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Flexible graphene films via the filtration of water-soluble noncovalent functionalized graphene sheets

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2294	Two-Dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene/GO Hybrid Membranes for Highly Efficient Osmotic Power Generation.		
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2292	Nile Blue Functionalized Graphene Aerogel as a Pseudocapacitive Negative Electrode Material across the Full pH Range.		
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2289	Robust Bioinspired Graphene Film via Cross-linking.		
2288	High Interfacial Charge Storage Capability of Carbonaceous Cathodes for Mg Batteries.		
2287	Enhanced Thermal Conductivity of Bioinspired Nanofibrillated Cellulose Hybrid Films Based on Graphene Sheets and Nanodiamonds.		
2286	Transparent graphene/PEDOT/PSS composite films as counter electrodes of dye-sensitized solar cells. <b>2008</b> , 10, 1555-1558		736
2285	Graphene oxide dispersions in organic solvents. <i>Langmuir</i> , <b>2008</b> , 24, 10560-4	4	2195
2284	Solutions of negatively charged graphene sheets and ribbons. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 15802-4	16.4	410
2283	Aqueous Suspension and Characterization of Chemically Modified Graphene Sheets. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 6592-6594	9.6	838
2282	Molecular design of stable graphene nanosheets dispersions. <b>2008</b> , 8, 4630-41		95
2281	Aqueous dispersions of TCNQ-anion-stabilized graphene sheets. <b>2008</b> , 6576-8		253
2280	Graphene/Metal Particle Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 19841-19845	3.8	1368
2279	Materials science. Graphene-based materials. <b>2008</b> , 320, 1170-1		1257
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2275	Fabrication of Graphene Polymer Nanocomposites With Higher-Order Three-Dimensional Architectures. <b>2009</b> , 21, 2180-2184	539
2274	Aqueous Stabilization and Self-Assembly of Graphene Sheets into Layered Bio-Nanocomposites using DNA. <b>2009</b> , 21, 3159-3164	425
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2271	Zweidimensionale Polymere: nur ein Traum von Synthetikern?. <b>2009</b> , 121, 1048-1089	106
2270	Application of graphene and graphene-based materials in clean energy-related devices. <b>2009</b> , 33, 1161-1170	108
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2263	Synthesis of amphiphilic graphene nanoplatelets. <b>2009</b> , 5, 82-5	325
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2261	Polyaniline electrochromic devices with transparent graphene electrodes. <b>2009</b> , 55, 491-497	211
2260	Capacitive behavior of graphene/ZnO composite film for supercapacitors. <b>2009</b> , 634, 68-71	284

2259	Glucose oxidase-graphene-chitosan modified electrode for direct electrochemistry and glucose sensing. <b>2009</b> , 25, 901-5		1026
2258	Synthesis of high-quality graphene with a pre-determined number of layers. <b>2009</b> , 47, 493-499		584
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2256	Cationic surfactant mediated exfoliation of graphite into graphene flakes. <b>2009</b> , 47, 3288-3294		259
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2247	Non-covalent functionalization of graphene sheets by sulfonated polyaniline. <b>2009</b> , 1667-9		517
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2244	Electron field emission from screen-printed graphene films. <b>2009</b> , 20, 425702		125
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2237	Synthesis and Characterization of Titania/Graphene Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 19812-19823	3.8	351
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2233	Electrosorption behavior of graphene in NaCl solutions. <b>2009</b> , 19, 6773		304
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2213	Stable dispersions of reduced graphene oxide in ionic liquids. <b>2010</b> , 20, 5401		103
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2210	Graphene-based materials in electrochemistry. <b>2010</b> , 39, 3157-80		1200
2209	The chemistry of graphene oxide. <b>2010</b> , 39, 228-40		8747
2208	The chemistry of graphene. <b>2010</b> , 20, 2277		1222
2207	Platinum nanoparticle ensemble-on-graphene hybrid nanosheet: one-pot, rapid synthesis, and used as new electrode material for electrochemical sensing. <b>2010</b> , 4, 3959-68		660
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2205	Reduced graphene oxide and porphyrin. An interactive affair in 2-D. <b>2010</b> , 4, 6697-706	177
2204	Fabrication of free-standing, electrochemically active, and biocompatible graphene oxide-polyaniline and graphene-polyaniline hybrid papers. <b>2010</b> , 2, 2521-9	429
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2202	Simple photoreduction of graphene oxide nanosheet under mild conditions. <b>2010</b> , 2, 3461-6	190
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2200	A novel electrochemiluminescence sensor based on bis(2,2'-bipyridine)-5-amino-1,10-phenanthroline ruthenium(II) covalently combined with graphite oxide. <b>2010</b> , 26, 872-6	26
2199	Highly sensitive electrocatalytic biosensing of hypoxanthine based on functionalization of graphene sheets with water-soluble conducting graft copolymer. <b>2010</b> , 26, 371-6	96
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2180	Characterization, direct electrochemistry, and amperometric biosensing of graphene by noncovalent functionalization with picket-fence porphyrin. <b>2010</b> , 16, 10771-7		101
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2160	Graphene oxide sheet-prussian blue nanocomposites: green synthesis and their extraordinary electrochemical properties. <b>2010</b> , 81, 508-12	60
2159	Comparison of the thermal properties between composites reinforced by raw and amino-functionalized carbon materials. <b>2010</b> , 70, 2176-2182	75
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2157	Porphyrin counter anion in imidazolium-modified graphene-oxide. <b>2010</b> , 48, 854-860	91
2156	Catalytic performance of Pt nanoparticles on reduced graphene oxide for methanol electro-oxidation. <b>2010</b> , 48, 1124-1130	823
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2154	Super-hydrophobic surface of bulk carbon nanotubes compacted by spark plasma sintering followed by modification with polytetrafluorethylene. <b>2010</b> , 48, 2668-2671	13
2153	Investigation of optical modulated conductance effects based on a graphene oxide-azobenzene hybrid. <b>2010</b> , 48, 3236-3241	106
2152	Preparation of organically dispersible graphene nanosheet powders through a lyophilization method and their poly(lactic acid) composites. <b>2010</b> , 48, 3834-3839	249

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2133	Self-Assembled Graphene/Carbon Nanotube Hybrid Films for Supercapacitors. <b>2010</b> , 1, 467-470		999
2132	Self-assembled graphene hydrogel via a one-step hydrothermal process. <b>2010</b> , 4, 4324-30		2678
2131	Ternary self-assembly of ordered metal oxide-graphene nanocomposites for electrochemical energy storage. <b>2010</b> , 4, 1587-95		731
2130	Cyclodextrin functionalized graphene nanosheets with high supramolecular recognition capability: synthesis and host-guest inclusion for enhanced electrochemical performance. <b>2010</b> , 4, 4001-10		543
2129	Electrochemical Deposition of Polypyrrole/Sulfonated Graphene Composite Films. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 22783-22789	3.8	213
2128	Stable Aqueous Dispersion of Graphene Nanosheets: Noncovalent Functionalization by a Polymeric Reducing Agent and Their Subsequent Decoration with Ag Nanoparticles for Enzymeless Hydrogen Peroxide Detection. <b>2010</b> , 43, 10078-10083		345
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2125	Three-dimensional self-assembly of graphene oxide and DNA into multifunctional hydrogels. <b>2010</b> , 4, 7358-62		711
2124	Simultaneous determination of adenine and guanine in DNA based on carboxylic acid functionalized graphene. <b>2010</b> ,		7
2123	Use of butylamine modified graphene sheets in polymer solar cells. <b>2010</b> , 20, 995-1000		92
2122	Polypropylene/Graphene Oxide Nanocomposites Prepared by In Situ Ziegler-Natta Polymerization. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 4096-4102	9.6	245
2121	Flexible, Magnetic, and Electrically Conductive Graphene/Fe <sub>3</sub> O <sub>4</sub> Paper and Its Application for Magnetic-Controlled Switches. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 17465-17471	3.8	162
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2114	One-pot solvothermal syntheses and magnetic properties of graphene-based magnetic nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 506, 136-140	5.7	111
2113	Layered nanostructures of polyaniline with graphene oxide as the dopant and template. <b>2010</b> , 160, 1617-1622		64
2112	Covalent functionalization of graphene oxide with polyglycerol and their use as templates for anchoring magnetic nanoparticles. <b>2010</b> , 160, 2028-2036		101
2111	General Approach to Individually Dispersed, Highly Soluble, and Conductive Graphene Nanosheets Functionalized by Nitrene Chemistry. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 5054-5064	9.6	394
2110	Unconventional layer-by-layer assembly of graphene multilayer films for enzyme-based glucose and maltose biosensing. <i>Langmuir</i> , <b>2010</b> , 26, 15022-6	4	164
2109	Gold nanoparticles/L-cysteine/graphene composite based immobilization strategy for an electrochemical immunosensor. <b>2010</b> , 2, 1692		30
2108	A pH-sensitive graphene oxide composite hydrogel. <b>2010</b> , 46, 2376-8		552
2107	A one-step, solvothermal reduction method for producing reduced graphene oxide dispersions in organic solvents. <b>2010</b> , 4, 3845-52		509
2106	Solution chemistry of self-assembled graphene nanohybrids for high-performance flexible biosensors. <b>2010</b> , 4, 2910-8		311
2105	A scalable, solution-phase processing route to graphene oxide and graphene ultralarge sheets. <b>2010</b> , 46, 2611-3		216
2104	A Simple Approach for Preparing Transparent Conductive Graphene Films Using the Controlled Chemical Reduction of Exfoliated Graphene Oxide in an Aqueous Suspension. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 14433-14440	3.8	96
2103	A new approach to fabricate graphene nanosheets in organic medium: combination of reduction and dispersion. <b>2010</b> , 20, 1722		205
2102	Raman Spectroscopic Characterization of Graphene. <b>2010</b> , 45, 369-407		170
2101	Nitrogen-doped graphene as efficient metal-free electrocatalyst for oxygen reduction in fuel cells. <b>2010</b> , 4, 1321-6		3349
2100	Fluorescence Quenching in Conjugated Polymers Blended with Reduced Graphitic Oxide. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 4153-4159	3.8	95
2099	Porphyrim Functionalized Graphene Sheets in Aqueous Suspensions: From the Preparation of Graphene Sheets to Highly Conductive Graphene Films. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 8227-8234	3.8	273
2098	Exfoliation of graphene from graphite and their self-assembly at the oil-water interface. <i>Langmuir</i> , <b>2010</b> , 26, 9045-9	4	85

2097	Environment-Friendly Method To Produce Graphene That Employs Vitamin C and Amino Acid. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2213-2218	9.6	621
2096	Vitamin C Is an Ideal Substitute for Hydrazine in the Reduction of Graphene Oxide Suspensions. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 6426-6432	3.8	1065
2095	Dispersion of graphene sheets in ionic liquid [bmim][PF6] stabilized by an ionic liquid polymer. <b>2010</b> , 46, 386-8		157
2094	Fabrication of High-Concentration and Stable Aqueous Suspensions of Graphene Nanosheets by Noncovalent Functionalization with Lignin and Cellulose Derivatives. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3811-3816	3.8	186
2093	Self-Assembly of Reduced Graphene Oxide into Three-Dimensional Architecture by Divalent Ion Linkage. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 22462-22465	3.8	206
2092	Nanostructured carbon electrodes. <b>2010</b> , 20, 3553		58
2091	Chemically converted graphene as substrate for immobilizing and enhancing the activity of a polymeric catalyst. <b>2010</b> , 46, 4740-2		263
2090	Graphene oxide nanosheets based organic field effect transistor for nonvolatile memory applications. <b>2010</b> , 97, 023310		89
2089	Highly efficient restoration of graphitic structure in graphene oxide using alcohol vapors. <b>2010</b> , 4, 5285-92		227
2088	Development of an Amperometric Cholesterol Biosensor Based on GraphenePt Nanoparticle Hybrid Material. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 21427-21433	3.8	248
2087	Bottom-up Approaches to Nanographenes through Organic Synthesis. <b>2010</b> , 235-261		1
2086	Click chemistry as a route for the immobilization of well-defined polystyrene onto graphene sheets. <b>2010</b> , 20, 5605		131
2085	Stable, conductive supramolecular composite of graphene sheets with conjugated polyelectrolyte. <i>Langmuir</i> , <b>2010</b> , 26, 6708-12	4	109
2084	Enhanced reversible photoswitching of azobenzene-functionalized graphene oxide hybrids. <i>Langmuir</i> , <b>2010</b> , 26, 18508-11	4	49
2083	Two-dimensional graphene bridges enhanced photoinduced charge transport in dye-sensitized solar cells. <b>2010</b> , 4, 887-94		840
2082	Morphology and Photoelectrical Properties of Solution Processable Butylamine-Modified Graphene- and Pyrene-Based Organic Semiconductor. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11252-11257	3.8	17
2081	Microwave-assisted synthesis of highly water-soluble graphene towards electrical DNA sensor. <b>2010</b> , 2, 2692-7		53
2080	Interfacing live cells with nanocarbon substrates. <i>Langmuir</i> , <b>2010</b> , 26, 2244-7	4	271

2079	The direct growth of gold rods on graphene thin films. <b>2010</b> , 46, 3185-7	95
2078	Dye-sensitized solar cells based on poly (3,4-ethylenedioxythiophene) counter electrode derived from ionic liquids. <b>2010</b> , 20, 1654	197
2077	Functionalization of surfactant wrapped graphene nanosheets with alkylazides for enhanced dispersibility. <b>2011</b> , 3, 303-8	116
2076	One-step synthesis of Fe <sub>3</sub> O <sub>4</sub> @C nanotubes for the immobilization of adriamycin. <b>2011</b> , 21, 12224	23
2075	Fabrication and Characterization of Networked Graphene Devices Based on Ultralarge Single-Layer Graphene Sheets. <b>2011</b> , 10, 467-471	3
2074	Electrochemical behavior of graphene nanosheets in alkylimidazolium tetrafluoroborate ionic liquid electrolytes: influences of organic solvents and the alkyl chains. <b>2011</b> , 21, 13205	54
2073	Graphene oxide-mediated formation of freestanding, thickness controllable metal oxide films. <b>2011</b> , 21, 12889	10
2072	A novel fluorescent biosensor for sequence-specific recognition of double-stranded DNA with the platform of graphene oxide. <b>2011</b> , 136, 2106-10	68
2071	Aqueous stabilization of graphene sheets using exfoliated montmorillonite nanoplatelets for multifunctional free-standing hybrid films via vacuum-assisted self-assembly. <b>2011</b> , 21, 18011	70
2070	Pd-induced ordering of 2D Pt nanoarrays on phosphonated calix[4]arenes stabilised graphenes. <b>2011</b> , 47, 5193-5	16
2069	Low-voltage solution-processed graphene transistors based on chemically and solvothermally reduced graphene oxide. <b>2011</b> , 21, 13068	22
2068	Ultrathin free-standing close-packed gold nanoparticle films: conductivity and Raman scattering enhancement. <b>2011</b> , 3, 3868-75	17
2067	Morphology-controllable graphene/TiO <sub>2</sub> nanorod hybrid nanostructures for polymer composites with high dielectric performance. <b>2011</b> , 21, 17729	114
2066	Signal amplification of streptavidin-horseradish peroxidase functionalized carbon nanotubes for amperometric detection of attomolar DNA. <b>2011</b> , 47, 5220-2	75
2065	Highly conductive and flexible mesoporous graphitic films prepared by graphitizing the composites of graphene oxide and nanodiamond. <b>2011</b> , 21, 7154	78
2064	A graphene oxide-based AIE biosensor with high selectivity toward bovine serum albumin. <b>2011</b> , 47, 12385-7	130
2063	A Facile Route for the Large Scale Fabrication of Graphene Oxide Papers and Their Mechanical Enhancement by Cross-linking with Glutaraldehyde. <b>2011</b> , 3, 215-222	51
2062	pH-responsive, DNA-directed reversible assembly of graphene oxide. <b>2011</b> , 7, 2681-7	17

2061	Preparation and Tribological Study of Functionalized Graphene/L Nanocomposite Ultrathin Lubrication Films on Si Substrates. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 13275-13284	3.8	72
2060	The preparation and electrical properties of the functionalized graphene/poly (ether sulfone) nanocomposites. <b>2011</b> , 23, 592-601		11
2059	Self-assembled graphene/azo polyelectrolyte multilayer film and its application in electrochemical energy storage device. <i>Langmuir</i> , <b>2011</b> , 27, 2007-13	4	63
2058	Surface enhanced Raman scattering of aged graphene: Effects of annealing in vacuum. <b>2011</b> , 99, 233103		20
2057	Anisotropic Electrical Transport Properties of Graphene Nanoplatelets/Pyrene Composites by Electric-Field-Assisted Thermal Annealing. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 16652-16656	3.8	12
2056	Low driving voltage holographic polymer dispersed liquid crystals with chemically incorporated graphene oxide. <b>2011</b> , 21, 19226		24
2055	Physics of Carbon Nanostructures. <b>2011</b> , 155-194		3
2054	Direct preparation of 1-PSA modified graphene nanosheets by supercritical fluidic exfoliation and its electrochemical properties. <b>2011</b> , 21, 3462-3466		74
2053	Highly conductive chemically converted graphene prepared from mildly oxidized graphene oxide. <b>2011</b> , 21, 7376		164
2052	Graphene/silicon nanowire Schottky junction for enhanced light harvesting. <b>2011</b> , 3, 721-5		193
2051	Graphene uniformly decorated with gold nanodots: in situ synthesis, enhanced dispersibility and applications. <b>2011</b> , 21, 8096		85
2050	New role of graphene oxide as active hydrogen donor in the recyclable palladium nanoparticles catalyzed ullmann reaction in environmental friendly ionic liquid/supercritical carbon dioxide system. <b>2011</b> , 21, 3485		45
2049	Preparation of non-covalently functionalized graphene using 9-anthracene carboxylic acid. <b>2011</b> , 22, 405603		43
2048	SnO <sub>2</sub> /Graphene Composite Synthesized via an Ultrafast and Environmentally Friendly Microwave Autoclave Method and Its Use as a Superior Anode for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 25115-25120	3.8	138
2047	Graphene-encapsulated hollow Fe <sub>3</sub> O <sub>4</sub> nanoparticle aggregates as a high-performance anode material for lithium ion batteries. <b>2011</b> , 3, 3078-83		271
2046	Supercapacitors based on self-assembled graphene organogel. <b>2011</b> , 13, 17249-54		108
2045	Polymer brushes on graphene. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10490-8	16.4	129
2044	Design and synthesis of NiCo <sub>2</sub> O <sub>4</sub> /reduced graphene oxide composites for high performance supercapacitors. <b>2011</b> , 21, 10504		302

2043	PS colloidal particles stabilized by graphene oxide. <i>Langmuir</i> , <b>2011</b> , 27, 1186-91	4	103
2042	Multivalent binding motifs for the noncovalent functionalization of graphene. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17614-7	16.4	133
2041	Chemical amination of graphene oxides and their extraordinary properties in the detection of lead ions. <b>2011</b> , 3, 5059-66		97
2040	Electronic transport in graphitic nanoribbon films. <b>2011</b> , 5, 1617-22		13
2039	Functionalizing metal nanostructured film with graphene oxide for ultrasensitive detection of aromatic molecules by surface-enhanced Raman spectroscopy. <b>2011</b> , 3, 2944-52		144
2038	Chiral detection using reusable fluorescent amylose-functionalized graphene. <b>2011</b> , 2, 2050		59
2037	Preparation of water-dispersible graphene by facile surface modification of graphite oxide. <b>2011</b> , 22, 305710		82
2036	Cobalt Oxide Nanowall Arrays on Reduced Graphene Oxide Sheets with Controlled Phase, Grain Size, and Porosity for Li-Ion Battery Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 8400-8406	3.8	181
2035	Effect of Oxygen Content on Structures of Graphite Oxides. <b>2011</b> , 50, 6132-6137		99
2034	A novel strategy for making soluble reduced graphene oxide sheets cheaply by adopting an endogenous reducing agent. <b>2011</b> , 21, 3365-3370		193
2033	Highly efficient visible-light-driven photocatalytic hydrogen production of CdS-cluster-decorated graphene nanosheets. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10878-84	16.4	2039
2032	Fabrication of Co <sub>3</sub> O <sub>4</sub> -reduced graphene oxide scrolls for high-performance supercapacitor electrodes. <b>2011</b> , 13, 14462-5		192
2031	Fabrication of gold nanoparticles on bilayer graphene for glucose electrochemical biosensing. <b>2011</b> , 21, 7604		132
2030	Synthesis, assembly and applications of semiconductor nanomembranes. <b>2011</b> , 477, 45-53		526
2029	Graphene based new energy materials. <b>2011</b> , 4, 1113		1637
2028	Graphene oxide with covalently linked porphyrin antennae: Synthesis, characterization and photophysical properties. <b>2011</b> , 21, 109-117		207
2027	Facile synthesis of metal oxide/reduced graphene oxide hybrids with high lithium storage capacity and stable cyclability. <b>2011</b> , 3, 1084-9		330
2026	Graphene oxide nanosheets/multi-walled carbon nanotubes hybrid as an excellent electrocatalytic material towards VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>+</sup> redox couples for vanadium redox flow batteries. <b>2011</b> , 4, 4710		252



2025	Controllable corrugation of chemically converted graphene sheets in water and potential application for nanofiltration. <b>2011</b> , 47, 5810-2		277
2024	Hierarchical graphene nanocones over 3D platform of carbon fabrics: a route towards fully foldable graphene based electron source. <b>2011</b> , 3, 4135-41		32
2023	Facile Fabrication of Metal Nanoparticle/Graphene Oxide Hybrids: A New Strategy To Directly Illuminate Graphene for Optical Imaging. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 12815-12821	3.8	63
2022	Fabrication of hybrids based on graphene and metal nanoparticles by in situ and self-assembled methods. <b>2011</b> , 3, 1182-8		90
2021	The Synthesis and Characterization of the Graphene Oxide Covalent Modified Phenolic Resin Nanocomposites. <b>2011</b> , 327, 115-119		5
2020	Synthesis of 3D Hierarchical Fe <sub>3</sub> O <sub>4</sub> /Graphene Composites with High Lithium Storage Capacity and for Controlled Drug Delivery. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 21567-21573	3.8	272
2019	Imparting Polymeric Properties to Graphene Nanosheets by Surface Modification via $\pi$ - $\pi$ Stacking. <b>2011</b> , 64, 1414		8
2018	Highly controllable transparent and conducting thin films using layer-by-layer assembly of oppositely charged reduced graphene oxides. <b>2011</b> , 21, 3438-3442		181
2017	Synthesis of Ultrathin Silicon Nanosheets by Using Graphene Oxide as Template. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 5293-5295	9.6	151
2016	Large-scale preparation of highly conductive three dimensional graphene and its applications in CdTe solar cells. <b>2011</b> , 21, 17366		84
2015	Formation of graphene sheets through laser exfoliation of highly ordered pyrolytic graphite. <b>2011</b> , 98, 173108		90
2014	A rapid, one-step, variable-valence metal ion assisted reduction method for graphene oxide. <b>2011</b> , 22, 405602		26
2013	Optical bifunctionality of europium-complexed luminescent graphene nanosheets. <b>2011</b> , 11, 5227-33		79
2012	Effect of extended polymer chains on properties of transparent graphene nanosheets conductive film. <b>2011</b> , 21, 18236		103
2011	Electrochemical deposition of polyaniline nanosheets mediated by sulfonated polyaniline functionalized graphenes. <b>2011</b> , 21, 13978		50
2010	Polyelectrolyte-induced reduction of exfoliated graphite oxide: a facile route to synthesis of soluble graphene nanosheets. <b>2011</b> , 5, 1785-91		274
2009	Hollow flower-like AuPd alloy nanoparticles: One step synthesis, self-assembly on ionic liquid-functionalized graphene, and electrooxidation of formic acid. <b>2011</b> , 21, 17922		98
2008	High-performance supercapacitor electrodes based on graphene hydrogels modified with 2-aminoanthraquinone moieties. <b>2011</b> , 13, 11193-8		151

2007	Decorating graphene sheets with Pt nanoparticles using sodium citrate as reductant. <b>2011</b> , 257, 10758-10762		44
2006	On the Gelation of Graphene Oxide. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 5545-5551	3.8	544
2005	Surfactant-intercalated, chemically reduced graphene oxide for high performance supercapacitor electrodes. <b>2011</b> , 21, 7302		243
2004	High concentration few-layer graphene sheets obtained by liquid phase exfoliation of graphite in ionic liquid. <b>2011</b> , 21, 3428-3431		317
2003	Straightforward synthesis of conductive graphene/polymer nanocomposites from graphite oxide. <b>2011</b> , 47, 2544-6		74
2002	Microwave-assisted synthesis of graphene/ZnO nanocomposite for electrochemical supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 5488-5492	5.7	166
2001	The effects of dopant on morphology formation in polyaniline graphite nanoplatelet composite. <b>2011</b> , 161, 177-182		20
2000	An amperometric hydrogen peroxide chemical sensor based on graphene-Fe <sub>3</sub> O <sub>4</sub> multilayer films modified ITO electrode. <b>2011</b> , 87, 243-8		64
1999	High-performance self-assembled graphene hydrogels prepared by chemical reduction of graphene oxide. <b>2011</b> , 26, 9-15		249
1998	Butterfly-shaped conjugated oligoelectrolyte/graphene oxide integrated assay for light-up visual detection of heparin. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7849-55	7.8	95
1997	Stable aqueous dispersion of reduced graphene nanosheets via non-covalent functionalization with conducting polymers and application in transparent electrodes. <i>Langmuir</i> , <b>2011</b> , 27, 2014-8	4	143
1996	Reduced graphene oxide supported highly porous V <sub>2</sub> O <sub>5</sub> spheres as a high-power cathode material for lithium ion batteries. <b>2011</b> , 3, 4752-8		143
1995	Biocompatible reduced graphene oxide prepared by using dextran as a multifunctional reducing agent. <b>2011</b> , 47, 3195-7		157
1994	Benzylamine-assisted noncovalent exfoliation of graphite-protecting Pt nanoparticles applied as catalyst for methanol oxidation. <b>2011</b> , 3, 2169-72		26
1993	Macroscopic, free-standing Ag-reduced, graphene oxide Janus films prepared by evaporation-induced self-assembly. <b>2011</b> , 17, 8789-93		30
1992	Bimetallic Pt-Au nanocatalysts electrochemically deposited on graphene and their electrocatalytic characteristics towards oxygen reduction and methanol oxidation. <b>2011</b> , 13, 4083-94		222
1991	The synthesis and fluorescence quenching properties of well soluble hybrid graphene material covalently functionalized with indolizine. <b>2011</b> , 22, 075202		20
1990	Sodium deoxycholate functionalized graphene and its composites with polyvinyl alcohol. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 445302	3	14

1989	Assembly of chemically modified graphene: methods and applications. <b>2011</b> , 21, 3311-3323	231
1988	Hemin-graphene hybrid nanosheets with intrinsic peroxidase-like activity for label-free colorimetric detection of single-nucleotide polymorphism. <b>2011</b> , 5, 1282-90	511
1987	Facile synthesis of soluble graphene via a green reduction of graphene oxide in tea solution and its biocomposites. <b>2011</b> , 3, 1127-33	459
1986	Blood compatible graphene/heparin conjugate through noncovalent chemistry. <b>2011</b> , 12, 336-41	185
1985	Antimicrobial graphene polymer (PVK-GO) nanocomposite films. <b>2011</b> , 47, 8892-4	163
1984	Graphene-Based Polymer Nanocomposites. <b>2011</b> ,	
1983	Enhanced Solvent Exfoliation of Graphite to Graphene Dispersion in the Presence of Polymer Additive. <b>2011</b> , 40, 567-569	16
1982	Graphene: A novel carbon nanomaterial. <b>2011</b> , 47, 1-10	55
1981	Electrochemical properties of graphene nanosheets/polyaniline nanofibers composites as electrode for supercapacitors. <b>2011</b> , 196, 10775-10781	266
1980	Layer-by-layer assembly of graphene/polyaniline multilayer films and their application for electrochromic devices. <b>2011</b> , 52, 5567-5572	135
1979	Preparation of reduced graphene oxide/cobalt oxide composites and their enhanced capacitive behaviors by homogeneous incorporation of reduced graphene oxide sheets in cobalt oxide matrix. <b>2011</b> , 130, 672-679	124
1978	A facile method to prepare stable noncovalent functionalized graphene solution by using thionine. <b>2011</b> , 46, 583-587	48
1977	Flower-like zinc oxide deposited on the film of graphene oxide and its photoluminescence. <b>2011</b> , 65, 1885-1888	9
1976	Polycation stabilization of graphene suspensions. <b>2011</b> , 6, 493	8
1975	Controllable synthesis, magnetism and solubility enhancement of graphene nanosheets/magnetite hybrid material by covalent bonding. <b>2011</b> , 363, 98-104	41
1974	Aniline as a dispersing and stabilizing agent for reduced graphene oxide and its subsequent decoration with Ag nanoparticles for enzymeless hydrogen peroxide detection. <b>2011</b> , 363, 615-9	101
1973	Water dispersible graphene noncovalently functionalized with tryptophan and its poly(vinyl alcohol) nanocomposite. <b>2011</b> , 42, 2130-2135	117
1972	Synthesis and electrochemical applications of the composites of conducting polymers and chemically converted graphene. <b>2011</b> , 56, 10737-10743	52

1971	Morphology and physical properties of poly(ethylene oxide) loaded graphene nanocomposites prepared by two different techniques. <b>2011</b> , 47, 1534-1540		140
1970	The comparison of different gold nanoparticles/graphene nanosheets hybrid nanocomposites in electrochemical performance and the construction of a sensitive uric acid electrochemical sensor with novel hybrid nanocomposites. <b>2011</b> , 29, 102-8		86
1969	Electrochemical synthesis of reduced graphene sheet-AuPd alloy nanoparticle composites for enzymatic biosensing. <b>2011</b> , 29, 159-66		186
1968	Thermal conductivity and structure of non-covalent functionalized graphene/epoxy composites. <b>2011</b> , 49, 5107-5116		572
1967	Formation of freestanding two-dimensional carbon nanosheets from poly(phenylcarbyne) through pulsed laser ablation. <b>2011</b> , 49, 5117-5123		14
1966	Fabrication of graphene films on TiO <sub>2</sub> nanotube arrays for photocatalytic application. <b>2011</b> , 49, 5312-5320		116
1965	Graphene nanosheet: synthesis, molecular engineering, thin film, hybrids, and energy and analytical applications. <b>2011</b> , 40, 2644-72		1085
1964	ABS nanocomposite films based on functionalized-graphene sheets. <b>2011</b> , 124, n/a-n/a		6
1963	Fast synthesis of graphene sheets with good thermal stability by microwave irradiation. <b>2011</b> , 6, 1151-4		18
1962	General approach for monitoring peptide-protein interactions based on graphene-peptide complex. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7276-82	7.8	85
1961	One-step in situ ball milling synthesis of polymer-functionalized graphene nanocomposites. <b>2011</b> , 21, 8626		145
1960	Platinum nanoparticles/graphene composite catalyst as a novel composite counter electrode for high performance dye-sensitized solar cells. <b>2011</b> , 21, 12880		198
1959	Preparation of Highly Conductive Graphene Hydrogels for Fabricating Supercapacitors with High Rate Capability. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 17206-17212	3.8	613
1958	Graphene-Based Nanoassemblies for Energy Conversion. <b>2011</b> , 2, 242-251		553
1957	Graphene nanoplatelet cathode for Co(III)/(II) mediated dye-sensitized solar cells. <b>2011</b> , 5, 9171-8		254
1956	Metallic few-layered VS <sub>2</sub> ultrathin nanosheets: high two-dimensional conductivity for in-plane supercapacitors. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17832-8	16.4	886
1955	Stimuli-Responsive Polymer Covalent Functionalization of Graphene Oxide by Ce(IV)-Induced Redox Polymerization. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 24636-24641	3.8	44
1954	Preparation and characterization of graphene/NiO nanocomposites. <b>2011</b> , 46, 1190-1195		44

1953	Role of poly(N-vinyl-2-pyrrolidone) as stabilizer for dispersion of graphene via hydrophobic interaction. <b>2011</b> , 46, 1316-1321	72
1952	Functionalization of thermally reduced graphene by in situ atom transfer radical polymerization. <b>2011</b> , 13, 6389-6396	40
1951	Noncovalent wrapping of chemically modified graphene with $\pi$ -conjugated disk-like molecules. <b>2011</b> , 289, 925-932	27
1950	A versatile graphene-based fluorescence "on/off" switch for multiplex detection of various targets. <b>2011</b> , 26, 3260-5	203
1949	A graphene oxide platform for energy transfer-based detection of protease activity. <b>2011</b> , 26, 3894-9	83
1948	Homogeneous detection of concanavalin A using pyrene-conjugated maltose assembled graphene based on fluorescence resonance energy transfer. <b>2011</b> , 26, 4497-502	73
1947	Green fabrication of chitosan films reinforced with parallel aligned graphene oxide. <b>2011</b> , 83, 1908-1915	216
1946	Preparation, characterization, and electrocatalytic performance of graphene-methylene blue thin films. <b>2011</b> , 4, 124-130	34
1945	A facile one-step synthesis of TiO <sub>2</sub> /graphene composites for photodegradation of methyl orange. <b>2011</b> , 4, 274-283	165
1944	Graphene-based electrochemical biosensor for pathogenic virus detection. <b>2011</b> , 5, 123-128	79
1943	Preparation and characterization of nanocomposite based on polyaniline and graphene nanosheets. <b>2011</b> , 19, 203-208	37
1942	Tert-butylhydroquinone-decorated graphene nanosheets and their enhanced capacitive behaviors. <b>2011</b> , 56, 2092-2097	25
1941	Discussion on the thermal conductivity enhancement of nanofluids. <b>2011</b> , 6, 124	125
1940	Influences of graphene oxide support on the electrochemical performances of graphene oxide-MnO <sub>2</sub> nanocomposites. <b>2011</b> , 6, 531	89
1939	Growth and characterization of graphene by chemical reduction of graphene oxide in solution. <b>2011</b> , 208, 2335-2338	15
1938	Building nanostructures using RAFT polymerization. <b>2011</b> , 49, 551-595	278
1937	Graphene-based materials: synthesis, characterization, properties, and applications. <b>2011</b> , 7, 1876-902	1968
1936	Chemical preparation of graphene-based nanomaterials and their applications in chemical and biological sensors. <b>2011</b> , 7, 2413-27	201

1935	Polypyrrole/graphene composite-coated fiber for the solid-phase microextraction of phenols. <b>2011</b> , 34, 2765-72		101
1934	Thermo-Responsive Assembly of Chemically Reduced Graphene and Poly(N-isopropylacrylamide). <b>2011</b> , 212, 336-341		37
1933	Dispersion and Exfoliation of Graphene in Rubber by an Ultrasonically-Assisted Latex Mixing and In situ Reduction Process. <b>2011</b> , 296, 590-602		199
1932	Fabrication of Graphene/Quantum Dots Composites for Sensitive Electrogenerated Chemiluminescence Immunosensing. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 869-878	15.6	287
1931	Tailored Assembly of Carbon Nanotubes and Graphene. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 1338-1354	15.6	191
1930	Water-Soluble Poly(N-isopropylacrylamide)/Graphene Sheets Synthesized via Click Chemistry for Drug Delivery. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2754-2763	15.6	383
1929	Graphene functionalized with azo polymer brushes: surface-initiated polymerization and photoresponsive properties. <b>2011</b> , 23, 1122-5		105
1928	Functional composite materials based on chemically converted graphene. <b>2011</b> , 23, 1089-115		859
1927	An electrochemical avenue to green-luminescent graphene quantum dots as potential electron-acceptors for photovoltaics. <b>2011</b> , 23, 776-80		1330
1926	Graphene-biomineral hybrid materials. <b>2011</b> , 23, 2009-14		151
1925	Bioinspired effective prevention of restacking in multilayered graphene films: towards the next generation of high-performance supercapacitors. <b>2011</b> , 23, 2833-8		888
1924	Graphene as transparent electrode material for organic electronics. <b>2011</b> , 23, 2779-95		612
1923	Carbon materials for chemical capacitive energy storage. <b>2011</b> , 23, 4828-50		2273
1922	Electrical assembly and reduction of graphene oxide in a single solution step for use in flexible sensors. <b>2011</b> , 23, 4626-30		81
1921	Graphene Based Materials: Enhancing Solar Energy Harvesting. <b>2011</b> , 1, 448-452		136
1920	Graphene and Related Materials in Electrochemical Sensing. <b>2011</b> , 23, 803-826		225
1919	Highly Sensitive Fluorometric Hg <sup>2+</sup> Biosensor with a Mercury(II)-Specific Oligonucleotide (MSO) Probe and Water-Soluble Graphene Oxide (WSGO). <b>2011</b> , 29, 1031-1035		21
1918	Graphene and Graphene Oxide Sheets Supported on Silica as Versatile and High-Performance Adsorbents for Solid-Phase Extraction. <b>2011</b> , 123, 6035-6039		84

1917	Ordered Gelation of Chemically Converted Graphene for Next-Generation Electroconductive Hydrogel Films. <b>2011</b> , 123, 7463-7466	21
1916	Asymmetrically Functionalized Graphene for Photodependent Diode Rectifying Behavior. <b>2011</b> , 123, 6705-6708	8
1915	Claisen Rearrangement of Graphite Oxide: A Route to Covalently Functionalized Graphenes. <b>2011</b> , 123, 9010-9014	21
1914	Gold Nanoclusters and Graphene Nanocomposites for Drug Delivery and Imaging of Cancer Cells. <b>2011</b> , 123, 11848-11852	13
1913	Graphene and graphene oxide sheets supported on silica as versatile and high-performance adsorbents for solid-phase extraction. <b>2011</b> , 50, 5913-7	339
1912	Ordered gelation of chemically converted graphene for next-generation electroconductive hydrogel films. <b>2011</b> , 50, 7325-8	260
1911	Asymmetrically functionalized graphene for photodependent diode rectifying behavior. <b>2011</b> , 50, 6575-8	42
1910	Claisen rearrangement of graphite oxide: a route to covalently functionalized graphenes. <b>2011</b> , 50, 8848-52	77
1909	Gold nanoclusters and graphene nanocomposites for drug delivery and imaging of cancer cells. <b>2011</b> , 50, 11644-8	258
1908	Graphene-encapsulated Fe <sub>3</sub> O <sub>4</sub> nanoparticles with 3D laminated structure as superior anode in lithium ion batteries. <b>2011</b> , 17, 661-7	374
1907	Synthesis and characterization of red-luminescent graphene oxide functionalized with silica-coated Eu <sup>3+</sup> complex nanoparticles. <b>2011</b> , 17, 7007-12	23
1906	One-pot functionalization of graphene with porphyrin through cycloaddition reactions. <b>2011</b> , 17, 8957-64	115
1905	Magnetic Fe <sub>3</sub> O <sub>4</sub> -graphene oxide/polystyrene: Fabrication and characterization of a promising nanocomposite. <b>2011</b> , 172, 540-549	241
1904	Evaluation of graphene as an advantageous adsorbent for solid-phase extraction with chlorophenols as model analytes. <b>2011</b> , 1218, 197-204	278
1903	Preparation of sulfonic-functionalized graphene oxide as ion-exchange material and its application into electrochemiluminescence analysis. <b>2011</b> , 26, 3136-41	45
1902	Disposable biosensor based on graphene oxide conjugated with tyrosinase assembled gold nanoparticles. <b>2011</b> , 26, 3181-6	107
1901	Ionic liquid-graphene hybrid nanosheets as an enhanced material for electrochemical determination of trinitrotoluene. <b>2011</b> , 26, 3475-81	116
1900	Quencher-free molecular beacon: Enhancement of the signal-to-background ratio with graphene oxide. <b>2011</b> , 21, 704-6	32

1899	Graphene oxide nanoplatelets as excellent electrochemical active materials for VO <sub>2</sub> <sup>+/</sup> and V <sub>2</sub> <sup>+/V3+</sup> redox couples for a vanadium redox flow battery. <b>2011</b> , 49, 693-700	210
1898	Synthesis and electrocatalytic oxygen reduction activity of graphene-supported Pt <sub>3</sub> Co and Pt <sub>3</sub> Cr alloy nanoparticles. <b>2011</b> , 49, 931-936	154
1897	An approach to produce single and double layer graphene from re-exfoliation of expanded graphite. <b>2011</b> , 49, 1946-1954	127
1896	Surface amorphization and deoxygenation of graphene oxide paper by Ti ion implantation. <b>2011</b> , 49, 3141-3147	47
1895	Photochemical loading of metal nanoparticles on reduced graphene oxide sheets using phosphotungstate. <b>2011</b> , 49, 3454-3462	91
1894	Noncovalent modified graphene sheets with ruthenium(II) complexes used as electrochemiluminescent materials and photosensors. <b>2011</b> , 49, 4239-4245	37
1893	Solution-based synthesis and characterization of a silver nanoparticle-graphene hybrid film. <b>2011</b> , 49, 4731-4738	116
1892	Novel electrochemical sensor based on functionalized graphene for simultaneous determination of adenine and guanine in DNA. <b>2011</b> , 82, 543-9	219
1891	Multilayer films of cationic graphene-polyelectrolytes and anionic graphene-polyelectrolytes fabricated using layer-by-layer self-assembly. <b>2011</b> , 257, 4982-4989	43
1890	Direct electrochemistry of catalase at amine-functionalized graphene/gold nanoparticles composite film for hydrogen peroxide sensor. <b>2011</b> , 56, 2947-2953	158
1889	A method for the production of reduced graphene oxide using benzylamine as a reducing and stabilizing agent and its subsequent decoration with Ag nanoparticles for enzymeless hydrogen peroxide detection. <b>2011</b> , 49, 3158-3164	279
1888	The electrocatalytic oxidative polymerizations of aniline and aniline derivatives by graphene. <b>2011</b> , 56, 2284-2289	31
1887	A flexible graphene/multiwalled carbon nanotube film as a high performance electrode material for supercapacitors. <b>2011</b> , 56, 5115-5121	230
1886	Microwave-assisted synthesis of graphene-supported Pd <sub>1</sub> Pt <sub>3</sub> nanostructures and their electrocatalytic activity for methanol oxidation. <b>2011</b> , 56, 7064-7070	80
1885	Study on phenol adsorption from aqueous solutions on exfoliated graphitic nanoplatelets. <b>2011</b> , 176, 588-595	20
1884	In situ synthesis of graphene/cobalt nanocomposites and their magnetic properties. <b>2011</b> , 176, 711-715	77
1883	Electron transfer between methyl viologen radicals and graphene oxide: Reduction, electron storage and discharge. <b>2011</b> , 221, 214-219	41
1882	A comparative study on electrosorptive behavior of carbon nanotubes and graphene for capacitive deionization. <b>2011</b> , 653, 40-44	190



1881	Direct electron transfer and electrocatalysis of hemoglobin immobilized on graphenePt nanocomposite. <b>2011</b> , 657, 28-33	51
1880	Preparation of water soluble graphene using polyethylene glycol: Comparison of covalent approach and noncovalent approach. <b>2011</b> , 17, 298-303	48
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1878	Spectrofluorimetric determination of glutathione in human plasma by solid-phase extraction using graphene as adsorbent. <b>2011</b> , 79, 1860-5	67
1877	Significant thermal conductivity enhancement for nanofluids containing graphene nanosheets. <b>2011</b> , 375, 1323-1328	263
1876	Graphene based materials: Past, present and future. <b>2011</b> , 56, 1178-1271	2607
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1873	A graphene oxide-carbon nanotube grid for high-resolution transmission electron microscopy of nanomaterials. <b>2011</b> , 22, 385704	2
1872	Preparation of Functionalized Graphene Sheets. <b>2011</b> , 15, 1133-1150	36
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1869	Reduced Graphite Oxide-Indium Tin Oxide Hybrid Materials for use as a Transparent Electrode. <b>2011</b> , 158, J231	18
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1866	p-Phosphonic acid calix[8]arene assisted exfoliation and stabilization of 2D materials in water. <b>2012</b> , 48, 11407-9	54
1865	Reduced Graphene Oxide Nanosheets Functionalized with Bile Salts as Support for Electrochemical Catalysts. <b>2012</b> , 535-537, 1467-1477	2
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1863	Size-dependent radiative decay processes in graphene quantum dots. <b>2012</b> , 101, 163103	24
1862	Preparation and Electrocatalytic Performance of Ag/Graphene Nanocomposite. <b>2012</b> , 512-515, 1059-1063	
1861	Preparation of Platinum Nanoparticles-Graphene Modified Electrode and Selective Determination of Rutin. <b>2012</b> , 2012, 1-6	7
1860	Different Characterization Techniques to Evaluate Graphene and Its Properties. <b>2012</b> , 118-161	
1859	pH-Responsive Optical Modulation of Chemically Reduced Graphene through Noncovalent Interaction with Poly(acrylic acid). <b>2012</b> , 41, 127-128	13
1858	An Improved Method to Increase the Concentration of Graphene in Organic Solvent. <b>2012</b> , 41, 747-749	8
1857	Temperature-dependent Optical Transmittance of Chemically Reduced Graphene Oxide/Hydroxypropyl Cellulose Assembly. <b>2012</b> , 41, 197-199	11
1856	One-pot hydrothermal synthesis of graphene quantum dots surface-passivated by polyethylene glycol and their photoelectric conversion under near-infrared light. <b>2012</b> , 36, 97-101	403
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1852	Enhanced electrocatalytic performance of Pt-based nanoparticles on reduced graphene oxide for methanol oxidation. <b>2012</b> , 682, 95-100	36
1851	Visible Photocatalytic Activity Enhancement of ZnWO <sub>4</sub> by Graphene Hybridization. <b>2012</b> , 2, 2769-2778	236
1850	Solution-Processed Graphite Membrane from Reassembled Graphene Oxide. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 594-599	9.6 77
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1846	Chapter 1:Graphene Functionalization: A Review. <b>2012</b> , 1-52	3

1845	Chapter 2:Gelation of Graphene Oxide. <b>2012</b> , 52-63	0
1844	Chapter 3:Electrically Conductive Polymer/Graphene Composites Prepared Using Latex Technology. <b>2012</b> , 66-85	2
1843	Bottom-up synthesis of large-scale graphene oxide nanosheets. <b>2012</b> , 22, 5676	193
1842	Covalent Functionalization of Graphene with Polysaccharides. <b>2012</b> , 51, 310-317	71
1841	Thickness identification of two-dimensional materials by optical imaging. <b>2012</b> , 23, 495713	77
1840	One-pot synthesis of CuO nanoflower-decorated reduced graphene oxide and its application to photocatalytic degradation of dyes. <b>2012</b> , 2, 339-344	146
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1832	Enzyme immobilization and direct electrochemistry based on a new matrix of phospholipid-monolayer-functionalized graphene. <b>2012</b> , 7, 2824-9	21
1831	Magnetism-tunable oligoacene dioxide diradicals: promising magnetic oligoacene-like molecules. <b>2012</b> , 13, 4148-54	4
1830	Characterization and electrical properties of honeycomb-patterned poly( $\epsilon$ -caprolactone)/reduced graphene oxide composite film. <b>2012</b> , 33, 2159-2168	12
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1828	Controlled oxidation of graphite to graphene oxide with novel oxidants in a bulk scale. <b>2012</b> , 14, 1248	53

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1823	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
1822	Highly dispersive {001} facets-exposed nanocrystalline TiO <sub>2</sub> on high quality graphene as a high performance photocatalyst. <b>2012</b> , 22, 7484	134
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1819	Structural and electrochemical characterization of ordered mesoporous carbon-reduced graphene oxide nanocomposites. <b>2012</b> , 22, 10900	38
1818	Facile in situ fabrication of graphene-upconversion hybrid materials with amplified electrogenerated chemiluminescence. <b>2012</b> , 4, 400-4	33
1817	A graphene-based composite material noncovalently functionalized with a chemiluminescence reagent: synthesis and intrinsic chemiluminescence activity. <b>2012</b> , 48, 2894-6	45
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1815	A graphene oxide (GO)-based molecular beacon for DNA-binding transcription factor detection. <b>2012</b> , 4, 3655-9	42
1814	Facile synthesis of Pt <sub>3</sub> Sn/graphene nanocomposites and their catalysis for electro-oxidation of methanol. <b>2012</b> , 14, 7137	14
1813	Tailored anisotropic magnetic conductive film assembled from graphene-encapsulated multifunctional magnetic composite microspheres. <b>2012</b> , 22, 545-550	41
1812	Graphene/Carbon Nanotube Films Prepared by Solution Casting for Electrochemical Energy Storage. <b>2012</b> , 11, 3-7	16
1811	A family of carbon-based nanocomposite tubular structures created by in situ electron beam irradiation. <b>2012</b> , 6, 4500-7	30
1810	Microlitre scale solution processing for controlled, rapid fabrication of chemically derived graphene thin films. <b>2012</b> , 22, 3606	46

1809	Fabrication of graphene oxide nanosheets incorporated monolithic column via one-step room temperature polymerization for capillary electrochromatography. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 39-44	7.8	116
1808	One-step synthesis of graphene/polyallylamine-Au nanocomposites and their electrocatalysis toward oxygen reduction. <b>2012</b> , 89, 391-5		31
1807	Simultaneous electrochemical determination of uric acid, xanthine and hypoxanthine based on poly(L-arginine)/graphene composite film modified electrode. <b>2012</b> , 93, 320-5		93
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1804	Anomalous behaviors of visible luminescence from graphene quantum dots: interplay between size and shape. <b>2012</b> , 6, 8203-8		469
1803	Graphene oxide: preparation, functionalization, and electrochemical applications. <b>2012</b> , 112, 6027-53		2515
1802	Preparation of transparent, conductive films by graphene nanosheet deposition on hydrophilic or hydrophobic surfaces through control of the pH value. <b>2012</b> , 22, 2545-2552		37
1801	Using Molecular Level Modification To Tune the Conductivity of Graphene Papers. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 17939-17946	3.8	45
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1799	Edge-carboxylated graphene nanosheets via ball milling. <b>2012</b> , 109, 5588-93		496
1798	Three-dimensional porous graphene-based composite materials: electrochemical synthesis and application. <b>2012</b> , 22, 20968		187
1797	A nanoscale graphene oxide-peptide biosensor for real-time specific biomarker detection on the cell surface. <b>2012</b> , 48, 9768-70		90
1796	Organic bulk heterojunction photovoltaic devices based on polythiophene-graphene composites. <b>2012</b> , 4, 4864-70		48
1795	Hyperbranched-polymer functionalization of graphene sheets for enhanced mechanical and dielectric properties of polyurethane composites. <b>2012</b> , 22, 7010		217
1794	Comparison study of PE epitaxy on carbon nanotubes and graphene oxide and PE/graphene oxide as amphiphilic molecular structure for solvent separation. <b>2012</b> , 258, 4614-4623		16
1793	A facile and efficient approach to decoration of graphene nanosheets with gold nanoparticles. <b>2012</b> , 258, 5348-5353		39
1792	Production of few-layer graphene through liquid-phase pulsed laser exfoliation of highly ordered pyrolytic graphite. <b>2012</b> , 258, 9092-9095		30

1791	One-pot hydrothermal synthesis of a mesoporous SiO <sub>2</sub> /graphene hybrid with tunable surface area and pore size. <b>2012</b> , 259, 566-573		51
1790	Optoelectronic properties of graphene oxide thin film processed by cost-effective route. <b>2012</b> , 259, 460-464		19
1789	Synthesis of Fe nanoparticles@graphene composites for environmental applications. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 225-226, 63-73	12.8	188
1788	Reduced graphene oxide/CdS for efficiently photocatalytic degradation of methylene blue. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 524, 5-12	5.7	123
1787	Hierarchical composites of sulfonated graphene-supported vertically aligned polyaniline nanorods for high-performance supercapacitors. <b>2012</b> , 215, 36-42		97
1786	Graphene oxide based fluorescent aptasensor for adenosine deaminase detection using adenosine as the substrate. <b>2012</b> , 37, 61-7		56
1785	Gemini surfactant assisted synthesis of two-dimensional metal nanoparticles/graphene composites. <b>2012</b> , 48, 2119-21		52
1784	One-pot green synthesis of Ag nanoparticles-graphene nanocomposites and their applications in SERS, H <sub>2</sub> O <sub>2</sub> , and glucose sensing. <b>2012</b> , 2, 538-545		250
1783	High throughput modification of chemically reduced graphene oxides by a conjugated block copolymer in non-polar medium. <b>2012</b> , 22, 25183		22
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1781	Poly(9,9'-diethylfluorene carbazole) functionalized with reduced graphene oxide: convenient synthesis using nitrogen-based nucleophiles and potential applications in optical limiting. <b>2012</b> , 18, 14384-91		26
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1779	Graphene nanostructures toward clean energy technology applications. <b>2012</b> , 1, 317-336		29
1778	Porphyin functionalized graphene nanosheets-based electrochemical aptasensor for label-free ATP detection. <b>2012</b> , 22, 23900		61
1777	Facile preparation route for graphene oxide reinforced polyamide 6 composites via in situ anionic ring-opening polymerization. <b>2012</b> , 22, 24081		105
1776	Synthesis of graphene-wrapped CuO hybrid materials by CO <sub>2</sub> mineralization. <b>2012</b> , 14, 2391		47
1775	Peroxide induced tin oxide coating of graphene oxide at room temperature and its application for lithium ion batteries. <b>2012</b> , 23, 485601		36
1774	Solution-processed graphene materials and composites. <b>2012</b> , 37, 1167-1175		16

1773	An electrochemically reduced graphene oxide-based electrochemical immunosensing platform for ultrasensitive antigen detection. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 1871-8	7.8	159
1772	Green synthesis of Pt/CeO <sub>2</sub> /graphene hybrid nanomaterials with remarkably enhanced electrocatalytic properties. <b>2012</b> , 48, 2885-7		114
1771	Functionalization of graphene: covalent and non-covalent approaches, derivatives and applications. <b>2012</b> , 112, 6156-214		3041
1770	Indium tin oxide-coated glass modified with reduced graphene oxide sheets and gold nanoparticles as disposable working electrodes for dopamine sensing in meat samples. <b>2012</b> , 4, 4594-602		72
1769	Tailored graphene-encapsulated mesoporous Co <sub>3</sub> O <sub>4</sub> composite microspheres for high-performance lithium ion batteries. <b>2012</b> , 22, 17278		108
1768	One-Pot Controlled Synthesis of Homopolymers and Diblock Copolymers Grafted Graphene Oxide Using Couplable RAFT Agents. <b>2012</b> , 45, 1346-1355		54
1767	High-performance supercapacitors based on a graphene-activated carbon composite prepared by chemical activation. <b>2012</b> , 2, 7747		132
1766	Preparation of the hybrid film of poly(allylamine hydrochloride)-functionalized graphene oxide and gold nanoparticle and its application for laser-induced desorption/ionization of small molecules. <i>Langmuir</i> , <b>2012</b> , 28, 4453-8	4	45
1765	Preparation of Polymer Nanocomposites. <b>2012</b> , 53-102		
1764	Graphene/SnO <sub>2</sub> /polypyrrole ternary nanocomposites as supercapacitor electrode materials. <b>2012</b> , 2, 10268		164
1763	Electrochemically reduced graphene porous material as light absorber for light-driven thermoelectric generator. <b>2012</b> , 22, 17800		34
1762	Preparation of dispersible graphene through organic functionalization of graphene using a zwitterion intermediate cycloaddition approach. <b>2012</b> , 2, 12173		10
1761	CdS/CdSe quantum dot co-sensitized graphene nanocomposites via polymer brush templated synthesis for potential photovoltaic applications. <b>2012</b> , 4, 2109-16		39
1760	Synthesis of hexagonal-symmetry Iron oxyhydroxide crystals using reduced graphene oxide as a surfactant and their Li storage properties. <b>2012</b> , 14, 147-153		46
1759	A reduced graphene oxide based electrochemical biosensor for tyrosine detection. <b>2012</b> , 23, 335707		66
1758	Dispersions of non-covalently functionalized graphene with minimal stabilizer. <b>2012</b> , 6, 8857-67		291
1757	Aqueous dispersion of graphene sheets stabilized by ionic liquid-based polyether. <b>2012</b> , 290, 1785-1791		19
1756	Nanocomposites and macroscopic materials: assembly of chemically modified graphene sheets. <b>2012</b> , 41, 6160-77		262

1755	Chemoselective photodeoxidization of graphene oxide using sterically hindered amines as catalyst: synthesis and applications. <b>2012</b> , 6, 3027-33		73
1754	Singlet Oxygen Involved Luminol Chemiluminescence Catalyzed by Graphene Oxide. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 21622-21628	3.8	74
1753	A graphene oxide based biosensor for microcystins detection by fluorescence resonance energy transfer. <b>2012</b> , 38, 31-6		44
1752	Sensitive determination of bisphenol A base on arginine functionalized nanocomposite graphene film. <b>2012</b> , 80, 77-83		65
1751	Microwave-assisted synthesis of CoAl-layered double hydroxide/graphene oxide composite and its application in supercapacitors. <b>2012</b> , 85, 248-255		165
1750	Synthesis of CTAB-intercalated graphene/polypyrrole nanocomposites via in situ oxidative polymerization. <b>2012</b> , 162, 1815-1821		36
1749	Multiple pH-responsive graphene composites by non-covalent modification with chitosan. <b>2012</b> , 101, 151-6		20
1748	An improved synthesis route to graphene for molecular sensor applications. <b>2012</b> , 136, 304-308		26
1747	Comparison between metal ion and polyelectrolyte functionalization for electrophoretic deposition of graphene nanosheet films. <b>2012</b> , 2, 9665		24
1746	Electrodeposition of graphene-supported PdPt nanoparticles with enhanced electrocatalytic activity. <b>2012</b> , 24, 17-20		37
1745	Progress in graphene-based photoactive nanocomposites as a promising class of photocatalyst. <b>2012</b> , 4, 5814-25		128
1744	Fabrication of two-dimensional hybrid sheets by decorating insulating PANI on reduced graphene oxide for polymer nanocomposites with low dielectric loss and high dielectric constant. <b>2012</b> , 22, 23477		162
1743	Preparation and Photocatalysis Properties of TiO <sub>2</sub> /Graphene Nanocomposites. <b>2012</b> , 430-432, 1005-1008		1
1742	Water-soluble graphene sheets with large optical limiting response via non-covalent functionalization with polyacetylenes. <b>2012</b> , 22, 22624		31
1741	Ferrocene functionalized graphene: preparation, characterization and efficient electron transfer toward sensors of H <sub>2</sub> O <sub>2</sub> . <b>2012</b> , 22, 6165		73
1740	Carbon Nanostructures: Covalent and Macromolecular Chemistry. <b>2012</b> , 1-26		
1739	Two-Dimensional Polymers. <b>2012</b> , 841-900		1
1738	High-throughput, direct exfoliation of graphite to graphene via a cooperation of supercritical CO <sub>2</sub> and pyrene-polymers. <b>2012</b> , 2, 10632		46



1737	Carbon. <b>2012</b> , 41-79		
1736	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Natural Cellulose with the Assistance of the Ionic Liquid. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 16294-16299	3.8	65
1735	Fabrication of glutathione photoelectrochemical biosensor using graphene-CdS nanocomposites. <b>2012</b> , 137, 3697-703		70
1734	Analysis of flavonoids by graphene-based surface-assisted laser desorption/ionization time-of-flight mass spectrometry. <b>2012</b> , 137, 5809-16		39
1733	Chemistry and physics of a single atomic layer: strategies and challenges for functionalization of graphene and graphene-based materials. <b>2012</b> , 41, 97-114		43 <sup>2</sup>
1732	Surfactant free RGO/Pd nanocomposites as highly active heterogeneous catalysts for the hydrolytic dehydrogenation of ammonia borane for chemical hydrogen storage. <b>2012</b> , 4, 5597-601		177
1731	Redox chemistry between graphene oxide and mercaptan. <b>2012</b> , 22, 18564		21
1730	SOLUTION PROCESSED GRAPHENE THIN FILMS AND THEIR APPLICATIONS IN ORGANIC SOLAR CELLS. <b>2012</b> , 26, 1242004		7
1729	Polyacrylonitrile/graphene composite as a precursor to a sulfur-based cathode material for high-rate rechargeable LiB batteries. <b>2012</b> , 5, 6966		415
1728	An efficient method of producing stable graphene suspensions with less toxicity using dimethyl ketoxime. <b>2012</b> , 50, 5351-5358		23
1727	The formation of a peroxyantimonate thin film coating on graphene oxide (GO) and the influence of the GO on its transformation to antimony oxides and elemental antimony. <b>2012</b> , 50, 5463-5471		39
1726	Ultra-elastic recovery and low friction of amorphous carbon films produced by a dispersion of multilayer graphene. <b>2012</b> , 23, 5-9		17
1725	Selective Dibenzothiophene Adsorption on Graphene Prepared Using Different Methods. <b>2012</b> , 51, 10259-10264		45
1724	A facile one-step method to produce Ni/graphene nanocomposites and their application to the thermal decomposition of ammonium perchlorate. <b>2012</b> , 14, 428-434		63
1723	Synthesis and superior anode performance of TiO <sub>2</sub> @reduced graphene oxide nanocomposites for lithium ion batteries. <b>2012</b> , 22, 9759		121
1722	Functionalization of graphene by tetraphenylethylene using nitrene chemistry. <b>2012</b> , 2, 7042		25
1721	Reduced graphene oxide supported FePt alloy nanoparticles with high electrocatalytic performance for methanol oxidation. <b>2012</b> , 36, 1774		110
1720	Deposition of bio-mimicking graphene sheets with lotus leaf-like and cell-like structures on the nickel substrate. <b>2012</b> , 57, 3036-3039		3

1719	Preparation and cytocompatibility of polylactic acid/hydroxyapatite/graphene oxide nanocomposite fibrous membrane. <b>2012</b> , 57, 3051-3058		91
1718	A graphene oxide-rhodamine 6G nanocomposite as turn-on fluorescence probe for selective detection of DNA. <b>2012</b> , 4, 360		19
1717	Inkjet-Printed Reduced Graphene Oxide/Poly(Vinyl Alcohol) Composite Electrodes for Flexible Transparent Organic Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 7520-7525	3.8	85
1716	Dendronized graphenes: remarkable dendrimer size effect on solvent dispersity and bulk electrical conductivity. <b>2012</b> , 22, 3082		20
1715	Vertically aligned ZnO nanorods on hot filament chemical vapor deposition grown graphene oxide thin film substrate: solar energy conversion. <b>2012</b> , 4, 4405-12		80
1714	High quality graphene oxide-TiO <sub>2</sub> /Pt nanocomposites for efficient photocatalytic hydrogen evolution. <b>2012</b> , 22, 2292-2298		142
1713	Effects of concentration and temperature of EMIMBF <sub>4</sub> /acetonitrile electrolyte on the supercapacitive behavior of graphene nanosheets. <b>2012</b> , 22, 8853		87
1712	Growth of Silver Film on Graphene Oxide Pattern. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 17698-17704		6
1711	CeO <sub>2</sub> /rGO/Pt sandwich nanostructure: rGO-enhanced electron transmission between metal oxide and metal nanoparticles for anodic methanol oxidation of direct methanol fuel cells. <b>2012</b> , 4, 5738-43		59
1710	Fluorescent graphene oxide composites synthesis and its biocompatibility study. <b>2012</b> , 22, 9308		49
1709	Mechanical, thermal and swelling properties of poly(acrylic acid)-graphene oxide composite hydrogels. <b>2012</b> , 8, 1831-1836		152
1708	Three-dimensional graphene-polypyrrole hybrid electrochemical actuator. <b>2012</b> , 4, 7563-8		79
1707	Hemimicelles/admicelles supported on magnetic graphene sheets for enhanced magnetic solid-phase extraction. <b>2012</b> , 1257, 1-8		75
1706	Obstruction of photoinduced electron transfer from excited porphyrin to graphene oxide: a fluorescence turn-on sensing platform for iron (III) ions. <b>2012</b> , 7, e50367		30
1705	Uniform Decoration of Reduced Graphene Oxide Sheets with Gold Nanoparticles. <b>2012</b> , 2012, 1-8		26
1704	Synthesis of PNIPAM polymer brushes on reduced graphene oxide based on click chemistry and RAFT polymerization. <b>2012</b> , 50, 329-337		76
1703	Charge transport mechanism of graphite-nanosheet-loaded rubber nanocomposites. <b>2012</b> , 61, 51-54		49
1702	Chemical approaches toward graphene-based nanomaterials and their applications in energy-related areas. <b>2012</b> , 8, 630-46		335

1701	Graphene as a nanocarrier for tamoxifen induces apoptosis in transformed cancer cell lines of different origins. <b>2012</b> , 8, 131-43		54
1700	Highly wrinkled cross-linked graphene oxide membranes for biological and charge-storage applications. <b>2012</b> , 8, 423-31		93
1699	Unconventional layer-by-layer assembly: surface molecular imprinting and its applications. <b>2012</b> , 8, 517-23		49
1698	Polynorbornene dicarboximide/amine functionalized graphene hybrids for potential oxygen barrier films. <b>2012</b> , 50, 1611-1621		39
1697	Carbon nanomaterials for advanced energy conversion and storage. <b>2012</b> , 8, 1130-66		1149
1696	Facile synthesis of Au-nanoparticle/polyoxometalate/graphene tricomponent nanohybrids: an enzyme-free electrochemical biosensor for hydrogen peroxide. <b>2012</b> , 8, 1398-406		199
1695	Granum-like stacking structures with TiO <sub>2</sub> -graphene nanosheets for improving photo-electric conversion. <b>2012</b> , 8, 1762-70		42
1694	Extraordinary physical properties of functionalized graphene. <b>2012</b> , 8, 2138-51		153
1693	Graphene-oxide-based immunosensing through fluorescence quenching by peroxidase-catalyzed polymerization. <b>2012</b> , 8, 1994-9		27
1692	Highly sensitive multiple microRNA detection based on fluorescence quenching of graphene oxide and isothermal strand-displacement polymerase reaction. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 4587-93	7.8	228
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1690	Biodegradable nanocomposites of amyloid fibrils and graphene with shape-memory and enzyme-sensing properties. <b>2012</b> , 7, 421-7		361
1689	Efficient 3D conducting networks built by graphene sheets and carbon nanoparticles for high-performance silicon anode. <b>2012</b> , 4, 2824-8		133
1688	Nanotomy-based production of transferable and dispersible graphene nanostructures of controlled shape and size. <b>2012</b> , 3, 844		137
1687	Electrocatalytically active graphene-porphyrin MOF composite for oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 6707-13	16.4	817
1686	Graphene/organic nanocomposites. <b>2012</b> , 2, 64-98		507
1685	A novel approach for transferring water-dispersible graphene nanosheets into organic media. <b>2012</b> , 22, 11748		23
1684	Chemical Approaches to Produce Graphene Oxide and Related Materials. <b>2012</b> , 205-234		5

1683	pH-responsive reversible dispersion of biocompatible SWNT/graphene- $\beta$ amphiphile hybrids. <b>2012</b> , 22, 6623	22
1682	Significant enhancement of blue emission and electrical conductivity of N-doped graphene. <b>2012</b> , 22, 17992	159
1681	A facile route for constructing a graphene-chitosan-ZrO <sub>2</sub> composite for direct electron transfer and glucose sensing. <b>2012</b> , 2, 8172	43
1680	Electrically controlled electron transfer and resistance switching in reduced graphene oxide noncovalently functionalized with thionine. <b>2012</b> , 22, 16422	33
1679	Poly(urethane-co-vinyl imidazole)/graphene nanocomposites. <b>2012</b> , 33, 459-466	7
1678	Facile preparation of water-dispersible graphene nanosheets by covalent functionalization with poly(3-aminobenzene sulfonic acid). <b>2012</b> , 52, 1854-1861	16
1677	Fabrication of reduced graphene oxide hybrid materials that exhibit strong fluorescence. <b>2012</b> , 22, 14868	11
1676	The electrocapacitive properties of graphene oxide reduced by urea. <b>2012</b> , 5, 6391-6399	410
1675	Graphene oxide and its reduction: modeling and experimental progress. <b>2012</b> , 2, 2643	418
1674	Strategies for chemical modification of graphene and applications of chemically modified graphene. <b>2012</b> , 22, 12435	395
1673	Chemiluminescence excited photoelectrochemistry using graphene-quantum dots nanocomposite for biosensing. <b>2012</b> , 48, 6535-7	90
1672	Constructing sacrificial bonds and hidden lengths for ductile graphene/polyurethane elastomers with improved strength and toughness. <b>2012</b> , 22, 12479	136
1671	Nanoporous nitrogen doped carbon modified graphene as electrocatalyst for oxygen reduction reaction. <b>2012</b> , 22, 12810	131
1670	Surface decoration of graphene by grafting polymerization using graphene oxide as the initiator. <b>2012</b> , 22, 3982	62
1669	Preparation and Characterization of Graphene/Europium Oxide Composites. <b>2012</b> , 27, 494-498	20
1668	Graphene-based composite materials beneficial to wound healing. <b>2012</b> , 4, 2978-82	207
1667	Revisiting the Structure of Graphene Oxide for Preparing New-Style Graphene-Based Ultraviolet Absorbers. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2542-2549	15.6 37
1666	A leavening strategy to prepare reduced graphene oxide foams. <b>2012</b> , 24, 4144-50	701

1665	Ternary Nanocomposites of Porphyrin, Angular Au Nanoparticles and Reduced Graphene Oxide: Photocatalytic Synthesis and Enhanced Photocurrent Generation. <b>2012</b> , 4, 1079-1083	25	
1664	Graphene-CdS nanocomposites: facile one-step synthesis and enhanced photoelectrochemical cytosensing. <b>2012</b> , 18, 4974-81	130	
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1662	Tuning of n- and p-type reduced graphene oxide transistors with the same molecular backbone. <b>2012</b> , 18, 5155-9	22	
1661	A strategy for dramatically enhancing the selectivity of molecules showing aggregation-induced emission towards biomacromolecules with the aid of graphene oxide. <b>2012</b> , 18, 7278-86	48	
1660	Preparation and photophysical and photoelectrochemical properties of a covalently fixed porphyrin-chemically converted graphene composite. <b>2012</b> , 18, 4250-7	50	
1659	Can commonly used hydrazine produce n-type graphene?. <b>2012</b> , 18, 7665-70	37	
1658	Controllable deposition of a platinum nanoparticle ensemble on a polyaniline/graphene hybrid as a novel electrode material for electrochemical sensing. <b>2012</b> , 18, 7950-9	106	
1657	Designs, Synthesis, Characterization and Direct Electrochemistry of Zinc-Porphyrin Bearing Pyrene Noncovalent Functionalized Graphene Oxide Sheet. <b>2012</b> , 30, 1722-1728	7	
1656	Environmentally Friendly Photocatalytic Synthesis of Porphyrin/Ag Nanoparticles/Reduced Graphene Oxide Ternary Nanohybrids Having Superior Catalytic Activity. <b>2012</b> , 77, 545-550	20	
1655	Enhanced Optical Nonlinearity in Noncovalently Functionalized Amphiphilic Graphene Composites. <b>2012</b> , 77, 688-693	22	
1654	Enhanced Electrochemical Sensing for Persistent Organic Pollutants by Nanohybrids of Graphene Nanosheets that are Noncovalently Functionalized with Cyclodextrin. <b>2012</b> , 77, 844-849	8	
1653	Controlling size, amount, and crystalline structure of nanoparticles deposited on graphenes for highly efficient energy conversion and storage. <b>2012</b> , 5, 709-15	28	
1652	One-step functionalization of graphene with cyclopentadienyl-capped macromolecules via Diels-Alder click chemistry. <b>2012</b> , 22, 7929	45	
1651	Fabrication and characterization of free-standing polypyrrole/graphene oxide nanocomposite paper. <b>2012</b> , 14, 1	45	
1650	Preparation of graphene-encapsulated mesoporous metal oxides and their application as anode materials for lithium-ion batteries. <b>2012</b> , 22, 16318	85	
1649	Interfacing nanocarbons with organic and inorganic semiconductors: from nanocrystals/quantum dots to extended tetrathiafulvalenes. <i>Langmuir</i> , <b>2012</b> , 28, 11662-75	4	15
1648	Nanobionics: the impact of nanotechnology on implantable medical bionic devices. <b>2012</b> , 4, 4327-47	58	

1647	Nanoscale interface control for high-performance Li-ion batteries. <b>2012</b> , 8, 91-105	44
1646	Using glucosamine as a reductant to prepare reduced graphene oxide and its nanocomposites with metal nanoparticles. <b>2012</b> , 14, 1	19
1645	Functionalization of graphene and grafting of temperature-responsive surfaces from graphene by ATRP in water <b>2012</b> , 14, 1	35
1644	Tribological Behavior of UHMWPE Reinforced with Graphene Oxide Nanosheets. <b>2012</b> , 46, 55-63	156
1643	An efficient reduction route for the production of PdPt nanoparticles anchored on graphene nanosheets for use as durable oxygen reduction electrocatalysts. <b>2012</b> , 50, 265-274	153
1642	Annealing a graphene oxide film to produce a free standing high conductive graphene film. <b>2012</b> , 50, 659-667	236
1641	Investigating the influence of surfactants on the stabilization of aqueous reduced graphene oxide dispersions and the characteristics of their composite films. <b>2012</b> , 50, 3184-3194	81
1640	Anodic chlorine/nitrogen co-doping of reduced graphene oxide films at room temperature. <b>2012</b> , 50, 3333-3341	38
1639	Improved dispersibility of graphene oxide in o-dichlorobenzene by adding a poly(3-alkylthiophene). <b>2012</b> , 50, 4566-4572	27
1638	Facile synthesis of three-dimensional chitosan-graphene mesostructures for reactive black 5 removal. <b>2012</b> , 88, 61-67	87
1637	Adsorption of As (III) and As (V) from water using magnetite Fe <sub>3</sub> O <sub>4</sub> -reduced graphite oxide-MnO <sub>2</sub> nanocomposites. <b>2012</b> , 187, 45-52	264
1636	Co <sub>3</sub> O <sub>4</sub> nanocrystals on graphene oxide as a synergistic catalyst for degradation of Orange II in water by advanced oxidation technology based on sulfate radicals. <b>2012</b> , 123-124, 265-272	174
1635	Facile synthesis of Ag/GNS-g-PAA nanohybrids for antimicrobial applications. <b>2012</b> , 89, 147-51	39
1634	Agent-free synthesis of graphene oxide/transition metal oxide composites and its application for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 7594-7599	6.7 81
1633	Adsorption and removal of tetracycline antibiotics from aqueous solution by graphene oxide. <b>2012</b> , 368, 540-6	948
1632	Graphene oxide-thionine-Au nanostructure composites: Preparation and applications in non-enzymatic glucose sensing. <b>2012</b> , 14, 59-62	106
1631	Direct electrochemistry of cytochrome c on a graphene/poly (3,4-ethylenedioxythiophene) nanocomposite modified electrode. <b>2012</b> , 20, 1-3	55
1630	Differentiation between graphene oxide and reduced graphene by electrochemical impedance spectroscopy (EIS). <b>2012</b> , 20, 63-66	135

1629	Influences of the thickness of self-assembled graphene multilayer films on the supercapacitive performance. <b>2012</b> , 60, 41-49	21
1628	Polyelectrolyte functionalization of graphene nanosheets as support for platinum nanoparticles and their applications to methanol oxidation. <b>2012</b> , 59, 429-434	60
1627	Synthesis of a graphene-carbon nanotube composite and its electrochemical sensing of hydrogen peroxide. <b>2012</b> , 59, 509-514	166
1626	Direct electrochemistry and electrocatalysis of horseradish peroxidase immobilized in graphene oxide-Nafion nanocomposite film. <b>2012</b> , 65, 122-126	39
1625	The production of polyaniline/graphene hybrids for use as a counter electrode in dye-sensitized solar cells. <b>2012</b> , 66, 151-157	140
1624	In situ growth of Si nanowires on graphene sheets for Li-ion storage. <b>2012</b> , 74, 176-181	31
1623	Self assembled graphene/carbon nanotube/polystyrene hybrid nanocomposite by in situ microemulsion polymerization. <b>2012</b> , 48, 252-259	110
1622	Preparation, mechanical properties and biocompatibility of graphene oxide/ultrahigh molecular weight polyethylene composites. <b>2012</b> , 48, 1026-1033	151
1621	Electrochemical biosensor based on graphene oxide-Au nanoclusters composites for L-cysteine analysis. <b>2012</b> , 31, 49-54	179
1620	Layer-by-layer self-assembly of functionalized graphene nanoplates for glucose sensing in vivo integrated with on-line microdialysis system. <b>2012</b> , 32, 118-26	83
1619	DNA electrochemical biosensor based on thionine-graphene nanocomposite. <b>2012</b> , 35, 507-511	132
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1617	The synthesis and properties of ZnO-graphene nano hybrid for photodegradation of organic pollutant in water. <b>2012</b> , 132, 673-681	205
1616	Supercapacitor electrode based on three-dimensional graphene-polyaniline hybrid. <b>2012</b> , 134, 576-580	116
1615	Unzipped multiwalled carbon nanotubes-incorporated poly(l-lactide) nanocomposites with enhanced interface and hydrolytic degradation. <b>2012</b> , 134, 1059-1066	25
1614	A simple quenching method for preparing graphenes. <b>2012</b> , 66, 150-152	3
1613	Spectroscopic characterization of tetracationic porphyrins and their noncovalent functionalization with graphene. <b>2012</b> , 86, 467-71	39
1612	Enhancement of capacitance performance of flexible carbon nanofiber paper by adding graphene nanosheets. <b>2012</b> , 199, 373-378	140

1611	Shape-alterable and -recoverable graphene/polyurethane bi-layered composite film for supercapacitor electrode. <b>2012</b> , 213, 350-357	37
1610	Synthesis and characterization of a nanocomposite of goethite nanorods and reduced graphene oxide for electrochemical capacitors. <b>2012</b> , 185, 191-197	111
1609	Facile method to prepare Pd/graphene/polyaniline nanocomposite and used as new electrode material for electrochemical sensing. <b>2012</b> , 353-354, 80-86	46
1608	Reduced graphene oxide films as transparent counter-electrodes for dye-sensitized solar cells. <b>2012</b> , 86, 716-724	101
1607	Green polymer solar cell based on water-soluble poly [3-(potassium-6-hexanoate) thiophene-2, 5-diyl] and aqueous-dispersible noncovalent functionalized graphene sheets. <b>2012</b> , 97, 28-33	43
1606	Photoinduced hydrophobic surface of graphene oxide thin films. <b>2012</b> , 520, 3539-3543	13
1605	Spectroscopic studies of large sheets of graphene oxide and reduced graphene oxide monolayers prepared by Langmuir-Blodgett technique. <b>2012</b> , 520, 5991-5996	63
1604	Electrochemical actuator based on polypyrrole/sulfonated graphene/graphene tri-layer film. <b>2012</b> , 520, 6307-6312	21
1603	A Graphene Oxide/Rhodamine 6G Nanocomposite as Turn-on Fluorescence Probe for Selective Detection of DNA. <b>2012</b> , 25, 394-400	8
1602	Chemical functionalization of graphene and its applications. <b>2012</b> , 57, 1061-1105	1351
1601	The use of rhodamine B-decorated graphene as a reinforcement in polyvinyl alcohol composites. <b>2012</b> , 53, 673-680	69
1600	Composites of graphene and other nanocarbons with organogelators assembled through supramolecular interactions. <b>2012</b> , 18, 2890-901	51
1599	Fluorescent composite hydrogels of metal-organic frameworks and functionalized graphene oxide. <b>2012</b> , 18, 765-9	39
1598	Detection of a prognostic indicator in early-stage cancer using functionalized graphene-based peptide sensors. <b>2012</b> , 24, 125-31	126
1597	Highly photoactive, low bandgap TiO <sub>2</sub> nanoparticles wrapped by graphene. <b>2012</b> , 24, 1084-8	783
1596	Folded structured graphene paper for high performance electrode materials. <b>2012</b> , 24, 1089-94	576
1595	Facile fabrication of light, flexible and multifunctional graphene fibers. <b>2012</b> , 24, 1856-61	464
1594	A facile synthesis of graphene/metal (Pb, Zn, Cd, Mn) sulfide composites. <b>2012</b> , 47, 1026-1032	15



1593	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
1592	Grafting polymer brushes on graphene oxide for controlling surface charge states and templated synthesis of metal nanoparticles. <b>2013</b> , 127, 3074-3083	21
1591	Fabrication and characterization of poly(vinyl alcohol)/graphene oxide nanofibrous biocomposite scaffolds. <b>2013</b> , 127, 1885-1894	113
1590	Synthesis of a graphene oxide-polyacrylic acid nanocomposite hydrogel and its swelling and electroresponsive properties. <b>2013</b> , 3, 12751	77
1589	Removal of Th <sup>4+</sup> ions from aqueous solutions by graphene oxide. <b>2013</b> , 298, 1999-2008	31
1588	Self-assembly to monolayer graphene film with high electrical conductivity. <b>2013</b> , 22, 52-57	13
1587	Synthesis of reduced graphene oxide by an ionothermal method and electrochemical performance. <b>2013</b> , 3, 11807	24
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1584	Low dimensional nanocarbons [Chemistry and energy/electron transfer reactions. <b>2013</b> , 4, 4335	93
1583	Graphene oxide-TiO <sub>2</sub> composite filtration membranes and their potential application for water purification. <b>2013</b> , 62, 465-471	210
1582	Binder-free graphene foams for O <sub>2</sub> electrodes of Li-O <sub>2</sub> batteries. <b>2013</b> , 5, 9651-8	97
1581	A sensitive and selective pyrosine sensor based on palygorskite-graphene modified electrode. <b>2013</b> , 80-81, 52-55	3
1580	β-Cyclodextrin polymer functionalized reduced-graphene oxide: Application for electrochemical determination imidacloprid. <b>2013</b> , 108, 1-9	91
1579	Polyoxometalate-mediated green synthesis of a 2D silver nanonet/graphene nanohybrid as a synergistic catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11961	13 65
1578	Ultrasonic preparation of hierarchical graphene-oxide/TiO <sub>2</sub> composite microspheres for efficient photocatalytic hydrogen production. <b>2013</b> , 8, 2779-86	26
1577	Supercapacitors based on graphene nanosheets using different non-aqueous electrolytes. <b>2013</b> , 37, 2186	29
1576	High-performance NO <sub>2</sub> sensors based on chemically modified graphene. <b>2013</b> , 25, 766-71	360

1575	A "turn-on" fluorescent sensor for detection of Pb <sup>2+</sup> based on graphene oxide and G-quadruplex DNA. <b>2013</b> , 15, 12800-4		55
1574	A new function of graphene oxide emerges: inactivating phytopathogenic bacterium <i>Xanthomonas oryzae</i> pv. <i>Oryzae</i> . <b>2013</b> , 15, 1		91
1573	An investigation on high-temperature electrical transport properties of graphene-oxide nano-thinfilms. <b>2013</b> , 280, 903-908		13
1572	Amperometric detection of glucose using Prussian blue-graphene oxide modified platinum electrode. <b>2013</b> , 5, 1764		23
1571	Direct production of highly conductive graphene with a low oxygen content by a microwave-assisted solvothermal method. <b>2013</b> , 232, 346-355		38
1570	Pseudo and true visible light photocatalytic activity of nanotube titanate/graphene composites. <b>2013</b> , 15, 1		2
1569	Preparation of high-quality graphene sheets and their applications in highly conductive papers and a high-performance electromechanical actuator. <b>2013</b> , 1, 5970		18
1568	Reduced graphene oxide/CoSe <sub>2</sub> nanocomposites: hydrothermal synthesis and their enhanced electrocatalytic activity. <b>2013</b> , 48, 7913-7919		9
1567	Preparation of stable dispersions of chemically reduced graphene oxide through noncovalent interactions with poly(N-isopropyl acrylamide)-grafted pluronic copolymer. <b>2013</b> , 48, 3357-3362		2
1566	Nitrogen doped graphene nanosheet supported platinum nanoparticles as high performance electrochemical homocysteine biosensors. <b>2013</b> , 1, 4655-4666		50
1565	UV irradiation synthesis of an Au/graphene nanocomposite with enhanced electrochemical sensing properties. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 9189	13	123
1564	An overview of carbon materials for flexible electrochemical capacitors. <b>2013</b> , 5, 8799-820		235
1563	Graphene-based gas sensors. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 10078	13	778
1562	Efficient Dye-Sensitized Solar Cells with Potential-Tunable Organic Sulfide Mediators and Graphene-Modified Carbon Counter Electrodes. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3344-3352	15.6	18
1561	Direct exfoliation of graphite using a non-ionic polymer surfactant for fabrication of transparent and conductive graphene films. <b>2013</b> , 1, 1870		57
1560	Functionalized graphene hydrogel-based high-performance supercapacitors. <b>2013</b> , 25, 5779-84		520
1559	Synthesis of Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /reduced graphene oxide cathode material with high-rate capability. <i>Ionics</i> , <b>2013</b> , 19, 577-580	2.7	20
1558	Graphene oxide-based fluorescent "on/off" switch for visual bioassay using "molecular beacon"-hosted Hoechst dyes. <b>2013</b> , 5, 8278-82		26

1557	Synergistic effects of functionalized graphene and functionalized multi-walled carbon nanotubes on the electrical and mechanical properties of poly(ether sulfone) composites. <b>2013</b> , 49, 3125-3134		76
1556	Co <sub>3</sub> O <sub>4</sub> -reduced graphene oxide nanocomposite as an effective peroxidase mimetic and its application in visual biosensing of glucose. <b>2013</b> , 796, 92-100		154
1555	Carbon buffered-transition metal oxidenanoparticle-graphene hybrid nanosheets as high-performance anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6901-6907	13	27
1554	ATNRC/SET-NRC synthesis of graphene/polyisobutylene nanocomposites. <b>2013</b> , 51, 4505-4514		13
1553	Facile method to synthesize graphene-ZnS nanocomposites: preparation and application in bioelectrochemistry of hemoglobin. <b>2013</b> , 17, 2595-2602		15
1552	Dual functionalized graphene oxide serves as a carrier for delivering oligohistidine- and biotin-tagged biomolecules into cells. <b>2013</b> , 13, 1478-84		20
1551	Photoinduced Charge Separation and Recombination Processes in CdSe Quantum Dot and Graphene Oxide Composites with Methylene Blue as Linker. <b>2013</b> , 4, 2919-2925		11
1550	Preparation and characterization of Pt/functionalized graphene and its electrocatalysis for methanol oxidation. <b>2013</b> , 111, 275-283		42
1549	Preparation, Characterization, and Application of Graphene-Zinc Oxide Composites (GZnO) for the Adsorption of Cu(II), Pb(II), and Cr(III). <b>2013</b> , 58, 2395-2401		28
1548	Soluble reduced graphene oxide sheets grafted with polypyridylruthenium-derivatized polystyrene brushes as light harvesting antenna for photovoltaic applications. <b>2013</b> , 7, 7992-8002		35
1547	Palladium nanoparticles on electrochemically reduced chemically modified graphene oxide for non-enzymatic bimolecular sensing. <b>2013</b> , 3, 16109		12
1546	Electrochemical biosensors on platforms of graphene. <b>2013</b> , 49, 9526-39		134
1545	Mosaic-like monolayer of graphene oxide sheets decorated with tetrabutylammonium ions. <b>2013</b> , 7, 8082-8		27
1544	From graphite to graphene: direct liquid-phase exfoliation of graphite to produce single- and few-layered pristine graphene. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 10592	13	222
1543	Synthesis and photoluminescence of three-dimensional europium-complexed graphene macroassembly. <b>2013</b> , 1, 5772		24
1542	Preparation of reduced graphene oxide/poly(acrylamide) nanocomposite and its adsorption of Pb(II) and methylene blue. <i>Langmuir</i> , <b>2013</b> , 29, 10727-36	4	207
1541	Highly sensitive and selective amperometric sensor for iodate based on 9,10-phenanthrenequinone derived graphene. <b>2013</b> , 29, 132-138		3
1540	Solution-based production of graphene nano-platelets containing extremely low amounts of heteroatoms. <b>2013</b> , 25, 1-5		9

1539	Graphene-hemin hybrid material as effective catalyst for selective oxidation of primary C-H bond in toluene. <b>2013</b> , 3,		40
1538	Application of graphene-pyrenebutyric acid nanocomposite as probe oligonucleotide immobilization platform in a DNA biosensor. <b>2013</b> , 33, 3851-7		33
1537	Reduced graphene oxide-based hydrogels for the efficient capture of dye pollutants from aqueous solutions. <b>2013</b> , 56, 173-182		349
1536	Synthesis of graphene based noble metal composites for glucose biosensor. <b>2013</b> , 106, 277-280		22
1535	Metal free sensitizer and catalyst for dye sensitized solar cells. <b>2013</b> , 6, 3439		326
1534	Facile preparation of high-quality Pt/reduced graphene oxide nanoscrolls for methanol oxidation. <b>2013</b> , 24, 235401		24
1533	Enhanced electrochemical catalytic activity by copper oxide grown on nitrogen-doped reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13179	13	87
1532	The Preparation of Hierarchical Flowerlike NiO/Reduced Graphene Oxide Composites for High Performance Supercapacitor Applications. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 6304-6310	4.1	90
1531	Nacre-like graphene paper reinforced by polybenzimidazole. <b>2013</b> , 3, 20353		18
1530	Luminescent metal-organic framework-functionalized graphene oxide nanocomposites and the reversible detection of high explosives. <b>2013</b> , 5, 8533-40		55
1529	Highly controllable and green reduction of graphene oxide to flexible graphene film with high strength. <b>2013</b> , 48, 4797-4803		50
1528	A facile route to synthesize transition metal oxide/reduced graphene oxide composites and their lithium storage performance. <b>2013</b> , 3, 16597		56
1527	One-pot synthesis of graphene/SnO <sub>2</sub> /PEDOT ternary electrode material for supercapacitors. <b>2013</b> , 108, 118-126		83
1526	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
1525	Microwave-assisted in situ synthesis of reduced graphene oxide-BiVO <sub>4</sub> composite photocatalysts and their enhanced photocatalytic performance for the degradation of ciprofloxacin. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 250-251, 106-14	12.8	169
1524	Label-free fluorescent DNA biosensors based on metallointercalators and nanomaterials. <b>2013</b> , 64, 305-14		15
1523	Nitrogen-doped graphene/CdS hollow spheres nanocomposite with enhanced photocatalytic performance. <b>2013</b> , 34, 2138-2145		43
1522	Efficient surfactant-free and chemical reductant-free solvothermal deoxidation of solution-processable sub-stoichiometric graphene oxide. <b>2013</b> , 1, 7246		3

1521	Photoactivity enhancement of the Cd <sub>x</sub> Zn <sub>1-x</sub> S nanoparticles by immobilizing on the graphene under visible light irradiation. <b>2013</b> , 282, 930-936		26
1520	Seed-mediated synthesis and the photo-degradation activity of ZnO/graphene hybrids excluding the influence of dye adsorption. <b>2013</b> , 283, 654-659		31
1519	A rapid and efficient self-healing thermo-reversible elastomer crosslinked with graphene oxide. <b>2013</b> , 25, 5785-90		193
1518	Highly conductive and transparent reduced graphene oxide/aluminium doped zinc oxide nanocomposite for the next generation solar cell applications. <b>2013</b> , 36, 299-303		26
1517	In situ study of hydrogenation of graphene and new phases of localization between metal-insulator transitions. <b>2013</b> , 13, 5098-105		25
1516	Hydrogenation enabled scrolling of graphene. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 075301	3	45
1515	Significant thermal conductivity enhancement in graphene oxide papers modified with alkaline earth metal ions. <b>2013</b> , 103, 141913		22
1514	Simultaneous electrochemical determination of dihydroxybenzene isomers based on the hydrophilic carbon nanoparticles and ferrocene-derivative mediator dual sensitized graphene composite. <b>2013</b> , 92, 216-225		40
1513	Redox-Mediated Synthesis of Functionalised Graphene: A Strategy towards 2D Multifunctional Electrocatalysts for Energy Conversion Applications. <b>2013</b> , 78, 1296-1303		6
1512	Electrochemical reduction of graphene oxide and its electrochemical capacitive performance. <b>2013</b> , 17, 2857-2863		36
1511	Multiplex acute leukemia cytosensing using multifunctional hybrid electrochemical nanoprobe at a hierarchically nanoarchitected electrode interface. <b>2013</b> , 5, 10360-8		47
1510	Adsorption of uranium (VI) from aqueous solution using a novel graphene oxide-activated carbon felt composite. <b>2013</b> , 126, 253-8		139
1509	The synergetic effect of sulfonated graphene and silver as co-catalysts for highly efficient photocatalytic hydrogen production of ZnO nanorods. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14262	13	58
1508	Extremely stable all solution processed organic tandem solar cells with TiO <sub>2</sub> /GO recombination layer under continuous light illumination. <b>2013</b> , 5, 11051-7		25
1507	Mildly oxidized graphene: facile synthesis, characterization, and application as a matrix in MALDI mass spectrometry. <b>2013</b> , 19, 5561-5		50
1506	Graphene-coated pyrogenic carbon as an anode material for lithium battery. <b>2013</b> , 229, 399-403		16
1505	Large area films of alternating graphene-carbon nanotube layers processed in water. <b>2013</b> , 7, 10788-98		73
1504	Antioxidant activities and radical scavenging activities of flavonoids studied by the electrochemical methods and ESR technique based on the novel paramagnetic properties of poly(aniline-co-5-aminosalicylic acid). <b>2013</b> , 109, 663-670		12

1503	Green synthesis of silver nanoclusters supported on carbon nanodots: enhanced photoluminescence and high catalytic activity for oxygen reduction reaction. <b>2013</b> , 5, 12558-64		116
1502	Preparation of sulfonated poly(ether-ether-ketone) functionalized ternary graphene/AuNPs/chitosan nanocomposite for efficient glucose biosensor. <b>2013</b> , 48, 1724-1735		46
1501	A bifunctional approach for the preparation of graphene and ionic liquid-based hybrid gels. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 43-48	13	31
1500	The influence of boron dopant on the electrochemical properties of graphene as an electrode material and a support for Pt catalysts. <b>2013</b> , 114, 582-589		32
1499	Electrocatalytical reduction of m-nitrophenol on reduced graphene oxide modified glassy carbon electrode. <b>2013</b> , 114, 693-699		24
1498	Thermally reduced graphene: synthesis, characterization and dye removal applications. <b>2013</b> , 3, 24455		27
1497	Nearly monodisperse graphene quantum dots fabricated by amine-assisted cutting and ultrafiltration. <b>2013</b> , 5, 12098-103		57
1496	Noncovalent nanohybrid of cobalt tetraphenylporphyrin with graphene for simultaneous detection of ascorbic acid, dopamine, and uric acid. <b>2013</b> , 114, 341-346		44
1495	Synthesis of a hydrophilic poly-L-lysine/graphene hybrid through multiple non-covalent interactions for biosensors. <b>2013</b> , 1, 1406-1413		50
1494	Enhancing electrochemical performance of LiFePO <sub>4</sub> by in situ reducing flexible graphene. <b>2013</b> , 49, 955-959		5
1493	Nitrogen-doped graphene for dye-sensitized solar cells and the role of nitrogen states in triiodide reduction. <b>2013</b> , 6, 3356		243
1492	Basic aluminum sulfate@graphene hydrogel composites: preparation and application for removal of fluoride. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13101	13	59
1491	Graphene-based nanocomposites: preparation, functionalization, and energy and environmental applications. <b>2013</b> , 6, 3483		422
1490	One-step potentiodynamic synthesis of poly(1,5-diaminoanthraquinone)/reduced graphene oxide nanohybrid with improved electrocatalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13902	13	47
1489	Synthesis of carboxylate-functionalized graphene nanosheets for high dispersion of platinum nanoparticles based on the reduction of graphene oxide via 1-pyrenecarboxaldehyde. <b>2013</b> , 24, 395604		8
1488	Fabrication of graphene/polylactide nanocomposites with improved properties. <b>2013</b> , 88, 33-38		48
1487	Construction of 3D electrochemically reduced graphene oxide/silver nanocomposite film and application as nonenzymatic hydrogen peroxide sensor. <b>2013</b> , 27, 1-4		62
1486	Multifunctional nanostructured membrane for clean water reclamation from wastewater with various pH conditions. <b>2013</b> , 3, 15202		15

1485	Enzymatic fuel cells based on electrodeposited graphite oxide/cobalt hydroxide/chitosan composite-enzyme electrode. <b>2013</b> , 42, 342-8	46
1484	Sodium Humate Functionalized Graphene and Its Unique Reinforcement Effects for Rubber. <b>2013</b> , 52, 14592-14600	34
1483	Self-assembled graphene-dextran nanohybrid for killing drug-resistant cancer cells. <b>2013</b> , 5, 7181-9	58
1482	Enhanced photocatalytic performance of chemically bonded SiC-graphene composites for visible-light-driven overall water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 12733-12738	45
1481	Facilitated charge transport in ternary interconnected electrodes for flexible supercapacitors with excellent power characteristics. <b>2013</b> , 5, 11733-41	58
1480	Contribution of water molecules in the spontaneous release of protein by graphene sheets. <b>2013</b> , 14, 2902-9	6
1479	Immobilizing CdS quantum dots and dendritic Pt nanocrystals on thiolated graphene nanosheets toward highly efficient photocatalytic H <sub>2</sub> evolution. <b>2013</b> , 5, 9830-8	95
1478	Designed synthesis of graphene//TiO <sub>2</sub> //NiO <sub>2</sub> ternary nanocomposites as lithium-ion anode materials. <b>2013</b> , 37, 3671	38
1477	A hybrid functional nanoscaffold based on reduced graphene oxide//ZnO for the development of an amperometric biosensing platform. <b>2013</b> , 3, 25858	30
1476	Highly Efficient Graphene-Based Ternary Composite Catalyst with Polydopamine Layer and Copper Nanoparticles. <b>2013</b> , 78, 1483-1490	43
1475	Functional group-guided variable frequency characteristics of a graphene resonator. <b>2013</b> , 3, 16095	5
1474	In situ preparation, characterization, magnetic and catalytic studies of surfactant free RGO/Fe(x)Co(100-x) nanocomposites. <b>2013</b> , 42, 7936-42	8
1473	Graphene mobility enhancement by organosilane interface engineering. <b>2013</b> , 102, 183107	12
1472	All-carbon composite paper as a flexible conducting substrate for the direct growth of polyaniline particles and its applications in supercapacitors. <b>2013</b> , 4, 5785	29
1471	Interaction of Ru(phen)Cl with graphene oxide and its application for DNA detection both in vitro and in vivo. <b>2013</b> , 1, 4146-4151	31
1470	One-pot solvothermal synthesis of ZnSe//xN <sub>2</sub> H <sub>4</sub> /GS and ZnSe/N-GS and enhanced visible-light photocatalysis. <b>2013</b> , 5, 8414-22	32
1469	A graphene-multi-walled carbon nanotube hybrid supported on fluorinated tin oxide as a counter electrode of dye-sensitized solar cells. <b>2013</b> , 222, 518-525	67
1468	High performance supercapacitor electrode based on graphene paper via flame-induced reduction of graphene oxide paper. <b>2013</b> , 222, 52-58	158

1467	Self-assembly of graphene oxide on the surface of aluminum foil. <b>2013</b> , 37, 181-187		20
1466	In situ synthesis of the reduced graphene oxide-polyethyleneimine composite and its gas barrier properties. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 3739	13	192
1465	Applications of Graphene. <b>2013</b> , 333-437		6
1464	Ionic liquid-assisted exfoliation of graphite oxide for simultaneous reduction and functionalization to graphenes with improved properties. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2663	13	51
1463	Properties of Graphene. <b>2013</b> , 61-127		5
1462	Amplified fluorescent sensing of DNA using graphene oxide and a conjugated cationic polymer. <b>2013</b> , 14, 117-23		65
1461	Preparation of stable aqueous dispersion of graphene nanosheets and their electrochemical capacitive properties. <b>2013</b> , 264, 787-793		34
1460	Graphene and its derivatives for cell biotechnology. <b>2013</b> , 138, 72-86		40
1459	Graphene-related nanomaterials: tuning properties by functionalization. <b>2013</b> , 5, 4541-83		524
1458	Directing silicon-graphene self-assembly as a core/shell anode for high-performance lithium-ion batteries. <i>Langmuir</i> , <b>2013</b> , 29, 744-9	4	130
1457	Direct electrodeposition of a biocomposite consisting of reduced graphene oxide, chitosan and glucose oxidase on a glassy carbon electrode for direct sensing of glucose. <b>2013</b> , 180, 127-135		33
1456	An effective heterogeneous l-proline catalyst for the direct asymmetric aldol reaction using graphene oxide as support. <b>2013</b> , 298, 138-147		69
1455	Graphene quantum dots as a new substrate for immobilization and direct electrochemistry of glucose oxidase: application to sensitive glucose determination. <b>2013</b> , 41, 498-504		258
1454	Preparation of graphene/polymer composites by direct exfoliation of graphite in functionalised block copolymer matrix. <b>2013</b> , 51, 148-155		62
1453	Polymer composite of poly(vinyl phenol)-reduced graphene oxide reduced by vitamin C in low energy consuming write-once-read-many times memory devices. <b>2013</b> , 14, 175-181		50
1452	Rapid and non-destructive identification of graphene oxide thickness using white light contrast spectroscopy. <b>2013</b> , 52, 528-534		38
1451	Highly concentrated polycations-functionalized graphene nanosheets with excellent solubility and stability, and its fast, facile and controllable assembly of multiple nanoparticles. <b>2013</b> , 5, 663-70		43
1450	Comparison of independent research of China's top universities using bibliometric indicators. <b>2013</b> , 96, 259-276		15



1449	Electrolyte-induced precipitation of graphene oxide in its aqueous solution. <b>2013</b> , 391, 21-7	47
1448	Microbial reduction of graphene oxide by Escherichia coli: a green chemistry approach. <b>2013</b> , 102, 772-7	150
1447	Large-scale production of edge-selectively functionalized graphene nanoplatelets via ball milling and their use as metal-free electrocatalysts for oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 1386-93	16.4 497
1446	Three dimensional macroporous architectures and aerogels built of carbon nanotubes and/or graphene: synthesis and applications. <b>2013</b> , 42, 794-830	957
1445	Superior dispersions of reduced graphene oxide synthesized by using gallic acid as a reductant and stabilizer. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1481-1487	13 115
1444	A facile hydrothermal synthesis of graphene porous NiO nanocomposite and its application in electrochemical capacitors. <b>2013</b> , 91, 173-178	110
1443	Preparation and application of a highly sensitive nonenzymatic ethanol sensor based on nickel nanoparticles/Nafion/graphene composite film. <b>2013</b> , 177, 1035-1042	36
1442	A novel enzyme-free amperometric sensor for hydrogen peroxide based on Nafion/exfoliated graphene oxide-Co <sub>3</sub> O <sub>4</sub> nanocomposite. <b>2013</b> , 103, 322-9	73
1441	Dimension-tailored functional graphene structures for energy conversion and storage. <b>2013</b> , 5, 3112-26	86
1440	Ultratough artificial nacre based on conjugated cross-linked graphene oxide. <b>2013</b> , 52, 3750-5	249
1439	Comparative Response of Biosensing Platforms Based on Synthesized Graphene Oxide and Electrochemically Reduced Graphene. <b>2013</b> , 25, 154-165	39
1438	Graphene/polymer composites for energy applications. <b>2013</b> , 51, 231-253	199
1437	The effect of graphene on the lower critical solution temperature of poly(N-isopropylacrylamide). <b>2013</b> , 52, 326-336	38
1436	Pyrolytic synthesis of boron-doped graphene and its application as electrode material for supercapacitors. <b>2013</b> , 108, 666-673	172
1435	Supercapacitance of chemically converted graphene with composite pores. <b>2013</b> , 581, 64-69	14
1434	Electrodeposited graphene nano-stacks for biosensor applications. Surface groups as redox mediators for laccase. <b>2013</b> , 98, 75-81	21
1433	Ultrafast room-temperature reduction of graphene oxide to graphene with excellent dispersibility by lithium naphthalenide. <b>2013</b> , 63, 165-174	21
1432	Nonvolatile rewritable memory device based on solution-processable graphene/poly(3-hexylthiophene) nanocomposite. <b>2013</b> , 142, 626-632	31

1431	Preparation of poly(diallyldimethylammonium chloride)-functionalized graphene and its applications for H <sub>2</sub> O <sub>2</sub> and glucose sensing. <b>2013</b> , 111, 411-418		28
1430	One-pot synthesis of SnO <sub>2</sub> /reduced graphene oxide nanocomposite in ionic liquid-based solution and its application for lithium ion batteries. <b>2013</b> , 48, 4112-4117		23
1429	Reduced graphene oxide modified Ag/AgBr with enhanced visible light photocatalytic activity for methyl orange degradation. <b>2013</b> , 575, 81-85		38
1428	Triggered pH/redox responsive release of doxorubicin from prepared highly stable graphene with thiol grafted Pluronic. <b>2013</b> , 450, 208-17		39
1427	Synthesis and electrochemical properties of reduced graphene oxide via chemical reduction using thiourea as a reducing agent. <b>2013</b> , 113, 5-8		69
1426	How do the electrical properties of graphene change with its functionalization?. <b>2013</b> , 9, 341-50		230
1425	Nanoscale insight into the exfoliation mechanism of graphene with organic dyes: effect of charge, dipole and molecular structure. <b>2013</b> , 5, 4205-16		109
1424	Enhanced thermal conductivity of epoxy-graphene composites by using non-oxidized graphene flakes with non-covalent functionalization. <b>2013</b> , 25, 732-7		527
1423	Performance enhancement of ZnO photocatalyst via synergic effect of surface oxygen defect and graphene hybridization. <i>Langmuir</i> , <b>2013</b> , 29, 3097-105	4	397
1422	Direct electron transfer of Cytochrome c at mono-dispersed and negatively charged perylene-graphene matrix. <b>2013</b> , 107, 195-202		22
1421	Size-dependence of Raman scattering from graphene quantum dots: Interplay between shape and thickness. <b>2013</b> , 102, 053108		51
1420	Magnetic TiO <sub>2</sub> -graphene composite as a high-performance and recyclable platform for efficient photocatalytic removal of herbicides from water. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 252-253, 115-22	12.8	103
1419	Graphene oxide/poly-L-lysine assembled layer for adhesion and electrochemical impedance detection of leukemia K562 cancer cells. <b>2013</b> , 42, 112-8		91
1418	Direct electron transfer glucose biosensor based on glucose oxidase self-assembled on electrochemically reduced carboxyl graphene. <b>2013</b> , 43, 131-6		153
1417	A facile PVP-assisted hydrothermal fabrication of Fe <sub>2</sub> O <sub>3</sub> /Graphene composite as high performance anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 560, 208-214	5.7	66
1416	Supramolecular assembly of enzyme on functionalized graphene for electrochemical biosensing. <b>2013</b> , 45, 102-7		47
1415	Facile synthesis of graphene oxide hybrids bridged by copper ions for increased conductivity. <b>2013</b> , 1, 3084		44
1414	Synthesis of graphene nanosheets with incorporated silver nanoparticles for enzymeless hydrogen peroxide detection. <b>2013</b> , 5, 2298		36

1413	PNA-assembled graphene oxide for sensitive and selective detection of DNA. <b>2013</b> , 138, 3216-20		56
1412	Graphene oxide as a nanocarrier for loading and delivery of medicinal drugs and as a biosensor for detection of serum albumin. <b>2013</b> , 769, 40-8		36
1411	One-pot electrochemical synthesis of graphene by the exfoliation of graphite powder in sodium dodecyl sulfate and its decoration with platinum nanoparticles for methanol oxidation. <b>2013</b> , 51, 195-201		68
1410	Effect of carbon blacks filler addition on electrochemical behaviors of Co3O4/graphene nanosheets as a supercapacitor electrodes. <b>2013</b> , 89, 516-522		118
1409	Assembling tin dioxide quantum dots to graphene nanosheets by a facile ultrasonic route. <i>Langmuir</i> , <b>2013</b> , 29, 4111-8	4	47
1408	Bismuth oxyiodide-graphene nanocomposites with high visible light photocatalytic activity. <b>2013</b> , 398, 161-7		108
1407	Influence of synthesis conditions on properties of green-reduced graphene oxide. <b>2013</b> , 15, 1		28
1406	Calix[4,6,8]arenesulfonates functionalized reduced graphene oxide with high supramolecular recognition capability: fabrication and application for enhanced host-guest electrochemical recognition. <b>2013</b> , 5, 828-36		85
1405	In situ synthesis and properties of reduced graphene oxide/Bi nanocomposites: as an electroactive material for analysis of heavy metals. <b>2013</b> , 43, 293-6		144
1404	A novel sensing strategy for the detection of Staphylococcus aureus DNA by using a graphene oxide-based fluorescent probe. <b>2013</b> , 138, 2749-54		24
1403	Nanocomposites of graphene oxide-hydrated zirconium oxide for simultaneous removal of As(III) and As(V) from water. <b>2013</b> , 220, 98-106		190
1402	Ultrathin two-dimensional MnO2/graphene hybrid nanostructures for high-performance, flexible planar supercapacitors. <b>2013</b> , 13, 2151-7		751
1401	Reduced graphene oxide and PbS nanoparticles co-modified TiO2 nanotube arrays as a recyclable and stable photocatalyst for efficient degradation of pentachlorophenol. <b>2013</b> , 457, 78-84		47
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1216	Influence of lubricant filling on the dry sliding wear behaviors of hybrid PTFE/Nomex fabric composite. <b>2014</b> , 49, 3716-3724		21

1215	Multifunctional organically modified graphene with super-hydrophobicity. <b>2014</b> , 7, 418-433		59
1214	Graphene oxide from silk cocoon: a novel magnetic fluorophore for multi-photon imaging. <b>2014</b> , 4, 67-75		22
1213	The reduction of graphene oxide by elemental copper and its application in the fabrication of graphene supercapacitor. <b>2014</b> , 18, 1621-1626		40
1212	Fluorescent aptasensor for the determination of Salmonella typhimurium based on a graphene oxide platform. <b>2014</b> , 181, 647-653		90
1211	β-Cyclodextrin functionalized graphene material: A novel electrochemical sensor for simultaneous determination of 2-chlorophenol and 3-chlorophenol. <b>2014</b> , 195, 452-458		52
1210	Graphene nanoplatelets doped with N at its edges as metal-free cathodes for organic dye-sensitized solar cells. <b>2014</b> , 26, 3055-62		132
1209	Controllable fabrication of ultrathin free-standing graphene films. <b>2014</b> , 372, 20130017		14
1208	Removal of As(III) and As(V) from aqueous solutions using nanoscale zero valent iron-reduced graphite oxide modified composites. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 268, 124-31	12.8	256
1207	Preparation of graphene film decorated TiO <sub>2</sub> nano-tube array photoelectrode and its enhanced visible light photocatalytic mechanism. <b>2014</b> , 66, 450-458		107
1206	Facile synthesis of monodisperse porous Cu <sub>2</sub> O nanospheres on reduced graphene oxide for non-enzymatic amperometric glucose sensing. <b>2014</b> , 115, 103-108		95
1205	One-step synthesis of reduced graphene oxide/TiO <sub>2</sub> nanocubes composites with enhanced photocatalytic activity. <b>2014</b> , 124, 223-226		49
1204	Interactions between graphene sheets and ionic molecules used for the shear-assisted exfoliation of natural graphite. <b>2014</b> , 68, 195-209		23
1203	Porous CuCo <sub>2</sub> O <sub>4</sub> nanocubes wrapped by reduced graphene oxide as high-performance lithium-ion battery anodes. <b>2014</b> , 6, 6551-6		119
1202	25th anniversary article: Chemically modified/doped carbon nanotubes & graphene for optimized nanostructures & nanodevices. <b>2014</b> , 26, 40-66		432
1201	Nanostructured graphene/TiO <sub>2</sub> hybrids as high-performance anodes for microbial fuel cells. <b>2014</b> , 20, 7091-7		78
1200	A facile way to prepare ceramic-supported graphene oxide composite membrane via silane-graft modification. <b>2014</b> , 307, 631-637		127
1199	Graphene-based polyaniline nanocomposites: preparation, properties and applications. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 4491-4509	13	190
1198	Microwave-assisted hydrothermal synthesis of graphene based Au/TiO <sub>2</sub> photocatalysts for efficient visible-light hydrogen production. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3847-3855	13	285

1197	Conjugated polyfluorene imidazolium ionic liquids intercalated reduced graphene oxide for high performance supercapacitor electrodes. <b>2014</b> , 6, 119-128	35
1196	Functionalized graphene foam as electrode for improved electrochemical storage. <b>2014</b> , 18, 2359-2365	23
1195	Disposable electrochemical immunosensor based on peroxidase-like magnetic silica/graphene oxide composites for detection of cancer antigen 153. <b>2014</b> , 192, 317-326	47
1194	Larger-scale fabrication of N-doped graphene-fiber mats used in high-performance energy storage. <b>2014</b> , 252, 113-121	44
1193	Ultrathin Flexible Graphene Film: An Excellent Thermal Conducting Material with Efficient EMI Shielding. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4542-4548	15.6 577
1192	A facile approach of fabricating graphene-encapsulated ZnO microspheres and their synergic effect on photocatalytic performance. <b>2014</b> , 16, 1	10
1191	Efficient colorimetric pH sensor based on responsive polymer-quantum dot integrated graphene oxide. <b>2014</b> , 8, 2848-56	132
1190	Polyaniline Grafted Amino-Functionalized Graphene Nanocomposite with Excellent Electrochemical Performance for Supercapacitor Electrode Materials. <b>2014</b> , 789, 12-17	
1189	Direct synthesis of highly conductive poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonate) (PEDOT:PSS)/graphene composites and their applications in energy harvesting systems. <b>2014</b> , 7, 717-730	328
1188	Noncovalent Functionalization of Graphene. <b>2014</b> , 199-218	2
1187	Graphene materials and their use in dye-sensitized solar cells. <b>2014</b> , 114, 6323-48	331
1186	Green hydrothermal synthesis of CeO <sub>2</sub> NWs/reduced graphene oxide hybrid with enhanced photocatalytic activity. <b>2014</b> , 29, 8-13	12
1185	A graphene oxide membrane with highly selective molecular separation of aqueous organic solution. <b>2014</b> , 53, 6929-32	353
1184	Green fabrication of porous chitosan/graphene oxide composite xerogels for drug delivery. <b>2014</b> , 131, n/a-n/a	10
1183	Fabrication of a nanohybrid of conjugated polymer nanoparticles and graphene oxide for biosensing of trypsin. <b>2014</b> , 52, 1898-1904	9
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1181	B-Doped Graphene as an Electrochemically Superior Metal-Free Cathode Material As Compared to Pt over a Co(II)/Co(III) Electrolyte for Dye-Sensitized Solar Cell. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3586-3591	53
1180	Reinforcing epoxy resin through covalent integration of functionalized graphene nanosheets. <b>2014</b> , 25, 418-423	33

1179	Electrografting of N,N'-Dimethylphenothiazin-5-ium-3,7-diamine (Azure A) diazonium salt forming electrocatalytic organic films on gold or graphene oxide gold hybrid electrodes. <b>2014</b> , 116, 59-68	20
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1177	Effect of size variation on the cathodoluminescence characteristics of graphene quantum dots. <b>2014</b> , 14, S111-S114	3
1176	Preparation of silanized graphene/poly(methyl methacrylate) nanocomposites in situ copolymerization and its mechanical properties. <b>2014</b> , 97, 6-11	44
1175	ZnO and cobalt phthalocyanine hybridized graphene: efficient photocatalysts for degradation of rhodamine B. <b>2014</b> , 430, 257-64	59
1174	Amperometric Glucose Biosensor Based on Pt-Pd Nanoparticles Supported by Reduced Graphene Oxide and Integrated with Glucose Oxidase. <b>2014</b> , 26, 940-951	39
1173	Modifying glass fibers with graphene oxide: Towards high-performance polymer composites. <b>2014</b> , 97, 41-45	118
1172	Preparation of graphene oxide-based surface plasmon resonance biosensor with Au bipyramid nanoparticles as sensitivity enhancer. <b>2014</b> , 116, 211-8	34
1171	Solvothermal synthesis of V <sub>2</sub> O <sub>5</sub> /graphene nanocomposites for high performance lithium ion batteries. <b>2014</b> , 185, 7-12	49
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1166	Contrasting Magnetic Properties of Thermally and Chemically Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 13254-13259	3.8 27
1165	A cubic luminescent graphene oxide functionalized Zn-based metal-organic framework composite for fast and highly selective detection of Cu(2+) ions in aqueous solution. <b>2014</b> , 139, 764-70	20
1164	Direct electron transfer of glucose oxidase and biosensing for glucose based on PDDA-capped gold nanoparticle modified graphene/multi-walled carbon nanotubes electrode. <b>2014</b> , 52, 147-52	183
1163	An easy one-step electrosynthesis of graphene/polyaniline composites and electrochemical capacitor. <b>2014</b> , 67, 662-672	68
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1157	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
1156	Preparation of poly(vinylidene fluoride) films with excellent electric property, improved dielectric property and dominant polar crystalline forms by adding a quaternary phosphorus salt functionalized graphene. <b>2014</b> , 91, 1-7	66
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1151	Concomitant Thionation and Reduction of Graphene Oxide Through Solid/Gas Metathetical Sulfidation Reactions at High Temperatures. <b>2014</b> , 189, 721-737	9
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1148	Graphene Properties and Application. <b>2014</b> , 565-583	1
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1123	Water-soluble bioprobes with aggregation-induced emission characteristics for light-up sensing of heparin. <b>2014</b> , 2, 4134-4141		55
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1118	Dipole-directed assembly of Fe <sub>3</sub> O <sub>4</sub> nanoparticles into nanorings via oriented attachment. <b>2014</b> , 16, 1482-1487		14
1117	Mechanistic study of laser desorption/ionization of small molecules on graphene oxide multilayer films. <i>Langmuir</i> , <b>2014</b> , 30, 12675-83	4	28
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1097	Petal-shaped poly(3,4-ethylenedioxythiophene)/sodium dodecyl sulfate-graphene oxide intercalation composites for high-performance electrochemical energy storage. <b>2014</b> , 272, 203-210		41
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1086	Dual amplification of single nucleotide polymorphism detection using graphene oxide and nanoporous gold electrode platform. <b>2014</b> , 139, 5192-9	16
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1083	Functionalized graphene as sensitive electrochemical label in target-dependent linkage of split aptasensor for dual detection. <b>2014</b> , 62, 52-8	37
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1079	Effective and Stable CoNi Alloy-Loaded Graphene for Ethanol Oxidation in Alkaline Medium. <b>2014</b> , 161, F1194-F1201	20
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1075	Filter paper-derived carbon fiber/polyaniline composite paper for high energy storage applications. <b>2014</b> , 101, 152-158	37
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1067	A New Approach Towards Acid Catalysts with High Reactivity Based on Graphene Nanosheets. <b>2014</b> , 6, 2354-2363		55
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1064	A reactive graphene sheet in situ functionalized hyperbranched polyurethane for high performance shape memory material. <b>2014</b> , 4, 15146-15153		23
1063	Graphene-based materials functionalized with elastin-like polypeptides. <i>Langmuir</i> , <b>2014</b> , 30, 2223-9	4	23
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1061	Artificial photosynthesis over graphene-semiconductor composites. Are we getting better?. <b>2014</b> , 43, 8240-54		477
1060	Silver/Nitrogen-Doped Graphene Interaction and Its Effect on Electrocatalytic Oxygen Reduction. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 5868-5873	9.6	88
1059	Cross-Linking with Diamine Monomers To Prepare Composite Graphene Oxide-Framework Membranes with Varying d-Spacing. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2983-2990	9.6	510
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1057	One-pot synthesis of PrPO <sub>4</sub> nanorods/reduced graphene oxide composites and their photocatalytic properties. <b>2014</b> , 38, 2305		10
1056	Highly sensitive impedimetric aptasensor based on covalent binding of gold nanoparticles on reduced graphene oxide with good dispersity and high density. <b>2014</b> , 139, 5587-93		39
1055	Fabrication of noncovalently functionalized brick-like β-cyclodextrins/graphene composite dispersions with favorable stability. <b>2014</b> , 4, 2813-2819		12
1054	Comparison of adsorption isotherms of single-ringed compounds between carbon nanomaterials and porous carbonaceous materials over six-order-of-magnitude concentration range. <b>2014</b> , 79, 203-212		22

1053	Preparation of conductive polyaniline/graphene nanocomposites via in situ emulsion polymerization and product characterization. <b>2014</b> , 196, 199-205		65
1052	A novel reduction approach to fabricate quantum-sized SnO <sub>2</sub> -conjugated reduced graphene oxide nanocomposites as non-enzymatic glucose sensors. <b>2014</b> , 16, 8801-7		55
1051	Synthesis of substituted pyrenes by indirect methods. <b>2014</b> , 12, 212-32		91
1050	Fluorescence Resonance Energy Transfer in Partially and Fully Labeled Pyrene Dendronized Porphyrins Studied with Model Free Analysis. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 8280-8294	3.8	43
1049	Amino acid mediated functionalization and reduction of graphene oxide: synthesis and the formation mechanism of nitrogen-doped graphene. <b>2014</b> , 38, 3457-3467		48
1048	Simultaneous determination of catechol and hydroquinone based on poly(sulfosalicylic acid)/functionalized graphene modified electrode. <b>2014</b> , 44, 1059-1067		26
1047	Palladium nanoparticles on noncovalently functionalized graphene-based heterogeneous catalyst for the Suzuki-Miyaura and Heck-Mizoroki reactions in water. <b>2014</b> , 4, 48322-48330		29
1046	One-step synthesis of graphene/polypyrrole nanofiber composites as cathode material for a biocompatible zinc/polymer battery. <b>2014</b> , 6, 16679-86		52
1045	Graphene oxide-aluminium oxyhydroxide interaction and its application for the effective adsorption of fluoride. <b>2014</b> , 4, 53711-53721		98
1044	Electrochemical biosensor for simultaneous determination of guanine and adenine based on dopamine-melanin colloidal nanospheres-graphene composites. <b>2014</b> , 18, 2435-2442		39
1043	Graphene sheets decorated with ZnO nanoparticles as anode materials for lithium ion batteries. <b>2014</b> , 49, 6217-6224		28
1042	Enzyme-integrated cholesterol biosensing scaffold based on in situ synthesized reduced graphene oxide and dendritic Pd nanostructure. <b>2014</b> , 62, 357-64		26
1041	Chitosan/graphene oxide nanocomposite films with enhanced interfacial interaction and their electrochemical applications. <b>2014</b> , 314, 510-515		56
1040	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. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12526	13	28
1039	Highly sensitive and selective sensing platform based on $\pi$ - $\pi$ interaction between tricyclic aromatic hydrocarbons with thionine-graphene composite. <b>2014</b> , 826, 21-7		23
1038	Facile fabrication of three-dimensional highly ordered structural polyaniline-graphene bulk hybrid materials for high performance supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 813-823	13	122
1037	Solution ionic strength engineering as a generic strategy to coat graphene oxide (GO) on various functional particles and its application in high-performance lithium-sulfur (Li-S) batteries. <b>2014</b> , 14, 473-9		164
1036	Confined nanospace synthesis of less aggregated and porous nitrogen-doped graphene as metal-free electrocatalysts for oxygen reduction reaction in alkaline solution. <b>2014</b> , 6, 3023-30		40

1035	Combining the silver nanowire bridging effect with chemical doping for highly improved conductivity of CVD-grown graphene films. <b>2014</b> , 2, 5902	22
1034	Water-Soluble Reduced Graphene Oxide/Carboxymethylcellulose Hybrid Nanomaterial for Electrochemical Biosensor Design. <b>2014</b> , 79, 1334-1341	21
1033	An ice-templated, pH-tunable self-assembly route to hierarchically porous graphene nanoscroll networks. <b>2014</b> , 6, 9734-41	95
1032	Highly dispersible and stable copper terephthalate metal-organic framework-graphene oxide nanocomposite for an electrochemical sensing application. <b>2014</b> , 6, 11573-80	205
1031	The production of cobalt sulfide/graphene composite for use as a low-cost counter-electrode material in dye-sensitized solar cells. <b>2014</b> , 269, 473-478	48
1030	One-step synthesis of a sulfur/graphene composite with enhanced photocatalytic performance. <b>2014</b> , 314, 266-272	13
1029	Graphene-quantum-dot nonvolatile charge-trap flash memories. <b>2014</b> , 25, 255203	20
1028	Production of Pt nanoparticles-supported chelating group-modified graphene for direct methanol fuel cells. <b>2014</b> , 40, 2509-2517	6
1027	Green and facile microwave-assisted synthesis of TiO <sub>2</sub> /graphene nanocomposite and their photocatalytic activity for methylene blue degradation. <b>2014</b> , 88, 478-483	18
1026	Nafion-graphene composite film modified glassy carbon electrode for voltammetric determination of p-aminophenol. <b>2014</b> , 50, 243-252	13
1025	Synthesis and studies of properties of graphite oxide and thermally expanded graphite. <b>2014</b> , 50, 183-190	19
1024	Solvothermal Synthesis of Ni/Reduced Graphene Oxide Composites as Electrode Material for Supercapacitors. <b>2014</b> , 123, 560-568	34
1023	Enhanced electrocatalytic activity of oxygen reduction by cobalt-porphyrin functionalized with graphene oxide in an alkaline solution. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 4803-4811	55
1022	Electrochemical biosensing platform based on amino acid ionic liquid functionalized graphene for ultrasensitive biosensing applications. <b>2014</b> , 62, 134-9	46
1021	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
1020	Crystalline properties, dielectric response and thermal stability of in-situ reduced graphene oxide/poly(vinylidene fluoride) nanocomposites. <b>2014</b> , 21, 1446-1454	11
1019	The electrochemical synthesis and properties of poly(aniline-co-diphenylamine and 5-aminosalicylic acid) with p-type doping and n-type doping. <b>2014</b> , 144, 243-253	4
1018	Thermoelectric properties of unoxidized graphene/Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> composites synthesized by exfoliation/re-assembly method. <b>2014</b> , 8, 357-361	9



1017	Caffeine-assisted facile synthesis of platinum@palladium core-shell nanoparticles supported on reduced graphene oxide with enhanced electrocatalytic activity for methanol oxidation. <b>2014</b> , 142, 343-350		54
1016	Hydrothermal synthesis of CaIn <sub>2</sub> S <sub>4</sub> -reduced graphene oxide nanocomposites with increased photocatalytic performance. <b>2014</b> , 6, 12877-84		47
1015	PAM/graphene/Ag ternary hydrogel: synthesis, characterization and catalytic application. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11319-11333	13	81
1014	The electrocapacitive properties of hierarchical porous reduced graphene oxide templated by hydrophobic CaCO <sub>3</sub> spheres. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 451-459	13	42
1013	The electrocatalytic oxidation of glucose on the bimetallic Au-Ag particles-modified reduced graphene oxide electrodes in alkaline solutions. <b>2014</b> , 133, 335-346		47
1012	Paper-like N-doped graphene films prepared by hydroxylamine diffusion induced assembly and their ultrahigh-rate capacitive properties. <b>2014</b> , 115, 461-470		18
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1010	Amplified inhibition of the electrochemical signal of graphene@rhodamine nanocomposites using silica nanopores for ultrasensitive electrochemical immunoassays. <b>2014</b> , 6, 2080-2085		10
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1008	Morphology-controlled graphene nanosheets as anode material for lithium-ion batteries. <b>2014</b> , 132, 172-179		48
1007	Structure and properties of nanocomposites based on PTT-block-PTMO copolymer and graphene oxide prepared by in situ polymerization. <b>2014</b> , 50, 69-77		35
1006	Multilayer super-short carbon nanotube/reduced graphene oxide architecture for enhanced supercapacitor properties. <b>2014</b> , 247, 396-401		67
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1000	Colloidal suspensions of N-modified graphene nano-platelets in water and organic solvent/water mixed systems. <b>2014</b> , 27, 1-4		15

999	A facile one-pot synthesis of TiO <sub>2</sub> /nitrogen-doped reduced graphene oxide nanocomposite as anode materials for high-rate lithium-ion batteries. <b>2014</b> , 133, 209-216		53
998	Direct synthesis of RGO/Cu <sub>2</sub> O composite films on Cu foil for supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, 745-753	5-7	93
997	Facile preparation of polypyrrole/graphene oxide nanocomposites with large areal capacitance using electrochemical codeposition for supercapacitors. <b>2014</b> , 263, 259-267		187
996	A sensitive electrochemical DNA biosensor based on silver nanoparticles-polydopamine@graphene composite. <b>2014</b> , 118, 130-137		78
995	High visible-photoactivity of spherical Cd <sub>0.5</sub> Zn <sub>0.5</sub> S coupled with graphene composite for decolorizing organic dyes. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 609, 46-53	5-7	19
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993	Enhanced electrochemiluminescence from luminol at carboxyl graphene for detection of $\alpha$ -fetoprotein. <b>2014</b> , 457, 59-64		21
992	Interaction of propidium iodide with graphene oxide and its application for live cell staining. <b>2014</b> , 71, 190-195		13
991	Chemistry with graphene and graphene oxide-challenges for synthetic chemists. <b>2014</b> , 53, 7720-38		605
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986	Enhancing NO <sub>2</sub> gas sensing performances at room temperature based on reduced graphene oxide-ZnO nanoparticles hybrids. <b>2014</b> , 202, 272-278		259
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962	Soluble Chemically Reduced Graphene Oxide Assembly with High-molecular-weight Poly(ethylene glycol) through Noncovalent Interaction. <b>2015</b> , 44, 542-544	2
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913	Trilayered Film with Excellent Tribological Performance: A Combination of Graphene Oxide and Perfluoropolyethers. <b>2015</b> , 60, 1		8
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905	Unique Morphology in Polylactide/Graphene Oxide Nanocomposites. <b>2015</b> , 54, 45-57	25
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900	Deciphering visible light photoreductive conversion of CO <sub>2</sub> to formic acid and methanol using waste prepared material. <b>2015</b> , 49, 2405-17	27
899	High-rate lithium storage capability of cupric-cobaltous oxalate induced by unavoidable crystal water and functionalized graphene oxide. <b>2015</b> , 282, 109-117	41
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891	In-situ growth of Cu nanoparticles on reduced graphene oxide nanosheets and their excellent catalytic performance. <i>Ceramics International</i> , <b>2015</b> , 41, 4056-4063	5.1	16
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889	Noncovalent functionalization of graphene with pyrene-terminated liquid crystalline polymer. <b>2015</b> , 72, 32-39		18
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885	Graphene-Based Photocatalysts for Energy Applications: Progress and Future Prospects. <b>2015</b> , 277-294		1
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883	An effective non-covalent grafting approach to functionalize individually dispersed reduced graphene oxide sheets with high grafting density, solubility and electrical conductivity. <b>2015</b> , 7, 3548-57		57
882	Mechanical properties of graphene films enhanced by homo-telechelic functionalized polymer fillers via $\pi$ -stacking interactions. <b>2015</b> , 71, 1-8		64
881	3D hierarchical porous graphene aerogels for highly improved adsorption and recycled capacity. <b>2015</b> , 194, 62-67		44
880	Precious-metal-free Co-Fe-O/rGO synergetic electrocatalysts for oxygen evolution reaction by a facile hydrothermal route. <b>2015</b> , 8, 659-64		62
879	Optical and electrical modeling of solar cells based on graphene/Si nanowires with radial p/n junctions. <b>2015</b> , 137, 146-153		24
878	Enhanced thermal and mechanical properties of epoxy composites by mixing noncovalently functionalized graphene sheets. <b>2015</b> , 72, 453-472		44
877	Graphene/tri-block copolymer composites prepared via RAFT polymerizations for dual controlled drug delivery via pH stimulation and biodegradation. <b>2015</b> , 69, 559-572		37
876	3-Aminopropyl-triethoxysilane Functionalized Graphene Oxide: A Highly Efficient and Recyclable Catalyst for Knoevenagel Condensation. <b>2015</b> , 145, 1000-1007		46
875	Removal of Pb(II) using silver nanoparticles deposited graphene oxide: equilibrium and kinetic studies. <b>2015</b> , 146, 1445-1453		13
874	Reduction of graphene oxide with the presence of polypropylene micro-latex for facile preparation of polypropylene/graphene nanosheet composites. <b>2015</b> , 293, 1495-1503		10



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871	Oxidized/reduced graphene nanoribbons facilitate charge transfer to the Fe(CN) <sub>6</sub> <sup>3-/4-</sup> redox couple and towards oxygen reduction. <b>2015</b> , 7, 6193-207	25
870	Improvement of work function and hole injection efficiency of graphene anode using CHF <sub>3</sub> plasma treatment. <b>2015</b> , 2, 014002	16
869	Enhanced cycling stability of spinel LiMn <sub>2</sub> O <sub>4</sub> cathode by incorporating graphene sheets. <b>2015</b> , 51, 125-133	3
868	Amplified electrochemical genotyping of single-nucleotide polymorphisms using a graphene-gold nanoparticles modified glassy carbon platform. <b>2015</b> , 5, 29285-29293	9
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866	Simple noncovalent hybridization of polyaniline with graphene and its application for pseudocapacitor. <b>2015</b> , 209, 60-67	15
865	Improvement of water softening efficiency in capacitive deionization by ultra purification process of reduced graphene oxide. <b>2015</b> , 15, 1397-1401	23
864	Influence of Surface-functionalized Graphene Oxide on the Cell Morphology of Poly(methyl methacrylate) Composite. <b>2015</b> , 31, 463-466	26
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859	Bovine Bactalbumin functionalized graphene oxide nano-sheet exhibits enhanced biocompatibility: A rational strategy for graphene-based targeted cancer therapy. <b>2015</b> , 134, 178-87	37
858	One-pot synthesis of reduced graphene oxide/zinc sulfide nanocomposite at room temperature for simultaneous determination of ascorbic acid, dopamine and uric acid. <b>2015</b> , 221, 750-759	53
857	Surface characterization and corrosion behavior of silanized magnesium coated with graphene for biomedical application. <b>2015</b> , 163, 229-235	27
856	Large-Area Semiconducting Graphene Nanomesh Tailored by Interferometric Lithography. <b>2015</b> , 5, 11463	22

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851	Effects of reduction methods on the structure and thermal conductivity of free-standing reduced graphene oxide films. <b>2015</b> , 58, 54-61		52
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845	Bioinspired engineering of honeycomb structure □Using nature to inspire human innovation. <b>2015</b> , 74, 332-400		315
844	Self-assembled two-dimensional nanofluidic proton channels with high thermal stability. <b>2015</b> , 6, 7602		158
843	Oxidation and degradation of graphitic materials by naphthalene-degrading bacteria. <b>2015</b> , 7, 13619-28		44
842	Synthesis of graphene/Fe <sub>3</sub> O <sub>4</sub> /NiO magnetic nanocomposites and its application in photocatalytic degradation the organic pollutants in wastewater. <b>2015</b> , 22, 1245-1253		17
841	Facile Preparation of Water-Dispersible Graphene Sheets Stabilized by Carboxylated Oligoanilines and Their Anticorrosion Coatings. <b>2015</b> , 7, 17641-8		156
840	Vertically oriented Ni <sub>3</sub> S <sub>2</sub> /RGO/Ni <sub>3</sub> S <sub>2</sub> nanosheets on Ni foam for superior supercapacitors. <b>2015</b> , 5, 63528-63536		36
839	Non-covalent functionalization of graphene oxide by polyindole and subsequent incorporation of Ag nanoparticles for electrochemical applications. <b>2015</b> , 355, 262-267		25
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834	A case study: effect of defects in CVD-grown graphene on graphene enhanced Raman spectroscopy. <b>2015</b> , 5, 62772-62777	16
833	Label free Detection of Vitamin B12 Based on Fluorescence Quenching of Graphene Oxide Nanolayer. <b>2015</b> , 23, 878-884	14
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827	Polymer solar cells based on poly(3-hexylthiophene) and fullerene: Pyrene acceptor systems. <b>2015</b> , 159, 46-55	19
826	Graphene wrapped copper-nickel nanospheres on highly conductive graphene film for use as counter electrodes of dye-sensitized solar cells. <b>2015</b> , 91, 153-160	30
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824	High-sensitive electrochemical sensor of Sudan I based on template-directed self-assembly of graphene-ZnSe quantum dots hybrid structure. <b>2015</b> , 215, 181-187	28
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822	Aminopyrene functionalized reduced graphene oxide as a supercapacitor electrode. <b>2015</b> , 5, 38111-38116	37
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820	Sensitive electrochemical immunosensor for Hefetoprotein based on graphene/SnO <sub>2</sub> /Au nanocomposite. <b>2015</b> , 71, 82-87	72

819	Interface engineering of ionic liquid integrated graphene in poly(vinylidene fluoride) matrix yielding magnificent improvement in mechanical, electrical and dielectric properties. <b>2015</b> , 65, 154-167		54
818	Ag nanocrystals anchored CeO <sub>2</sub> /graphene nanocomposite for enhanced supercapacitor applications. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 644, 534-544	5-7	67
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814	A novel magnetic palladium catalyst for the mild aerobic oxidation of 5-hydroxymethylfurfural into 2,5-furandicarboxylic acid in water. <b>2015</b> , 5, 3194-3202		104
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733	Cobalt Hydroxide/Heteroatom Doped Graphene Composite as Electrolyst for Oxygen Reduction Reaction. <b>2018</b> ,		
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724	Enhanced Antioxidant Activity of Bioactives in Colored Grains by Nano-Carriers in Human Lens Epithelial Cells. <b>2018</b> , 23,		4
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718	Anticancer Activity of Graphene Oxide/5-FU on CT26 dsRED Adenocarcinoma Cell Line. <b>2018</b> , 34, 2002-2007		2
717	Thionine Functionalized 3D Graphene Aerogel: Combining Simplicity and Efficiency in Fabrication of a Metal-Free Redox Supercapacitor. <b>2018</b> , 8, 1802869		94
716	Mechanochemically Assisted Synthesis of a Ru Catalyst for Hydrogen Evolution with Performance Superior to Pt in Both Acidic and Alkaline Media. <b>2018</b> , 30, e1803676		125
715	Bio-inspired FeN5 moieties anchored on a three-dimensional graphene aerogel to improve oxygen reduction catalytic performance. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18488-18497	13	32
714	Surface decorated cobalt sulfide as efficient catalyst for oxygen evolution reaction and its intrinsic activity. <b>2018</b> , 367, 43-52		24
713	Direct Synthesis of Graphene Quantum Dots with Different Fluorescence Properties by Oxidation of Graphene Oxide Using Nitric Acid. <b>2018</b> , 8, 1303		31
712	LiZnTiO/graphene nanocomposite as a high-performance anode material for lithium-ion batteries.. <b>2018</b> , 8, 31628-31632		5

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710	Enhanced electrochemical performances of polypyrrole/carboxyl graphene/carbon nanotubes ternary composite for supercapacitors. <b>2018</b> , 290, 1-11		37
709	Facile morphology controllable synthesis of PtPd nanorods on graphene-multiwalled carbon nanotube hybrid support as efficient electrocatalysts for oxygen reduction reaction. <b>2018</b> , 108, 187-194		11
708	Combining In Silico Design and Biomimetic Assembly: A New Approach for Developing High-Performance Dynamic Responsive Bio-Nanomaterials. <b>2018</b> , 30, e1802306		23
707	Graphene/carbon black/natural rubber composites prepared by a wet compounding and latex mixing process. <b>2018</b> , 47, 398-412		19
706	Highly active electrocatalyst of 3D Pd/reduced graphene oxide nanostructure for electro-oxidation of methanol and ethanol. <b>2018</b> , 94, 43-47		10
705	Graphene oxide resorcinol hybrid material as fluorescent chemosensor for detection of cerium ion. <b>2018</b> , 227, 154-157		12
704	Noncovalent Monolayer Modification of Graphene Using Pyrene and Cyclodextrin Receptors for Chemical Sensing. <b>2018</b> , 1, 2718-2726		19
703	Self-Assembly of Antisite Defectless nano-LiFePO @C/Reduced Graphene Oxide Microspheres for High-Performance Lithium-Ion Batteries. <b>2018</b> , 11, 2255-2261		18
702	Three-dimensional Tri-SNSs-layered electrodeposited reduced graphene oxide for ECL biosensing of DNA. <b>2018</b> , 188, 58-65		9
701	Strong Coupling of MoS Nanosheets and Nitrogen-Doped Graphene for High-Performance Pseudocapacitance Lithium Storage. <b>2018</b> , 14, e1704410		72
700	Phosphatidyl-assisted fabrication of graphene oxide nanosheets with multiple active sites for uranium(VI) capture. <b>2018</b> , 5, 1584-1594		13
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698	Growth of MoS2 Nanoflowers with Expanded Interlayer Distance onto N-Doped Graphene for Reversible Lithium Storage. <b>2018</b> , 5, 2263-2270		20
697	Synthesis of polyaniline/graphene/MoS2 nanocomposite for high performance supercapacitor electrode. <b>2018</b> , 150, 150-158		54
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691	Modular Preparation of Graphene-Based Functional Architectures through Two-Step Organic Reactions: Towards High-Performance Energy Storage. <b>2018</b> , 24, 18518-18528		10
690	Preparation of light-sensitive polymer/graphene composite via molecular recognition by Cyclodextrin. <b>2018</b> , 53, 14337-14349		9
689	Graphene-Based Nanosensors and Smart Food Packaging Systems for Food Safety and Quality Monitoring. <b>2018</b> , 267-306		10
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671	Strong, Conductive, Foldable Graphene Sheets by Sequential Ionic and $\pi$ -Bridging. <b>2018</b> , 30, e1802733		53
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667	Controlled fluorescence quenching by antibody-conjugated graphene oxide to measure tau protein. <b>2018</b> , 5, 171808		15
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663	Efficiently removing Pb(II) from wastewater by graphene oxide using foam flotation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 556, 266-272	5.1	24
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653	Non-destructive modification on Nafion membrane via in-situ inserting of sheared graphene oxide for direct methanol fuel cell applications. <b>2018</b> , 282, 362-368		29
652	Sensitive nonenzymatic detection of hydrogen peroxide at nitrogen-doped graphene supported-CoFe nanoparticles. <b>2018</b> , 188, 339-348		25
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646	Influence of graphene oxide on hydration characteristics of tricalcium silicate. <b>2019</b> , 31, 448-456		4
645	Tri-high designed graphene electrodes for long cycle-life supercapacitors with high mass loading. <b>2019</b> , 17, 349-357		42
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634	Direct Electrochemical Synthesis of Graphene Oxide/Cobalt Oxide Nanocomposite on Pencil Graphite Electrode for Highly Sensitive and Selective Detection of Insulin in Pharmaceutical Samples. <b>2019</b> , 166, B961-B968		21
633	A review on synthesis of graphene, h-BN and MoS <sub>2</sub> for energy storage applications: Recent progress and perspectives. <b>2019</b> , 12, 2655-2694		156
632	PVP-assisted growth of Ni-Co oxide on N-doped reduced graphene oxide with enhanced pseudocapacitive behavior. <b>2019</b> , 378, 122202		77
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627	A novel morphology of 3D graphene hydrogel nanotubes for high-performance nonenzymatic hydrogen peroxide sensor. <b>2019</b> , 79, 245-254		2
626	Promising Generative Adversarial Network Based Sinogram Inpainting Method for Ultra-Limited-Angle Computed Tomography Imaging. <b>2019</b> , 19,		13
625	Wearable, Antifreezing, and Healable Epidermal Sensor Assembled from Long-Lasting Moist Conductive Nanocomposite Organohydrogel. <b>2019</b> , 11, 41701-41709		53
624	Nile Blue Functionalized Graphene Aerogel as a Pseudocapacitive Negative Electrode Material across the Full pH Range. <b>2019</b> , 13, 12567-12576		35
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622	Ultrasonic-microwave assisted synthesis of GO/g-C <sub>3</sub> N <sub>4</sub> composites for efficient photocatalytic H <sub>2</sub> evolution. <b>2019</b> , 97, 105990		18

621	Synthesis of Fe <sub>3</sub> O <sub>4</sub> /graphene oxide/pristine graphene ternary composite and fabrication electrochemical sensor to detect dopamine and hydrogen peroxide. <b>2019</b> , 736, 136797		12
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616	Covalently linked porphyrin-graphene oxide nanocomposite: synthesis, characterization and catalytic activity. <b>2019</b> , 30, 19738-19751		0
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614	Quantitative Real-Time Evaluation of C/O Ratios and Stepwise Control of Deoxidization of Graphene Oxide Using Plasmonic-Based Electrochemical Spectroscopy. <b>2019</b> , 731-765		
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608	Defect-Driven Heterogeneous Electron Transfer between an Individual Graphene Sheet and Electrode. <b>2019</b> , 10, 5402-5407		3
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597	A highly sensitive biosensor based on Au NPs/rGO-PAMAM-Fc nanomaterials for detection of cholesterol. <b>2019</b> , 14, 835-849		17
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580	Review on advances in photocatalytic water disinfection utilizing graphene and graphene derivatives-based nanocomposites. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103132	6.8	62
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577	A simple one-step hydrothermal synthesis of cobalt nickel selenide/graphene nanohybrid as an advanced platinum free counter electrode for dye sensitized solar cell. <b>2019</b> , 312, 157-167		58
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575	Polyaniline nanotube/reduced graphene oxide aerogel as efficient counter electrode for quasi solid state dye sensitized solar cell. <b>2019</b> , 186, 360-369		26
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571	Preparation of graphene-based sensor and its application in human behavior monitoring. <b>2019</b> , 6, 075613		5
570	Isosteric Heat: Comparative Study between Clausius-Clapeyron, CSK and Adsorption Calorimetry Methods. <b>2019</b> , 7, 203		22
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563	Self-assembled free-standing graphene oxide hybrid films modified by silane functionalized TiO <sub>2</sub> nanotubes to increase their final Young's modulus. <b>2019</b> , 231, 114-120		2
562	Electrospinning fiberization of carbon nanotube hybrid sulfonated poly (ether ether ketone) ion conductive membranes for a vanadium redox flow battery. <b>2019</b> , 583, 93-102		30
561	A review on graphene-based nanocomposites for electrochemical and fluorescent biosensors.. <b>2019</b> , 9, 8778-8881		342
560	Room temperature production of graphene oxide with thermally labile oxygen functional groups for improved lithium ion battery fabrication and performance. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9646-9655	13	16
559	Dye-Sensitized Solar Cells: Past, Present and Future. <b>2019</b> , 49-119		
558	Nanoengineering mesoporous graphene-based anatase/bronze TiO <sub>2</sub> heterostructures for pseudocapacitance-enhanced lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 790, 683-692 <sup>5.7</sup>		7
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556	A novel electrochemical sensor based on Au nanoparticles/8-aminoquinoline functionalized graphene oxide nanocomposite for paraquat detection. <b>2019</b> , 30, 285502		6
555	Proanthocyanidin-Induced Horizontal Arrangement in Poly(vinyl alcohol)/Graphene Composites with Enhanced Mechanical Properties. <b>2019</b> , 304, 1900033		1
554	Literature Review. <b>2019</b> , 17-81		
553	Fabrication of aluminum matrix composites reinforced with Ni-coated graphene nanosheets. <b>2019</b> , 754, 437-446		34
552	Synergistic enhanced dielectric properties of PVDF nanocomposites containing $\alpha$ -oxo-pyrenebutyric acid functionalized graphene and BaTiO <sub>3</sub> nanofillers. <b>2019</b> , 13, 63-69		8
551	Multisulfonate hyperbranched polyglycerol functionalized graphene oxide as an efficient reusable catalyst for green synthesis of benzo[ <i>b</i> ]pyrano-[2,3-]phenazines under solvent-free conditions.. <b>2019</b> , 9, 7400-7410		12
550	Fabrication of uniform monolayers of graphene oxide on solid surfaces. <b>2019</b> , 7, 210-218		1

549	Functionalized-Graphene and Graphene Oxide: Fabrication and Application in Catalysis. <b>2019</b> , 661-727		3
548	Nanopolyaniline Coupled with an Anticorrosive Graphene as a 3D Film Electrocatalyst for Efficient Oxidation of Toluene Methyl C-H Bonds and Hydrogen Production at Low Voltage. <b>2019</b> , 25, 6963-6972		3
547	Response surface methodological evaluation and optimization for adsorption removal of ciprofloxacin onto graphene hydrogel. <b>2019</b> , 284, 124-130		23
546	Synergistic Effect of Graphene Oxide and Different Valence of Cations on Promoting Catalase Crystallization. <b>2019</b> , 19, 2838-2844		5
545	Comparison Between Functionalized Graphene and Carbon Nanotubes. <b>2019</b> , 177-204		11
544	Novel spinel nanocomposites of Ni <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanoparticles with N-doped graphene for lithium ion batteries. <b>2019</b> , 481, 200-208		11
543	Non-covalent cross-linking to boost the stability and permeability of graphene-oxide-based membranes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8085-8091	13	34
542	An ultrasensitive electrochemical sensor for quercetin based on 1-pyrenebutyrate functionalized reduced oxide graphene /mercapto-β-cyclodextrin /Au nanoparticles composite film. <b>2019</b> , 288, 88-95		22
541	Novel synthesis of copper nanoparticles supported on reduced graphene oxide and its application as a new catalyst for the decomposition of composite solid propellants.. <b>2019</b> , 9, 8480-8489		14
540	A Facile Method for Batch Preparation of Electrochemically Reduced Graphene Oxide. <i>Nanomaterials</i> , <b>2019</b> , 9,	5-4	14
539	Fully phosphorylated 3D graphene oxide foam for the significantly enhanced U(VI) sequestration. <b>2019</b> , 249, 434-442		28
538	Insights Into Graphene-Based Materials as Counter Electrodes for Dye-Sensitized Solar Cells. <b>2019</b> , 341-396		0
537	Printed Flexible Sensors. <b>2019</b> ,		1
536	Recent Advances in Growth and Modification of Graphene-Based Energy Materials: From Chemical Vapor Deposition to Reduction of Graphene Oxide. <b>2019</b> , 3, 1900071		18
535	Controlling covalent functionalization of graphene oxide membranes to improve enantioseparation performances. <b>2019</b> , 582, 83-90		32
534	The enhanced and polarized Raman spectra on the spherical aluminum powders encapsulated within graphene nanosheets. <b>2019</b> , 27, 279-288		
533	Graphene based adsorbents for remediation of noxious pollutants from wastewater. <b>2019</b> , 127, 160-180		246
532	ZnO nanosheets encapsulating graphene quantum dots with enhanced performance for dye-sensitized solar cell. <b>2019</b> , 840, 160-164		8

531	Carbon-Based Nanomaterials in Analytical Chemistry. <b>2019</b> , 345-374		2
530	An orderly assembled g-C <sub>3</sub> N <sub>4</sub> , rGO and Ni <sub>2</sub> P photocatalyst for efficient hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 10316-10327	6.7	25
529	Adsorption mechanism and effect of moisture contents on ciprofloxacin removal by three-dimensional porous graphene hydrogel. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 374, 195-202	12.8	57
528	Fabrication of 3D ultra-light graphene aerogel/Bi <sub>2</sub> WO <sub>6</sub> composite with excellent photocatalytic performance: A promising photocatalysts for water purification. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 97, 288-296	5.3	73
527	Fabrication of conductive Lignin/PAN carbon nanofibers with enhanced graphene for the modified electrodes. <b>2019</b> , 147, 262-275		55
526	Preparation of graphene by exfoliating graphite in aqueous fulvic acid solution and its application in corrosion protection of aluminum. <b>2019</b> , 543, 263-272		13
525	Freestanding hierarchical nickel molybdate@reduced graphene oxide@nickel aluminum layered double hydroxides nanoarrays assembled from well-aligned uniform nanosheets as binder-free electrode materials for high performance supercapacitors. <b>2019</b> , 544, 46-52		35
524	Mo-doped Li <sub>2</sub> ZnTi <sub>3</sub> O <sub>8</sub> @graphene as a high performance anode material for lithium-ion batteries. <b>2019</b> , 301, 319-324		19
523	Highly sensitivity and homogeneous SERS platforms based on 3D-GNF/AgNPs hybrid structures. <b>2019</b> , 6, 055033		3
522	Voltammetric immunosensor for E-cadherin promoter DNA methylation using a FeO-citric acid nanocomposite and a screen-printed carbon electrode modified with poly(vinyl alcohol) and reduced graphene oxide. <b>2019</b> , 186, 170		22
521	Functionalized nanographene oxide in biomedicine applications: bioinspired surface modifications, multidrug shielding, and site-specific trafficking. <b>2019</b> , 24, 749-762		6
520	Functionalized Graphene Nanocomposites for Water Treatment. <b>2019</b> , 91-107		5
519	A Highly Effective π-Stacking Strategy To Modify Black Phosphorus with Aromatic Molecules for Cancer Theranostics. <b>2019</b> , 11, 9860-9871		33
518	One pot solvothermal synthesis of novel solid state N-Doped TiO <sub>2</sub> /n-Gr for efficient energy storage devices. <b>2019</b> , 164, 88-97		7
517	Supramolecular Complexes of Graphene Oxide with Porphyrins: An Interplay between Electronic and Magnetic Properties. <b>2019</b> , 24,		16
516	Significantly Increased Photoresponsivity of WSe <sub>2</sub> -Based Transistors through Hybridization with Gold-Tetraphenylporphyrin as Efficient n-Type Dopant. <b>2019</b> , 5, 1800802		5
515	Graphene and Graphene Oxide-Based Composites for Removal of Organic Pollutants: A Review. <b>2019</b> , 64, 833-867		149
514	A review of studies using graphenes in energy conversion, energy storage and heat transfer development. <b>2019</b> , 184, 581-599		79

513	A dual-criterion optimization for sulfonated asphalt-assisted aqueous phase exfoliation to prepare graphene suitable for protective coating of aluminium. <b>2019</b> , 6, 1250j2		2
512	Synthesis of Graphene Hydrogel and Graphene Oxide/Polyaniline Composites for Asymmetric Supercapacitor. <b>2019</b> , 562, 012105		
511	Photosensitive free-standing ultra-thin carbyne-gold films. <b>2019</b> , 51, 1		
510	Bioinspired Ternary Artificial Nacre Graphene Oxide/Carboxyl Functionalized Single-Walled Carbon Nanotubes/Konjac Glucomannan with Enhanced Mechanical Properties.. <b>2019</b> , 2, 5544-5550		2
509	Real-time PCR for direct aptamer quantification on functionalized graphene surfaces. <b>2019</b> , 9, 19311		8
508	Enhancement of ultrafast nonlinear optical response of zinc selenide nanoparticle decorated reduced graphene oxide sheets. <b>2019</b> , 126, 233101		7
507	Morphological Change of Molecular Assemblies through On-Surface Chemical Reaction. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 29679-29685	3.8	
506	Nature of Oxygen-Containing Groups on Carbon for High-Efficiency Electrocatalytic CO Reduction Reaction. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 20451-20459	16.4	68
505	One-Step Preparation of Hyperbranched Polyether Functionalized Graphene Oxide for Improved Corrosion Resistance of Epoxy Coatings. <b>2019</b> , 9, 844		5
504	Sodium Fluoride-Assisted Hydrothermal Exfoliation of Graphite into Graphene as Filler of Epoxy Resin Coating To Protect Aluminum. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 27969-27977	3.8	4
503	The fabrication of a CoO/graphene oxide (GO)/polyacrylonitrile (PAN) nanofiber membrane for the degradation of Orange II by advanced oxidation technology.. <b>2019</b> , 9, 36517-36523		2
502	Preparation and microwave absorption performance of a flexible FeO/nanocarbon hybrid buckypaper and its application in composite materials.. <b>2019</b> , 9, 37870-37881		5
501	Long-term stably dispersed functionalized graphene oxide as an oil additive.. <b>2019</b> , 9, 39230-39241		4
500	Efficient dye nanofiltration of a graphene oxide membrane via combination with a covalent organic framework by hot pressing. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 24301-24310	13	41
499	Morphology-selective preparation and formation mechanism of few-layer graphene on Cu substrate by liquid-phase pulsed laser ablation. <b>2019</b> , 9, 125004		0
498	Re-Dispersible 1D and 2D Nanoparticle Solid Powders without any Surfactant. <b>2019</b> , 5, 163-168		2
497	Undamaged depositing large-area ZnO quantum dots/RGO films on photoelectrodes for the construction of pure Z-scheme. <b>2019</b> , 356, 781-790		33
496	Flower-like mesoporous nano NiCo <sub>2</sub> O <sub>4</sub> -decorated ERGO/Ni-NiO foam as electrode materials for supercapacitor. <b>2019</b> , 109, 10-20		9

495	Synthesis and characterization of oxidized CoMnAl-layered double hydroxide and graphene oxide nanocomposite as a more efficient electrocatalyst for oxygen evolution reaction. <b>2019</b> , 169, 31-39		16
494	Improved fracture toughness of epoxy resin reinforced with polyamide 6/graphene oxide nanocomposites prepared via in situ polymerization. <b>2019</b> , 171, 180-189		46
493	Enhancement of Dye-sensitized Solar Cells Efficiency Using Graphene Quantum Dots as Photoanode. <b>2019</b> , 40, 56-61		24
492	Free-standing graphene oxide membrane with tunable channels for efficient water pollution control. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 366, 659-668	12.8	31
491	A sensitive and selective molecularly imprinted electrochemical sensor based on Pd-Cu bimetallic alloy functionalized graphene for detection of amaranth in soft drink. <b>2019</b> , 197, 68-76		29
490	Simultaneous reduction and surface functionalization of graphene oxide and the application for rubber composites. <b>2019</b> , 136, 47375		9
489	Lineage-Specific Commitment of Stem Cells with Organic and Graphene Oxide Functionalized Nanofibers. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806694	15.6	8
488	Integration of 3D macroscopic graphene aerogel with 0D-2D AgVO <sub>3</sub> -g-C <sub>3</sub> N <sub>4</sub> heterojunction for highly efficient photocatalytic oxidation of nitric oxide. <b>2019</b> , 243, 576-584		39
487	Efficient visible-light-driven water remediation by 3D graphene aerogel-supported nitrogen-doped carbon quantum dots. <b>2019</b> , 335, 160-165		12
486	A rapid heat pressing strategy to prepare fluffy reduced graphene oxide films with meso/macropores for high-performance supercapacitors. <b>2019</b> , 361, 1437-1450		35
485	Seed-mediated growth of platinum nanoparticles anchored on chemically modified graphene and cationic polyelectrolyte composites for electrochemical multi-sensing applications. <b>2019</b> , 282, 780-789		15
484	Improving the Thermal Conductivity and Mechanical Properties of Two-component Room Temperature Vulcanized Silicone Rubber by Filling with Hydrophobically Modified SiO <sub>2</sub> -Graphene Nanohybrids. <b>2019</b> , 37, 189-196		10
483	Chemical Preparation and Functionalization Techniques of Graphene and Graphene Oxide. <b>2019</b> , 1-20		6
482	One-step preparation of Fe-doped Ni <sub>3</sub> S <sub>2</sub> /rGO@NF electrode and its superior OER performances. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 2664-2674	6.7	27
481	Interfacial engineering of 0D/2D SnS heterostructure onto nitrogen-doped graphene for boosted lithium storage capability. <b>2019</b> , 538, 116-124		16
480	Bio-Reduced Graphene Oxide as a Nanoscale Antimicrobial Coating for Medical Devices. <i>ACS Omega</i> , <b>2019</b> , 4, 387-397	3.9	25
479	Photoelectrochemical determination of the activity of alkaline phosphatase by using a CdS@graphene conjugate coupled to CoOOH nanosheets for signal amplification. <b>2019</b> , 186, 73		12
478	Supercapacitive performances of few-layer MoS <sub>2</sub> on reduced graphene oxides. <b>2019</b> , 23, 911-923		8

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476	Synthesis of silver phosphate/sillenite bismuth ferrite/graphene oxide nanocomposite and its enhanced visible light photocatalytic mechanism. <i>Separation and Purification Technology</i> , <b>2019</b> , 215, 490-499	8-9	35
475	Construction of hierarchical holey graphene/MnO <sub>2</sub> composites as potential electrode materials for supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 775, 1206-1212	5-7	47
474	Defective mesoporous carbon ceramic electrode modified graphene quantum dots as a novel surface-renewable electrode: The application to determination of zolpidem. <b>2019</b> , 832, 241-246		7
473	Conducting Nanomaterial Sensor Using Natural Receptors. <b>2019</b> , 119, 36-93		100
472	Improved performance of graphene/n-GaAs heterojunction solarcells by introducing an electron-blocking/hole-transporting layer. <b>2019</b> , 6, 016202		3
471	One-step hydrothermal synthesis of three-dimensional nitrogen-doped reduced graphene oxide hydrogels anchored PtPd alloyed nanoparticles for ethylene glycol oxidation and hydrogen evolution reactions. <b>2019</b> , 293, 504-513		122
470	Defective black Ti <sup>3+</sup> self-doped TiO <sub>2</sub> and reduced graphene oxide composite nanoparticles for boosting visible-light driven photocatalytic and photoelectrochemical activity. <b>2019</b> , 467-468, 45-55		49
469	Edge-Functionalized Graphene Nanoplatelets as Metal-Free Electrocatalysts for Dye-Sensitized Solar Cells. <b>2019</b> , 31, e1804440		29
468	Control of gas permeability by transforming the molecular structure of silk fibroin in multilayered nanocoatings for CO <sub>2</sub> adsorptive separation. <b>2019</b> , 573, 554-559		6
467	Extremely elastic and conductive N-doped graphene sponge for monitoring human motions. <b>2019</b> , 11, 1159-1168		20
466	Construction of novel electrochemical sensors based on bimetallic nanoparticle functionalized graphene for determination of sunset yellow in soft drink. <b>2019</b> , 833, 393-400		33
465	Two-dimensional pnictogens, their chemistry and applications. <b>2019</b> , 13, 8-24		24
464	Graphene oxide incorporated polypyrrole composite materials: optimizing the electropolymerization conditions for improved supercapacitive properties. <b>2019</b> , 30, 1109-1116		5
463	Synthesis and Surface Modification. <b>2019</b> , 27, 67-108		1
462	Ionic liquid-mediated functionalization of graphene-based materials for versatile applications: a review. <b>2019</b> , 4, 1-15		9
461	A novel electrochemiluminescent immunoassay for diclofenac using conductive polymer functionalized graphene oxide as labels and gold nanorods as signal enhancers. <b>2019</b> , 193, 184-191		18
460	Design of a three-dimensional-network Li <sub>2</sub> ZnTi <sub>3</sub> O <sub>8</sub> co-modified with graphene nanosheets and carbon nanotubes as a high performance anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 774, 581-585	5-7	7

459	Structure and Chemistry of 2D Materials. <b>2019</b> , 55-90		3
458	Edge-carboxylated graphene nanoplatelets as efficient electrode materials for electrochemical supercapacitors. <b>2019</b> , 142, 89-98		39
457	Graphene and graphene oxide-coated polyamide monofilament yarns for fiber-shaped flexible electrodes. <b>2019</b> , 110, 67-73		15
456	Enhanced photothermal bactericidal activity of chemically reduced graphene oxide stabilized by tripodal amphiphile. <b>2019</b> , 474, 111-117		9
455	Photocatalytic mineralization of antibiotics using 60%WO <sub>3</sub> /BiOCl stacked to graphene sand composite and chitosan. <b>2019</b> , 12, 4627-4645		54
454	Friction stir processing of squeeze cast A356 with surface compacted graphene nanoplatelets (GNPs) for the synthesis of metal matrix composites. <b>2020</b> , 769, 138517		31
453	Preparation and aggregate state regulation of co-assembly graphene oxide-porphyrin composite Langmuir films via surface-modified graphene oxide sheets. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 584, 124023	5.1	62
452	Toward Sustainable Chemical Processing With Graphene-Based Materials. <b>2020</b> , 195-229		
451	Self-limiting interactions in 2D/0D systems: A case study of graphene oxide and 12-tungstophosphoric acid nanocomposite. <b>2020</b> , 156, 166-178		6
450	An enzymatic performance for a new swift magnetically detachable bio-conjugate of <i>Candida rugosa</i> lipase with modified Fe <sub>3</sub> O <sub>4</sub> /graphene oxide nanocomposite. <b>2020</b> , 17, 367-382		0
449	AgCuTi/graphene-reinforced Cu foam: A novel filler to braze ZrB <sub>2</sub> -SiC ceramic to Inconel 600 alloy. <i>Ceramics International</i> , <b>2020</b> , 46, 531-537	5.1	8
448	Anticorrosion reinforcement of waterborne polyacrylate coating with nano-TiO <sub>2</sub> loaded graphene. <b>2020</b> , 137, 48733		4
447	Regulation of multiple energy transfer processes in a simple nano-system for sensitive telomerase detection. <b>2020</b> , 1097, 135-143		3
446	1-Pyrenemethanol derived nanocrystal reinforced graphene films with high thermal conductivity and flexibility. <b>2020</b> , 31, 065602		6
445	Recent Advances in Two-dimensional Materials for Electrochemical Energy Storage and Conversion. <b>2020</b> , 36, 10-23		27
444	Environmental friendly approach for facile synthesis of graphene-like nanosheets for photocatalytic activity. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 823, 153696	5.7	6
443	Ultrahigh Ion-Selective and Durable Nafion-NdZr Composite Layer Membranes for All-Vanadium Redox Flow Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1998-2007	8.3	24
442	A copper-based metal-organic framework/graphene nanocomposite for the sensitive and stable electrochemical detection of DNA bases. <b>2020</b> , 145, 1933-1942		18



441	TiO <sub>2</sub> /Diazonium/Graphene Oxide Composites: Synthesis and Visible-Light-Driven Photocatalytic Degradation of Methylene Blue. <b>2020</b> , 2020, 1-15	13
440	Discrimination of single nucleotide polymorphisms by magnetic functionalized graphene oxide-based microchip system. <b>2020</b> , 858, 113738	3
439	Synthesis and electrochemical performances of platinum decorated polydopamine-coated carbon nanotubes/graphene composites as fuel cell catalysts. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 822, 153586	8
438	Py-COOH modified g-C <sub>3</sub> N <sub>4</sub> nanosheets with enhanced visible-light photocatalytic H <sub>2</sub> production. <b>2020</b> , 504, 144486	9
437	Carbon nanomaterials. <b>2020</b> , 55-84	4
436	Influence of carboxymethyl cellulose content on structures and electrochemical behaviors of reduced graphene oxide films. <b>2020</b> , 330, 135219	6
435	Utilization of waste polyethylene terephthalate bottles to develop metal-organic frameworks for energy applications: A clean and feasible approach. <b>2020</b> , 248, 119251	31
434	Characterization and actuation behavior of SPS/SGO ion exchange polymer actuator based on PEDOT: PSS/SGO composite electrode. <b>2020</b> , 59, 687-701	0
433	Cube-shaped metal-nitrogen-carbon derived from metal-ammonia complex-impregnated metal-organic framework for highly efficient oxygen reduction reaction. <b>2020</b> , 158, 719-727	17
432	Construction of Class I Aldolases-like Carboxyl-Controlled-Graphene Oxide Supported 3-Aminopropyl-triethoxysilane Heterogeneous Catalysts for Aldol Reaction. <b>2020</b> , 150, 1230-1237	2
431	Enhanced mechanical properties and thermal conductivity of polyimide nanocomposites incorporating individualized boron-doped graphene. <b>2020</b> , 30, 457-464	6
430	Polypyrrole modified hierarchical porous CoS <sub>2</sub> @RGO aerogel electrode for ultrafast sodium storage. <b>2020</b> , 24, 81-91	4
429	Synthesis of magnetically reusable Fe <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> -N, P co-doped graphene quantum dot nanocomposites using hexachlorocyclophosphazene; high photoluminance property and photocatalytic promoter. <b>2020</b> , 9, 1380-1388	5
428	Enhanced removal of Eriochrome Black T in wastewater by zirconium-based MOF/graphene oxide. <b>2020</b> , 98, 90-97	13
427	Photocatalytic degradation of ketoconazole by Z-scheme AgPO/graphene oxide: response surface modeling and optimization. <b>2020</b> , 27, 250-263	8
426	Facile preparation of graphene oxide for low- $\beta$ -epoxy nanocomposites with improved thermal stability. <b>2020</b> , 31, 310-316	2
425	Ultra-stiff graphene oxide paper prepared by directed-flow vacuum filtration. <b>2020</b> , 158, 426-434	16
424	Graphene oxide-mesoporous SiO <sub>2</sub> hybrid composite for fast and efficient removal of organic cationic contaminants. <b>2020</b> , 158, 193-201	24

423	Photoluminescence and photo-induced conductivity in 2D siloxene nanosheet for optoelectronic applications. <b>2020</b> , 562, 453-460		1
422	A new electrochemical sensor for simultaneous detection of sulfamethoxazole and trimethoprim antibiotics based on graphene and ZnO nanorods modified glassy carbon electrode. <b>2020</b> , 159, 105440		23
421	Ultrastrong Carbon Nanotubes/Graphene Papers via Multiple $\pi$ -Cross-Linking. <b>2020</b> , 12, 47811-47819		8
420	Highly Active Carbon-Based Electrocatalysts for Dye-Sensitized Solar Cells: A Brief Review. <b>2020</b> , 2, 412-424		2
419	Modification of copper electrode with copper nanoparticles@ reduced graphene oxide Nile blue and its application in electrochemical CO <sub>2</sub> conversion. <b>2020</b> , 18, 100507		9
418	Surfactant-Mediated Morphological Evolution of MnCo Prussian Blue Structures. <b>2020</b> , 16, e2004614		18
417	Poly(lactic Acid-Graphene Oxide)-based Materials for Loading and Sustained Release of Poorly Soluble Pesticides. <i>Langmuir</i> , <b>2020</b> , 36, 12336-12345	4	10
416	Splenic Capture and Intracellular Biodegradation of Biological-Grade Graphene Oxide Sheets. <b>2020</b> , 14, 10168-10186		30
415	Fast and cost-effective room temperature synthesis of high quality graphene oxide with excellent structural intactness. <b>2020</b> , 25, e00198		0
414	A D-shaped fiber SPR sensor with a composite nanostructure of MoS <sub>2</sub> -graphene for glucose detection. <b>2020</b> , 219, 121324		34
413	Polyelectrolyte-functionalized reduced graphene oxide wrapped helical POMOF nanocomposites for bioenzyme-free colorimetric biosensing. <b>2020</b> , 220, 121373		11
412	Meshfree radial point interpolation method for the vibration and buckling analysis of FG-GPLRC perforated plates under an in-plane loading. <b>2020</b> , 221, 111000		26
411	Self-assembly and spectroscopic fingerprints of photoactive pyrenyl tectons on BN/Cu(111). <b>2020</b> , 11, 1470-1483		1
410	Facile synthesis of graphene oxide from graphite rods of recycled batteries by solution plasma exfoliation for removing Pb from water.. <b>2020</b> , 10, 41237-41247		4
409	Conductive Porous Laminated Vanadium Nitride as Carbon-Free Hosts for High-Loading Sulfur Cathodes in Lithium-Sulfur Batteries. <b>2020</b> ,		29
408	High-Performance Supercapacitor Electrode Obtained by Directly Bonding 2D Materials: Hierarchical MoS <sub>2</sub> on Reduced Graphene Oxide. <b>2020</b> , 7,		19
407	Nanosheet size-dependent rheology, microstructure, adsorption properties of graphene oxide-electrolyte dispersions and adsorbents. <b>2020</b> , 269, 116494		0
406	Recent progress on nanostructured carbon-based counter/back electrodes for high-performance dye-sensitized and perovskite solar cells. <b>2020</b> , 12, 17590-17648		25

405	Degradation of methylene blue and methyl violet using graphene oxide/NiO/β-cyclodextrin nanocomposites as photocatalyst. <b>2020</b> , 1-20		5
404	A super-resilient and highly sensitive graphene oxide/cellulose-derived carbon aerogel. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18376-18384	13	21
403	The characteristic and performance of reduced graphene oxide by marine bacterium <i>Pseudoalteromonas</i> sp. CF10-13. <i>Ceramics International</i> , <b>2020</b> , 46, 21699-21706	5-1	3
402	A combination of hydrothermal, intercalation and electrochemical methods for the preparation of high-quality graphene: Characterization and using to prepare graphene-polyurethane nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 848, 156495	5-7	5
401	Stability appraisalment of the alumina-brine nanofluid in the presence of ionic and non-ionic dispersants on the alumina nanoparticles surface as heat transfer fluids: Quantum mechanical study and Taguchi-optimized experimental analysis. <b>2020</b> , 319, 113898		7
400	Synthesis of CoO-Decorated Graphene Hollow Nanoballs for High-Performance Flexible Supercapacitors. <b>2020</b> , 12, 40426-40432		13
399	Effect of mercapto-silanes on the functional properties of highly amorphous vinyl alcohol composites with reduced graphene oxide and cellulose nanocrystals. <b>2020</b> , 200, 108458		9
398	Graphene impregnated electrospun nanofiber sensing materials: a comprehensive overview on bridging laboratory set-up to industry. <b>2020</b> , 7, 27		24
397	A novel method for graphene synthesis via electrochemical process and its utilization in organic photovoltaic devices. <b>2020</b> , 126, 1		4
396	Recent Developments in Graphene and Graphene Oxide: Properties, Synthesis, and Modifications: A Review. <b>2020</b> , 5, 10200-10219		34
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