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Graphene-based materials: synthesis, characterization, properties, and applications

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2092	Assembly of Graphene Oxide and Au <sub>0.7</sub> Ag <sub>0.3</sub> Alloy Nanoparticles on SiO <sub>2</sub> : A New Raman Substrate with Ultrahigh Signal-to-Background Ratio. <b>2011</b> , 115, 24080-24084		34
2091	Cobalt Oxide Nanowall Arrays on Reduced Graphene Oxide Sheets with Controlled Phase, Grain Size, and Porosity for Li-Ion Battery Electrodes. <b>2011</b> , 115, 8400-8406		181
2090	Nucleation Mechanism of Electrochemical Deposition of Cu on Reduced Graphene Oxide Electrodes. <b>2011</b> , 115, 15973-15979		40
2089	Surface enhanced Raman scattering of Ag or Au nanoparticle-decorated reduced graphene oxide for detection of aromatic molecules. <b>2011</b> , 2, 1817		230
2088	Single-layer graphene oxide sheet: a novel substrate for dip-pen nanolithography. <b>2011</b> , 47, 10070-2		15
2087	Highly qualified reduced graphene oxides: the best chemical reduction. <b>2011</b> , 47, 9681-3		55
2086	Synthesis of Ultrathin Silicon Nanosheets by Using Graphene Oxide as Template. <b>2011</b> , 23, 5293-5295		151
2085	Realization of size controllable graphene micro/nanogap with a micro/nanowire mask method for organic field-effect transistors. <b>2011</b> , 99, 103301		3
2084	Fabrication of a dispersible graphene/gold nanoclusters hybrid and its potential application in electrogenerated chemiluminescence. <b>2011</b> , 47, 11733-5		57
2083	Butterfly-shaped conjugated oligoelectrolyte/graphene oxide integrated assay for light-up visual detection of heparin. <b>2011</b> , 83, 7849-55		95
2082	In situ green synthesis of Au nanostructures on graphene oxide and their application for catalytic reduction of 4-nitrophenol. <b>2011</b> , 1, 1142		216
2081	Graphene growth with giant domains using chemical vapor deposition. <b>2011</b> , 13, 6933		15
2080	Synthesis of Au nanoparticles decorated graphene oxide nanosheets: noncovalent functionalization by TWEEN 20 in situ reduction of aqueous chloraurate ions for hydrazine detection and catalytic reduction of 4-nitrophenol. <b>2011</b> , 197, 320-6		157
2079	Production of stable aqueous dispersion of poly(3,4-ethylenedioxythiophene) nanorods using graphene oxide as a stabilizing agent and their application for nitrite detection. <b>2011</b> , 136, 4898-902		57
2078	Reduction of silver nanoparticles onto graphene oxide nanosheets with N,N-dimethylformamide and SERS activities of GO/Ag composites. <b>2011</b> , 13, 5571-5581		72
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2076	Preparation of novel 3D graphene networks for supercapacitor applications. <i>Small</i> , <b>2011</b> , 7, 3163-8	11	925

2075	Flexible and transparent electrothermal film heaters based on graphene materials. <i>Small</i> , <b>2011</b> , 7, 3186-92	311
2074	Bottom-up preparation of porous metal-oxide ultrathin sheets with adjustable composition/phases and their applications. <i>Small</i> , <b>2011</b> , 7, 3458-64	11 51
2073	Graphene - a promising material for organic photovoltaic cells. <b>2011</b> , 23, 5342-58	218
2072	A Mixed-Solvent Strategy for Efficient Exfoliation of Inorganic Graphene Analogues. <b>2011</b> , 123, 11031-11034	88
2071	Synthesis of Gold Square-like Plates from Ultrathin Gold Square Sheets: The Evolution of Structure Phase and Shape. <b>2011</b> , 123, 12453-12456	10
2070	Single-Layer Semiconducting Nanosheets: High-Yield Preparation and Device Fabrication. <b>2011</b> , 123, 11289-11293	183
2069	A mixed-solvent strategy for efficient exfoliation of inorganic graphene analogues. <b>2011</b> , 50, 10839-42	715
2068	Synthesis of gold square-like plates from ultrathin gold square sheets: the evolution of structure phase and shape. <b>2011</b> , 50, 12245-8	107
2067	Single-layer semiconducting nanosheets: high-yield preparation and device fabrication. <b>2011</b> , 50, 11093-7	1349
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2065	A general approach for the growth of metal oxide nanorod arrays on graphene sheets and their applications. <b>2011</b> , 17, 13912-7	62
2064	Inkjet printed graphene/metal phthalocyanine hybridmaterial for gas sensing applications. <b>2012</b> ,	
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2062	Arrangement and Dispersion of Rh and Pt Atoms on Graphene Oxide Sheets. <b>2012</b> , 41, 680-682	5
2061	Graphene-based materials for energy applications. <b>2012</b> , 37, 1265-1272	113
2060	Linear and nonlinear optical properties of modified graphene-based materials. <b>2012</b> , 37, 1283-1289	22
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2058	Functionalized graphene-coated cobalt nanoparticles for highly efficient surface-assisted laser desorption/ionization mass spectrometry analysis. <b>2012</b> , 84, 9268-75	49

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2056	3D graphene foam as a monolithic and macroporous carbon electrode for electrochemical sensing. <b>2012</b> , 4, 3129-33	264
2055	Design of Nanostructured Hybrid Materials Based on Carbon and Metal Oxides for Li Ion Batteries. <b>2012</b> , 116, 26685-26693	73
2054	Enhanced optical properties of graphene oxide-Au nanocrystal composites. <b>2012</b> , 28, 321-6	65
2053	Preparation, characterization, and application of electrochemically functional graphene nanocomposites by one-step liquid-phase exfoliation of natural flake graphite with methylene blue. <b>2012</b> , 5, 875-887	30
2052	Chapter 8: Dispersible Graphene Oxide Polymer Nanocomposites. <b>2012</b> , 179-210	2
2051	Fabrication of nanoelectrode ensembles by electrodeposition of Au nanoparticles on single-layer graphene oxide sheets. <b>2012</b> , 4, 2728-33	72
2050	A graphene-platinum nanoparticles-in-liquid composite catalyst for methanol-tolerant oxygen reduction reaction. <b>2012</b> , 5, 6923	112
2049	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
2048	Real-time DNA detection using Pt nanoparticle-decorated reduced graphene oxide field-effect transistors. <b>2012</b> , 4, 293-7	164
2047	Catalytic Growth of Graphene: Toward Large-Area Single-Crystalline Graphene. <b>2012</b> , 3, 2228-36	120
2046	Carbon nanomaterials field-effect-transistor-based biosensors. <b>2012</b> , 4, e23-e23	180
2045	A review and analysis of microwave absorption in polymer composites filled with carbonaceous particles. <b>2012</b> , 111, 061301	824
2044	Recent Advances in Fabrication and Characterization of Graphene-Polymer Nanocomposites. <b>2012</b> , 01, 30-49	172
2043	Three-dimensional assemblies of graphene prepared by a novel chemical reduction-induced self-assembly method. <b>2012</b> , 4, 7038-45	152
2042	One-step synthesis of metal nanoparticle decorated graphene by liquid phase exfoliation. <b>2012</b> , 22, 20342	47
2041	Tunable catalytic performance and selectivity of a nanoparticle-graphene composite through finely controlled nanoparticle loading. <b>2012</b> , 7, 2931-6	14
2040	Surface-Imprinting Sensor Based on Carbon Nanotubes/Graphene Composite for Determination of Bovine Serum Albumin. <b>2012</b> , 24, 2109-2116	37

2039	Preparation of electrochemically reduced graphene oxide-modified electrode and its application for determination of p-aminophenol. <b>2012</b> , 16, 2883-2889	29
2038	A method for joining individual graphene sheets. <b>2012</b> , 50, 4965-4972	19
2037	High efficiency enrichment of low-abundance peptides by novel dual-platform graphene@SiO <sub>2</sub> @PMMA. <b>2012</b> , 4, 6948-50	23
2036	p-Sulfonated calix[6]arene modified graphene as a 'turn on' fluorescent probe for L-carnitine in living cells. <b>2012</b> , 48, 4851-3	92
2035	Ortho-methylated tribenzotriquinacenes--paving the way to curved carbon networks. <b>2012</b> , 48, 1502-4	35
2034	Aminated graphene for DNA attachment produced via plasma functionalization. <b>2012</b> , 100, 233123	59
2033	In situ synthesis of a graphene/titanium nitride hybrid material with highly improved performance for lithium storage. <b>2012</b> , 22, 4938	65
2032	Fast and non-invasive conductivity determination by the dielectric response of reduced graphene oxide: an electrostatic force microscopy study. <b>2012</b> , 4, 7231-6	10
2031	Controlled positioning of nanoparticles on graphene by noninvasive AFM lithography. <b>2012</b> , 28, 12400-9	13
2030	Supramolecular graphene oxide-alkylamine hybrid materials: variation of dispersibility and improvement of thermal stability. <b>2012</b> , 36, 1733	39
2029	Nonlithographic Fabrication of Crystalline Silicon Nanodots on Graphene. <b>2012</b> , 116, 532-537	11
2028	AB-stacked multilayer graphene synthesized via chemical vapor deposition: a characterization by hot carrier transport. <b>2012</b> , 6, 1142-8	11
2027	Electronic noses for VOCs detection based on the nanoparticles hybridized graphene composites. <b>2012</b> ,	3
2026	Ethidium bromide-adsorbed graphene templates as a platform for preferential sensing of DNA. <b>2012</b> , 13, 3181-8	22
2025	Graphene-based materials for catalysis. <b>2012</b> , 2, 54-75	791
2024	Biomolecule-assisted, environmentally friendly, one-pot synthesis of CuS/reduced graphene oxide nanocomposites with enhanced photocatalytic performance. <b>2012</b> , 28, 12893-900	246
2023	Graphene quantum dots: an emerging material for energy-related applications and beyond. <b>2012</b> , 5, 8869	698
2022	Hyperbranched-polymer functionalization of graphene sheets for enhanced mechanical and dielectric properties of polyurethane composites. <b>2012</b> , 22, 7010	217

2021	In situ synthesis of magnetically recyclable graphene-supported Pd@Co core-shell nanoparticles as efficient catalysts for hydrolytic dehydrogenation of ammonia borane. <b>2012</b> , 22, 12468	136
2020	OWL-based nanomasks for preparing graphene ribbons with sub-10 nm gaps. <b>2012</b> , 12, 4734-7	15
2019	Electrochemical reduction of graphene oxide and its in situ spectroelectrochemical characterization. <b>2012</b> , 14, 14003-9	76
2018	Simultaneous electrochemical detection of multiple tumor markers based on dual catalysis amplification of multi-functionalized onion-like mesoporous graphene sheets. <b>2012</b> , 746, 70-6	50
2017	Microwave-assisted non-aqueous route to deposit well-dispersed ZnO nanocrystals on reduced graphene oxide sheets with improved photoactivity for the decolorization of dyes under visible light. <b>2012</b> , 125, 425-431	149
2016	A facile two-step electroreductive synthesis of anthraquinone/graphene nanocomposites as efficient electrocatalyst for O <sub>2</sub> reduction in neutral medium. <b>2012</b> , 22, 69-72	32
2015	Birch reduction of graphite. Edge and interior functionalization by hydrogen. <b>2012</b> , 134, 18689-94	100
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2011	An Effective Method for the Fabrication of Few-Layer-Thick Inorganic Nanosheets. <b>2012</b> , 124, 9186-9190	31
2010	An effective method for the fabrication of few-layer-thick inorganic nanosheets. <b>2012</b> , 51, 9052-6	453
2009	Synthesis of a MnO <sub>2</sub> Nanosheet/Graphene Flake Composite and Its Application as a Supercapacitor having High Rate Capability. <b>2012</b> , 77, 872-876	16
2008	Preparation of sandwich-structured graphene/mesoporous silica composites with C8-modified pore wall for highly efficient selective enrichment of endogenous peptides for mass spectrometry analysis. <b>2012</b> , 12, 2784-91	49
2007	Nanostructured metal-free electrochemical catalysts for highly efficient oxygen reduction. <i>Small</i> , <b>2012</b> , 8, 3550-66	11 518
2006	Preparation of MoS <sub>2</sub> /polyvinylpyrrolidone nanocomposites for flexible nonvolatile rewritable memory devices with reduced graphene oxide electrodes. <i>Small</i> , <b>2012</b> , 8, 3517-22	11 337
2005	Mildly reduced graphene oxide-Ag nanoparticle hybrid films for surface-enhanced Raman scattering. <b>2012</b> , 7, 205	17
2004	Micropatterning of graphene sheets: recent advances in techniques and applications. <b>2012</b> , 22, 8179	67

2003	Highly efficient electrolytic exfoliation of graphite into graphene sheets based on Li ions intercalation $\rightarrow$ expansion $\rightarrow$ microexplosion mechanism. <b>2012</b> , 22, 10452	92
2002	The synergistic effect of graphene and polyoxometalates enhanced electrocatalytic activities of Pt-[PEI-GNs/[PMo12O40]3] $\rightarrow$ h composite films regarding methanol oxidation. <b>2012</b> , 22, 23602	29
2001	Graphene oxide based conductive glue as a binder for ultracapacitor electrodes. <b>2012</b> , 22, 12993	36
2000	Preparation of dispersible graphene through organic functionalization of graphene using a zwitterion intermediate cycloaddition approach. <b>2012</b> , 2, 12173	10
1999	Rhodium $\rightarrow$ Nickel nanoparticles grown on graphene as highly efficient catalyst for complete decomposition of hydrous hydrazine at room temperature for chemical hydrogen storage. <b>2012</b> , 5, 6885	187
1998	Facile synthesis of Ag interlayer doped graphene by chemical vapor deposition using polystyrene as solid carbon source. <b>2012</b> , 4, 2041-7	66
1997	Chemoselective photodeoxidization of graphene oxide using sterically hindered amines as catalyst: synthesis and applications. <b>2012</b> , 6, 3027-33	73
1996	Solvent exfoliation of transition metal dichalcogenides: dispersibility of exfoliated nanosheets varies only weakly between compounds. <b>2012</b> , 6, 3468-80	535
1995	Synthesis of Co(OH)2/graphene/Ni foam nano-electrodes with excellent pseudocapacitive behavior and high cycling stability for supercapacitors. <b>2012</b> , 37, 11846-11852	148
1994	Electrochemical DNA biosensor for the detection of <i>Listeria monocytogenes</i> with dendritic nanogold and electrochemical reduced graphene modified carbon ionic liquid electrode. <b>2012</b> , 85, 145-151	54
1993	Synthesis of CTAB-intercalated graphene/polypyrrole nanocomposites via in situ oxidative polymerization. <b>2012</b> , 162, 1815-1821	36
1992	One-step preparation of ZnO nanoparticle-decorated reduced graphene oxide composites and their application to photocurrent generation. <b>2012</b> , 2, 1318	42
1991	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
1990	Graphene oxide sheath on Ag nanoparticle/graphene hybrid films as an antioxidative coating and enhancer of surface-enhanced Raman scattering. <b>2012</b> , 4, 6545-51	86
1989	Co3S4 hollow nanospheres grown on graphene as advanced electrode materials for supercapacitors. <b>2012</b> , 22, 21387	262
1988	A flexible UV nanosensor based on reduced graphene oxide decorated ZnO nanostructures. <b>2012</b> , 4, 2678-84	105
1987	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
1986	Facile synthesis of reduced graphene oxide films at the air $\rightarrow$ water interface and in situ loading of noble metal nanoparticles. <b>2012</b> , 3, 045002	6

1985	Unique synthesis of graphene-based materials for clean energy and biological sensing applications. <b>2012</b> , 57, 3000-3009		18
1984	One-step electrochemical preparation of graphene-based heterostructures for Li storage. <b>2012</b> , 22, 8455		67
1983	Effect of nitrogen doping on hydrogen storage capacity of palladium decorated graphene. <b>2012</b> , 28, 7826-33		218
1982	Highly-dispersed ultrafine Pt nanoparticles on graphene as effective hydrogenation catalysts. <b>2012</b> , 2, 5520		35
1981	Oxygen hole doping of nanodiamond. <b>2012</b> , 4, 6792-9		52
1980	Synthesis of Fe <sub>3</sub> O <sub>4</sub> and Pt nanoparticles on reduced graphene oxide and their use as a recyclable catalyst. <b>2012</b> , 4, 2478-83		124
1979	High-yield, large-scale production of few-layer graphene flakes within seconds: using chlorosulfonic acid and H <sub>2</sub> O <sub>2</sub> as exfoliating agents. <b>2012</b> , 22, 8775		79
1978	One-pot green hydrothermal synthesis of CuO@ZnO nanorod-decorated reduced graphene oxide composites and their application in photocurrent generation. <b>2012</b> , 2, 2227		48
1977	A facile approach to nanoarchitected three-dimensional graphene-based Li-Mn-O composite as high-power cathodes for Li-ion batteries. <b>2012</b> , 3, 513-23		24
1976	Fabrication of single- and multilayer MoS <sub>2</sub> film-based field-effect transistors for sensing NO at room temperature. <i>Small</i> , <b>2012</b> , 8, 63-7	11	1213
1975	Chemical approaches toward graphene-based nanomaterials and their applications in energy-related areas. <i>Small</i> , <b>2012</b> , 8, 630-46	11	335
1974	Engineered redox-responsive PEG detachment mechanism in PEGylated nano-graphene oxide for intracellular drug delivery. <i>Small</i> , <b>2012</b> , 8, 760-9	11	266
1973	Optical identification of single- and few-layer MoS <sub>2</sub> sheets. <i>Small</i> , <b>2012</b> , 8, 682-6	11	249
1972	Enhanced mechanical and thermal properties of rigid polyurethane foam composites containing graphene nanosheets and carbon nanotubes. <b>2012</b> , 61, 1107-1114		103
1971	Soluble reduced graphene oxide functionalized with conjugated polymer for heterojunction solar cells. <b>2012</b> , 50, 1663-1671		17
1970	Carbon nanomaterials for advanced energy conversion and storage. <i>Small</i> , <b>2012</b> , 8, 1130-66	11	1149
1969	A strong electronic coupling between graphene nanosheets and layered titanate nanoplates: a soft-chemical route to highly porous nanocomposites with improved photocatalytic activity. <i>Small</i> , <b>2012</b> , 8, 1038-48	11	109
1968	Assembly of graphene sheets into 3D macroscopic structures. <i>Small</i> , <b>2012</b> , 8, 2458-63	11	152



1967	Nanocomposites of graphene oxide and upconversion rare-earth nanocrystals with superior optical limiting performance. <i>Small</i> , <b>2012</b> , 8, 2271-6	11	75
1966	Mechanism studies on the superior optical limiting observed in graphene oxide covalently functionalized with upconversion NaYF <sub>4</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> nanoparticles. <i>Small</i> , <b>2012</b> , 8, 2163-8	11	56
1965	Graphene-oxide-based immunosensing through fluorescence quenching by peroxidase-catalyzed polymerization. <i>Small</i> , <b>2012</b> , 8, 1994-9	11	27
1964	Tuning the doping type and level of graphene with different gold configurations. <i>Small</i> , <b>2012</b> , 8, 3129-36	11	59
1963	Evidence of plasmonic coupling in gallium nanoparticles/graphene/SiC. <i>Small</i> , <b>2012</b> , 8, 2721-30	11	33
1962	Fabrication of flexible MoS <sub>2</sub> thin-film transistor arrays for practical gas-sensing applications. <i>Small</i> , <b>2012</b> , 8, 2994-9	11	725
1961	Graphene-based high-efficiency surface-enhanced Raman scattering-active platform for sensitive and multiplex DNA detection. <b>2012</b> , 84, 4622-7		169
1960	Biological and chemical sensors based on graphene materials. <b>2012</b> , 41, 2283-307		1384
1959	Graphene as a new carbon support for low-temperature fuel cell catalysts. <b>2012</b> , 123-124, 52-68		327
1958	Review on Recent Progress in Nitrogen-Doped Graphene: Synthesis, Characterization, and Its Potential Applications. <b>2012</b> , 2, 781-794		2727
1957	Graphene-based composites. <b>2012</b> , 41, 666-86		3116
1956	Control the size and surface chemistry of graphene for the rising fluorescent materials. <b>2012</b> , 48, 4527-39		356
1955	Single-layer MoS <sub>2</sub> phototransistors. <b>2012</b> , 6, 74-80		2704
1954	Electrochemically reduced single-layer MoS <sub>2</sub> nanosheets: characterization, properties, and sensing applications. <i>Small</i> , <b>2012</b> , 8, 2264-70	11	333
1953	From carbon nanotubes and silicate layers to graphene platelets for polymer nanocomposites. <b>2012</b> , 4, 4578-86		159
1952	Significant enhancement of blue emission and electrical conductivity of N-doped graphene. <b>2012</b> , 22, 17992		159
1951	Facile preparation of graphene-metal phthalocyanine hybrid material by electrolytic exfoliation. <b>2012</b> , 22, 17094		70
1950	Three-dimensional graphene oxide nanostructure for fast and efficient water-soluble dye removal. <b>2012</b> , 4, 922-7		521

1949	Photo-Fenton reaction of graphene oxide: a new strategy to prepare graphene quantum dots for DNA cleavage. <b>2012</b> , 6, 6592-9	420
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1947	Graphene-based electronic sensors. <b>2012</b> , 3, 1764	582
1946	A Facile Approach to Chemically Modified Graphene and its Polymer Nanocomposites. <b>2012</b> , 22, 2735-2743	211
1945	Two-dimensional nanoarchitectures for lithium storage. <b>2012</b> , 24, 4097-111	444
1944	Graphene oxide as a novel nanoplatfrom for enhancement of aggregation-induced emission of silole fluorophores. <b>2012</b> , 24, 4191-5	72
1943	Facile synthesis of a large quantity of graphene by chemical vapor deposition: an advanced catalyst carrier. <b>2012</b> , 24, 2491-5	67
1942	Spontaneous and fast growth of large-area graphene nanofilms facilitated by oil/water interfaces. <b>2012</b> , 24, 3958-64	58
1941	Polyvalent Immunostimulatory Nanoagents with Self-Assembled CpG Oligonucleotide-Conjugated Gold Nanoparticles. <b>2012</b> , 124, 1228-1232	17
1940	Linking Photo- and Redoxactive Phthalocyanines Covalently to Graphene. <b>2012</b> , 124, 6527-6531	7
1939	Clar's Aromatic Sextet and $\pi$ -Electron Distribution in Nanographene. <b>2012</b> , 124, 7348-7353	5
1938	Linking photo- and redoxactive phthalocyanines covalently to graphene. <b>2012</b> , 51, 6421-5	85
1937	Clar's aromatic sextet and $\pi$ -Electron distribution in nanographene. <b>2012</b> , 51, 7236-41	30
1936	Synthesis of dendritic platinum nanoparticles/lucigenin/reduced graphene oxide hybrid with chemiluminescence activity. <b>2012</b> , 18, 4823-6	28
1935	Can commonly used hydrazine produce n-type graphene?. <b>2012</b> , 18, 7665-70	37
1934	Stable and Water-Dispersible Graphene Nanosheets: Sustainable Preparation, Functionalization, and High-Performance Adsorbents for Pb <sup>2+</sup> . <b>2012</b> , 77, 379-386	36
1933	Enhanced Optical Nonlinearity in Noncovalently Functionalized Amphiphilic Graphene Composites. <b>2012</b> , 77, 688-693	22
1932	Graphene and its derivatives: switching ON and OFF. <b>2012</b> , 41, 4688-707	219

1931	Functionalized graphene oxide in enzyme engineering: a selective modulator for enzyme activity and thermostability. <b>2012</b> , 6, 4864-75	173
1930	Controlled synthesis of ZnS quantum dots and ZnS quantum flakes with graphene as a template. <b>2012</b> , 28, 9729-34	25
1929	Dual fluorescence of graphene oxide: a time-resolved study. <b>2012</b> , 116, 7308-13	60
1928	Focusing on energy and optoelectronic applications: a journey for graphene and graphene oxide at large scale. <b>2012</b> , 45, 598-607	280
1927	Restructuring of Graphene Oxide Sheets into Monodisperse Nanospheres. <b>2012</b> , 24, 2554-2557	28
1926	Functionalization of graphene and grafting of temperature-responsive surfaces from graphene by ATRP in water <b>2012</b> , 14, 1	35
1925	A functionalized graphene oxide-iron oxide nanocomposite for magnetically targeted drug delivery, photothermal therapy, and magnetic resonance imaging. <b>2012</b> , 5, 199-212	494
1924	The effect of the parent graphite on the structure of graphene oxide. <b>2012</b> , 50, 275-282	165
1923	The synthesis of a hybrid graphene/nickel/manganese mixed oxide and its performance in lithium-ion batteries. <b>2012</b> , 50, 518-525	99
1922	The reduction of graphene oxide. <b>2012</b> , 50, 3210-3228	3551
1921	Restoration of graphene from graphene oxide by defect repair. <b>2012</b> , 50, 2581-2587	205
1920	Size-controllable self-assembly of metal nanoparticles on carbon nanostructures in room-temperature ionic liquids by simple sputtering deposition. <b>2012</b> , 50, 3008-3014	41
1919	Structural evolution during annealing of thermally reduced graphene nanosheets for application in supercapacitors. <b>2012</b> , 50, 3572-3584	312
1918	Synthesis, characterization and electrochemical properties of functionalized graphene oxide. <b>2012</b> , 50, 4228-4238	128
1917	Facile electrochemical codeposition of clean graphene/Pd nanocomposite as an anode catalyst for formic acid electrooxidation. <b>2012</b> , 19, 21-24	86
1916	Differentiation between graphene oxide and reduced graphene by electrochemical impedance spectroscopy (EIS). <b>2012</b> , 20, 63-66	135
1915	Novel electrochemical catalysis as signal amplified strategy for label-free detection of neuron-specific enolase. <b>2012</b> , 31, 399-405	57
1914	Synthesis and characterization of graphene/nanosporous silica nanoparticle hybrids. <b>2012</b> , 160, 18-24	25

1913	Energetic graphene oxide: Challenges and opportunities. <b>2012</b> , 7, 137-152	235
1912	Dual amplified, sensitive electrochemical detection of pathogenic sequences based on biobarcode labels and functional graphene modified electrode. <b>2012</b> , 163, 267-271	17
1911	Comparative studies on single-layer reduced graphene oxide films obtained by electrochemical reduction and hydrazine vapor reduction. <b>2012</b> , 7, 161	66
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1718	A new insight into the in situ thermal reduction of graphene oxide dispersed in a polymer matrix. <b>2013</b> , 4, 1765	46
1717	Adsorptive remediation of environmental pollutants using novel graphene-based nanomaterials. <b>2013</b> , 226, 336-347	508
1716	Adsorption of divalent metal ions from aqueous solutions using graphene oxide. <b>2013</b> , 42, 5682-9	584

1715	Molecular architecture of cobalt porphyrin multilayers on reduced graphene oxide sheets for high-performance oxygen reduction reaction. <b>2013</b> , 52, 5585-9	226
1714	Graphene for Transparent Electrodes and Organic Electronic Devices. <b>2013</b> , 81-102	
1713	Simultaneous Voltammetric Determination of Captopril and Hydrochlorothiazide on a Graphene/Ferrocene Composite Carbon Paste Electrode. <b>2013</b> , 25, 1263-1270	27
1712	A graphene-based electrochemical sensor for sensitive detection of quercetin in foods. <b>2013</b> , 10, 841-849	22
1711	Graphene oxide scrolls on hydrophobic substrates fabricated by molecular combing and their application in gas sensing. <i>Small</i> , <b>2013</b> , 9, 382-6	11 50
1710	Self-assembled oligo(phenylene ethynylene)s/graphene nanocomposite with improved electrochemical performances for dopamine determination. <b>2013</b> , 767, 59-65	22
1709	Covalent functionalization of graphene with reactive intermediates. <b>2013</b> , 46, 181-9	308
1708	Solution-processable graphene quantum dots. <b>2013</b> , 14, 2627-40	29
1707	Effects of controllable biaxial strain on the Raman spectra of monolayer graphene prepared by chemical vapor deposition. <b>2013</b> , 102, 223112	43
1706	A remarkably simple characterization of glassy carbon-supported films of graphite, graphene oxide, and chemically converted graphene using Fe(CN) <sub>3</sub> <sup>4-</sup> /Fe(CN) <sub>6</sub> <sup>4-</sup> and O <sub>2</sub> as redox probes. <b>2013</b> , 3, 9550	32
1705	Light-controlled graphene-elastin composite hydrogel actuators. <b>2013</b> , 13, 2826-30	436
1704	Functional single-layer graphene sheets from aromatic monolayers. <b>2013</b> , 25, 4146-51	52
1703	One-pot polyol synthesis of graphene decorated with size- and density-tunable Fe <sub>3</sub> O <sub>4</sub> nanoparticles for porcine pancreatic lipase immobilization. <b>2013</b> , 60, 488-497	66
1702	One-step synthesis of Ni <sub>3</sub> S <sub>2</sub> nanorod@Ni(OH) <sub>2</sub> nanosheet core-shell nanostructures on a three-dimensional graphene network for high-performance supercapacitors. <b>2013</b> , 6, 2216-2221	503
1701	Simultaneous reduction and surface functionalization of graphene oxide via an ionic liquid for electrochemical sensors. <b>2013</b> , 49, 3336-8	32
1700	One-step solvothermal synthesis of an iron oxide/graphene magnetic hybrid material with high porosity. <b>2013</b> , 165, 234-239	31
1699	Polyaniline-Coupled Multifunctional 2D Metal Oxide/Hydroxide Graphene Nanohybrids. <b>2013</b> , 125, 12327-12334	14
1698	Molecular Architecture of Cobalt Porphyrin Multilayers on Reduced Graphene Oxide Sheets for High-Performance Oxygen Reduction Reaction. <b>2013</b> , 125, 5695-5699	95

1697	Photocatalytic hydrogen generation from water/ethanol mixtures using halogenated reconstituted graphenes. <b>2013</b> , 1, 11728	19
1696	Synthesis of reduced graphene oxide using indole as a reducing agent and preparation of reduced graphene oxide-Ag nanocomposites. <b>2013</b> , 167, 25-30	13
1695	Design of Magnetic Graphene Oxide Containing Magnetically Stabilized Fluidized Bed System for Dopamine Adsorption in the Presence of Ascorbic Acid and Uric Acid. <b>2013</b> , 48, 2608-2615	1
1694	Evaluation of Nanomechanical Properties of (Styrene/Methyl Methacrylate) Copolymer Composites Containing Graphene Sheets. <b>2013</b> , 52, 17871-17881	19
1693	Graphene Quantum Dots from Polycyclic Aromatic Hydrocarbon for Bioimaging and Sensing of Fe <sup>3+</sup> and Hydrogen Peroxide. <b>2013</b> , 30, 1086-1092	119
1692	Three-dimensional graphene network composites for detection of hydrogen peroxide. <i>Small</i> , <b>2013</b> , 9, 1703-7	11 99
1691	In situ preparation of transparent polyimide nanocomposite with a small load of graphene oxide. <b>2013</b> , 128, 3163-3169	17
1690	Graphene-like nanocarbides and nanonitrides of d metals (MXenes): synthesis, properties and simulation. <b>2013</b> , 8, 59-62	66
1689	Solution processed molecular floating gate for flexible flash memories. <b>2013</b> , 3, 3093	48
1688	Accelerated colorimetric immunosensing using surface-modified porous monoliths and gold nanoparticles. <b>2013</b> , 14, 044403	6
1687	Synthesis and Electrochemical Performance of SnO <sub>2</sub> /Graphene Hybrid Anode for Lithium Ion Batteries. <b>2013</b> , 1540, 4001	
1686	CARBON DIOXIDE GAS SENSING APPLICATION OF GRAPHENE/Y <sub>2</sub> O <sub>3</sub> QUANTUM DOTS COMPOSITE. <b>2013</b> , 22, 380-384	11
1685	Polyolefin Nanocomposites and Hybrid Catalysts. <b>2013</b> , 279-309	16
1684	Space-Confinement-Induced Synthesis of Pyridinic- and Pyrrolic-Nitrogen-Doped Graphene for the Catalysis of Oxygen Reduction. <b>2013</b> , 125, 11971-11975	174
1683	Electronic and transport properties of graphene nanoribbon barbell-shaped heterojunctions. <b>2013</b> , 250, 2417-2423	3
1682	Strontium oxide quantum dot decorated graphene composites for liquid petroleum gas sensing. <b>2013</b> , 1, 219-228	14
1681	Optical Property Characterization of Novel Graphene-X (X=Ag, Au and Cu) Nanoparticle Hybrids. <b>2013</b> , 2013, 1-9	22
1680	Chemiluminescent logic gates based on functionalized gold nanoparticles/graphene oxide nanocomposites. <b>2013</b> , 19, 13584-9	24



1679	Electronic Nose Based on Nanomaterials: Issues, Challenges, and Prospects. <b>2013</b> , 2013, 1-21	23
1678	Three-dimensional graphene and their integrated electrodes. <b>2014</b> , 9, 785-807	228
1677	Theoretical analysis of sound transmission loss through graphene sheets. <b>2014</b> , 105, 201907	10
1676	EFFECT OF GRAPHITE PRECURSOR ON OXIDATION DEGREE, HYDROPHILICITY AND MICROSTRUCTURE OF GRAPHENE OXIDE. <b>2014</b> , 09, 1450037	16
1675	Two-Dimensional CuSe Nanosheets with Microscale Lateral Size: Synthesis and Template-Assisted Phase Transformation. <b>2014</b> , 126, 5183-5187	22
1674	Solution processable reduced graphene oxide decorated ATO electrode for organic solar cells. <b>2014</b> , 117, 1095-1101	3
1673	Sensing Properties of GO and Amine-Silica Nanoparticles Functionalized QCM Sensors for Detection of Formaldehyde. <b>2014</b> , 13, 1460011	4
1672	Thermally conductive cyanate ester nanocomposites filled with graphene nanosheets and multiwalled carbon nanotubes. <b>2014</b> , 25, 1546-1551	7
1671	Graphene: Synthesis, Characterization, and Applications. <b>2014</b> , 1-21	0
1670	Microwave Irradiation Effect on the Dispersion and Thermal Stability of RGO Nanosheets within a Polystyrene Matrix. <b>2014</b> , 7, 5212-5224	31
1669	Detection and characterization of cancer cells and pathogenic bacteria using aptamer-based nano-conjugates. <b>2014</b> , 14, 18302-27	34
1668	Numerous single-layer graphene sheets prepared from natural graphite by non-chemical liquid-phase exfoliation. <b>2014</b> , 9, 922-926	5
1667	Effect of Friedel-Crafts reaction on the thermal stability and flammability of high-density polyethylene/brominated polystyrene/graphene nanoplatelet composites. <b>2014</b> , 63, 1835-1841	21
1666	Surface diffusion coefficient of Au atoms on single layer graphene grown on Cu. <b>2014</b> , 115, 084304	15
1665	Combining protein-shelled platinum nanoparticles with graphene to build a bionanohybrid capacitor. <b>2014</b> , 8, 12120-9	13
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1663	Three-Dimensional Graphene Composite Macroscopic Structures for Capture of Cancer Cells. <b>2014</b> , 1, 1300043	77
1662	Observation of optical second harmonic generation from suspended single-layer and bi-layer graphene. <b>2014</b> , 105, 151605	22

1661	Metal Oxide-Coated Three-Dimensional Graphene Prepared by the Use of MetalOrganic Frameworks as Precursors. <b>2014</b> , 126, 1428-1433	83
1660	Effects of edge oxidation on the stability and half-metallicity of graphene quantum dots. <b>2014</b> , 15, 157-64	12
1659	Building up polymer architectures on graphene oxide sheet surfaces through sequential atom transfer radical polymerization. <b>2014</b> , 52, 1588-1596	20
1658	Graphene and Polyoxometalate Synergistically Enhance Electro-Catalysis of Pd toward Formic Acid Electro-Oxidation. <b>2014</b> , 161, F1224-F1230	15
1657	Mesoporous cobalt monoxide nanorods grown on reduced graphene oxide nanosheets with high lithium storage performance. <b>2014</b> , 138, 376-382	25
1656	1-nm-thick graphene tri-layer as the ultimate copper diffusion barrier. <b>2014</b> , 104, 082105	49
1655	Electron Transfer in a Supramolecular Associate of a Fullerene Fragment. <b>2014</b> , 126, 2202-2207	12
1654	Physical and thermal characterization of graphene oxide modified gelatin-based thin films. <b>2014</b> , 35, 2043-2049	13
1653	Tunable Electronic and Dielectric Properties of Molybdenum Disulfide. <b>2014</b> , 53-76	6
1652	Exploring Boundaries Around the Safe Use of Advanced Materials. <b>2014</b> , 339-363	
1651	Nanoparticles potential: types, mechanisms of action, actual in vitro and animal studies, recent patents. <b>2014</b> , 53-150	2
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1649	Graphene-Based Materials for Solar Cell Applications. <b>2014</b> , 4, 1300574	325
1648	Ionic liquid crystal-assisted synthesis of PtAg nanoflowers on reduced graphene oxide and their enhanced electrocatalytic activity toward oxygen reduction reaction. <b>2014</b> , 133, 407-413	39
1647	Selective detection of picric acid using functionalized reduced graphene oxide sensor device. <b>2014</b> , 196, 567-573	43
1646	A Flexible Reduced Graphene Oxide Field-Effect Transistor for Ultrasensitive Strain Sensing. <b>2014</b> , 24, 117-124	110
1645	Self-assembly of DNA-based drug delivery nanocarriers with rolling circle amplification. <b>2014</b> , 67, 198-204	23
1644	A facile molten-salt route to graphene synthesis. <i>Small</i> , <b>2014</b> , 10, 193-200	11 174

1643	Electrochemically "writing" graphene from graphene oxide. <i>Small</i> , <b>2014</b> , 10, 3555-9	11	24
1642	Solution-gated graphene transistors for chemical and biological sensors. <b>2014</b> , 3, 313-31		116
1641	Fabrication of sub-micrometer graphene ribbon using electrospun nanofiber. <b>2014</b> , 49, 1240-1245		1
1640	Metal Free Graphene Based Catalysts: A Review. <b>2014</b> , 57, 762-773		107
1639	25th anniversary article: hybrid nanostructures based on two-dimensional nanomaterials. <b>2014</b> , 26, 2185-204		514
1638	High-quality three-dimensional nanoporous graphene. <b>2014</b> , 53, 4822-6		184
1637	Surface coating-dependent cytotoxicity and degradation of graphene derivatives: towards the design of non-toxic, degradable nano-graphene. <i>Small</i> , <b>2014</b> , 10, 1544-54	11	174
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1633	Enhanced performance of the sulfonated polyimide proton exchange membranes by graphene oxide: Size effect of graphene oxide. <b>2014</b> , 458, 36-46		123
1632	Three-dimensional graphene materials: preparation, structures and application in supercapacitors. <b>2014</b> , 7, 1850-1865		705
1631	Drug delivery with PEGylated MoS <sub>2</sub> nano-sheets for combined photothermal and chemotherapy of cancer. <b>2014</b> , 26, 3433-40		919
1630	Graphene and graphene-like layered transition metal dichalcogenides in energy conversion and storage. <i>Small</i> , <b>2014</b> , 10, 2165-81	11	479
1629	Carbon Nanomaterials: A Review. <b>2014</b> , 709-769		26
1628	Recent advances in the use of graphene-family nanoadsorbents for removal of toxic pollutants from wastewater. <b>2014</b> , 204, 35-56		367
1627	Atomistic origins of high rate capability and capacity of N-doped graphene for lithium storage. <b>2014</b> , 14, 1164-71		271
1626	Three-dimensional assembly of single-layered MoS(2). <b>2014</b> , 26, 964-9		376

1625	Size and load dependence of nanoscale electric contact resistance. <b>2014</b> , 71, 109-113	10
1624	Microwave irradiation synthesis and characterization of RGO-AgNPs/polystyrene nanocomposites. <b>2014</b> , 35, 2318-2323	13
1623	Thermo-mechanical properties of poly (vinyl chloride)/graphene oxide as high performance nanocomposites. <b>2014</b> , 34, 211-219	62
1622	MoS <sub>2</sub> nanoflower-decorated reduced graphene oxide paper for high-performance hydrogen evolution reaction. <b>2014</b> , 6, 5624-9	281
1621	Self-assembly of carbon atoms on transition metal surfaces--chemical vapor deposition growth mechanism of graphene. <b>2014</b> , 26, 5488-95	47
1620	Bio-inspired surface-functionalization of graphene oxide for the adsorption of organic dyes and heavy metal ions with a superhigh capacity. <b>2014</b> , 2, 5034-5040	207
1619	A novel 3D structured reduced graphene oxide/TiO <sub>2</sub> composite: synthesis and photocatalytic performance. <b>2014</b> , 2, 3605-3612	57
1618	Graphene-based polyaniline nanocomposites: preparation, properties and applications. <b>2014</b> , 2, 4491-4509	190
1617	Two dimensional nanomaterials for flexible supercapacitors. <b>2014</b> , 43, 3303-23	827
1616	Photosensitive graphene transistors. <b>2014</b> , 26, 5239-73	247
1615	Preconcentration of chlorophenols in water samples using three-dimensional graphene-based magnetic nanocomposite as absorbent. <b>2014</b> , 25, 1185-1189	20
1614	Graphene prepared by one-pot solvent exfoliation as a highly sensitive platform for electrochemical sensing. <b>2014</b> , 825, 26-33	57
1613	Conjugated polyfluorene imidazolium ionic liquids intercalated reduced graphene oxide for high performance supercapacitor electrodes. <b>2014</b> , 6, 119-128	35
1612	Assembly of evenly distributed Au nanoparticles on thiolated reduced graphene oxide as an active and robust catalyst for hydrogenation of 4-nitroarenes. <b>2014</b> , 4, 11003-11011	46
1611	A Review of Graphene-Based Nanostructural Materials for Both Catalyst Supports and Metal-Free Catalysts in PEM Fuel Cell Oxygen Reduction Reactions. <b>2014</b> , 4, 1301523	365
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1609	Two-dimensional CuSe nanosheets with microscale lateral size: synthesis and template-assisted phase transformation. <b>2014</b> , 53, 5083-7	93
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1606	Chemical Functionalization of Graphene for Biomedical Applications. <b>2014</b> , 95-138		8
1605	Graphene materials and their use in dye-sensitized solar cells. <b>2014</b> , 114, 6323-48		331
1604	Composites from Aqueous Polyethylene Nanocrystal/Graphene Dispersions. <b>2014</b> , 47, 3017-3021		14
1603	A flexible and high-voltage internal tandem supercapacitor based on graphene-based porous materials with ultrahigh energy density. <i>Small</i> , <b>2014</b> , 10, 2285-92	11	51
1602	Graphene sensing an inhomogeneous strain due to the surface relief in FeNiCoTi shape memory alloy. <b>2014</b> , 45, 1-6		3
1601	Programmable writing of graphene oxide/reduced graphene oxide fibers for sensible networks with in situ welded junctions. <b>2014</b> , 8, 4325-33		45
1600	Carbocatalysis by graphene-based materials. <b>2014</b> , 114, 6179-212		512
1599	A one-step method for preparation of Cu@Cu <sub>2</sub> O nanoparticles on reduced graphene oxide and their catalytic activities in N-arylation of N-heterocycles. <b>2014</b> , 481, 79-88		55
1598	Flexible and transparent gas molecule sensor integrated with sensing and heating graphene layers. <i>Small</i> , <b>2014</b> , 10, 3685-91	11	123
1597	Magnetically induced anisotropic orientation of graphene oxide locked by in situ hydrogelation. <b>2014</b> , 8, 4640-9		85
1596	Nitrogen-doped aligned carbon nanotube/graphene sandwiches: facile catalytic growth on bifunctional natural catalysts and their applications as scaffolds for high-rate lithium-sulfur batteries. <b>2014</b> , 26, 6100-5		492
1595	Inkjet deposition of liquid-exfoliated graphene and MoS <sub>2</sub> nanosheets for printed device applications. <b>2014</b> , 2, 925-932		217
1594	Chemical reduction of graphene oxide: a synthetic chemistry viewpoint. <b>2014</b> , 43, 291-312		1222
1593	Growth of noble metal nanoparticles on single-layer TiS <sub>2</sub> and TaS <sub>2</sub> nanosheets for hydrogen evolution reaction. <b>2014</b> , 7, 797-803		292
1592	Photoreduction of Graphene Oxides: Methods, Properties, and Applications. <b>2014</b> , 2, 10-28		191
1591	Design of advanced porous graphene materials: from graphene nanomesh to 3D architectures. <b>2014</b> , 6, 1922-45		548
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1588	Probing mechanical principles of cell/nanomaterial interactions. <b>2014</b> , 62, 312-339	52
1587	Surfactant-Free, Stable Noble Metal/Graphene Nanocomposite as High Performance Electrocatalyst. <b>2014</b> , 4, 593-599	64
1586	Supercritical Deposition Route of Preparing Pt/Graphene Composites and Their Catalytic Performance toward Methanol Electrooxidation. <b>2014</b> , 118, 1182-1190	42
1585	Graphene-based nanomaterials for drug delivery and tissue engineering. <b>2014</b> , 173, 75-88	896
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1582	Graphene-based biomimetic materials targeting urine metabolite as potential cancer biomarker: application over different conductive materials for potentiometric transduction. <b>2014</b> , 150, 99-107	9
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1576	In situ generated FeF <sub>3</sub> in homogeneous iron matrix toward high-performance cathode material for sodium-ion batteries. <b>2014</b> , 10, 295-304	90
1575	Low-temperature solution-processable Ni(OH) <sub>2</sub> ultrathin nanosheet/N-graphene nanohybrids for high-performance supercapacitor electrodes. <b>2014</b> , 6, 5960-6	41
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1569	Synthesis of NiSe <sub>2</sub> /reduced graphene oxide crystalline materials and their efficient electrocatalytic activity in dye-sensitized solar cells. <b>2014</b> , 4, 50312-50317	26
1568	High-k polymer-graphene oxide dielectrics for low-voltage flexible nonvolatile transistor memory devices. <b>2014</b> , 50, 3217-9	41
1567	Enhanced MRI relaxivity of aquated Gd <sup>3+</sup> ions by carboxyphenylated water-dispersed graphene nanoribbons. <b>2014</b> , 6, 3059-63	38
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1553	Reliability enhancement of germanium nanowires using graphene as a protective layer: aspect of thermal stability. <b>2014</b> , 6, 5069-74		8
1552	Graphene field-effect transistor and its application for electronic sensing. <i>Small</i> , <b>2014</b> , 10, 4042-65	11	112
1551	Graphene-based materials: fabrication and application for adsorption in analytical chemistry. <b>2014</b> , 1362, 1-15		124
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1540	Interface engineering for CVD graphene: current status and progress. <i>Small</i> , <b>2014</b> , 10, 4443-54	11	25
1539	Remote control of reversible localized protein adsorption in microfluidic devices. <b>2014</b> , 6, 11869-73		10
1538	Simple synthesis of platinum-palladium nanoflowers on reduced graphene oxide and their enhanced catalytic activity for oxygen reduction reaction. <b>2014</b> , 269, 136-143		27
1537	Role of Ga vacancy on a multilayer GaTe phototransistor. <b>2014</b> , 8, 4859-65		137
1536	Permeation of nickel nanodots on carbon nanotubes: synthesis of 3D CNT-based nanomaterials. <b>2014</b> , 6, 15352-62		3



1535	A noncovalent compatibilization approach to improve the filler dispersion and properties of polyethylene/graphene composites. <b>2014</b> , 6, 1916-25	103
1534	3D graphene network@WO <sub>3</sub> nanowire composites: a multifunctional colorimetric and electrochemical biosensing platform. <b>2014</b> , 50, 11135-8	76
1533	Thermal conductivity of graphene laminate. <b>2014</b> , 14, 5155-61	219
1532	Surface engineering of graphene-based nanomaterials for biomedical applications. <b>2014</b> , 25, 1609-19	102
1531	Chemistry makes graphene beyond graphene. <b>2014</b> , 136, 12194-200	184
1530	Facile synthesis of bimetallic alloyed Pt-Pd nanocubes on reduced graphene oxide with enhanced electrocatalytic properties. <b>2014</b> , 143, 36-43	26
1529	Preparation of new self-humidifying composite membrane by incorporating graphene and phosphotungstic acid into sulfonated poly(ether ether ketone) film. <b>2014</b> , 39, 17162-17177	16
1528	Chemical control of graphene architecture: tailoring shape and properties. <b>2014</b> , 8, 9733-54	89
1527	Palladium nanoparticle decorated high nitrogen-doped graphene with high catalytic activity for Suzuki-Miyaura and Ullmann-type coupling reactions in aqueous media. <b>2014</b> , 488, 265-274	66
1526	Synthesis of magnetite/graphene oxide/chitosan composite and its application for protein adsorption. <b>2014</b> , 45, 8-14	79
1525	Ultrasensitive detection of cancer cells and glycan expression profiling based on a multivalent recognition and alkaline phosphatase-responsive electrogenerated chemiluminescence biosensor. <b>2014</b> , 6, 11196-203	47
1524	Polymer-assisted UV excitation method to synthesize reduced graphene oxide/ErBi <sub>2</sub> Mo <sub>3</sub> O <sub>12</sub> nanoplates with high activity. <b>2014</b> , 2, 2103-2110	4
1523	Ni(OH) <sub>2</sub> nanosheets grown on a 3D graphene framework as an excellent cathode for flexible supercapacitors. <b>2014</b> , 4, 47609-47614	22
1522	Graphene nanosheets as efficient adsorbent for an azo dye removal: kinetic and thermodynamic studies. <b>2014</b> , 16, 1	21
1521	Mechanical characteristics of individual multi-layer graphene-oxide sheets under direct tensile loading. <b>2014</b> , 80, 279-289	30
1520	Hydrothermal synthesis of Ni <sub>3</sub> S <sub>2</sub> /graphene electrode and its application in a supercapacitor. <b>2014</b> , 4, 37278-37283	62
1519	Indium Tin Oxide-Free Polymer Solar Cells: Toward Commercial Reality. <b>2014</b> , 189-225	2
1518	Strategies on the Design of Nitrogen-Doped Graphene. <b>2014</b> , 5, 119-25	73

1517	High-concentration graphene dispersions with minimal stabilizer: a scaffold for enzyme immobilization for glucose oxidation. <b>2014</b> , 20, 5752-61		38
1516	Graphene oxide architectures prepared by molecular combing on hydrophilic-hydrophobic micropatterns. <i>Small</i> , <b>2014</b> , 10, 2239-44	11	18
1515	Direct synthesis of Fe <sub>3</sub> C-functionalized graphene by high temperature autoclave pyrolysis for oxygen reduction. <b>2014</b> , 7, 2099-103		39
1514	Nanoporous graphene materials. <b>2014</b> , 17, 77-85		146
1513	Space-Confined Growth of MoS <sub>2</sub> Nanosheets within Graphite: The Layered Hybrid of MoS <sub>2</sub> and Graphene as an Active Catalyst for Hydrogen Evolution Reaction. <b>2014</b> , 26, 2344-2353		554
1512	Preparation of polydopamine-functionalized graphene/Fe <sub>3</sub> O <sub>4</sub> magnetic composites with high adsorption capacities. <b>2014</b> , 4, 30536-30541		42
1511	Recent progress on graphene-based hybrid electrocatalysts. <b>2014</b> , 1, 379-399		277
1510	Heteroatom-doped graphene for electrochemical energy storage. <b>2014</b> , 59, 2102-2121		37
1509	Nafion-graphene composite film modified glassy carbon electrode for voltammetric determination of p-aminophenol. <b>2014</b> , 50, 243-252		13
1508	DNA-templated synthesis of PtAu bimetallic nanoparticle/graphene nanocomposites and their application in glucose biosensor. <b>2014</b> , 9, 99		18
1507	Metal oxide-coated three-dimensional graphene prepared by the use of metal-organic frameworks as precursors. <b>2014</b> , 53, 1404-9		255
1506	3D free-standing porous scaffolds made of graphene oxide as substrates for neural cell growth. <b>2014</b> , 2, 5698-5706		91
1505	Monolayer graphene resonators for mass detection: A structural mechanics feasibility study. <b>2014</b> , 217, 29-38		20
1504	Environmentally responsive graphene systems. <i>Small</i> , <b>2014</b> , 10, 2151-64	11	62
1503	Two-dimensional tin selenide nanostructures for flexible all-solid-state supercapacitors. <b>2014</b> , 8, 3761-70		271
1502	Nanocomposite films and coatings using inorganic nanobuilding blocks (NBB): current applications and future opportunities in the food packaging sector. <b>2014</b> , 4, 29393-29428		79
1501	Graphene controlled H- and J-stacking of perylene dyes into highly stable supramolecular nanostructures for enhanced photocurrent generation. <b>2014</b> , 6, 10516-23		20
1500	Lattice-Contraction-Induced Moiré Patterns in Direction-Controlled Epitaxial Graphene on Cu(111). <b>2014</b> , 1, 1300080		10

1499	Great improvement in pseudocapacitor properties of nickel hydroxide via simple gold deposition. <b>2014</b> , 6, 11646-52		52
1498	Robust graphene dispersion with amphiphilic perylene-polyglycidol. <b>2014</b> , 118, 188-191		12
1497	Enhanced photocatalytic property of reduced graphene oxide/TiO <sub>2</sub> nanobelt surface heterostructures constructed by an in situ photochemical reduction method. <i>Small</i> , <b>2014</b> , 10, 3775-82	11	119
1496	Competitive adsorption of dopamine and rhodamine 6G on the surface of graphene oxide. <b>2014</b> , 6, 2459-70		138
1495	Microstructured graphene arrays for highly sensitive flexible tactile sensors. <i>Small</i> , <b>2014</b> , 10, 3625-31	11	426
1494	Charge transport in polycrystalline graphene: challenges and opportunities. <b>2014</b> , 26, 5079-94		137
1493	Fabrication of poly(o-phenylenediamine)/reduced graphene oxide composite nanosheets via microwave heating and their effective adsorption of lead ions. <b>2014</b> , 307, 601-607		34
1492	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
1491	Facile synthesis of platinum-ruthenium nanodendrites supported on reduced graphene oxide with enhanced electrocatalytic properties. <b>2014</b> , 266, 259-267		32
1490	Cationic surfactant-assisted hydrothermal synthesis of few-layer molybdenum disulfide/graphene composites: Microstructure and electrochemical lithium storage. <b>2014</b> , 264, 262-271		75
1489	A new approach to fabricate graphene electro-conductive networks on natural fibers by ultraviolet curing method. <b>2014</b> , 193, 41-47		53
1488	Metalloid polymer nanoparticle functionalized graphene oxide working electrode for durable glucose sensing. <b>2014</b> , 49, 593-600		11
1487	3D graphene foams decorated by CuO nanoflowers for ultrasensitive ascorbic acid detection. <b>2014</b> , 59, 384-8		148
1486	Eco-friendly and simple radiation-based preparation of graphene and its application to organic solar cells. <b>2014</b> , 47, 015105		10
1485	Surfactant-assisted synthesis of reduced graphene oxide/polyaniline composites by gamma irradiation for supercapacitors. <b>2014</b> , 49, 5667-5675		27
1484	Highly conductive and dispersible graphene and its application in P3HT-based solar cells. <b>2014</b> , 50, 8705-8		37
1483	Preparation and applications of mechanically exfoliated single-layer and multilayer MoS <sub>2</sub> and WSe <sub>2</sub> nanosheets. <b>2014</b> , 47, 1067-75		1089
1482	UV/O <sub>3</sub> Generated Graphene Nanomesh: Formation Mechanism, Properties, and FET Studies. <b>2014</b> , 118, 725-731		42

1481	Monodisperse Au-Pd bimetallic alloyed nanoparticles supported on reduced graphene oxide with enhanced electrocatalytic activity towards oxygen reduction reaction. <b>2014</b> , 136, 521-528	83
1480	Understanding the bonding nature of uranyl ion and functionalized graphene: a theoretical study. <b>2014</b> , 118, 2149-58	78
1479	A universal fluorescence sensing strategy based on biocompatible graphene quantum dots and graphene oxide for the detection of DNA. <b>2014</b> , 6, 5671-4	136
1478	Carbon quantum dot/NiFe layered double-hydroxide composite as a highly efficient electrocatalyst for water oxidation. <b>2014</b> , 6, 7918-25	382
1477	Large-area atomically thin MoS <sub>2</sub> nanosheets prepared using electrochemical exfoliation. <b>2014</b> , 8, 6902-10	323
1476	Graphene-like layered metal dichalcogenide/graphene composites: synthesis and applications in energy storage and conversion. <b>2014</b> , 17, 184-193	128
1475	The probable influence of in situ thermal reduction of graphene oxides on the crystallization behavior of isotactic polypropylene. <b>2014</b> , 55, 4341-4347	7
1474	Mechanical-Thermal-Electrical and Morphological Properties of Graphene Reinforced Polymer Composites: A Review. <b>2014</b> , 67, 803-816	44
1473	Experimental and modeling study on charge storage/transfer mechanism of graphene-based supercapacitors. <b>2014</b> , 268, 604-609	11
1472	Silica-assistant synthesis of three-dimensional graphene architecture and its application as anode material for lithium ion batteries. <b>2014</b> , 8, 62-70	50
1471	Facile self-assembly of honeycomb ZnO particles decorated reduced graphene oxide. <b>2014</b> , 128, 242-244	14
1470	One-pot synthesis of reduced graphene oxide supported PtCu catalysts with enhanced electro-catalytic activity for the methanol oxidation reaction. <b>2014</b> , 136, 292-300	45
1469	Enhanced optical limiting properties of graphene oxide/triangular Pd nanocrystal composites. <b>2014</b> , 131, 284-287	6
1468	Nanocarbon aerogel complexes inspired by the leaf structure. <b>2014</b> , 77, 637-644	18
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1466	Green synthesis of flower-like ZnO decorated reduced graphene oxide composites. <b>2014</b> , 40, 1241-1244	16
1465	Energetic Graphene-Based Electrochemical Analytical Devices in Nucleic Acid, Protein and Cancer Diagnostics and Detection. <b>2014</b> , 26, 14-29	23
1464	Collagen Nanofiber-templated Silver Nanowires on Graphene Nanosheets for a Nonenzymatic Amperometric Biosensor of Hydrogen Peroxide. <b>2014</b> , 43, 544-546	7

1463	One-pot hydrothermal synthesis of graphene/MgAl-LDH composite by urea hydrolysis. <b>2014</b> , 3, 30-38	1
1462	Graphene Overview. <b>2014</b> , 1-20	1
1461	Discrete Atomic Layers at the Molecular Level. <b>2015</b> , 84, 121016	2
1460	Surface Transfer Doping-Induced, High-Performance Graphene/Silicon Schottky Junction-Based, Self-Powered Photodetector. <i>Small</i> , <b>2015</b> , 11, 4829-36	11 73
1459	Graphite oxide multilayers for device fabrication: Enzyme-based electrical sensing of glucose. <b>2015</b> , 212, 1335-1341	6
1458	Popping of graphite oxide: application in preparing metal nanoparticle catalysts. <b>2015</b> , 27, 4688-94	43
1457	Graphene hybrids: synthesis strategies and applications in sensors and sensitized solar cells. <b>2015</b> , 3, 38	57
1456	Unique Reactivity of Transition Metal Atoms Embedded in Graphene to CO, NO, O <sub>2</sub> and O <sub>3</sub> Adsorption: A First-Principles Investigation. <b>2015</b> , 20, 19540-53	11
1455	Mechanical and Electrical Properties of Styrene-Isoprene-Styrene Copolymer Doped with Expanded Graphite Nanoplatelets. <b>2015</b> , 2015, 1-9	4
1454	Influence of hybrid nano-filler on the crystallization behaviour and interfacial interaction in polyamide 6 based hybrid nano-composites. <b>2015</b> , 17, 9410-9	25
1453	Growth and Characterization of Al <sub>2</sub> O <sub>3</sub> Atomic Layer Deposition Films on sp <sup>2</sup> -Graphitic Carbon Substrates Using NO <sub>2</sub> /Trimethylaluminum Pretreatment. <b>2015</b> , 7, 12030-7	23
1452	Influence of graphene on the cell morphology and mechanical properties of extruded polystyrene foam. <b>2015</b> , 51, 413-426	31
1451	Enhanced electropolymerization of poly(xanthurenic acid)-MoS film for specific electrocatalytic detection of guanine and adenine. <b>2015</b> , 3, 4884-4891	32
1450	Facile and controllable synthesis of hydroxyapatite/graphene hybrid materials with enhanced sensing performance towards ammonia. <b>2015</b> , 140, 5235-42	38
1449	Capping nanoparticles with graphene quantum dots for enhanced thermoelectric performance. <b>2015</b> , 6, 4103-4108	35
1448	Spent coffee grounds derived P, N co-doped C as electrocatalyst for supercapacitor applications. <b>2015</b> , 168, 414-422	38
1447	Graphene dispersion in hydrocarbon medium and its application in lubricant technology. <b>2015</b> , 5, 53326-53332	31
1446	Structural design of graphene for use in electrochemical energy storage devices. <b>2015</b> , 44, 6230-57	343

1445	Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. <b>2015</b> , 93, 659-670	145
1444	Mechanical properties of graphene nanocomposites: A multiscale finite element prediction. <b>2015</b> , 132, 536-544	70
1443	Atomically thick Pt-Cu nanosheets: self-assembled sandwich and nanoring-like structures. <b>2015</b> , 27, 2013-8	91
1442	Multilayered graphene acquires ferromagnetism in proximity with magnetite particles. <b>2015</b> , 106, 212401	9
1441	Construction of a graphene oxide-encapsulated Pt@TiO <sub>2</sub> core/shell ternary composite nanostructure with enhanced optical limiting behavior. <b>2015</b> , 93, 400-411	24
1440	Three-layer structure graphene/mesoporous silica composites incorporated with C8-modified interior pore-walls for residue analysis of glucocorticoids in milk by liquid chromatography-tandem mass spectrometry. <b>2015</b> , 884, 61-9	19
1439	Graphene-supported metal/metal oxide nanohybrids: synthesis and applications in heterogeneous catalysis. <b>2015</b> , 5, 3903-3916	105
1438	Facile and efficient exfoliation of inorganic layered materials using liquid alkali metal alloys. <b>2015</b> , 51, 10961-4	38
1437	Graphene based metal and metal oxide nanocomposites: synthesis, properties and their applications. <b>2015</b> , 3, 18753-18808	446
1436	Enhanced Shubnikov-De Haas Oscillation in Nitrogen-Doped Graphene. <b>2015</b> , 9, 7207-14	17
1435	Edge-Functionalized Graphene as a Nanofiller: Molecular Dynamics Simulation Study. <b>2015</b> , 48, 9024-9038	45
1434	Construction of multifunctional films based on graphene/TiO <sub>2</sub> composite materials for strain sensing and photodegradation. <b>2015</b> , 5, 104785-104791	16
1433	A manufacturing perspective on graphene dispersions. <b>2015</b> , 20, 367-382	249
1432	Covalently bonded reduced graphene oxide/polyaniline composite for electrochemical sensors and capacitors. <b>2015</b> , 758, 148-155	65
1431	Nickel nanoparticles supported on reduced graphene oxide sheets: a phosphine free, magnetically recoverable and cost effective catalyst for Sonogashira cross-coupling reactions. <b>2015</b> , 5, 103105-103115	41
1430	Reduction of graphene oxide/alginate composite hydrogels for enhanced adsorption of hydrophobic compounds. <b>2015</b> , 26, 405602	21
1429	Synergistic production of graphene microsheets by simultaneous anodic and cathodic electro-exfoliation of graphitic electrodes in aprotic ionic liquids. <b>2015</b> , 84, 449-459	43
1428	Separating nano graphene oxide from the residual strong-acid filtrate of the modified Hummers method with alkaline solution. <b>2015</b> , 329, 83-86	50

1427	Hydrothermal deposition of manganese dioxide nanosheets on electrodeposited graphene covered nickel foam as a high-performance electrode for supercapacitors. <b>2015</b> , 279, 138-145	54
1426	Enhanced visible light photocatalytic degradation of metoprolol by AgBi <sub>2</sub> WO <sub>6</sub> /graphene composite. <b>2015</b> , 142, 1-7	34
1425	Two-dimensional NiCo <sub>2</sub> O <sub>4</sub> nanosheet-coated three-dimensional graphene networks for high-rate, long-cycle-life supercapacitors. <b>2015</b> , 7, 7035-9	126
1424	The interaction of iron and metal-free meso-tetra (4-sulfonatophenyl) porphines with CVD graphene: a comparative Raman spectroscopy study. <b>2015</b> , 46, 94-99	4
1423	Fabrication of manganese oxide/three-dimensional reduced graphene oxide composites as the supercapacitors by a reverse microemulsion method. <b>2015</b> , 85, 249-260	61
1422	Advances in MoS <sub>2</sub> -Based Field Effect Transistors (FETs). <b>2015</b> , 7, 203-218	107
1421	Highly sensitive glucose sensors based on enzyme-modified whole-graphene solution-gated transistors. <b>2015</b> , 5, 8311	131
1420	Solvation of actinide salts in water using a polarizable continuum model. <b>2015</b> , 119, 689-703	10
1419	Exceptionally high thermal conductivity of thermal grease: Synergistic effects of graphene and alumina. <b>2015</b> , 91, 76-82	85
1418	Versatile photoluminescence from graphene and its derivatives. <b>2015</b> , 88, 86-112	64
1417	Electrical Properties of Graphene Polymer Nanocomposites. <b>2015</b> , 25-47	25
1416	Controlling available active sites of Pt-loaded TiO <sub>2</sub> nanotube-imprinted Ti plates for efficient dye-sensitized solar cells. <b>2015</b> , 7, 3910-9	14
1415	The ecotoxicity of graphene family materials: current status, knowledge gaps and future needs. <b>2015</b> , 17, 1	45
1414	Nanostructured Mo-based electrode materials for electrochemical energy storage. <b>2015</b> , 44, 2376-404	498
1413	Fluidized-bed CVD of unstacked double-layer templated graphene and its application in supercapacitors. <b>2015</b> , 61, 747-755	40
1412	Assembly of core-shell structured porous carbon/graphene composites as anode materials for lithium-ion batteries. <b>2015</b> , 152, 338-344	55
1411	Metal-organic Kagome lattices M <sub>3</sub> (2,3,6,7,10,11-hexaiminotriphenylene) <sub>2</sub> (M = Ni and Cu): from semiconducting to metallic by metal substitution. <b>2015</b> , 17, 5954-8	82
1410	The construction of single-layer two-dimensional supramolecular organic frameworks in water through the self-assembly of rigid vertexes and flexible edges. <b>2015</b> , 6, 1923-1927	38

1409	Synthesis, characterization and optical properties of graphene oxide/polystyrene nanocomposites. <b>2015</b> , 26, 214-222	32
1408	A terminal protection system for the detection of adenosine triphosphate via enzyme-assisted signal amplification. <b>2015</b> , 7, 970-975	2
1407	Molecular crystals on two-dimensional van der Waals substrates. <b>2015</b> , 58, 5-8	11
1406	Approaching the downsizing limit of silicon for surface-controlled lithium storage. <b>2015</b> , 27, 1526-32	95
1405	Recent Advances in Heteroatom-Doped Metal-Free Electrocatalysts for Highly Efficient Oxygen Reduction Reaction. <b>2015</b> , 6, 132-147	104
1404	Direct printing of reduced graphene oxide on planar or highly curved surfaces with high resolutions using electrohydrodynamics. <i>Small</i> , <b>2015</b> , 11, 2263-8	11 76
1403	Graphene-Based Photocatalysts for Energy Applications: Progress and Future Prospects. <b>2015</b> , 277-294	1
1402	Graphene-Based Solar-Driven Water-Splitting Devices. <b>2015</b> , 215-248	
1401	Functionalized mesoporous silica-coated magnetic graphene oxide by polyglycerol-g-polycaprolactone with pH-responsive behavior: Designed for targeted and controlled doxorubicin delivery. <b>2015</b> , 28, 45-53	41
1400	Nitrogen-doped graphene films from simple photochemical doping for n-type field-effect transistors. <b>2015</b> , 106, 013110	18
1399	Synthesis and transport properties of large-scale alloy Co(0.16)Mo(0.84)S <sub>2</sub> bilayer nanosheets. <b>2015</b> , 9, 1257-62	64
1398	Efficient removal of phenol and aniline from aqueous solutions using graphene oxide/polypyrrole composites. <b>2015</b> , 203, 80-89	45
1397	Well-designed sandwich-like structured graphene/emeraldine salts prepared by inverse microemulsion polymerization with particle-on-sheet and sheet-on-sheet morphologies. <b>2015</b> , 24, 203-217	5
1396	One-pot synthesis of CoFe <sub>2</sub> O <sub>4</sub> /graphene oxide hybrids and their conversion into FeCo/graphene hybrids for lightweight and highly efficient microwave absorber. <b>2015</b> , 3, 5535-5546	420
1395	Highly efficient electronic sensitization of non-oxidized graphene flakes on controlled pore-loaded WO <sub>3</sub> nanofibers for selective detection of H <sub>2</sub> S molecules. <b>2015</b> , 5, 8067	65
1394	Elastomeric composites based on carbon nanomaterials. <b>2015</b> , 26, 112001	95
1393	Large-scale plasma patterning of transparent graphene electrode on flexible substrates. <b>2015</b> , 31, 2914-21	13
1392	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. <b>2015</b> , 7, e162-e162	78



1391	An efficient edge-functionalization method to tune the photoluminescence of graphene quantum dots. <b>2015</b> , 7, 5969-73	55
1390	Mechanisms of Colloidal Stabilization of Oxidized Nanocarbons in the Presence of Polymers: Obtaining Highly Stable Colloids in Physiological Media. <b>2015</b> , 119, 18741-18752	17
1389	Enhanced Evaporation Strength through Fast Water Permeation in Graphene-Oxide Deposition. <b>2015</b> , 5, 11896	28
1388	Two-dimensional covalent carbon nitride nanosheets: synthesis, functionalization, and applications. <b>2015</b> , 8, 3092-3108	769
1387	Synthesis of mesoporous NiCo <sub>2</sub> O <sub>4</sub> @GO by a solvothermal method for charge storage applications. <b>2015</b> , 5, 66657-66666	102
1386	Facile access to versatile hydrogels via interface-directed frontal polymerization derived from the magnetocaloric effect. <b>2015</b> , 3, 17351-17358	31
1385	Comparison of graphene growth on arbitrary non-catalytic substrates using low-temperature PECVD. <b>2015</b> , 93, 393-399	51
1384	Reinforcement with in-situ synthesized carbon nano-onions in aluminum composites fabricated by flake powder metallurgy. <b>2015</b> , 650, 217-223	14
1383	Highly sensitive and fast phototransistor based on large size CVD-grown SnS <sub>2</sub> nanosheets. <b>2015</b> , 7, 14093-9	99
1382	Preparation of graphene oxide/multiwalled carbon nanotubes 3D flexible architecture for robust biosensing application. <b>2015</b> , 41, 15241-15245	7
1381	A highly active recyclable gold-graphene nanocomposite material for oxidative esterification and Suzuki cross-coupling reactions in green pathway. <b>2015</b> , 459, 97-106	34
1380	Large-Area Semiconducting Graphene Nanomesh Tailored by Interferometric Lithography. <b>2015</b> , 5, 11463	22
1379	A new mild, clean and highly efficient method for the preparation of graphene quantum dots without by-products. <b>2015</b> , 3, 6871-6876	94
1378	Graphite to Graphene via Graphene Oxide: An Overview on Synthesis, Properties, and Applications. <b>2015</b> , 67, 2855-2868	41
1377	van Hove Singularity Enhanced Photochemical Reactivity of Twisted Bilayer Graphene. <b>2015</b> , 15, 5585-9	41
1376	Fast diffusion supercapacitors via an ultra-high pore volume of crumpled 3D structure reduced graphene oxide activation. <b>2015</b> , 5, 60914-60919	21
1375	Supramolecular fabrication of polyelectrolyte-modified reduced graphene oxide for NO <sub>2</sub> sensing applications. <b>2015</b> , 41, 12130-12136	15
1374	CVD synthesis of Mo((1-x))W(x)S <sub>2</sub> and MoS <sub>2</sub> (1-x)Se(2x) alloy monolayers aimed at tuning the bandgap of molybdenum disulfide. <b>2015</b> , 7, 13554-60	72

1373	Fast and facile preparation of PEGylated graphene from graphene oxide by lysosome targeting delivery of photosensitizer to efficiently enhance photodynamic therapy. <b>2015</b> , 5, 57725-57734	39
1372	Graphene: a self-reducing template for synthesis of graphene/nanoparticles hybrids. <b>2015</b> , 5, 62284-62289	22
1371	Organo functionalized graphene with Pd nanoparticles and its excellent catalytic activity for Suzuki coupling reaction. <b>2015</b> , 505, 539-547	55
1370	The effect of graphene oxide (GO) nanoparticles on the processing of epoxy/glass fiber composites using resin infusion. <b>2015</b> , 81, 2183-2192	51
1369	Stability of graphene-based heterojunction solar cells. <b>2015</b> , 5, 73575-73600	63
1368	Preparation of Graphene Oxide-Based Hydrogels as Efficient Dye Adsorbents for Wastewater Treatment. <b>2015</b> , 10, 931	259
1367	Enhanced response and sensitivity of self-corrugated graphene sensors with anisotropic charge distribution. <b>2015</b> , 5, 11216	17
1366	Crystalline quality assessment, photocurrent response and optical properties of reduced graphene oxide uniformly decorated zinc oxide nanoparticles based on the graphene oxide concentration. <b>2015</b> , 5, 53117-53128	33
1365	3D nitrogen-doped graphene/ $\beta$ -cyclodextrin: host-guest interactions for electrochemical sensing. <b>2015</b> , 7, 11922-7	28
1364	Electrochemical Sensors Using Two-Dimensional Layered Nanomaterials. <b>2015</b> , 27, 1062-1072	36
1363	Fabrication of graphene oxide composite membranes and their application for pervaporation dehydration of butanol. <b>2015</b> , 23, 1102-1109	55
1362	Facile synthesis of graphene-like copper oxide nanofilms with enhanced electrochemical and photocatalytic properties in energy and environmental applications. <b>2015</b> , 7, 9682-90	79
1361	Synthesis and characterization of Pd(II) dispersed over diamine functionalized graphene oxide and its scope as a catalyst for selective oxidation. <b>2015</b> , 5, 3235-3241	40
1360	Carbon-Coated Mesoporous TiO <sub>2</sub> Nanocrystals Grown on Graphene for Lithium-Ion Batteries. <b>2015</b> , 7, 10395-400	48
1359	Preparation and characterization of STRG/PI composite films with optimized dielectric and mechanical properties. <b>2015</b> , 65, 262-269	14
1358	Enhanced properties of quaternized graphenes reinforced polysulfone based composite anion exchange membranes for alkaline fuel cell. <b>2015</b> , 487, 99-108	83
1357	Catalytic and charge transfer properties of transition metal dichalcogenides arising from electrochemical pretreatment. <b>2015</b> , 9, 5164-79	158
1356	Facile one-step synthesis of Co(OH) <sub>2</sub> microsphere/graphene composites for an efficient supercapacitor electrode material. <b>2015</b> , 5, 38324-38329	10

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1351	Electrochemical biosensor based on three-dimensional reduced graphene oxide and polyaniline nanocomposite for selective detection of mercury ions. <b>2015</b> , 214, 63-69	102
1350	ZnO nanoparticles decorated on graphene sheets through liquid arc discharge approach with enhanced photocatalytic performance under visible-light. <b>2015</b> , 342, 112-119	51
1349	Tubular TiC fibre nanostructures as supercapacitor electrode materials with stable cycling life and wide-temperature performance. <b>2015</b> , 8, 1559-1568	188
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1341	Reversible conversion of dominant polarity in ambipolar polymer/graphene oxide hybrids. <b>2015</b> , 5, 9446	15
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1336	Enhanced graphene quantum dot fluorescence nanosensor for highly sensitive acetylcholinesterase assay and inhibitor screening. <b>2015</b> , 215, 24-29	34
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