-Principles Investigation. <b>2015</b> , 20, 19540-53	11
1403	High-Performance Supercapacitors Based on Ionic Liquids and a Graphene Nanostructure. <b>2015</b> ,	7
1402	Cauliflower-Like Co <sub>3</sub> O <sub>4</sub> /Three-Dimensional Graphene Composite for High Performance Supercapacitor Applications. <b>2015</b> , 2015, 1-9	5
1401	. <b>2015</b> ,	3
1400	Porous reduced graphene oxide paper as a binder-free electrode for high-performance supercapacitors. <b>2015</b> , 5, 27175-27180	10
1399	A graphene-modified cellulose paper microchip for HIV detection. <b>2015</b> ,	
1398	Engineering of MnO <sub>2</sub> -based nanocomposites for high-performance supercapacitors. <b>2015</b> , 74, 51-124	361
1397	One-step and template-free preparation of hierarchical porous carbons with high capacitive performance. <b>2015</b> , 5, 46947-46954	13
1396	Application of Activated Carbons Derived from Scrap Tires as Electrode Materials for Supercapacitors. <b>2015</b> , 4, M35-M40	17
1395	A study on the pseudocapacitive behavior of poly(luminol)/graphene nanocomposite. <b>2015</b> , 751, 15-22	5
1394	Studies on the equivalent serial resistance of carbon supercapacitor. <b>2015</b> , 174, 596-600	38
1393	Multilayered paper-like electrodes composed of alternating stacked mesoporous Mo <sub>2</sub> N nanobelts and reduced graphene oxide for flexible all-solid-state supercapacitors. <b>2015</b> , 3, 14617-14624	66
1392	Electrochemical characteristics of graphene nanoribbon/polypyrrole composite prepared via oxidation polymerization in the presence of poly-(sodium 4-styrenesulfonate). <b>2015</b> , 161, 265-270	5
1391	Synergetic influence of ex-situ camphoric carbon nano-grafting on lithium titanates for lithium ion capacitors. <b>2015</b> , 24, 337-345	13
1390	Synthesis of Three Dimensional Graphene/Multiwalled Carbon Nanotubes Nanocomposites Hydrogel and Investigation of their Electrochemical Properties as Electrodes of Supercapacitors. <b>2015</b> , 1094, 222-228	1

1389	Electrochemical properties of novel titania nanostructures. <b>2015</b> , 26, 225603		4
1388	High-performance planar nanoscale dielectric capacitors. <b>2015</b> , 91,		18
1387	Hydrothermal Synthesis of Porous Graphene Nanosheets for Supercapacitors. <b>2015</b> , 719-720, 119-122		
1386	Improving the reliability of carbon nanotube based infrared sensors. <b>2015</b> ,		
1385	First-Principles Calculation of Quantum Capacitance of Codoped Graphenes as Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 26290-26295	3.8	77
1384	Quantitatively control of carbon nanotubes using real time electrical detection dielectrophoresis assembly. <b>2015</b> ,		0
1383	Graphene Oxide: A Fertile Nanosheet for Various Applications. <b>2015</b> , 84, 121012		19
1382	N-doped carbon foam based three-dimensional electrode architectures and asymmetric supercapacitors. <b>2015</b> , 3, 2853-2860		66
1381	Flexible free-standing 3D porous N-doped graphene-carbon nanotube hybrid paper for high-performance supercapacitors. <b>2015</b> , 5, 9228-9236		60
1380	Hydrothermal deposition of manganese dioxide nanosheets on electrodeposited graphene covered nickel foam as a high-performance electrode for supercapacitors. <b>2015</b> , 279, 138-145		54
1379	Electrochemical performance improvement of N-doped graphene as electrode materials for supercapacitors by optimizing the functional groups. <b>2015</b> , 5, 12583-12591		14
1378	Sulphur-functionalized graphene towards high performance supercapacitor. <b>2015</b> , 12, 250-257		79
1377	High performance supercapacitor based on graphene-silver nanoparticles-polypyrrole nanocomposite coated on glassy carbon electrode. <b>2015</b> , 276, 262-270		148
1376	Towards superior volumetric performance: design and preparation of novel carbon materials for energy storage. <b>2015</b> , 8, 1390-1403		304
1375	Nitrogen-enriched porous carbon nanofiber networks for binder-free supercapacitors obtained by using a reactive surfactant as a porogen. <b>2015</b> , 158, 306-313		40
1374	A facile preparation and electrochemical properties of nickel based compound-graphene sheet composites for supercapacitors. <b>2015</b> , 26, 522-528		15
1373	Mechanical properties of crumpled graphene under hydrostatic and uniaxial compression. <b>2015</b> , 48, 095302		38
1372	Facile synthesis of 3D reduced graphene oxide and its polyaniline composite for super capacitor application. <b>2015</b> , 202, 140-146		74

1371	In situ and nonvolatile photoluminescence tuning and nanodomain writing demonstrated by all-solid-state devices based on graphene oxide. <b>2015</b> , 9, 2102-10		33
1370	Flexible, Free-Standing TiO <sub>2</sub> /Graphene/Polypyrrole Composite Films as Electrodes for Supercapacitors. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 3903-3910	3.8	112
1369	Template-free hydrothermal synthesis of nickel cobalt hydroxide nanoflowers with high performance for asymmetric supercapacitor. <b>2015</b> , 161, 279-289		118
1368	Mussel-inspired biopolymer modified 3D graphene foam for enzyme immobilization and high performance biosensor. <b>2015</b> , 161, 17-22		33
1367	Graphene for Supercapacitors. <b>2015</b> , 171-214		5
1366	Graphene/Polymer Nanocomposites: Role in Electronics. <b>2015</b> , 1-24		11
1365	Click-chemistry approach for graphene modification: effective reinforcement of UV-curable functionalized graphene/polyurethane acrylate nanocomposites. <b>2015</b> , 5, 13502-13506		16
1364	Wet-spun, porous, orientational graphene hydrogel films for high-performance supercapacitor electrodes. <b>2015</b> , 7, 4080-7		72
1363	Solid-type supercapacitor of reduced graphene oxide-metal organic framework composite coated on carbon fiber paper. <b>2015</b> , 157, 69-77		133
1362	High-Performance Supercapacitors Based on Novel Graphene Composites. <b>2015</b> , 145-170		
1361	Hierarchically porous metallic silver monoliths: facile synthesis, characterization and its evaluation as an electrode material for supercapacitors. <b>2015</b> , 26, 2403-2410		10
1360	A simple CaCO <sub>3</sub> -assisted template carbonization method for producing nitrogen-containing nanoporous carbon spheres and its electrochemical improvement by the nitridation of azodicarbonamide. <b>2015</b> , 155, 93-102		15
1359	Graphene-like carbide derived carbon for high-power supercapacitors. <b>2015</b> , 12, 197-206		101
1358	Electrochemical Supercapacitors for Energy Storage and Conversion. <b>2015</b> , 1-25		105
1357	Performance of Flexible and Binderless Polypyrrole/Graphene Oxide/Zinc Oxide Supercapacitor Electrode in a Symmetrical Two-Electrode Configuration. <b>2015</b> , 157, 88-94		154
1356	Free-standing porous manganese dioxide/graphene composite films for high performance supercapacitors. <b>2015</b> , 437, 304-310		37
1355	Iron metal induced deoxygenation of graphite oxide nanosheets-insights on the capacitive properties of binder-free electrodes. <b>2015</b> , 5, 23367-23373		7
1354	Effect of reduction heat treatment in H <sub>2</sub> atmosphere on structure and electrochemical properties of activated carbon. <b>2015</b> , 19, 1437-1446		10

1353	Application and Uses of Graphene. <b>2015</b> , 1-38	13
1352	Enhancement of the energy storage properties of supercapacitors using graphene nanosheets dispersed with macro-structured porous copper oxide. <b>2015</b> , 163, 196-203	53
1351	Synthesis and characterization of copper-infiltrated carbonized wood monoliths for supercapacitor electrodes. <b>2015</b> , 161, 343-350	27
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1349	Three-dimensional graphene nanosheets/carbon nanotube paper as flexible electrodes for electrochemical capacitors. <b>2015</b> , 5, 22173-22177	7
1348	Wet chemical synthesis of WO <sub>3</sub> thin films for supercapacitor application. <b>2015</b> , 32, 974-979	50
1347	A simple microexplosion synthesis of graphene-based scroll-sheet conjoined nanomaterials for enhanced supercapacitor properties. <b>2015</b> , 172, 71-76	7
1346	A regular, compact but microporous packing structure: high-density graphene assemblies for high-volumetric-performance supercapacitors. <b>2015</b> , 3, 12653-12662	27
1345	Nanoporous graphene materials by low-temperature vacuum-assisted thermal process for electrochemical energy storage. <b>2015</b> , 284, 146-153	37
1344	Nanoclay based graphene polyaniline hybrid nanocomposites: promising electrode materials for supercapacitors. <b>2015</b> , 5, 68334-68344	25
1343	Nanocomposites of graphene/polymers: a review. <b>2015</b> , 5, 68014-68051	177
1342	Photovoltage Study of Graphene Oxide with Ni Nanoparticles. <b>2015</b> , 2, 431-435	1
1341	Self-assembled Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene film with high gravimetric capacitance. <b>2015</b> , 51, 13531-3	118
1340	Combining Energy Conversion and Storage: A Solar Powered Supercapacitor. <b>2015</b> , 178, 113-126	27
1339	Crumpled graphene: preparation and applications. <b>2015</b> , 5, 66767-66796	52
1338	Pronounced improvement of supercapacitor capacitance by using redox active electrolyte of p-phenylenediamine. <b>2015</b> , 176, 941-948	28
1337	Covalently Coupled Ultrafine H-TiO <sub>2</sub> Nanocrystals/Nitrogen-Doped Graphene Hybrid Materials for High-Performance Supercapacitor. <b>2015</b> , 7, 17884-92	97
1336	One-step synthesis of a cobalt sulfide/reduced graphene oxide composite used as an electrode material for supercapacitors. <b>2015</b> , 5, 67518-67523	32

1335	Efficient conversion of waste polyvinyl chloride into nanoporous carbon incorporated with MnOx exhibiting superior electrochemical performance for supercapacitor application. <b>2015</b> , 176, 197-206	12
1334	Synthesis of BCN Nanoparticles Sandwiched between Carbon Nanosheets and Performance in Electrochemical Capacitors. <b>2015</b> , 719-720, 137-140	
1333	Enhanced electrochemical performance of NiO by addition of sulfonated graphene for supercapacitors. <b>2015</b> , 5, 60141-60147	5
1332	Microwave-Assisted Oxidation of Electrospun Turbostratic Carbon Nanofibers for Tailoring Energy Storage Capabilities. <b>2015</b> , 27, 4574-4585	14
1331	A facile approach to prepare Bi(OH) <sub>3</sub> nanoflakes as high-performance pseudocapacitor materials. <b>2015</b> , 39, 5927-5930	12
1330	Vibrational spectroscopy at electrolyte/electrode interfaces with graphene gratings. <b>2015</b> , 6, 7593	14
1329	A reduced graphene oxide modified metallic cobalt composite with superior electrochemical performance for supercapacitors. <b>2015</b> , 5, 63553-63560	49
1328	One step microwaved-assisted hydrothermal synthesis of nitrogen doped graphene for high performance of supercapacitor. <b>2015</b> , 355, 419-428	32
1327	An optimized mild reduction route towards excellent cobalt-graphene catalysts for water oxidation. <b>2015</b> , 5, 64858-64864	2
1326	Facile synthesis of 3-D composites of MnO <sub>2</sub> nanorods and holey graphene oxide for supercapacitors. <b>2015</b> , 50, 6313-6320	22
1325	Nitrogen and sulfur co-doped nanoporous carbon material derived from p-nitrobenzenamine within several minutes and the supercapacitor application. <b>2015</b> , 649, 851-858	30
1324	A 2D graphene-manganese oxide nanosheet hybrid synthesized by a single step liquid-phase co-exfoliation method for supercapacitor applications. <b>2015</b> , 174, 696-705	39
1323	A technology review of electrodes and reaction mechanisms in vanadium redox flow batteries. <b>2015</b> , 3, 16913-16933	415
1322	Eco-friendly synthesis of hierarchical ginkgo-derived carbon nanoparticles/NiAl-layered double hydroxide hybrid electrodes toward high-performance supercapacitors. <b>2015</b> , 5, 55109-55118	15
1321	Water-dispersible graphene/polyaniline composites for flexible micro-supercapacitors with high energy densities. <b>2015</b> , 16, 470-478	134
1320	Density Functional Theory Calculations for the Quantum Capacitance Performance of Graphene-Based Electrode Material. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 6464-6470	3.8 97
1319	Controllable synthesis of coaxial nickel hexacyanoferrate/carbon nanotube nanocables as advanced supercapacitors materials. <b>2015</b> , 167, 364-371	23
1318	Face-to-face self-assembly graphene/MnO <sub>2</sub> nanocomposites for supercapacitor applications using electrochemically exfoliated graphene. <b>2015</b> , 167, 412-420	48



1317	Grain size effects on the dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics for supercapacitor applications. <b>2015</b> , 41, 10442-10447	49
1316	Thiocarbanilide-derived nanoporous carbon materials by a simple template carbonization method: The comparison of Ca(OH) <sub>2</sub> and Mg(OH) <sub>2</sub> template effects upon pore structures and capacitive behaviors. <b>2015</b> , 744, 8-16	3
1315	High-performance supercapacitors based on novel carbons derived from Sterculia lychnophora. <b>2015</b> , 5, 32159-32167	17
1314	Graphene based integrated tandem supercapacitors fabricated directly on separators. <b>2015</b> , 15, 1-8	26
1313	Holey graphene nanosheets with surface functional groups as high-performance supercapacitors in ionic-liquid electrolyte. <b>2015</b> , 8, 1779-86	37
1312	Self-assembly of monodisperse starburst carbon spheres into hierarchically organized nanostructured supercapacitor electrodes. <b>2015</b> , 7, 9128-33	30
1311	Single graphene nanoplatelets: capacitance, potential of zero charge and diffusion coefficient. <b>2015</b> , 6, 2869-2876	65
1310	Effect of different reduction methods on electrochemical cycling stability of reduced graphene oxide in supercapacitors. <b>2015</b> , 45, 57-65	4
1309	Synthesis of ordered mesoporous carbon nanofiber arrays/nickelBoron amorphous alloy with high electrochemical performance for supercapacitor. <b>2015</b> , 50, 4622-4628	9
1308	Floss-like Ni <sub>2</sub> O binary hydroxides assembled by whisker-like nanowires for high-performance supercapacitor. <b>2015</b> , 21, 1655-1663	12
1307	Hydrothermal synthesis of nitrogen doped graphene nanosheets from carbon nanosheets with enhanced electrocatalytic properties. <b>2015</b> , 5, 39705-39713	10
1306	Ultrahigh-rate and high-density lithium-ion capacitors through hybridizing nitrogen-enriched hierarchical porous carbon cathode with prelithiated microcrystalline graphite anode. <b>2015</b> , 15, 43-53	125
1305	High-Performance Solid-State Supercapacitors Fabricated by Pencil Drawing and Polypyrrole Depositing on Paper Substrate. <b>2015</b> , 7, 276-281	40
1304	MnFe <sub>2</sub> O <sub>4</sub> @CNT-N as novel electrochemical nanosensor for determination of caffeine, acetaminophen and ascorbic acid. <b>2015</b> , 218, 128-136	69
1303	Nanoporous graphene/single wall carbon nanohorn heterostructures with enhanced capacitance. <b>2015</b> , 3, 11740-11744	37
1302	Recent advancement of nanostructured carbon for energy applications. <b>2015</b> , 115, 5159-223	598
1301	Sustainable process for all-carbon electrodes: Horticultural doping of natural-resource-derived nano-carbons for high-performance supercapacitors. <b>2015</b> , 91, 386-394	21
1300	High performance of supercapacitor based on nitrogen-doped graphene/p-aminophenol electrodes. <b>2015</b> , 21, 2639-2645	7

1299	Photocatalytic decomposition of graphene over a ZnO surface under UV irradiation. <b>2015</b> , 17, 15683-6		9
1298	Synthesis of nitrogen-doped monolayer graphene with high transparent and n-type electrical properties. <b>2015</b> , 3, 6172-6177		21
1297	Tunable wide blue photoluminescence with europium decorated graphene. <b>2015</b> , 3, 4030-4038		27
1296	Free-standing carbon nanotube-titania photoactive sheets. <b>2015</b> , 448, 148-55		3
1295	Mesoporous activated carbon spheres derived from resorcinol-formaldehyde resin with high performance for supercapacitors. <b>2015</b> , 19, 1783-1791		78
1294	A novel Cr <sub>2</sub> O <sub>3</sub> -carbon composite as a high performance pseudo-capacitor electrode material. <b>2015</b> , 171, 142-149		47
1293	Configuration-Induced Rich Electronic Properties of Bilayer Graphene. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10623-10630	3.8	7
1292	Temperature-Dependent Conversion of Magnesium Citrate into Nanoporous Carbon Materials for Superior Supercapacitor Application by a Multitemplate Carbonization Method. <b>2015</b> , 54, 4956-4964		18
1291	Fibrous and flexible supercapacitors comprising hierarchical nanostructures with carbon spheres and graphene oxide nanosheets. <b>2015</b> , 3, 12761-12768		36
1290	Vertically oriented few-layer graphene-nanocup hybrid structured electrodes for high-performance supercapacitors. <b>2015</b> , 3, 12396-12403		67
1289	Controllable synthesis of activated graphene and its application in supercapacitors. <b>2015</b> , 3, 9543-9549		31
1288	MnO <sub>2</sub> Nanosheets Grown on Nitrogen-Doped Hollow Carbon Shells as a High-Performance Electrode for Asymmetric Supercapacitors. <b>2015</b> , 21, 7119-26		54
1287	FeCo <sub>2</sub> O <sub>4</sub> /hollow graphene spheres hybrid with enhanced electrocatalytic activities for oxygen reduction and oxygen evolution reaction. <b>2015</b> , 92, 74-83		113
1286	Vapor deposition polymerization of aniline on 3D hierarchical porous carbon with enhanced cycling stability as supercapacitor electrode. <b>2015</b> , 286, 1-9		97
1285	Comparative Study of Potential Applications of Graphene, MoS <sub>2</sub> , and Other Two-Dimensional Materials in Energy Devices, Sensors, and Related Areas. <b>2015</b> , 7, 7809-32		311
1284	Flexible superior electrode architectures based on three-dimensional porous spinous Fe <sub>2</sub> O <sub>3</sub> with a high performance as a supercapacitor. <b>2015</b> , 44, 9581-7		28
1283	Nitrogen doped graphene via thermal treatment of composite solid precursors as a high performance supercapacitor. <b>2015</b> , 5, 30679-30686		53
1282	Printing nanostructured carbon for energy storage and conversion applications. <b>2015</b> , 92, 150-176		74

1281	Enhancing the capacitance and active surface utilization of supercapacitor electrode by graphene nanoplatelets. <b>2015</b> , 112, 16-21	28
1280	Self-Assembly of Graphene for Electrochemical Capacitors. <b>2015</b> , 253-278	10
1279	Graphene and Porous Nanocarbon Materials for Supercapacitor Applications. <b>2015</b> , 301-338	1
1278	Flexible Hybrid Membranes with Ni(OH) <sub>2</sub> Nanoplatelets Vertically Grown on Electrospun Carbon Nanofibers for High-Performance Supercapacitors. <b>2015</b> , 7, 22669-77	132
1277	Microfluidic generation of graphene beads for supercapacitor electrode materials. <b>2015</b> , 3, 22088-22093	25
1276	Electrophoretically deposited graphene oxide and carbon nanotube composite for electrochemical capacitors. <b>2015</b> , 26, 415203	9
1275	Remarkably stable high power Li-ion battery anodes based on vertically arranged multilayered-graphene. <b>2015</b> , 182, 500-506	11
1274	Physioelectrochemical investigation of the supercapacitive performance of a ternary nanocomposite by common electrochemical methods and fast Fourier transform voltammetry. <b>2015</b> , 39, 9454-9460	46
1273	High performance solid-state supercapacitors based on compressed graphene foam. <b>2015</b> , 5, 84836-84839	14
1272	MoS <sub>2</sub> oxygen sensor with gate voltage stress induced performance enhancement. <b>2015</b> , 107, 123105	21
1271	Hydrothermally reduced graphene oxide as a supercapacitor. <b>2015</b> , 357, 1911-1914	117
1270	Shape-controlled synthesis of MnCO <sub>3</sub> nanostructures and their applications in supercapacitors. <b>2015</b> , 5, 81981-81985	28
1269	Excellent electrochemical performance of graphene/polyaniline hollow microsphere composite as electrode material for supercapacitors. <b>2015</b> , 26, 8386-8393	11
1268	Capacitance enhancement by electrochemically active benzene derivatives for graphene-based supercapacitors. <b>2015</b> , 5, 84113-84118	7
1267	Fabrication of electrochemically reduced graphene oxide/cobalt oxide composite for charge storage electrodes. <b>2015</b> , 755, 151-157	13
1266	A novel approach to utilize thiol reduced graphene oxide as linker molecule for Cu <sub>2</sub> ZnSnS <sub>4</sub> sensitized solar cell. <b>2015</b> , 40, 15933-15939	9
1265	Chemical modification of graphene aerogels for electrochemical capacitor applications. <b>2015</b> , 17, 30946-62	67
1264	Flexible and solid-state asymmetric supercapacitor based on ternary graphene/MnO <sub>2</sub> /carbon black hybrid film with high power performance. <b>2015</b> , 182, 861-870	66

1263	Nanostructured Transition Metal Oxides Produced by Electrodeposition for Application as Redox Electrodes for Supercapacitors. <b>2015</b> , 1-27	3
1262	Preparation of chestnut-like porous NiO nanospheres as electrodes for supercapacitors. <b>2015</b> , 5, 96165-96169	33
1261	Synthesis of graphene-based polymeric nanocomposites. <b>2015</b> , 133-155	3
1260	Hierarchical CuCo <sub>2</sub> O <sub>4</sub> nanowire@NiCo <sub>2</sub> O <sub>4</sub> nanosheet core/shell arrays for high-performance supercapacitors. <b>2015</b> , 5, 69636-69641	43
1259	Controlled growth of large area multilayer graphene on copper by chemical vapour deposition. <b>2015</b> , 17, 23081-7	22
1258	Polyacrylamide-derived carbon materials: outstanding enhancement of supercapacitor capacitance simply by introducing redox additive of p-aminobenzenesulfonate into KOH electrolyte. <b>2015</b> , 5, 87571-87579	2
1257	Ultra-high power graphene based supercapacitor. <b>2015</b> ,	0
1256	Development of electrochemical supercapacitors with uniform nanoporous silver network. <b>2015</b> , 182, 224-229	32
1255	Zinc citrate-based nanoporous carbon materials: Large capacitive enhancement using redox active electrolyte of p-phenylenediamine. <b>2015</b> , 651, 414-422	12
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1251	Ultrasound assisted synthesis of ZnO/reduced graphene oxide composites with enhanced photocatalytic activity and anti-photocorrosion. <b>2015</b> , 356, 762-768	73
1250	High performance supercapacitor under extremely low environmental temperature. <b>2015</b> , 5, 71699-71703	24
1249	Functionalization of Defect Sites in Graphene with RuO <sub>2</sub> for High Capacitive Performance. <b>2015</b> , 7, 20513-9	31
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892	In situ preparation of graphene/polypyrrole nanocomposite via electrochemical co-deposition methodology for anti-corrosion application. <b>2017</b> , 52, 12251-12265	26
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889	Single-Step Synthesis of N-Doped Three-Dimensional Graphitic Foams for High-Performance Supercapacitors. <b>2017</b> , 5, 6950-6957	39
888	Hydrothermal synthesis of WO <sub>3</sub> nanoflowers on etched ITO and their electrochromic properties. <b>2017</b> , 246, 1112-1120	34
887	Hierarchical flower-like C/NiO composite hollow microspheres and its excellent supercapacitor performance. <b>2017</b> , 359, 371-378	127
886	3D graphene-Fe <sub>3</sub> O <sub>4</sub> -polyaniline, a novel ternary composite for supercapacitor electrodes with improved electrochemical properties. <b>2017</b> , 5, 164-172	57



885	High Specific Capacitance and Energy density of Synthesized Graphene Oxide based Hierarchical Al <sub>2</sub> S <sub>3</sub> Nanorambutan for Supercapacitor Applications. <b>2017</b> , 246, 1097-1103	43
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879	High-performance symmetric supercapacitors based on carbon nanosheets framework with graphene hydrogel architecture derived from cellulose acetate. <b>2017</b> , 337, 45-53	102
878	PbHgI <sub>4</sub> /HgI <sub>2</sub> nanocomposite: simple synthesis, characterization and electrochemical and optical properties. <b>2017</b> , 28, 2615-2623	5
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858	Graphene Applications in Batteries and Energy Devices. <b>2018</b> , 133-139	2
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856	Graphene Applications in Specialized Materials. <b>2018</b> , 151-154	
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852	Brief, General Overview of Applications. <b>2018</b> , 43-44	
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635	Synthesis of polythiophene/graphite composites and their enhanced electrochemical performance for aluminum ion batteries. <b>2019</b> , 43, 15014-15022		11
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