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## Graphene-based ultracapacitors

DOI: 10.1021/nl802558y

Nano Letters, 2008, 8, 3498-502.

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1728	Electrochemistry at chemically modified graphenes. <b>2011</b> , 17, 10763-70	272
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1714	High-quality few layer graphene produced by electrochemical intercalation and microwave-assisted expansion of graphite. <b>2011</b> , 49, 2809-2816	104
1713	Surface amorphization and deoxygenation of graphene oxide paper by Ti ion implantation. <b>2011</b> , 49, 3141-3147	47
1712	One-step synthesis of NH <sub>2</sub> -graphene from in situ graphene-oxide reduction and its improved electrochemical properties. <b>2011</b> , 49, 3250-3257	322
1711	Synthesis of electrochemically-reduced graphene oxide film with controllable size and thickness and its use in supercapacitor. <b>2011</b> , 49, 3488-3496	239
1710	Growth of large-sized graphene thin-films by liquid precursor-based chemical vapor deposition under atmospheric pressure. <b>2011</b> , 49, 3672-3678	135
1709	Mechanical properties of graphyne. <b>2011</b> , 49, 4111-4121	314
1708	Solution-based synthesis and characterization of a silver nanoparticle-graphene hybrid film. <b>2011</b> , 49, 4731-4738	116
1707	The preparation of high performance and conductive poly (vinyl alcohol)/graphene nanocomposite via reducing graphite oxide with sodium hydrosulfite. <b>2011</b> , 71, 1266-1270	94

1706	Effect of graphene nanosheet addition on the electrochemical performance of anode materials for lithium-ion batteries. <b>2011</b> , 688, 146-55	34
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1703	Electrochemical reduction of graphene oxide in organic solvents. <b>2011</b> , 56, 5363-5368	80
1702	Carbon nanosheets with catalyst-induced wrinkles formed by plasma-enhanced chemical-vapor deposition. <b>2011</b> , 49, 884-889	36
1701	Graphene oxide covalently functionalized with zinc phthalocyanine for broadband optical limiting. <b>2011</b> , 49, 1900-1905	231
1700	Graphene supercapacitor electrodes fabricated by inkjet printing and thermal reduction of graphene oxide. <b>2011</b> , 13, 355-358	330
1699	A flexible graphene/multiwalled carbon nanotube film as a high performance electrode material for supercapacitors. <b>2011</b> , 56, 5115-5121	230
1698	Sonoelectrochemical fabrication of Pd-graphene nanocomposite and its application in the determination of chlorophenols. <b>2011</b> , 56, 6008-6013	50
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1693	KOH modified graphene nanosheets for supercapacitor electrodes. <b>2011</b> , 196, 6003-6006	149
1692	Supercapacitors incorporating hollow cobalt sulfide hexagonal nanosheets. <b>2011</b> , 196, 7874-7877	131
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1690	Fabrication of TiN nanorods by electrospinning and their electrochemical properties. <b>2011</b> , 184, 1333-1338	41
1689	An in situ oxidation route to fabricate graphene nanoplate/graphite oxide composites. <b>2011</b> , 184, 1393-1399	22

1688	A voltammetric sensor based on graphene-modified electrode for simultaneous determination of catechol and hydroquinone. <b>2011</b> , 650, 209-213	192
1687	Performance of electrochemical double layer capacitors using highly porous activated carbons prepared from beer lees. <b>2011</b> , 17, 450-454	53
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1326	Percolation effects in supercapacitors with thin, transparent carbon nanotube electrodes. <b>2012</b> , 6, 1732-41	80
1325	Cyanobacterium metallothionein decorated graphene oxide nanosheets for highly selective adsorption of ultra-trace cadmium. <b>2012</b> , 22, 21909	130
1324	Mechanical and Thermal Properties of Epoxy Resin Nanocomposites Reinforced with Graphene Oxide. <b>2012</b> , 51, 251-256	116
1323	Formation Process of Pt Subnano-Clusters on Graphene Nanosheets. <b>2012</b> , 116, 22947-22953	41
1322	Bifunctional effect of reduced graphene oxides to support active metal nanoparticles for oxygen reduction reaction and stability. <b>2012</b> , 22, 21298	95
1321	Impedimetric immunoglobulin G immunosensor based on chemically modified graphenes. <b>2012</b> , 4, 921-5	50
1320	Adsorption Behaviors of Graphene and Graphene-related Materials. <b>2012</b> , 435-467	1
1319	Electrodeposited Pt on three-dimensional interconnected graphene as a free-standing electrode for fuel cell application. <b>2012</b> , 22, 5286	189
1318	A graphene/poly(vinyl alcohol) hybrid membrane self-assembled at the liquid/air interface: enhanced mechanical performance and promising saturable absorber. <b>2012</b> , 22, 17204	22
1317	Hemimicelles/admicelles supported on magnetic graphene sheets for enhanced magnetic solid-phase extraction. <b>2012</b> , 1257, 1-8	75
1316	Evaluating the electrochemical capacitance of surface-charged nanoparticle oxide coatings. <b>2012</b> , 28, 6476-84	34
1315	Gold-Nanoparticle Decorated Graphene-Nanostructured Polyaniline Nanocomposite-Based Bionzymatic Platform for Cholesterol Sensing. <b>2012</b> , 2012, 1-12	14
1314	Graphene/Semiconductor Nanocomposites: Preparation and Application for Photocatalytic Hydrogen Evolution. <b>2012</b> ,	4
1313	Electrochemically Reduced Graphene Oxide Sheets as High Performance Supercapacitors. <b>2012</b> ,	
1312	The Role of Nanotechnology in Automotive Industries. <b>2012</b> ,	12
1311	Highly ordered ultralong magnetic nanowires wrapped in stacked graphene layers. <b>2012</b> , 3, 846-51	8



1310	Electromagnetic properties of Fe <sub>3</sub> O <sub>4</sub> -functionalized graphene and its composites with a conducting polymer. <b>2012</b> , 50, 927-935	64
1309	Preparation and characterization of graphene composites with conducting polymers. <b>2012</b> , 61, 93-98	33
1308	Chemical approaches toward graphene-based nanomaterials and their applications in energy-related areas. <b>2012</b> , 8, 630-46	335
1307	Highly wrinkled cross-linked graphene oxide membranes for biological and charge-storage applications. <b>2012</b> , 8, 423-31	93
1306	Flexible pillared graphene-paper electrodes for high-performance electrochemical supercapacitors. <b>2012</b> , 8, 452-9	276
1305	Carbon nanomaterials for advanced energy conversion and storage. <b>2012</b> , 8, 1130-66	1149
1304	High-efficiency and room-temperature reduction of graphene oxide: a facile green approach towards flexible graphene films. <b>2012</b> , 8, 1180-4, 1124	35
1303	Facile synthesis of Au-nanoparticle/polyoxometalate/graphene tricomponent nanohybrids: an enzyme-free electrochemical biosensor for hydrogen peroxide. <b>2012</b> , 8, 1398-406	199
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1300	Needle-like polyaniline nanowires on graphite nanofibers: hierarchical micro/nano-architecture for high performance supercapacitors. <b>2012</b> , 22, 5114	158
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1294	High-performance asymmetric supercapacitor based on graphene hydrogel and nanostructured MnO <sub>2</sub> . <b>2012</b> , 4, 2801-10	612
1293	Laser scribing of high-performance and flexible graphene-based electrochemical capacitors. <b>2012</b> , 335, 1326-30	3197

1292	Graphenes prepared by Staudenmaier, Hofmann and Hummers methods with consequent thermal exfoliation exhibit very different electrochemical properties. <b>2012</b> , 4, 3515-22	303
1291	Reduced graphene oxide films fabricated by gel coating and their application as platinum-free counter electrodes of highly efficient iodide/triiodide dye-sensitized solar cells. <b>2012</b> , 22, 14465	64
1290	Graphene/organic nanocomposites. <b>2012</b> , 2, 64-98	507
1289	Hydrothermal Synthesis of Graphene-TiO <sub>2</sub> Nanotube Composites with Enhanced Photocatalytic Activity. <b>2012</b> , 2, 949-956	754
1288	Graphene Interfaced with Biological Cells: Opportunities and Challenges. <b>2012</b> , 3, 1024-9	96
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1286	Carboxyl-functionalized graphene oxide/polyaniline composite as a promising supercapacitor material. <b>2012</b> , 22, 13619	223
1285	Patterned Partially Hydrogenated Graphene (C <sub>4</sub> H) and Its One-Dimensional Analogues: A Computational Study. <b>2012</b> , 116, 4526-4534	37
1284	Single-layer MoS <sub>2</sub> phototransistors. <b>2012</b> , 6, 74-80	2704
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1282	Impedimetric thrombin aptasensor based on chemically modified graphenes. <b>2012</b> , 4, 143-7	65
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1280	Exceptional high Seebeck coefficient and gas-flow-induced voltage in multilayer graphene. <b>2012</b> , 100, 183108	55
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1278	. <b>2012</b> , 100, 1486-1517	649
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1275	Highly conductive graphene by low-temperature thermal reduction and in situ preparation of conductive polymer nanocomposites. <b>2012</b> , 4, 4968-71	58

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1269	Chemically reduced graphene contains inherent metallic impurities present in parent natural and synthetic graphite. <b>2012</b> , 109, 12899-904	173
1268	Electrodynamically sprayed thin films of aqueous dispersible graphene nanosheets: highly efficient cathodes for dye-sensitized solar cells. <b>2012</b> , 4, 3500-7	82
1267	Carbon nanostructure-derived polyaniline metacomposites: electrical, dielectric, and giant magnetoresistive properties. <b>2012</b> , 28, 10246-55	159
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1263	Block Copolymer Templating as a Path to Porous Nanostructured Carbons with Highly Accessible Nitrogens for Enhanced (Electro)chemical Performance. <b>2012</b> , 213, 1078-1090	66
1262	Poly(urethane-co-vinyl imidazole)/graphene nanocomposites. <b>2012</b> , 33, 459-466	7
1261	Mechanical, thermal, and rheological properties of graphene-based polypropylene nanocomposites prepared by melt mixing. <b>2012</b> , 33, 733-744	225
1260	Simultaneous Determination of Nitrophenol Isomers Based on Cyclodextrin Functionalized Reduced Graphene Oxide. <b>2012</b> , 24, 1178-1185	72
1259	Structural Characterization of Graphene Nanosheets for Miniaturization of Potentiometric Urea Lipid Film Based Biosensors. <b>2012</b> , 24, 1285-1295	44
1258	Functionalization of reduced graphene oxides by redox-active ionic liquids for energy storage. <b>2012</b> , ,	14
1257	Immobilization technology: a sustainable solution for biofuel cell design. <b>2012</b> , 5, 5540-5563	140

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1245	Structure-Based Enhanced Capacitance: In Situ Growth of Highly Ordered Polyaniline Nanorods on Reduced Graphene Oxide Patterns. <b>2012</b> , 22, 1284-1290	224
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1237	Templated nanocarbons for energy storage. <b>2012</b> , 24, 4473-98	588
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1233	Template-Directed Synthesis of Pillared-Porous Carbon Nanosheet Architectures: High-Performance Electrode Materials for Supercapacitors. <b>2012</b> , 2, 419-424	229
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1231	Die chemische Synthese von Nanographen, Graphen-Nanobildern und Graphen-Schichten. <b>2012</b> , 124, 7758-7773	130
1230	From nanographene and graphene nanoribbons to graphene sheets: chemical synthesis. <b>2012</b> , 51, 7640-54	614
1229	One-pot in situ ball milling preparation of polymer/graphene nanocomposites. <b>2012</b> , 125, 3899-3903	29
1228	Interfacial enhancement of maleated polypropylene/silica composites using graphene oxide. <b>2012</b> , 125, E348	30
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1211	Nanospace engineering of KOH activated carbon. <b>2012</b> , 23, 015401	236
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1209	Graphane/fluorographene bilayer: considerable C-H...F-C hydrogen bonding and effective band structure engineering. <b>2012</b> , 134, 11269-75	100
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1203	Modified graphene/polyaniline nanocomposites for supercapacitor application. <b>2012</b> , 20, 415-421	32

1202	Nanoscale interface control for high-performance Li-ion batteries. <b>2012</b> , 8, 91-105	44
1201	Controllable synthesis of titania/reduced graphite oxide nanocomposites with various titania phase compositions and their photocatalytic performance. <b>2012</b> , 55, 1294-1302	3
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1198	RETRACTED ARTICLE: Application of graphene as a sorbent for the preconcentration and determination of trace amounts of lead in water samples prior to flame atomic absorption spectrometry. <b>2012</b> , 177, 497-497	1
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1194	The synthesis of graphene sheets with controlled thickness and order using surfactant-assisted electrochemical processes. <b>2012</b> , 50, 142-152	179
1193	Epitaxial growth of large-area single-layer graphene over Cu(1 1 1)/sapphire by atmospheric pressure CVD. <b>2012</b> , 50, 57-65	218
1192	Polymer-stabilized graphene dispersions at high concentrations in organic solvents for composite production. <b>2012</b> , 50, 526-534	233
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1188	The effects of interlayer mismatch on electronic properties of bilayer armchair graphene nanoribbons. <b>2012</b> , 50, 1659-1666	9
1187	Amorphous structural models for graphene oxides. <b>2012</b> , 50, 1690-1698	93
1186	High-performance supercapacitor electrodes based on highly corrugated graphene sheets. <b>2012</b> , 50, 2179-2188	353
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1184	Synthesis of few-layer graphene over gold nanoclusters supported on MgO. <b>2012</b> , 50, 2252-2263	24
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1178	A low-cost counter electrode of ITO glass coated with a graphene/Nafion <sup>®</sup> composite film for use in dye-sensitized solar cells. <b>2012</b> , 50, 4192-4202	71
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1176	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
1175	Regenerated cellulose/graphene nanocomposite films prepared in DMAC/LiCl solution. <b>2012</b> , 88, 26-30	128
1174	Facile synthesis of three-dimensional chitosan-graphene mesostructures for reactive black 5 removal. <b>2012</b> , 88, 61-67	87
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1172	Preparation and characterization of tin oxide, SnO <sub>2</sub> nanoparticles decorated graphene. <b>2012</b> , 38, 4209-4216	38
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1169	Molecular level dispersion of graphene in polymer matrices using colloidal polymer and graphene. <b>2012</b> , 366, 44-50	43
1168	Superior dispersion of highly reduced graphene oxide in N,N-dimethylformamide. <b>2012</b> , 376, 91-6	66
1167	Enhanced electrocatalytic activity of nitrogen-doped graphene for the reduction of nitro explosives. <b>2012</b> , 16, 30-33	33



1166	Differentiation between graphene oxide and reduced graphene by electrochemical impedance spectroscopy (EIS). <b>2012</b> , 20, 63-66	135
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1163	Physical interpretation of cyclic voltammetry for measuring electric double layer capacitances. <b>2012</b> , 64, 130-139	101
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1161	Nanographene derived from carbon nanofiber and its application to electric double-layer capacitors. <b>2012</b> , 68, 146-152	21
1160	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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1156	Well-defined graphene/polyaniline flake composites for high performance supercapacitors. <b>2012</b> , 76, 62-68	69
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1154	Preparation and electrochemical activities of iridium-decorated graphene as the electrode for all-vanadium redox flow batteries. <b>2012</b> , 77, 232-236	81
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1149	High power density of graphene-based supercapacitors in ionic liquid electrolytes. <b>2012</b> , 68, 475-477	24

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1145	Enhancement of capacitance performance of flexible carbon nanofiber paper by adding graphene nanosheets. <b>2012</b> , 199, 373-378	140
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1143	Co <sub>3</sub> O <sub>4</sub> nanorods/graphene nanosheets nanocomposites for lithium ion batteries with improved reversible capacity and cycle stability. <b>2012</b> , 202, 230-235	147
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1141	Reduced graphene oxide/Bi <sub>2</sub> O <sub>3</sub> composite as high performance electrode materials for supercapacitors. <b>2012</b> , 203, 243-249	103
1140	Graphene based supercapacitor fabricated by vacuum filtration deposition. <b>2012</b> , 206, 476-482	101
1139	Electrochemical in situ polymerization of reduced graphene oxide/polypyrrole composite with high power density. <b>2012</b> , 208, 138-143	111
1138	Shape-alterable and -recoverable graphene/polyurethane bi-layered composite film for supercapacitor electrode. <b>2012</b> , 213, 350-357	37
1137	Supercapacitors based on low-temperature partially exfoliated and reduced graphite oxide. <b>2012</b> , 212, 105-110	58
1136	Controlled synthesis of MnSn(OH) <sub>6</sub> /graphene nanocomposites and their electrochemical properties as capacitive materials. <b>2012</b> , 185, 172-179	14
1135	Influence of pH condition on colloidal suspension of exfoliated graphene oxide by electrostatic repulsion. <b>2012</b> , 186, 99-103	8
1134	Controllable synthesis of a novel hedgehog-like core/shell structure. <b>2012</b> , 186, 235-239	4
1133	Energetic graphene oxide: Challenges and opportunities. <b>2012</b> , 7, 137-152	235
1132	Facile synthesis of polyaniline/TiO <sub>2</sub> /graphene oxide composite for high performance supercapacitors. <b>2012</b> , 14, 677-681	87
1131	Preparation of few-layer and single-layer graphene by exfoliation of expandable graphite in supercritical N,N-dimethylformamide. <b>2012</b> , 63, 99-104	82

1130	Electronic transport for pristine and doped crossed graphene nanoribbon junctions with zigzag interfaces. <b>2012</b> , 376, 1710-1713	3
1129	Chemical functionalization of graphene and its applications. <b>2012</b> , 57, 1061-1105	1351
1128	The use of rhodamine B-decorated graphene as a reinforcement in polyvinyl alcohol composites. <b>2012</b> , 53, 673-680	69
1127	Nickel nanoparticles prepared by hydrazine hydrate reduction and their application in supercapacitor. <b>2012</b> , 224, 162-167	83
1126	Coating single walled carbon nanotube with SnO <sub>2</sub> and its electrochemical properties. <b>2012</b> , 224, 306-310	38
1125	Direct electrochemistry of hemoglobin based on chitosan/ionic liquid/ferrocene/graphene composite film. <b>2012</b> , 47, 1171-1177	26
1124	Graphene/DNA hybrid materials: Assembly, applications, and prospects. <b>2012</b> , 37, 515-529	123
1123	Layer-by-layer assembled multilayer films of reduced graphene oxide/gold nanoparticles for the electrochemical detection of dopamine. <b>2012</b> , 672, 40-44	120
1122	Graphene oxide adsorption enhanced by in situ reduction with sodium hydrosulfite to remove acridine orange from aqueous solution. <b>2012</b> , 203-204, 101-10	146
1121	Comparative studies on single-layer reduced graphene oxide films obtained by electrochemical reduction and hydrazine vapor reduction. <b>2012</b> , 7, 161	66
1120	Photocatalytic synthesis of pure and water-dispersible graphene monosheets. <b>2012</b> , 18, 2762-7	27
1119	Facile Synthesis of Porous Mn <sub>3</sub> O <sub>4</sub> Nanocrystal/Graphene Nanocomposites for Electrochemical Supercapacitors. <b>2012</b> , 2012, 628-635	107
1118	Carbon nanocages as supercapacitor electrode materials. <b>2012</b> , 24, 347-52	441
1117	In Situ Generation of Few-Layer Graphene Coatings on SnO <sub>2</sub> -SiC Core-Shell Nanoparticles for High-Performance Lithium-Ion Storage. <b>2012</b> , 2, 95-102	216
1116	Synthesis of polypyrrole-reduced graphene oxide composites by in-situ photopolymerization and its application as a supercapacitor electrode. <b>2012</b> , 29, 125-129	20
1115	Fabrication of a low defect density graphene-nickel hydroxide nanosheet hybrid with enhanced electrochemical performance. <b>2012</b> , 5, 11-19	84
1114	Is graphene aromatic?. <b>2012</b> , 5, 117-123	87
1113	A facile synthesis of graphene/metal (Pb, Zn, Cd, Mn) sulfide composites. <b>2012</b> , 47, 1026-1032	15

1112	Extraction of neurotransmitters from rat brain using graphene as a solid-phase sorbent, and their fluorescent detection by HPLC. <b>2012</b> , 176, 327-335	48
1111	A high-capacity graphene nanosheet material with capacitive characteristics for the anode of lithium-ion batteries. <b>2012</b> , 16, 557-561	13
1110	Role of Oxygen Functional Groups in Carbon Nanotube/Graphene Freestanding Electrodes for High Performance Lithium Batteries. <b>2013</b> , 23, 1037-1045	264
1109	Lubrication of poly(vinyl alcohol) chain orientation by carbon nano-chips in composite tapes. <b>2013</b> , 127, 2977-2982	32
1108	Preparation and characterization of melt-blended graphene nanosheets/poly(vinylidene fluoride) nanocomposites with enhanced properties. <b>2013</b> , 127, 4697-4707	50
1107	Reduced graphene oxide-linked stacked polymer forests for high energy-density supercapacitor. <b>2013</b> , 2, 628-635	33
1106	Effect of hydroiodic acid-reduction of graphene oxide on electrical properties of polybenzimidazobenzophenanthroline/graphene oxide nanocomposites. <b>2013</b> , 21, 1254-1262	4
1105	Highly reversible and ultra-fast lithium storage in mesoporous graphene-based TiO <sub>2</sub> /SnO <sub>2</sub> hybrid nanosheets. <b>2013</b> , 6, 2447	153
1104	Preparation and characterization of polypyrrole/graphene nanocomposite films and their electrochemical performance. <b>2013</b> , 20, 1	54
1103	Graphene oxide nanoribbons (GNO), reduced graphene nanoribbons (GNR), and multi-layers of oxidized graphene functionalized with ionic liquids (GO-IL) for assembly of miniaturized electrochemical devices. <b>2013</b> , 405, 3449-74	35
1102	Graphene reinforced alumina nano-composites. <b>2013</b> , 64, 359-369	221
1101	Greatly enhanced mechanical properties and heat distortion resistance of poly(L-lactic acid) upon compositing with functionalized reduced graphene oxide. <b>2013</b> , 1, 9028	32
1100	Macroporous graphene oxide-polymer composite prepared through pickering high internal phase emulsions. <b>2013</b> , 5, 7974-82	148
1099	Synthesis of reduced graphene oxide by an ionothermal method and electrochemical performance. <b>2013</b> , 3, 11807	24
1098	High-performance supercapacitors based on silver nanoparticle/polyaniline/graphene nanocomposites coated on flexible carbon fiber paper. <b>2013</b> , 1, 9630	177
1097	A single-stage functionalization and exfoliation method for the production of graphene in water: stepwise construction of 2D-nanostructured composites with iron oxide nanoparticles. <b>2013</b> , 5, 9073-80	14
1096	Improved potentiometric response of solid-contact lanthanum (III) selective electrode. <b>2013</b> , 779, 35-40	16
1095	Multifunctional nitrogen-rich Brick-and-mortar/Carbon as high performance supercapacitor electrodes and oxygen reduction electrocatalysts. <b>2013</b> , 1, 11061	32

1094	Hierarchical composites of polyaniline-graphene nanoribbons-carbon nanotubes as electrode materials in all-solid-state supercapacitors. <b>2013</b> , 5, 7312-20	161
1093	Pickering emulsion polymerization of graphene oxide-stabilized styrene. <b>2013</b> , 291, 1631-1639	51
1092	Mechanically flexible and multifunctional polymer-based graphene foams for elastic conductors and oil-water separators. <b>2013</b> , 25, 5658-62	307
1091	Surface and mechanical properties of graphene/clay/polyimide composites and thin films. <b>2013</b> , 63, 9-22	20
1090	Combustion synthesis of graphene materials. <b>2013</b> , 62, 302-311	30
1089	Charge transfer between reduced graphene oxide sheets on insulating substrates. <b>2013</b> , 103, 053107	9
1088	Boron-doped graphene and boron-doped diamond electrodes: detection of biomarkers and resistance to fouling. <b>2013</b> , 138, 4885-91	53
1087	Magnetic graphene oxides as highly effective adsorbents for rapid removal of a cationic dye rhodamine B from aqueous solutions. <b>2013</b> , 3, 7254	35
1086	Small Particles of Chemically-Reduced Graphene with Improved Electrochemical Capacity. <b>2013</b> , 117, 15496-15504	13
1085	In Situ Synthesis and Characterization of CuFe <sub>10</sub> Al <sub>2</sub> O <sub>19</sub> /MWCNT Nanocomposites for Supercapacitor and Microwave-Absorbing Applications. <b>2013</b> , 52, 9594-9606	54
1084	Graphene Coupled with Nanocrystals: Opportunities and Challenges for Energy and Sensing Applications. <b>2013</b> , 4, 2441-2454	72
1083	Nanoscale Dielectric Capacitors Composed of Graphene and Boron Nitride Layers: A First-Principles Study of High Capacitance at Nanoscale. <b>2013</b> , 117, 15327-15334	38
1082	Electrolytic graphene oxide and its electrochemical properties. <b>2013</b> , 704, 233-241	26
1081	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
1080	Synthesis of a graphene/tungsten composite with improved dispersibility of graphene in an ethanol solution and its use as a counter electrode for dye-sensitised solar cells. <b>2013</b> , 230, 207-217	48
1079	Applications of Nanomaterials in Sensors and Diagnostics. <b>2013</b> ,	24
1078	The conductive network made up by the reduced graphene nanosheet/polyaniline/polyvinyl chloride. <b>2013</b> , 128, 3870-3875	30
1077	Activated graphene-based carbons as supercapacitor electrodes with macro- and mesopores. <b>2013</b> , 7, 6899-905	702

1076	Preparation, characterization, and rheological properties of graphene-glycerol nanofluids. <b>2013</b> , 231, 365-372	107
1075	Ultra-fast synthesis of graphene by melt spinning. <b>2013</b> , 61, 299-304	2
1074	Highly sensitive reduced graphene oxide impedance sensor harnessing $\pi$ -stacking interaction mediated direct deposition of protein probes. <b>2013</b> , 5, 3591-8	35
1073	Self-assembled foam-like graphene networks formed through nucleate boiling. <b>2013</b> , 3, 1396	65
1072	Controllable pore size of three dimensional self-assembled foam-like graphene and its wettability. <b>2013</b> , 64, 27-34	25
1071	Direct production of highly conductive graphene with a low oxygen content by a microwave-assisted solvothermal method. <b>2013</b> , 232, 346-355	38
1070	Interfacial properties of bilayer and trilayer graphene on metal substrates. <b>2013</b> , 3, 2081	77
1069	Flexible Supercapacitors [Development of Bendable Carbon Architectures. <b>2013</b> , 101-141	4
1068	Reduction of graphene oxide through a green and metal-free approach using formic acid. <b>2013</b> , 37, 74-79	39
1067	L-Lactic acid biosensor based on multi-layered graphene. <b>2013</b> , 43, 985-994	11
1066	Hydrothermal and soft-templating synthesis of mesoporous NiCo <sub>2</sub> O <sub>4</sub> nanomaterials for high-performance electrochemical capacitors. <b>2013</b> , 43, 903-910	32
1065	Electric heating films based on m-aramid nanocomposites containing hybrid fillers of graphene and carbon nanotube. <b>2013</b> , 48, 4041-4049	15
1064	Graphene-encapsulated mesoporous SnO <sub>2</sub> composites as high performance anodes for lithium-ion batteries. <b>2013</b> , 48, 3870-3876	52
1063	Structure control of ultra-large graphene oxide sheets by the Langmuir-Blodgett method. <b>2013</b> , 3, 4680	31
1062	Large scale synthesized sulphonated reduced graphene oxide: a high performance material for electrochemical capacitors. <b>2013</b> , 3, 14954	15
1061	Rational design of a high performance all solid state flexible micro-supercapacitor on paper. <b>2013</b> , 3, 15827	40
1060	Electrocatalytic oxidation and the simultaneous determination of guanine and adenine on (2,6-pyridinedicarboxylic acid)/graphene composite film modified electrode. <b>2013</b> , 704, 44-49	32
1059	Synthesis of Fe <sub>3</sub> O <sub>4</sub> /graphene/TiO <sub>2</sub> composites for the highly selective enrichment of phosphopeptides from biological samples. <b>2013</b> , 5, 7330-4	68

1058	Thiol functionalized reduced graphene oxide as a base material for novel graphene-nanoparticle hybrid composites. <b>2013</b> , 231, 146-154	69
1057	Graphene/poly(ortho-phenylenediamine) nanocomposite material for electrochemical supercapacitor. <b>2013</b> , 17, 2203-2212	37
1056	Nanocarbons for Supercapacitors. <b>2013</b> , 393-421	4
1055	Synthesis and photocatalytic property of Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> core/shell nanoparticles supported by reduced graphene oxide sheets. <b>2013</b> , 578, 501-506	57
1054	Efficient reduction of graphene oxide using Tin-powder and its electrochemical performances for use as an energy storage electrode material. <b>2013</b> , 1, 11320	15
1053	Graphene/vanadium oxide nanotubes composite as electrode material for electrochemical capacitors. <b>2013</b> , 421, 77-82	22
1052	Graphene bridged enzyme electrodes for glucose biosensing application. <b>2013</b> , 138, 2567-75	34
1051	Graphene as a new sorbent in analytical chemistry. <b>2013</b> , 51, 33-43	300
1050	Nickel chelating functionalization of graphene composite for metal affinity membrane isolation of lysozyme. <b>2013</b> , 1, 810-818	39
1049	Functionalized graphene hydrogel-based high-performance supercapacitors. <b>2013</b> , 25, 5779-84	520
1048	Combustion synthesis of graphene and ultracapacitor performance. <b>2013</b> , 36, 667-672	6
1047	ATNRC/SET-NRC synthesis of graphene/polyisobutylene nanocomposites. <b>2013</b> , 51, 4505-4514	13
1046	Flexible supercapacitor based on MnO <sub>2</sub> nanoparticles via electrospinning. <b>2013</b> , 1, 10103	85
1045	Facile fabrication of mesoporous manganese oxides as advanced electrode materials for supercapacitors. <b>2013</b> , 17, 2579-2588	11
1044	In situ synthesis and thermoelectric properties of PbTe/graphene nanocomposites by utilizing a facile and novel wet chemical method. <b>2013</b> , 1, 12503	101
1043	Synthesis of micro- and mesoporous carbon spheres for supercapacitor electrode. <b>2013</b> , 17, 2293-2301	86
1042	Facile one-step hydrothermal synthesis of reduced graphene oxide/Co <sub>3</sub> O <sub>4</sub> composites for supercapacitors. <b>2013</b> , 48, 8463-8470	56
1041	Activated carbon/graphene composites with high-rate performance as electrode materials for electrochemical capacitors. <b>2013</b> , 17, 2949-2958	30

1040	Electrochemical-reduction-assisted assembly of a polyoxometalate/graphene nanocomposite and its enhanced lithium-storage performance. <b>2013</b> , 19, 10895-902	79
1039	Fabrication of vertically aligned graphene sheets on SiC substrates. <b>2013</b> , 3, 13926	18
1038	Graphene and Nanostructured Mn <sub>3</sub> O <sub>4</sub> Composites for Supercapacitors. <b>2013</b> , 144, 118-126	19
1037	First principles study on the hydrophilic and conductive graphene doped with Al atoms. <b>2013</b> , 15, 10859-65	38
1036	The use of silica-coated magnetic graphene microspheres as the adsorbent for the extraction of pyrethroid pesticides from orange and lettuce samples followed by GC-MS analysis. <b>2013</b> , 36, 3242-8	43
1035	Asymmetric electrochemical capacitors with high energy and power density based on graphene/CoAl-LDH and activated carbon electrodes. <b>2013</b> , 3, 2483	100
1034	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
1033	Hybrid graphene electrodes for supercapacitors of high energy density. <b>2013</b> , 584, 124-129	40
1032	Nonaqueous lithium-ion capacitors with high energy densities using trigol-reduced graphene oxide nanosheets as cathode-active material. <b>2013</b> , 6, 2240-4	87
1031	Silver nanoparticle decorated reduced graphene oxide (rGO) nanosheet: a platform for SERS based low-level detection of uranyl ion. <b>2013</b> , 5, 8724-32	222
1030	Arsenic removal from contaminated water using three-dimensional graphene-carbon nanotube-iron oxide nanostructures. <b>2013</b> , 47, 10510-7	65
1029	Electrochemical biosensors on platforms of graphene. <b>2013</b> , 49, 9526-39	134
1028	New counter electrode of hot filament chemical vapor deposited graphene thin film for dye sensitized solar cell. <b>2013</b> , 222, 464-471	35
1027	In situ one-step synthesis of a 3D nanostructured germanium-graphene composite and its application in lithium-ion batteries. <b>2013</b> , 1, 10798	62
1026	From graphite to graphene: direct liquid-phase exfoliation of graphite to produce single- and few-layered pristine graphene. <b>2013</b> , 1, 10592	222
1025	Surface Functionalization of Graphene. <b>2013</b> , 233-253	2
1024	Chemically modified polyaniline nanocomposites by poly(2-acrylamido-2-methyl-1-propanesulfonic acid)/graphene nanoplatelet. <b>2013</b> , 291, 2755-2763	9
1023	Multistimuli-responsive hydrogels of poly(2-acrylamido-2-methyl-1-propanesulfonic acid) containing graphene. <b>2013</b> , 291, 2681-2687	11



1022	Highly sensitive and selective amperometric sensor for iodate based on 9,10-phenanthrenequinone derived graphene. <b>2013</b> , 29, 132-138	3
1021	Hierarchically structured graphene-based supercapacitor electrodes. <b>2013</b> , 3, 21183	51
1020	Benzoin derived reduced graphene oxide (rGO) and its nanocomposite: application in dye removal and peroxidase-like activity. <b>2013</b> , 3, 21475	30
1019	Graphene modified carbon nanosheets for electrochemical detection of Pb(II) in water. <b>2013</b> , 1, 13139	52
1018	Suppression of energy dissipation and enhancement of breakdown strength in ferroelectric polymer/graphene percolative composites. <b>2013</b> , 1, 7034	71
1017	A facile and fast synthesis of novel composite Pt/graphene/TiO <sub>2</sub> with enhanced photocatalytic activity under UV/Visible light. <b>2013</b> , 231, 76-83	47
1016	Decorating reduced graphene oxide with Co <sub>3</sub> O <sub>4</sub> hollow spheres and their application in supercapacitor materials. <b>2013</b> , 13, 1796-1800	51
1015	A novel impedimetric biosensor based on graphene oxide/gold nanoplatfrom for detection of DNA arrays. <b>2013</b> , 188, 1201-1211	112
1014	The Preparation of Hierarchical Flowerlike NiO/Reduced Graphene Oxide Composites for High Performance Supercapacitor Applications. <b>2013</b> , 27, 6304-6310	90
1013	Superior Micro-Supercapacitors Based on Graphene Quantum Dots. <b>2013</b> , 23, 4111-4122	490
1012	Restacking-inhibited 3D reduced graphene oxide for high performance supercapacitor electrodes. <b>2013</b> , 7, 9366-74	343
1011	Fabrication of an Electrochemical L-Cysteine Sensor Based on Graphene Nanosheets Decorated Manganese Oxide Nanocomposite Modified Glassy Carbon Electrode. <b>2013</b> , 25, 2201-2210	32
1010	Graphene for energy solutions and its industrialization. <b>2013</b> , 5, 10108-26	71
1009	Large-scale and low cost synthesis of graphene as high capacity anode materials for lithium-ion batteries. <b>2013</b> , 64, 158-169	33
1008	Electrochemical reduction of ultrathin graphene oxide/polyaniline films for supercapacitor electrodes with a high specific capacitance. <b>2013</b> , 436, 967-974	40
1007	A Technique To Pretreat Graphite Which Allows the Rapid Dispersion of Defect-Free Graphene in Solvents at High Concentration. <b>2013</b> , 117, 19212-19218	46
1006	Electrochemical performance of graphene and copper oxide composites synthesized from a metal-organic framework (Cu-MOF). <b>2013</b> , 3, 19051	39
1005	Composite organogels of graphene and activated carbon for electrochemical capacitors. <b>2013</b> , 1, 9196	58

1004	Interface transport properties in ion-gated nano-sheets. <b>2013</b> , 222, 1185-1201	9
1003	An investigation of spinel NiCo <sub>2</sub> O <sub>4</sub> as anode for Na-ion capacitors. <b>2013</b> , 114, 726-735	123
1002	High peroxidase catalytic activity of exfoliated few-layer graphene. <b>2013</b> , 62, 51-60	40
1001	Effect of graphene nanoplatelets (GNPs) addition on strength and ductility of magnesium-titanium alloys. <b>2013</b> , 1, 242-248	114
1000	Nanostructured materials for supercapacitors. <b>2013</b> , 31, 050803	34
999	The NH <sub>3</sub> sensing properties of gas sensors based on aniline reduced graphene oxide. <b>2013</b> , 185-186, 25-30	49
998	Synergistic effect of Fe <sub>3</sub> O <sub>4</sub> /reduced graphene oxide nanocomposites for supercapacitors with good cycling life. <b>2013</b> , 114, 674-680	115
997	Dynamic electrosorption analysis as an effective means to characterise the structure of bulk graphene assemblies. <b>2013</b> , 19, 3082-9	16
996	Assembling fabrication and capacitance of manganese oxide nanosheets and functionalized carbon nanotubes hybrid material. <b>2013</b> , 429, 91-97	13
995	A novel glucose biosensor platform based on Ag@AuNPs modified graphene oxide nanocomposite and SERS application. <b>2013</b> , 406, 231-7	106
994	Electrochemical Determination of 4-Nonylphenol on Graphene-Chitosan Modified Glassy Carbon Electrode. <b>2013</b> , 41, 675-680	16
993	Large-scale production of high-quality reduced graphene oxide. <b>2013</b> , 233, 297-304	44
992	Simple synthesis of hierarchically structured partially graphitized carbon by emulsion/block-copolymer co-template method for high power supercapacitors. <b>2013</b> , 64, 391-402	81
991	Preparation and retention mechanism study of graphene and graphene oxide bonded silica microspheres as stationary phases for high performance liquid chromatography. <b>2013</b> , 1307, 135-43	63
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986	Selective photoredox using graphene-based composite photocatalysts. <b>2013</b> , 15, 19102-18	273
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984	Tween 80 Modified Graphene with Improved Processability for the Fabrication of Supercapacitors. <b>2013</b> , 28, 1253-1259	9
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982	A carbon quantum dot decorated RuO <sub>2</sub> network: outstanding supercapacitances under ultrafast charge and discharge. <b>2013</b> , 6, 3665	247
981	Biological uptake and depuration of radio-labeled graphene by <i>Daphnia magna</i> . <b>2013</b> , 47, 12524-31	106
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979	Interlayer catalytic exfoliation realizing scalable production of large-size pristine few-layer graphene. <b>2013</b> , 3, 1134	67
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977	Microwave assisted synthesis of MnO <sub>2</sub> on nickel foam-graphene for electrochemical capacitor. <b>2013</b> , 114, 48-53	44
976	Facile synthesis of mesoporous MnO <sub>2</sub> microspheres for high performance AC//MnO <sub>2</sub> aqueous hybrid supercapacitors. <b>2013</b> , 108, 497-505	71
975	Fabrication and performance evaluation of button cell supercapacitors based on MnO <sub>2</sub> nanowire/carbon nanobead electrodes. <b>2013</b> , 3, 17492	32
974	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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972	Covalently functionalized single-walled carbon nanotubes and graphene composite electrodes for pseudocapacitor application. <b>2013</b> ,	
971	Basic Principles for Observing the Photosensitizer Role of Graphene in the Graphene//Semiconductor Composite Photocatalyst from a Case Study on Graphene//ZnO. <b>2013</b> , 117, 21724-21734	128
970	Partially Reduced Graphene Oxide Paper: A Thin Film Electrode for Electrochemical Capacitors. <b>2013</b> , 160, A747-A750	14
969	Carbon materials from high ash biochar for supercapacitor and improvement of capacitance with HNO <sub>3</sub> surface oxidation. <b>2013</b> , 236, 285-292	131

968	Structurally tailored graphene nanosheets as lithium ion battery anodes: an insight to yield exceptionally high lithium storage performance. <b>2013</b> , 5, 12607-15	96
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965	Electro-reduced graphene oxide film modified glassy carbon electrode as an electrochemical sensor for sibutramine. <b>2013</b> , 5, 7090	9
964	Flexible polyester cellulose paper supercapacitor with a gel electrolyte. <b>2013</b> , 14, 3822-6	32
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962	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
961	Pseudocapacitance of Amorphous TiO <sub>2</sub> Thin Films Anchored to Graphene and Carbon Nanotubes Using Atomic Layer Deposition. <b>2013</b> , 117, 22497-22508	95
960	Supercapacitor electrode based on mixtures of graphene/graphite and carbon nanotubes fabricated using a new dynamic air-brush deposition technique. <b>2013</b> ,	1
959	An insight into the hybridization mechanism of hairpin DNA physically immobilized on chemically modified graphenes. <b>2013</b> , 138, 467-71	10
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957	Carbon nanosheet frameworks derived from peat moss as high performance sodium ion battery anodes. <b>2013</b> , 7, 11004-15	705
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953	Catalysis-material crosstalk at tailored nano-carbon interfaces. <b>2014</b> , 348, 139-80	8
952	Noncovalent nanohybrid of cobalt tetraphenylporphyrin with graphene for simultaneous detection of ascorbic acid, dopamine, and uric acid. <b>2013</b> , 114, 341-346	44
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