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Synthesis of graphene-based nanosheets via chemical reduction of exfoliated graphite oxide

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- 2258 Sulfur-Depleted Monolayered Molybdenum Disulfide Nanocrystals for Superelectrochemical Hydrogen Evolution Reaction.
- 2257 High Interfacial Charge Storage Capability of Carbonaceous Cathodes for Mg Batteries.
- 2256 Accessible Graphene Aerogel for Efficiently Harvesting Solar Energy.
- 2255 Synthesis of Aminopyrene-tetraone-Modified Reduced Graphene Oxide as an Electrode Material for High-Performance Supercapacitors.
- 2254 Palladium Nanoparticles Anchored on Three-Dimensional Nitrogen-Doped Carbon Nanotubes as a Robust Electrocatalyst for Ethanol Oxidation.
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- 2252 On the determination of minimal global attractors for the Navier-Stokes and other partial differential equations. **1987**, 42, 27-73 58
- 2251 Development of NMR: Physics, Exotica, and Related Areas. **1996**, 1-4
- 2250 New results from Euroball. **1999**,
- 2249 A chemical route to graphene for device applications. **2007**, 7, 3394-8 1734
- 2248 Foundations of Software Science and Computational Structures. **2007**, 1
- 2247 Preparation and characterization of graphene oxide paper. **2007**, 448, 457-60 4556
- 2246 Electronic transport properties of individual chemically reduced graphene oxide sheets. **2007**, 7, 3499-503 2010
- 2245 Preparation and electrochemical characteristics of manganese dioxide/graphite nanoplatelet composites. **2008**, 151, 174-178 42
- 2244 Colossal pressure-induced lattice expansion of graphite oxide in the presence of water. **2008**, 47, 8268-71 96
- 2243 Organic Photovoltaic Devices Based on a Novel Acceptor Material: Graphene. **2008**, 20, 3924-3930 750
- 2242 Mechanically Strong, Electrically Conductive, and Biocompatible Graphene Paper. **2008**, 20, 3557-3561 1665
- 2241 Deoxygenation of Exfoliated Graphite Oxide under Alkaline Conditions: A Green Route to Graphene Preparation. **2008**, 20, 4490-4493 1517

2240	Colossal Pressure-Induced Lattice Expansion of Graphite Oxide in the Presence of Water. 2008 , 120, 8392-8395		7
2239	Synthesis and Raman spectroscopic characterisation of carbon nanoscrolls. 2008 , 465, 254-257		38
2238	Surface features of exfoliated graphite/bentonite composites and their importance for ammonia adsorption. <i>Carbon</i> , 2008 , 46, 1241-1252	10.4	41
2237	Chemically modified graphene sheets produced by the solvothermal reduction of colloidal dispersions of graphite oxide. <i>Carbon</i> , 2008 , 46, 1994-1998	10.4	974
2236	Study of electrical and dielectric properties of styrene-acrylonitrile/graphite sheets composites. 2008 , 44, 2367-2375		41
2235	Transparent graphene/PEDOT:PSS composite films as counter electrodes of dye-sensitized solar cells. 2008 , 10, 1555-1558		736
2234	Physical properties of silicone foams filled with carbon nanotubes and functionalized graphene sheets. 2008 , 44, 2790-2797		99
2233	Reduced graphene oxide molecular sensors. 2008 , 8, 3137-40		1484
2232	Graphene-based ultracapacitors. 2008 , 8, 3498-502		6815
2231	TiO ₂ -graphene nanocomposites. UV-assisted photocatalytic reduction of graphene oxide. 2008 , 2, 1487-91		2230
2230	Synthesis of water soluble graphene. 2008 , 8, 1679-82		2346
2229	Graphene oxide dispersions in organic solvents. 2008 , 24, 10560-4		2195
2228	Diazonium functionalization of surfactant-wrapped chemically converted graphene sheets. 2008 , 130, 16201-6		844
2227	Wafer-scale reduced graphene oxide films for nanomechanical devices. 2008 , 8, 3441-5		348
2226	Solutions of negatively charged graphene sheets and ribbons. 2008 , 130, 15802-4		410
2225	Graphene terahertz generators for molecular circuits and sensors. 2008 , 112, 13699-705		65
2224	Evaluation of solution-processed reduced graphene oxide films as transparent conductors. 2008 , 2, 463-70		2716
2223	Aqueous Suspension and Characterization of Chemically Modified Graphene Sheets. 2008 , 20, 6592-6594		838

2222	Processable aqueous dispersions of graphene nanosheets. 2008 , 3, 101-5	7729
2221	Highly conducting graphene sheets and Langmuir-Blodgett films. 2008 , 3, 538-42	1750
2220	High-yield production of graphene by liquid-phase exfoliation of graphite. 2008 , 3, 563-8	4715
2219	Graphene production: new solutions to a new problem. 2008 , 3, 528-9	85
2218	Monolayers with an IQ. 2008 , 3, 529-530	16
2217	Large-area ultrathin films of reduced graphene oxide as a transparent and flexible electronic material. 2008 , 3, 270-4	3697
2216	Tunable electrical conductivity of individual graphene oxide sheets reduced at "low" temperatures. 2008 , 8, 4283-7	745
2215	Mercury vapor release from broken compact fluorescent lamps and in situ capture by new nanomaterial sorbents. 2008 , 42, 5772-8	106
2214	A new solution to graphene production. 2008 ,	1
2213	Facile Synthesis and Characterization of Graphene Nanosheets. 2008 , 112, 8192-8195	1697
2212	Transparent and conducting electrodes for organic electronics from reduced graphene oxide. 2008 , 92, 233305	336
2211	Substrate-free gas-phase synthesis of graphene sheets. 2008 , 8, 2012-6	627
2210	Graphene oxide papers modified by divalent ions-enhancing mechanical properties via chemical cross-linking. 2008 , 2, 572-8	1423
2209	Modeling of graphite oxide. 2008 , 130, 10697-701	654
2208	Graphene oxidation: thickness-dependent etching and strong chemical doping. 2008 , 8, 1965-70	704
2207	Epitaxial-graphene/graphene-oxide junction: an essential step towards epitaxial graphene electronics. 2008 , 101, 026801	265
2206	Effect of Water Vapor on Electrical Properties of Individual Reduced Graphene Oxide Sheets. 2008 , 112, 20264-20268	293
2205	The assembly of single-layer graphene oxide and graphene using molecular templates. 2008 , 8, 3141-5	134

2204	Uptake of H ₂ and CO ₂ by Graphene. 2008 , 112, 15704-15707	257
2203	Graphene-based single-bacterium resolution biodevice and DNA transistor: interfacing graphene derivatives with nanoscale and microscale biocomponents. 2008 , 8, 4469-76	1038
2202	Graphene/Metal Particle Nanocomposites. 2008 , 112, 19841-19845	1368
2201	Materials science. Graphene-based materials. 2008 , 320, 1170-1	1257
2200	Functionalized graphene sheet filled silicone foam nanocomposites. 2008 , 18, 2221	311
2199	Synthesis and solid-state NMR structural characterization of ¹³ C-labeled graphite oxide. 2008 , 321, 1815-7	1006
2198	Temperature dependent Raman spectroscopy of chemically derived graphene. 2008 , 93, 193119	42
2197	Large-scale graphene production by RF-cCVD method. 2009 , 4061-3	97
2196	Synthesis of High Quality Few Layer Graphene Sheets in Large Quantities by Radio Frequency Chemical Vapor Deposition. 2009 , 1204, 1	
2195	Electronic transport in monolayer graphene nanoribbons produced by chemical unzipping of carbon nanotubes. 2009 , 95, 253108	68
2194	Curing behaviour of epoxy resin/graphite composites containing ionic liquid. 2009 , 42, 145307	19
2193	Preparation and Consolidation of Alumina/Graphene Composite Powders. 2009 , 50, 749-751	65
2192	Development of a prototype miniature silicon microgyroscope. 2009 , 9, 4586-605	12
2191	Dispersibility and stability improvement of graphite nanoplatelets in organic solvent by assistance of dispersant and resin. 2009 , 44, 977-983	8
2190	A low-cost method for preliminary separation of reduced graphene oxide nanosheets. 2009 , 63, 2051-2054	51
2189	Polymer Photovoltaic Cells Based on Solution-Processable Graphene and P3HT. 2009 , 19, 894-904	437
2188	Molecular-Level Dispersion of Graphene into Poly(vinyl alcohol) and Effective Reinforcement of their Nanocomposites. 2009 , 19, 2297-2302	1350
2187	Evolution of Electrical, Chemical, and Structural Properties of Transparent and Conducting Chemically Derived Graphene Thin Films. 2009 , 19, 2577-2583	1451

2186	Efficient Reduction of Graphite Oxide by Sodium Borohydride and Its Effect on Electrical Conductance. 2009 , 19, 1987-1992	1831
2185	Preparation, Structure, and Electrochemical Properties of Reduced Graphene Sheet Films. 2009 , 19, 2782-2789	1024
2184	Liquid-Phase Exfoliation of Nanotubes and Graphene. 2009 , 19, 3680-3695	518
2183	Field Emission of Single-Layer Graphene Films Prepared by Electrophoretic Deposition. 2009 , 21, 1756-1760	562
2182	Soft Transfer Printing of Chemically Converted Graphene. 2009 , 21, 2098-2102	166
2181	Dispersion of Graphene Sheets in Organic Solvent Supported by Ionic Interactions. 2009 , 21, 1679-1683	559
2180	Carbon-Based Field-Effect Transistors for Nanoelectronics. 2009 , 21, 2586-2600	215
2179	Self-Assembled Free-Standing Graphite Oxide Membrane. 2009 , 21, 3007-3011	788
2178	Patterned Graphene Electrodes from Solution-Processed Graphite Oxide Films for Organic Field-Effect Transistors. 2009 , 21, 3488-3491	323
2177	One-step exfoliation synthesis of easily soluble graphite and transparent conducting graphene sheets. 2009 , 21, 4383-7	198
2176	MOF/Graphite Oxide Composites: Combining the Uniqueness of Graphene Layers and Metal-Organic Frameworks. 2009 , 21, 4753-4757	489
2175	Zweidimensionale Polymere: nur ein Traum von Synthetikern?. 2009 , 121, 1048-1089	106
2174	The formation of large-area conducting graphene-like platelets. 2009 , 15, 8235-40	71
2173	Large-Scale Synthesis of Few-Layered Graphene using CVD. 2009 , 15, 53-56	181
2172	Graphen, das neue zweidimensionale Nanomaterial. 2009 , 121, 7890-7916	196
2171	Two-dimensional polymers: just a dream of synthetic chemists?. 2009 , 48, 1030-69	590
2170	Graphene: the new two-dimensional nanomaterial. 2009 , 48, 7752-77	3344
2169	Direct synthesis of carbon nanosheets by the solid-state pyrolysis of betaine. 2009 , 44, 1407-1411	13

2168	Chemical self-assembly of graphene sheets. 2009 , 2, 336-342	78
2167	Growth of large-area single- and Bi-layer graphene by controlled carbon precipitation on polycrystalline Ni surfaces. 2009 , 2, 509-516	417
2166	Synthesis of isotopically-labeled graphite films by cold-wall chemical vapor deposition and electronic properties of graphene obtained from such films. 2009 , 2, 851-856	46
2165	Trends in graphene research. 2009 , 12, 34-37	86
2164	Synthesis of amphiphilic graphene nanoplatelets. 2009 , 5, 82-5	325
2163	Photoconductivity of bulk-film-based graphene sheets. 2009 , 5, 1682-7	75
2162	How does graphene grow? Easy access to well-ordered graphene films. 2009 , 5, 2291-6	39
2161	A facile and novel synthesis of Ag-graphene-based nanocomposites. 2009 , 5, 2253-9	458
2160	Longitudinal unzipping of carbon nanotubes to form graphene nanoribbons. 2009 , 458, 872-6	2885
2159	New insights into the structure and reduction of graphite oxide. 2009 , 1, 403-8	2094
2158	High-throughput solution processing of large-scale graphene. 2009 , 4, 25-9	1778
2157	Gram-scale production of graphene based on solvothermal synthesis and sonication. 2009 , 4, 30-3	903
2156	Chemical methods for the production of graphenes. 2009 , 4, 217-24	5501
2155	Chemical analysis of graphene oxide films after heat and chemical treatments by X-ray photoelectron and Micro-Raman spectroscopy. <i>Carbon</i> , 2009 , 47, 145-152	10.4 2619
2154	Electrochemical interfacial capacitance in multilayer graphene sheets: Dependence on number of stacking layers. 2009 , 11, 1729-1732	143
2153	Elastic properties of single-layered graphene sheet. 2009 , 149, 91-95	199
2152	Decomposition kinetics of nylon-6/graphite and nylon-6/graphite oxide composites. 2009 , 490, 32-36	24
2151	Preparation of graphite nanoplatelets and graphene sheets. 2009 , 336, 592-8	342

2150	Carbon nanosheets as the electrode material in supercapacitors. 2009 , 194, 1208-1212		150
2149	Graphene-like nano-sheets for surface acoustic wave gas sensor applications. 2009 , 467, 344-347		321
2148	Thermal stability of graphite oxide. 2009 , 470, 255-258		366
2147	Controlling work function of reduced graphite oxide with Au-ion concentration. 2009 , 475, 91-95		96
2146	Study of dielectric properties of styrene-acrylonitrile graphite sheets composites in low and high frequency region. 2009 , 45, 1777-1784		87
2145	Synthesis of enhanced hydrophilic and hydrophobic graphene oxide nanosheets by a solvothermal method. <i>Carbon</i> , 2009 , 47, 68-72	10.4	409
2144	Synthesis of high-quality graphene with a pre-determined number of layers. <i>Carbon</i> , 2009 , 47, 493-499	10.4	584
2143	Electromagnetic interference shielding of graphene/epoxy composites. <i>Carbon</i> , 2009 , 47, 922-925	10.4	1044
2142	Synthesis and characterisation of hydrophilic and organophilic graphene nanosheets. <i>Carbon</i> , 2009 , 47, 1359-1364	10.4	521
2141	Restoring electrical conductivity of dielectrophoretically assembled graphite oxide sheets by thermal and chemical reduction techniques. <i>Carbon</i> , 2009 , 47, 1520-1525	10.4	138
2140	Chemical and electrochemical syntheses of a graphite fluoro-tris(pentafluoroethyl)borate intercalation compound. <i>Carbon</i> , 2009 , 47, 1592-1597	10.4	5
2139	Synthesis of two dimensional carbon sheets from adamantane. <i>Carbon</i> , 2009 , 47, 2546-2548	10.4	8
2138	Synthesis, characterization and optical limiting property of covalently oligothiophene-functionalized graphene material. <i>Carbon</i> , 2009 , 47, 3113-3121	10.4	198
2137	Size-controlled synthesis of graphene oxide sheets on a large scale using chemical exfoliation. <i>Carbon</i> , 2009 , 47, 3365-3368	10.4	370
2136	ZrC ablation protective coating for carbon/carbon composites. <i>Carbon</i> , 2009 , 47, 3368-3371	10.4	135
2135	Strong and ductile poly(vinyl alcohol)/graphene oxide composite films with a layered structure. <i>Carbon</i> , 2009 , 47, 3538-3543	10.4	629
2134	Catalytic unzipping of carbon nanotubes to few-layer graphene sheets under microwaves irradiation. 2009 , 371, 22-30		46
2133	Graphene nanosheets for enhanced lithium storage in lithium ion batteries. <i>Carbon</i> , 2009 , 47, 2049-2053	10.4	1153

2132	Practical chemical sensors from chemically derived graphene. 2009 , 3, 301-6	1215
2131	Fast and Facile Preparation of Graphene Oxide and Reduced Graphene Oxide Nanoplatelets. 2009 , 21, 3514-3520	737
2130	Colloidal suspensions of highly reduced graphene oxide in a wide variety of organic solvents. 2009 , 9, 1593-7	1382
2129	Stable dispersions of graphene and highly conducting graphene films: a new approach to creating colloids of graphene monolayers. 2009 , 4527-9	232
2128	Self-assembled TiO ₂ -graphene hybrid nanostructures for enhanced Li-ion insertion. 2009 , 3, 907-14	1517
2127	Chemical functionalization of graphene. 2009 , 21, 344205	286
2126	Room-temperature ferromagnetism of graphene. 2009 , 9, 220-4	533
2125	Supercapacitor Devices Based on Graphene Materials. 2009 , 113, 13103-13107	2018
2124	. 2009 , 37, 726-739	33
2123	Layer-by-layer self-assembly of graphene nanoplatelets. 2009 , 25, 6122-8	248
2122	Liquid phase production of graphene by exfoliation of graphite in surfactant/water solutions. 2009 , 131, 3611-20	1821
2121	Novel Magnetic Properties of Graphene: Presence of Both Ferromagnetic and Antiferromagnetic Features and Other Aspects. 2009 , 113, 9982-9985	227
2120	Palladium nanoparticles on graphite oxide and its functionalized graphene derivatives as highly active catalysts for the Suzuki-Miyaura coupling reaction. 2009 , 131, 8262-70	1041
2119	A green approach to the synthesis of graphene nanosheets. 2009 , 3, 2653-9	1894
2118	Covalent polymer functionalization of graphene nanosheets and mechanical properties of composites. 2009 , 19, 7098	1107
2117	Processing and characterization of ultrathin carbon coatings on glass. 2009 , 1, 927-33	20
2116	Correlating Raman spectral signatures with carrier mobility in epitaxial graphene: a guide to achieving high mobility on the wafer scale. 2009 , 9, 2873-6	161
2115	Tellurium Nanowire-Induced Room Temperature Conversion of Graphite Oxide to Leaf-like Graphenic Structures. 2009 , 113, 1727-1737	71

2114	High-quality Graphenes via a facile quenching method for field-effect transistors. 2009 , 9, 1374-7	80
2113	Hierarchy of electronic properties of chemically derived and pristine graphene probed by microwave imaging. 2009 , 9, 3762-5	50
2112	Facile preparation and thermal degradation studies of graphite nanoplatelets (GNPs) filled thermoplastic polyurethane (TPU) nanocomposites. 2009 , 40, 1506-1513	192
2111	Elastic buckling of single-layered graphene sheet. 2009 , 45, 266-270	111
2110	Langmuir-Blodgett assembly of graphite oxide single layers. 2009 , 131, 1043-9	1489
2109	Synthesis of graphene sheets with high electrical conductivity and good thermal stability by hydrogen arc discharge exfoliation. 2009 , 3, 411-7	702
2108	Solvothermal reduction of chemically exfoliated graphene sheets. 2009 , 131, 9910-1	744
2107	Hydrothermal Dehydration for the Green Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. 2009 , 21, 2950-2956	1285
2106	Covalent functionalization of polydisperse chemically-converted graphene sheets with amine-terminated ionic liquid. 2009 , 3880-2	561
2105	Tailoring the characteristics of graphite oxides by different oxidation times. 2009 , 42, 065418	168
2104	Synthesis of poly(vinyl alcohol)/reduced graphite oxide nanocomposites with improved thermal and electrical properties. 2009 , 19, 5027	257
2103	Durable large-area thin films of graphene/carbon nanotube double layers as a transparent electrode. 2009 , 25, 11302-6	182
2102	Electron field emission from screen-printed graphene films. 2009 , 20, 425702	125
2101	Electrical conductivity of graphene films with a poly(allylamine hydrochloride) supporting layer. 2009 , 25, 11008-13	50
2100	High-throughput synthesis of graphene by intercalation-exfoliation of graphite oxide and study of ionic screening in graphene transistor. 2009 , 3, 3587-94	237
2099	Mechanically Assisted Exfoliation and Functionalization of Thermally Converted Graphene Sheets. 2009 , 21, 3045-3047	79
2098	Electrostatic deposition of graphene in a gaseous environment: a deterministic route for synthesizing rolled graphenes?. 2009 , 20, 055611	36
2097	Layer-by-layer assembly of graphene and gold nanoparticles by vacuum filtration and spontaneous reduction of gold ions. 2009 , 2174-6	372

2096	Revisiting the chemistry of graphite oxides and its effect on ammonia adsorption. 2009 , 19, 9176	215
2095	Electrical conduction mechanism in chemically derived graphene monolayers. 2009 , 9, 1787-92	293
2094	Insulator to Semimetal Transition in Graphene Oxide. 2009 , 113, 15768-15771	504
2093	Transparent self-assembled films of reduced graphene oxide platelets. 2009 , 95, 103104	155
2092	High throughput exfoliation of graphene oxide from expanded graphite with assistance of strong oxidant in modified Hummers method. 2009 , 188, 012051	50
2091	Covalent functionalization of chemically converted graphene sheets via silane and its reinforcement. 2009 , 19, 4632	633
2090	High-yield organic dispersions of unfunctionalized graphene. 2009 , 9, 3460-2	445
2089	Preparation of graphene dispersions and graphene-polymer composites in organic media. 2009 , 19, 3591	276
2088	An electrical method for the measurement of the thermal and electrical conductivity of reduced graphene oxide nanostructures. 2009 , 20, 405704	113
2087	Microwave synthesis of graphene sheets supporting metal nanocrystals in aqueous and organic media. 2009 , 19, 3832	459
2086	Synthesis and Characterization of Titania/Graphene Nanocomposites. 2009 , 113, 19812-19823	351
2085	Plasma Fluorination of Chemically Derived Graphene Sheets and Subsequent Modification With Butylamine. 2009 , 21, 3433-3438	135
2084	Sn/graphene nanocomposite with 3D architecture for enhanced reversible lithium storage in lithium ion batteries. 2009 , 19, 8378	482
2083	Direct Electrochemical Reduction of Single-Layer Graphene Oxide and Subsequent Functionalization with Glucose Oxidase. 2009 , 113, 14071-14075	583
2082	Graphene oxide amplified electrogenerated chemiluminescence of quantum dots and its selective sensing for glutathione from thiol-containing compounds. 2009 , 81, 9710-5	366
2081	Atomic force and scanning tunneling microscopy imaging of graphene nanosheets derived from graphite oxide. 2009 , 25, 5957-68	575
2080	Large area, few-layer graphene films on arbitrary substrates by chemical vapor deposition. 2009 , 9, 30-5	4737
2079	Enhanced electrocatalytic activity of Pt subnanoclusters on graphene nanosheet surface. 2009 , 9, 2255-9	977

2078	Mild sonochemical exfoliation of bromine-intercalated graphite: a new route towards graphene. 2009 , 42, 112003	58
2077	Implantation and growth of dendritic gold nanostructures on graphene derivatives: electrical property tailoring and Raman enhancement. 2009 , 3, 2358-66	331
2076	Large-Area Chemically Modified Graphene Films: Electrophoretic Deposition and Characterization by Soft X-ray Absorption Spectroscopy. 2009 , 21, 3905-3916	237
2075	Aqueous Dispersion of Graphene Sheets Stabilized by Pluronic Copolymers: Formation of Supramolecular Hydrogel. 2009 , 113, 13651-13657	378
2074	Structural and electronic properties of oxidized graphene. 2009 , 103, 086802	408
2073	Epoxide reduction with hydrazine on graphene: a first principles study. 2009 , 131, 064704	131
2072	The synthesis of perylene-coated graphene sheets decorated with Au nanoparticles and its electrocatalysis toward oxygen reduction. 2009 , 19, 4022	137
2071	High-yield dielectrophoretic assembly of two-dimensional graphene nanostructures. 2009 , 94, 053110	33
2070	Convenient preparation of tunably loaded chemically converted graphene oxide/epoxy resin nanocomposites from graphene oxide sheets through two-phase extraction. 2009 , 19, 8856	150
2069	Electrogenerated chemiluminescence of partially oxidized highly oriented pyrolytic graphite surfaces and of graphene oxide nanoparticles. 2009 , 131, 937-9	102
2068	Defect scattering in graphene. 2009 , 102, 236805	486
2067	Li Storage Properties of Disordered Graphene Nanosheets. 2009 , 21, 3136-3142	879
2066	Wettability and surface free energy of graphene films. 2009 , 25, 11078-81	782
2065	Versatile Catalytic System for the Large-Scale and Controlled Synthesis of Single-Wall, Double-Wall, Multi-Wall, and Graphene Carbon Nanostructures. 2009 , 21, 5491-5498	24
2064	Functionalized graphene sheet colloids for enhanced fuel/propellant combustion. 2009 , 3, 3945-54	185
2063	Reduction Kinetics of Graphene Oxide Determined by Electrical Transport Measurements and Temperature Programmed Desorption. 2009 , 113, 18480-18486	173
2062	Electrostatic force assisted exfoliation of prepatterned few-layer graphenes into device sites. 2009 , 9, 467-72	96
2061	One-step synthesis of graphene/SnO ₂ nanocomposites and its application in electrochemical supercapacitors. 2009 , 20, 455602	360

2060	Graphene Oxide Sheets Chemically Cross-Linked by Polyallylamine. 2009 , 113, 15801-15804	447
2059	Electrochemical Properties of Graphene Paper Electrodes Used in Lithium Batteries. 2009 , 21, 2604-2606	514
2058	Photocatalytic Reduction of Graphene Oxide Nanosheets on TiO ₂ Thin Film for Photoinactivation of Bacteria in Solar Light Irradiation. 2009 , 113, 20214-20220	798
2057	Nanocarbons by High-Temperature Decomposition of Graphite Oxide at Various Pressures. 2009 , 113, 11279-11284	36
2056	Graphene sheets from worm-like exfoliated graphite. 2009 , 19, 3367	173
2055	Chemically converted graphene induced molecular flattening of 5,10,15,20-tetrakis(1-methyl-4-pyridinio)porphyrin and its application for optical detection of cadmium(II) ions. 2009 , 131, 13490-7	455
2054	Electrochemical Reduction of Oriented Graphene Oxide Films: An in Situ Raman Spectroelectrochemical Study. 2009 , 113, 7985-7989	489
2053	Simultaneous nitrogen doping and reduction of graphene oxide. 2009 , 131, 15939-44	1492
2052	Low-temperature exfoliated graphenes: vacuum-promoted exfoliation and electrochemical energy storage. 2009 , 3, 3730-6	633
2051	Infrared-Triggered Actuators from Graphene-Based Nanocomposites. 2009 , 113, 9921-9927	318
2050	Electrical and Spectroscopic Characterizations of Ultra-Large Reduced Graphene Oxide Monolayers. 2009 , 21, 5674-5680	425
2049	Electrocatalytically Active Graphene-Platinum Nanocomposites. Role of 2-D Carbon Support in PEM Fuel Cells. 2009 , 113, 7990-7995	846
2048	Flash reduction and patterning of graphite oxide and its polymer composite. 2009 , 131, 11027-32	743
2047	Carbon Nanotubes and Related Structures. 2009 , 441-491	
2046	Production of Graphite Nanosheets by Low-Current Plasma Discharge in Liquid Ethanol. 2010 , 51, 1455-1459	11
2045	Electrochemical preparation of hybrid film using inorganic nanosheets and the related electrochemical properties. 2010 , 118, 257-262	4
2044	Preparation of Semiconducting Graphene-based Carbon Films from Silylated Graphite Oxide and Covalent Attachment of Dye Molecules. 2010 , 39, 636-637	7
2043	Photoreduction of Graphene Oxide Nanosheet by UV-light Illumination under H ₂ . 2010 , 39, 750-752	22

2042	Synthesis and application of widely soluble graphene sheets. 2010 , 26, 12314-20	136
2041	Synthesis of phase transferable graphene sheets using ionic liquid polymers. 2010 , 4, 1612-8	208
2040	Synthesis of Graphene and Its Applications: A Review. 2010 , 35, 52-71	1196
2039	Preparation of graphene by exfoliation of graphite using wet ball milling. 2010 , 20, 5817	400
2038	Improved synthesis of graphene oxide. 2010 , 4, 4806-14	8269
2037	Reduced graphene oxide by chemical graphitization. 2010 , 1, 73	1645
2036	Toxicity of graphene and graphene oxide nanowalls against bacteria. 2010 , 4, 5731-6	1852
2035	The chemistry of graphene oxide. 2010 , 39, 228-40	8747
2034	Synthesis of visible-light responsive graphene oxide/TiO(2) composites with p/n heterojunction. 2010 , 4, 6425-32	741
2033	To What Extent Do Graphene Scaffolds Improve the Photovoltaic and Photocatalytic Response of TiO ₂ Nanostructured Films?. 2010 , 1, 2222-2227	351
2032	Graphene-Based Nanoarchitectures. Anchoring Semiconductor and Metal Nanoparticles on a Two-Dimensional Carbon Support. 2010 , 1, 520-527	895
2031	Characterization of Graphene Nanoribbons from the Unzipping of MWCNTs. 2010 , 18, 261-272	23
2030	Thin Film Fabrication and Simultaneous Anodic Reduction of Deposited Graphene Oxide Platelets by Electrophoretic Deposition. 2010 , 1, 1259-1263	388
2029	A nanostructured graphene/polyaniline hybrid material for supercapacitors. 2010 , 2, 2164-70	536
2028	Platinum nanoparticle ensemble-on-graphene hybrid nanosheet: one-pot, rapid synthesis, and used as new electrode material for electrochemical sensing. 2010 , 4, 3959-68	660
2027	Transparent, flexible conducting hybrid multilayer thin films of multiwalled carbon nanotubes with graphene nanosheets. 2010 , 4, 3861-8	285
2026	Graphene/Polyaniline Nanofiber Composites as Supercapacitor Electrodes. 2010 , 22, 1392-1401	1884
2025	Hydrazine and Thermal Reduction of Graphene Oxide: Reaction Mechanisms, Product Structures, and Reaction Design. 2010 , 114, 832-842	883

2024	Fabrication of graphene flakes composed of multi-layer graphene sheets using a thermal plasma jet system. 2010 , 21, 095601	28
2023	Fabrication of free-standing, electrochemically active, and biocompatible graphene oxide-polyaniline and graphene-polyaniline hybrid papers. 2010 , 2, 2521-9	429
2022	Nitrogen-doped graphene and its electrochemical applications. 2010 , 20, 7491	934
2021	Anchoring semiconductor and metal nanoparticles on a two-dimensional catalyst mat. Storing and shuttling electrons with reduced graphene oxide. 2010 , 10, 577-83	937
2020	Graphene nanomesh by ZnO nanorod photocatalysts. 2010 , 4, 4174-80	612
2019	Enhanced Mechanical Properties of Graphene-Based Poly(vinyl alcohol) Composites. 2010 , 43, 2357-2363	1173
2018	Organic functionalisation of graphenes. 2010 , 46, 1766-8	235
2017	Graphene/Polymer Nanocomposites. 2010 , 43, 6515-6530	2683
2016	Graphene-based antibacterial paper. 2010 , 4, 4317-23	1540
2015	Exfoliation and chemical modification using microwave irradiation affording highly functionalized graphene. 2010 , 4, 7499-507	131
2014	Graphene oxides for homogeneous dispersion of carbon nanotubes. 2010 , 2, 3217-22	114
2013	Simple photoreduction of graphene oxide nanosheet under mild conditions. 2010 , 2, 3461-6	190
2012	Preparation and properties of graphene nanosheets/polystyrene nanocomposites via in situ emulsion polymerization. 2010 , 484, 247-253	349
2011	Highly sensitive electrocatalytic biosensing of hypoxanthine based on functionalization of graphene sheets with water-soluble conducting graft copolymer. 2010 , 26, 371-6	96
2010	Capillary zone electrophoresis of graphene oxide and chemically converted graphene. 2010 , 1217, 7593-7	44
2009	Efficient and large-scale synthesis of few-layered graphene using an arc-discharge method and conductivity studies of the resulting films. 2010 , 3, 661-669	233
2008	Laterally confined graphene nanosheets and graphene/SnO ₂ composites as high-rate anode materials for lithium-ion batteries. 2010 , 3, 748-756	86
2007	SnO ₂ /graphene composite with high lithium storage capability for lithium rechargeable batteries. 2010 , 3, 813-821	171

2006	Efficient synthesis of graphene nanoribbons sonochemically cut from graphene sheets. 2010 , 3, 16-22	127
2005	Soluble graphene through edge-selective functionalization. 2010 , 3, 117-125	114
2004	Microwave synthesis of large few-layer graphene sheets in aqueous solution of ammonia. 2010 , 3, 126-137	105
2003	Facile preparation and characterization of graphene nanosheets/polystyrene composites. 2010 , 18, 1008-1012	25
2002	Physical and thermal properties of acid-graphite/styrene-butadiene-rubber nanocomposites. 2010 , 27, 1296-1300	17
2001	Electrical Conductivity of Graphene Composites with In and In-Ga Alloy. 2010 , 39, 1268-1276	22
2000	Highly Efficient Method for Preparing Homogeneous and Stable Colloids Containing Graphene Oxide. 2011 , 6, 47	36
1999	In Situ Synthesis of Reduced Graphene Oxide and Gold Nanocomposites for Nanoelectronics and Biosensing. 2011 , 6, 60	74
1998	Modification of expanded graphite resulting in enhancement of electrochemical activity in the process of phenol oxidation. 2010 , 40, 91-98	14
1997	Effect of chemical modification of graphite nanoplatelets on electrochemical performance of MnO ₂ electrodes. 2010 , 21, 619-624	7
1996	Infrared-photovoltaic properties of graphene revealed by electro-osmotic spray direct patterning of electrodes. 2010 , 5, 140	4
1995	Structures of thermally and chemically reduced graphene. 2010 , 64, 357-360	111
1994	Photoluminescence and Raman studies of graphene thin films prepared by reduction of graphene oxide. 2010 , 64, 399-401	163
1993	Optoelectronic properties of graphene thin films prepared by thermal reduction of graphene oxide. 2010 , 64, 765-767	47
1992	The route to functional graphene oxide. 2010 , 11, 2131-9	262
1991	Thinnest two-dimensional nanomaterial-graphene for solar energy. 2010 , 3, 782-96	185
1990	Ag/Graphene Heterostructures: Synthesis, Characterization and Optical Properties. 2010 , 2010, 1244-1248	249
1989	Graphene Based Electrochemical Sensors and Biosensors: A Review. 2010 , 22, 1027-1036	2430

1988	Direct Electrochemistry and Bioelectrocatalysis of Microperoxidase-11 Immobilized on Chitosan-Graphene Nanocomposite. 2010 , 22, 1323-1328	48
1987	Simultaneous Determination of Ascorbic Acid, Dopamine and Uric Acid with Chitosan-Graphene Modified Electrode. 2010 , 22, 2001-2008	286
1986	Electrochemiluminescence Biosensor for Glucose Based on Graphene/Nafion/GOD Film Modified Glassy Carbon Electrode. 2010 , 22, 2347-2352	50
1985	Graphene Nanosheets Modified Glassy Carbon Electrode as a Highly Sensitive and Selective Voltammetric Sensor for Rutin. 2010 , 22, 2399-2406	40
1984	Comparative Studies on Electrocatalytic Activities of Chemically Reduced Graphene Oxide and Electrochemically Reduced Graphene Oxide Noncovalently Functionalized with Poly(methylene blue). 2010 , 22, 2862-2870	17
1983	Graphene-Based Nanoporous Materials Assembled by Mediation of Polyoxometalate Nanoparticles. 2010 , 20, 2717-2722	169
1982	Graphite Oxide as a Photocatalyst for Hydrogen Production from Water. 2010 , 20, 2255-2262	663
1981	Self-Assembled Graphene Enzyme Hierarchical Nanostructures for Electrochemical Biosensing. 2010 , 20, 3366-3372	242
1980	High-Nanofiller-Content Graphene Oxide Polymer Nanocomposites via Vacuum-Assisted Self-Assembly. 2010 , 20, 3322-3329	434
1979	Self-Propagating Domino-like Reactions in Oxidized Graphite. 2010 , 20, 2867-2873	271
1978	A Transparent, Flexible, Low-Temperature, and Solution-Processible Graphene Composite Electrode. 2010 , 20, 2893-2902	349
1977	Anchoring Hydrus RuO ₂ on Graphene Sheets for High-Performance Electrochemical Capacitors. 2010 , 20, 3595-3602	1033
1976	Photothermal deoxygenation of graphene oxide for patterning and distributed ignition applications. 2010 , 22, 419-23	144
1975	A facile one-step method to produce graphene-CdS quantum dot nanocomposites as promising optoelectronic materials. 2010 , 22, 103-6	634
1974	Electrically conductive "alkylated" graphene paper via chemical reduction of amine-functionalized graphene oxide paper. 2010 , 22, 892-6	524
1973	Biocompatible, robust free-standing paper composed of a TWEEN/graphene composite. 2010 , 22, 1736-40	340
1972	Chemically derived graphene oxide: towards large-area thin-film electronics and optoelectronics. 2010 , 22, 2392-415	1818
1971	Graphene oxide: surface activity and two-dimensional assembly. 2010 , 22, 1954-8	537

1970	A three-dimensional carbon nanotube/graphene sandwich and its application as electrode in supercapacitors. 2010 , 22, 3723-8	1092
1969	Graphene and graphene oxide: synthesis, properties, and applications. 2010 , 22, 3906-24	7620
1968	Real-time DNA detection using reduced graphene oxide field effect transistors. 2010 , 22, 5297-300	135
1967	Thin film field-effect phototransistors from bandgap-tunable, solution-processed, few-layer reduced graphene oxide films. 2010 , 22, 4872-6	196
1966	Electric current induced reduction of graphene oxide and its application as gap electrodes in organic photoswitching devices. 2010 , 22, 5008-12	81
1965	Sonication-assisted fabrication and post-synthetic modifications of graphene-like materials. 2010 , 16, 5246-59	115
1964	Rapid and direct conversion of graphite crystals into high-yielding, good-quality graphene by supercritical fluid exfoliation. 2010 , 16, 6488-94	158
1963	A carbon nanohorn-porphyrin supramolecular assembly for photoinduced electron-transfer processes. 2010 , 16, 10752-63	42
1962	All-Organic Vapor Sensor Using Inkjet-Printed Reduced Graphene Oxide. 2010 , 122, 2200-2203	85
1961	Noble-Metal-Promoted Three-Dimensional Macroassembly of Single-Layered Graphene Oxide. 2010 , 122, 4707-4711	123
1960	A Graphene Oxide Based Immuno-biosensor for Pathogen Detection. 2010 , 122, 5844-5847	49
1959	Graphene-Based Nanosheets with a Sandwich Structure. 2010 , 122, 4905-4909	55
1958	Interfacial Engineering by Proteins: Exfoliation and Functionalization of Graphene by Hydrophobins. 2010 , 122, 5066-5069	23
1957	Graphene Oxide: A Convenient Carbocatalyst for Facilitating Oxidation and Hydration Reactions. 2010 , 122, 6965-6968	218
1956	Ein Konzept und seine Umsetzung: Graphen gestern, heute und morgen. 2010 , 122, 9524-9532	53
1955	Graphen [wie eine Laborkuriosit] pltzlich [berst] interessant wurde. 2010 , 122, 9520-9523	13
1954	Layer-by-Layer Films of Graphene and Ionic Liquids for Highly Selective Gas Sensing. 2010 , 122, 9931-9933	63
1953	All-organic vapor sensor using inkjet-printed reduced graphene oxide. 2010 , 49, 2154-7	760

1952	Noble-metal-promoted three-dimensional macroassembly of single-layered graphene oxide. 2010 , 49, 4603-7	454
1951	A graphene oxide based immuno-biosensor for pathogen detection. 2010 , 49, 5708-11	469
1950	Graphene-based nanosheets with a sandwich structure. 2010 , 49, 4795-9	434
1949	Interfacial engineering by proteins: exfoliation and functionalization of graphene by hydrophobins. 2010 , 49, 4946-9	146
1948	Graphene oxide: a convenient carbocatalyst for facilitating oxidation and hydration reactions. 2010 , 49, 6813-6	139
1947	From conception to realization: an historical account of graphene and some perspectives for its future. 2010 , 49, 9336-44	621
1946	Graphene--how a laboratory curiosity suddenly became extremely interesting. 2010 , 49, 9332-5	85
1945	Layer-by-layer films of graphene and ionic liquids for highly selective gas sensing. 2010 , 49, 9737-9	276
1944	Preparation and characterization of graphene/poly(vinyl alcohol) nanocomposites. 2010 , 118, 275-279	136
1943	Graphene Nanocomposites Prepared From Blends of Polymer Latex with Chemically Reduced Graphite Oxide Dispersions. 2010 , 295, 1107-1115	42
1942	Reduced Graphene Oxide/Poly(3-hexylthiophene) Supramolecular Composites. 2010 , 31, 380-4	89
1941	Solvothermal synthesis and characterization of sandwich-like graphene/ZnO nanocomposites. 2010 , 256, 2826-2830	284
1940	Preparation and characterization of graphene/CdS nanocomposites. 2010 , 257, 747-751	109
1939	Recent advances in graphene based polymer composites. 2010 , 35, 1350-1375	2609
1938	A coagulation technique for purification of graphene sheets with graphene-reinforced PVA hydrogel as byproduct. 2010 , 348, 384-7	39
1937	Covalent synthesis of organophilic chemically functionalized graphene sheets. 2010 , 348, 377-83	73
1936	Synthesis of hydrophilic and organophilic chemically modified graphene oxide sheets. 2010 , 352, 366-70	63
1935	Removal of oxidative carbonaceous fragments by annealing treatment studied by XANES. 2010 , 619, 323-325	0

1934	Polymer/graphite oxide composites as high-performance materials for electric double layer capacitors. 2010 , 195, 2414-2418	35
1933	Preparation of graphene nanosheet/carbon nanotube/polyaniline composite as electrode material for supercapacitors. 2010 , 195, 3041-3045	498
1932	Production of graphene sheets by a simple helium arc-discharge. 2010 , 42, 1267-1271	34
1931	A new poly(l-lactide)-grafted graphite oxide composite: Facile synthesis, electrical properties and crystallization behaviors. 2010 , 95, 2619-2627	46
1930	Polypropylene-graphite nanocomposites made by solid-state shear pulverization: Effects of significantly exfoliated, unmodified graphite content on physical, mechanical and electrical properties. 2010 , 51, 5525-5531	83
1929	Physical and mechanical properties of poly(methyl methacrylate) -functionalized graphene/poly(vinylidene fluoride) nanocomposites: Piezoelectric polymorph formation. 2010 , 51, 5846-5856	210
1928	In-situ synthesis and characterization of electrically conductive polypyrrole/graphene nanocomposites. 2010 , 51, 5921-5928	417
1927	Synthesis of aqueous dispersion of graphenes via reduction of graphite oxide in the solution of conductive polymer. 2010 , 71, 483-486	30
1926	Utilization of multiple graphene layers in fuel cells. 1. An improved technique for the exfoliation of graphene-based nanosheets from graphite. 2010 , 89, 1903-1910	82
1925	Nucleation effect of Si of 6HSiC-(0 0 1) (111)R30° surface: First-principles study. 2010 , 405, 3576-3580	4
1924	Acetylcholinesterase voltammetric biosensors based on carbon nanostructure-chitosan composite material for organophosphate pesticides. 2010 , 30, 817-821	42
1923	Reduction of functionalized graphite oxides by trioctylphosphine in non-polar organic solvents. <i>Carbon</i> , 2010 , 48, 2282-2289	10.4 102
1922	Scalable production of graphene sheets by mechanical delamination. <i>Carbon</i> , 2010 , 48, 3196-3204	10.4 180
1921	Electrochemical oxygen reduction on nitrogen doped graphene sheets in acid media. 2010 , 12, 1052-1055	243
1920	Constructing a hierarchical graphene-carbon nanotube architecture for enhancing exposure of graphene and electrochemical activity of Pt nanoclusters. 2010 , 12, 1206-1209	73
1919	Enhanced electrochemical sensitivity of PtRh electrodes coated with nitrogen-doped graphene. 2010 , 12, 1423-1427	74
1918	A novel hydrogen peroxide biosensor based on Au-graphene-IRP-chitosan biocomposites. 2010 , 55, 3055-3060	329
1917	Graphene as a conductive additive to enhance the high-rate capabilities of electrospun Li ₄ Ti ₅ O ₁₂ for lithium-ion batteries. 2010 , 55, 5813-5818	210

1916	Rapid microwave-assisted synthesis of graphene nanosheet/Co ₃ O ₄ composite for supercapacitors. 2010 , 55, 6973-6978		423
1915	Graphene-gold nanostructure composites fabricated by electrodeposition and their electrocatalytic activity toward the oxygen reduction and glucose oxidation. 2010 , 56, 491-500		156
1914	The improved electrocatalytic activity of palladium/graphene nanosheets towards ethanol oxidation by tin oxide. 2010 , 56, 139-144		72
1913	Ab initio study of the binding of collagen amino acids to graphene and A-doped (A=H, Ca) graphene. 2010 , 518, 6951-6961		61
1912	Characteristics of field-effect transistors based on undoped and B- and N-doped few-layer graphenes. 2010 , 150, 734-738		58
1911	Probing top-gated field effect transistor of reduced graphene oxide monolayer made by dielectrophoresis. 2010 , 150, 1295-1298		55
1910	Preparation of poly(3-hexylthiophene)/graphene nanocomposite via in situ reduction of modified graphite oxide sheets. 2010 , 257, 138-142		74
1909	Preparation of a graphene oxide- π -thalocyanine hybrid through strong π -interactions. <i>Carbon</i> , 2010 , 48, 211-216	10.4	171
1908	Preparation of a graphene nanosheet/polyaniline composite with high specific capacitance. <i>Carbon</i> , 2010 , 48, 487-493	10.4	911
1907	The effect of heat treatment on formation of graphene thin films from graphene oxide nanosheets. <i>Carbon</i> , 2010 , 48, 509-519	10.4	453
1906	Synthesis of graphene-like nanosheets and their hydrogen adsorption capacity. <i>Carbon</i> , 2010 , 48, 630-635	10.4	373
1905	Porphyrin counter anion in imidazolium-modified graphene-oxide. <i>Carbon</i> , 2010 , 48, 854-860	10.4	91
1904	Growth and properties of few-layer graphene prepared by chemical vapor deposition. <i>Carbon</i> , 2010 , 48, 1088-1094	10.4	294
1903	Preparation of graphene by the rapid and mild thermal reduction of graphene oxide induced by microwaves. <i>Carbon</i> , 2010 , 48, 1146-1152	10.4	816
1902	Hybrid Langmuir-Blodgett monolayers of graphite oxide nanosheets. <i>Carbon</i> , 2010 , 48, 1676-1680	10.4	39
1901	Alkyl-functionalized graphene nanosheets with improved lipophilicity. <i>Carbon</i> , 2010 , 48, 1683-1685	10.4	95
1900	An environmentally friendly and efficient route for the reduction of graphene oxide by aluminum powder. <i>Carbon</i> , 2010 , 48, 1686-1689	10.4	492
1899	Thermal and mechanical properties of graphite foam/Wood- β alloy composite for thermal energy storage. <i>Carbon</i> , 2010 , 48, 1689-1692	10.4	29

1898	Electrochemical properties of graphene nanosheet/carbon black composites as electrodes for supercapacitors. <i>Carbon</i> , 2010 , 48, 1731-1737	10.4	478
1897	Fast and simple fabrication of a large transparent chemically-converted graphene film by spray-coating. <i>Carbon</i> , 2010 , 48, 1945-1951	10.4	271
1896	Microwave assisted exfoliation and reduction of graphite oxide for ultracapacitors. <i>Carbon</i> , 2010 , 48, 2118-2122	10.4	698
1895	Determining the thickness of chemically modified graphenes by scanning probe microscopy. <i>Carbon</i> , 2010 , 48, 2657-2660	10.4	37
1894	Synthesis of ultra-large mesoporous carbons from triblock copolymers and phloroglucinol/formaldehyde polymer. <i>Carbon</i> , 2010 , 48, 2660-2664	10.4	31
1893	Nanopatterning of graphene with crystallographic orientation control. <i>Carbon</i> , 2010 , 48, 2677-2689	10.4	61
1892	The first graphite intercalation compounds containing tris(pentafluoroethyl)trifluorophosphate. <i>Carbon</i> , 2010 , 48, 3205-3210	10.4	37
1891	Investigation of optical modulated conductance effects based on a graphene oxide/zobenzene hybrid. <i>Carbon</i> , 2010 , 48, 3236-3241	10.4	106
1890	Sorption and desorption behavior of water and organic solvents from graphite oxide. <i>Carbon</i> , 2010 , 48, 3277-3286	10.4	88
1889	Improvement of mechanical properties of graphene oxide/poly(allylamine) composites by chemical crosslinking. <i>Carbon</i> , 2010 , 48, 3376-3381	10.4	115
1888	Reduction of graphene oxide by electron beam generated plasmas produced in methane/argon mixtures. <i>Carbon</i> , 2010 , 48, 3382-3390	10.4	89
1887	Highly crystalline graphene oxide nano-platelets produced from helical-ribbon carbon nanofibers. <i>Carbon</i> , 2010 , 48, 3640-3643	10.4	38
1886	Production of graphene from graphite oxide using urea as expansion/reduction agent. <i>Carbon</i> , 2010 , 48, 3463-3470	10.4	153
1885	Bulk growth of mono- to few-layer graphene on nickel particles by chemical vapor deposition from methane. <i>Carbon</i> , 2010 , 48, 3543-3550	10.4	83
1884	Fast and reversible surface redox reaction of graphene/MnO ₂ composites as supercapacitor electrodes. <i>Carbon</i> , 2010 , 48, 3825-3833	10.4	1169
1883	Preparation of organically dispersible graphene nanosheet powders through a lyophilization method and their poly(lactic acid) composites. <i>Carbon</i> , 2010 , 48, 3834-3839	10.4	249
1882	Preparation of graphene nanowalls by a simple microwave-based method. <i>Carbon</i> , 2010 , 48, 3993-4000	10.4	55
1881	Graphite oxide as a precursor for the synthesis of disordered graphenes using the aerosol-through-plasma method. <i>Carbon</i> , 2010 , 48, 4081-4089	10.4	46

1880	Fabrication of a hybrid graphene/layered double hydroxide material. <i>Carbon</i> , 2010 , 48, 4391-4396	10.4	90
1879	Direct reduction of graphene oxide films into highly conductive and flexible graphene films by hydrohalic acids. <i>Carbon</i> , 2010 , 48, 4466-4474	10.4	1305
1878	Highly-efficient fabrication of nanoscrolls from functionalized graphene oxide by Langmuir-Blodgett method. <i>Carbon</i> , 2010 , 48, 4475-4482	10.4	81
1877	Preparation of extended alkylated graphene oxide conducting layers and effect study on the electrical properties of PEDOT:PSS polymer composites. 2010 , 494, 264-268		30
1876	Gaseous products of thermo- and photo-reduction of graphite oxide. 2010 , 498, 287-291		57
1875	Formation of highly stable dispersions of silane-functionalized reduced graphene oxide. 2010 , 501, 68-74		191
1874	Large reversible capacity of high quality graphene sheets as an anode material for lithium-ion batteries. 2010 , 55, 3909-3914		894
1873	Mn ₃ O ₄ nanoparticles embedded into graphene nanosheets: Preparation, characterization, and electrochemical properties for supercapacitors. 2010 , 55, 6812-6817		215
1872	Seeing graphene-based sheets. 2010 , 13, 28-38		147
1871	Graphene, a promising transparent conductor. 2010 , 13, 52-59		407
1870	Thermosensitive graphene nanocomposites formed using pyrene-terminal polymers made by RAFT polymerization. 2010 , 48, 425-433		193
1869	Initiating electropolymerization on graphene sheets in graphite oxide structure. 2010 , 48, 2204-2213		45
1868	Poly(N-vinylcarbazole) chemically modified graphene oxide. 2010 , 48, 2642-2649		83
1867	Multilayer stacked low-temperature-reduced graphene oxide films: preparation, characterization, and application in polymer memory devices. 2010 , 6, 1536-42		104
1866	Oriented arrays of graphene in a polymer matrix by in situ reduction of graphite oxide nanosheets. 2010 , 6, 205-9		128
1865	Flexible, transparent, conducting films of randomly stacked graphene from surfactant-stabilized, oxide-free graphene dispersions. 2010 , 6, 458-64		342
1864	Water-soluble magnetic-functionalized reduced graphene oxide sheets: in situ synthesis and magnetic resonance imaging applications. 2010 , 6, 169-73		323
1863	High-throughput, ultrafast synthesis of solution-dispersed graphene via a facile hydride chemistry. 2010 , 6, 226-31		92

1862	Graphene-based actuators. 2010 , 6, 210-2	237
1861	Graphene oxide, highly reduced graphene oxide, and graphene: versatile building blocks for carbon-based materials. 2010 , 6, 711-23	2103
1860	Production of graphene sheets by direct dispersion with aromatic healing agents. 2010 , 6, 1100-7	150
1859	High-concentration solvent exfoliation of graphene. 2010 , 6, 864-71	810
1858	Conjugated-polyelectrolyte-functionalized reduced graphene oxide with excellent solubility and stability in polar solvents. 2010 , 6, 663-9	260
1857	Growth of graphene from solid carbon sources. 2010 , 468, 549-52	1106
1856	Structural evolution during the reduction of chemically derived graphene oxide. 2010 , 2, 581-7	1399
1855	Unusual infrared-absorption mechanism in thermally reduced graphene oxide. 2010 , 9, 840-5	629
1854	Spontaneous high-concentration dispersions and liquid crystals of graphene. 2010 , 5, 406-11	488
1853	Solubilization of Reduced Graphene in Water through Noncovalent Interaction with Dendrimers. 2010 , 39, 1160-1161	28
1852	Preparation of Bulk ¹³ C-Enriched Graphene Materials. 2010 , 2010, 1-5	15
1851	Graphene doping to enhance the flux pinning and supercurrent carrying ability of a magnesium diboride superconductor. 2010 , 23, 085003	39
1850	Preparation of Colloidal Dispersions of Graphene Sheets in Organic Solvents by Using Ball Milling. 2010 , 2010, 1-5	37
1849	Preparation and characterization of LiFePO ₄ /graphene-oxide composites. 2010 , 1266, 30201	
1848	Tunable positive temperature coefficient of resistivity in an electrically conducting polymer/graphene composite. 2010 , 96, 251907	60
1847	Wide memory window in graphene oxide charge storage nodes. 2010 , 96, 143109	82
1846	Marker-free on-the-fly fabrication of graphene devices based on fluorescence quenching. 2010 , 21, 015303	15
1845	A new route towards uniformly functionalized single-layer graphene. 2010 , 43, 175302	25

1844	Dielectrophoretic integration of single- and few-layer graphenes. 2010 , 107, 034302	21
1843	Polyimide Surface Treatment by Atmospheric Pressure Plasma for Metal Adhesion. 2010 , 157, D614	27
1842	Morphology, Electrical Conductivity of Novel Graphite Nanoplatelets-Carbon Nanotube Hybrid Nanopaper. 2010 ,	
1841	Systematic Post-assembly Modification of Graphene Oxide Paper with Primary Alkylamines. 2010 , 22, 4153-4157	156
1840	Corrugation of chemically converted graphene monolayers on SiO(2). 2010 , 4, 3095-102	39
1839	Understanding the stabilization of liquid-phase-exfoliated graphene in polar solvents: molecular dynamics simulations and kinetic theory of colloid aggregation. 2010 , 132, 14638-48	234
1838	Electrically conductive and mechanically strong biomimetic chitosan/reduced graphene oxide composite films. 2010 , 20, 9032	211
1837	One-step synthesis of superior dispersion of chemically converted graphene in organic solvents. 2010 , 46, 4375-7	141
1836	Polyoxometalate assisted photoreduction of graphene oxide and its nanocomposite formation. 2010 , 46, 6243-5	154
1835	Facile covalent functionalization of graphene oxide using microwaves: bottom-up development of functional graphitic materials. 2010 , 20, 9052	74
1834	One Step Synthesis of Graphene Oxide/Magnetic Nanoparticle Composite. 2010 , 114, 1498-1503	301
1833	Alternate Multilayer Films of Poly(vinyl alcohol) and Exfoliated Graphene Oxide Fabricated via a Facial Layer-by-Layer Assembly. 2010 , 43, 9411-9416	184
1832	Reducing sugar: new functional molecules for the green synthesis of graphene nanosheets. 2010 , 4, 2429-37	1145
1831	Electrochemical approach for detection of extracellular oxygen released from erythrocytes based on graphene film integrated with laccase and 2,2-azino-bis(3-ethylbenzothiazoline-6-sulfonic acid). 2010 , 82, 3588-96	103
1830	Graphene versus carbon nanotubes for chemical sensor and fuel cell applications. 2010 , 135, 2790-7	138
1829	One-Step Synthesis of Graphene/Cobalt Hydroxide Nanocomposites and Their Electrochemical Properties. 2010 , 114, 11829-11834	293
1828	Facile covalent immobilization of cadmium sulfide quantum dots on graphene oxide nanosheets: preparation, characterization, and optical properties. 2010 , 21, 465603	76
1827	Preparation and Evaluation of Graphite Oxide Reduced at 220 °C. 2010 , 22, 5625-5629	184

1826	Honeycomb carbon: a review of graphene. 2010 , 110, 132-45	5411
1825	pH-Responsive chitosan-mediated graphene dispersions. 2010 , 26, 16771-4	168
1824	Growth of large-area graphene films from metal-carbon melts. 2010 , 108, 094321	109
1823	Effects of Surface Features on Adsorption of SO ₂ on Graphite Oxide/Zr(OH) ₄ Composites. 2010 , 114, 14552-14560	77
1822	Monodisperse chemically modified graphene obtained by density gradient ultracentrifugal rate separation. 2010 , 4, 3381-9	176
1821	Cyclodextrin functionalized graphene nanosheets with high supramolecular recognition capability: synthesis and host-guest inclusion for enhanced electrochemical performance. 2010 , 4, 4001-10	543
1820	Emerging Methods for Producing Monodisperse Graphene Dispersions. 2010 , 1, 544-549	183
1819	Electrochemical Deposition of Polypyrrole/Sulfonated Graphene Composite Films. 2010 , 114, 22783-22789	213
1818	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. 2010 , 43, 10078-10083	345
1817	Reducing Graphene Oxide on a Visible-Light BiVO ₄ Photocatalyst for an Enhanced Photoelectrochemical Water Splitting. 2010 , 1, 2607-2612	768
1816	Experimental investigation on thermal conductivity of nanofluids containing graphene oxide nanosheets. 2010 , 107, 094317	119
1815	Role of kinetic factors in chemical vapor deposition synthesis of uniform large area graphene using copper catalyst. 2010 , 10, 4128-33	656
1814	Hydrogen bond networks in graphene oxide composite paper: structure and mechanical properties. 2010 , 4, 2300-6	568
1813	General route toward patterning of graphene oxide by a combination of wettability modulation and spin-coating. 2010 , 4, 5749-54	50
1812	Reduced Graphene Oxide/Copper Phthalocyanine Composite and Its Optoelectrical Properties. 2010 , 114, 15129-15135	123
1811	Dispersion of graphene in ethanol using a simple solvent exchange method. 2010 , 46, 7539-41	129
1810	High mobility, printable, and solution-processed graphene electronics. 2010 , 10, 92-8	413
1809	Layer-by-layer self-assembly for constructing a graphene/platinum nanoparticle three-dimensional hybrid nanostructure using ionic liquid as a linker. 2010 , 26, 7614-8	151

1808	One-pot preparation of graphene/Fe ₃ O ₄ composites by a solvothermal reaction. 2010 , 34, 2950	144
1807	Direct grafting of linear macromolecular "wedges" to the edge of pristine graphite to prepare edge-functionalized graphene-based polymer composites. 2010 , 20, 10936	37
1806	Noncovalent DNA decorations of graphene oxide and reduced graphene oxide toward water-soluble metal-carbon hybrid nanostructures via self-assembly. 2010 , 20, 900-906	156
1805	Preparation of graphene by a low-temperature thermal reduction at atmosphere pressure. 2010 , 2, 559-63	292
1804	A study of the synthetic methods and properties of graphenes. 2010 , 11, 054502	132
1803	In situ controllable growth of Prussian blue nanocubes on reduced graphene oxide: facile synthesis and their application as enhanced nanoelectrocatalyst for H ₂ O ₂ reduction. 2010 , 2, 2339-46	207
1802	A roadmap to high quality chemically prepared graphene. 2010 , 43, 374015	48
1801	Dynamic synergy of graphitic nanoplatelets and multi-walled carbon nanotubes in polyetherimide nanocomposites. 2010 , 21, 105702	116
1800	Graphene oxide porous paper from amine-functionalized poly(glycidyl methacrylate)/graphene oxide core-shell microspheres. 2010 , 20, 9200	137
1799	Non-Annealed Graphene Paper as a Binder-Free Anode for Lithium-Ion Batteries. 2010 , 114, 12800-12804	223
1798	Label-free electrical detection of DNA hybridization using carbon nanotubes and graphene. 2010 , 1,	29
1797	Multilayer epitaxial graphene grown on the (SiC) surface; structure and electronic properties. 2010 , 43, 374006	61
1796	Graphene-DNA hybrids: self-assembly and electrochemical detection performance. 2010 , 20, 6668	105
1795	Oxidation functional groups on graphene: Structural and electronic properties. 2010 , 82,	272
1794	Engineering graphene by oxidation: a first-principles study. 2010 , 21, 045704	84
1793	Reversible fluorination of graphene: Evidence of a two-dimensional wide bandgap semiconductor. 2010 , 81,	334
1792	Supraparamagnetic, conductive, and processable multifunctional graphene nanosheets coated with high-density Fe ₃ O ₄ nanoparticles. 2010 , 2, 3201-10	354
1791	Facile and controllable electrochemical reduction of graphene oxide and its applications. 2010 , 20, 743-748	702

1790	Recent advance in functionalized graphene/polymer nanocomposites. 2010 , 20, 7906	415
1789	Efficient preparation of large-area graphene oxide sheets for transparent conductive films. 2010 , 4, 5245-52	775
1788	Preparation of covalently functionalized graphene using residual oxygen-containing functional groups. 2010 , 2, 3092-9	324
1787	Magnetism in graphene oxide. 2010 , 12, 083040	63
1786	Electrocatalytic Activity of Graphene Multilayers toward H_2O_2 Effect of Preparation Conditions and Polyelectrolyte Modification. 2010 , 114, 15857-15861	60
1785	Mass Production of Graphene via an in Situ Self-Generating Template Route and Its Promoted Activity as Electrocatalytic Support for Methanol Electrooxidation. 2010 , 114, 8727-8733	113
1784	Stability of graphene oxide phases from first-principles calculations. 2010 , 82,	113
1783	Exposed Edge Planes of Cup-Stacked Carbon Nanotubes for an Electrochemical Capacitor. 2010 , 1, 2099-2103	31
1782	Cutting of oxidized graphene into nanosized pieces. 2010 , 132, 10034-41	132
1781	Characterization and surface modification of carbon nanowalls. 2010 , 20, 5070	38
1780	Local current mapping and patterning of reduced graphene oxide. 2010 , 132, 14130-6	126
1779	Fabrication and evaluation of solution-processed reduced graphene oxide electrodes for p- and n-channel bottom-contact organic thin-film transistors. 2010 , 4, 6343-52	65
1778	Nucleation of epitaxial graphene on SiC(0001). 2010 , 4, 153-8	135
1777	Breaking AB stacking order in graphite oxide: ab initio approach. 2010 , 12, 1595-9	21
1776	Surface energy modification by spin-cast, large-area graphene film for block copolymer lithography. 2010 , 4, 5464-70	122
1775	Non-Aqueous Approach to Synthesize Amorphous/Crystalline Metal Oxide-Graphene Nanosheet Hybrid Composites. 2010 , 114, 18330-18337	70
1774	Measurement of multicomponent solubility parameters for graphene facilitates solvent discovery. 2010 , 26, 3208-13	481
1773	Synthesis, characterization, and multilayer assembly of pH sensitive graphene-polymer nanocomposites. 2010 , 26, 10068-75	183

1772	Ultra-large single-layer graphene obtained from solution chemical reduction and its electrical properties. 2010 , 12, 2164-9	155
1771	Graphene/Polyurethane Nanocomposites for Improved Gas Barrier and Electrical Conductivity. 2010 , 22, 3441-3450	1101
1770	Supercapacitors based on flexible graphene/polyaniline nanofiber composite films. 2010 , 4, 1963-70	1934
1769	A smart pH responsive graphene/polyacrylamide complex via noncovalent interaction. 2010 , 21, 335701	54
1768	Preparation and properties of a graphene reinforced nanocomposite conducting plate. 2010 , 20, 8496	105
1767	Graphene oxide nanocolloids. 2010 , 132, 17667-9	320
1766	Preparation of a stable graphene dispersion with high concentration by ultrasound. 2010 , 114, 10368-73	119
1765	One-pot solvothermal syntheses and magnetic properties of graphene-based magnetic nanocomposites. 2010 , 506, 136-140	111
1764	Covalent functionalization of graphene oxide with polyglycerol and their use as templates for anchoring magnetic nanoparticles. 2010 , 160, 2028-2036	101
1763	Influence of Ag doped graphene on electrochemical behaviors and specific capacitance of polypyrrole-based nanocomposites. 2010 , 160, 2355-2360	50
1762	General Approach to Individually Dispersed, Highly Soluble, and Conductive Graphene Nanosheets Functionalized by Nitrene Chemistry. 2010 , 22, 5054-5064	394
1761	Exfoliation of graphite oxide in propylene carbonate and thermal reduction of the resulting graphene oxide platelets. 2010 , 4, 1227-33	615
1760	Unconventional layer-by-layer assembly of graphene multilayer films for enzyme-based glucose and maltose biosensing. 2010 , 26, 15022-6	164
1759	Reduction of graphene oxide via L-ascorbic acid. 2010 , 46, 1112-4	1848
1758	Solvent-Assisted Thermal Reduction of Graphite Oxide. 2010 , 114, 14819-14825	241
1757	Graphene constructed carbon thin films as transparent electrodes for solar cell applications. 2010 , 20, 9713	68
1756	Preparation of nitrogen-doped graphene sheets by a combined chemical and hydrothermal reduction of graphene oxide. 2010 , 26, 16096-102	580
1755	A one-step, solvothermal reduction method for producing reduced graphene oxide dispersions in organic solvents. 2010 , 4, 3845-52	509

1754	Incorporation of graphenes in nanostructured TiO(2) films via molecular grafting for dye-sensitized solar cell application. 2010 , 4, 3482-8	431
1753	A scalable, solution-phase processing route to graphene oxide and graphene ultralarge sheets. 2010 , 46, 2611-3	216
1752	A Simple Approach for Preparing Transparent Conductive Graphene Films Using the Controlled Chemical Reduction of Exfoliated Graphene Oxide in an Aqueous Suspension. 2010 , 114, 14433-14440	96
1751	Three-dimensional Pt-on-Pd bimetallic nanodendrites supported on graphene nanosheet: facile synthesis and used as an advanced nanoelectrocatalyst for methanol oxidation. 2010 , 4, 547-55	1041
1750	High-concentration, surfactant-stabilized graphene dispersions. 2010 , 4, 3155-62	826
1749	A new approach to fabricate graphene nanosheets in organic medium: combination of reduction and dispersion. 2010 , 20, 1722	205
1748	Ultrafast, dry microwave synthesis of graphene sheets. 2010 , 20, 4781	112
1747	A facile approach to the synthesis of highly electroactive Pt nanoparticles on graphene as an anode catalyst for direct methanol fuel cells. 2010 , 46, 5951-3	283
1746	Two-dimensional carbon nanostructures: Fundamental properties, synthesis, characterization, and potential applications. 2010 , 108, 071301	216
1745	Electrochemical Deposition of Semiconductor Oxides on Reduced Graphene Oxide-Based Flexible, Transparent, and Conductive Electrodes. 2010 , 114, 11816-11821	142
1744	Graphene nanoribbon devices produced by oxidative unzipping of carbon nanotubes. 2010 , 4, 5405-13	111
1743	Platinum/Graphene Nanosheet/SiC Contacts and Their Application for Hydrogen Gas Sensing. 2010 , 114, 13796-13801	154
1742	Porphyrin Functionalized Graphene Sheets in Aqueous Suspensions: From the Preparation of Graphene Sheets to Highly Conductive Graphene Films. 2010 , 114, 8227-8234	273
1741	Photothermal Deoxygenation of Graphite Oxide with Laser Excitation in Solution and Graphene-Aided Increase in Water Temperature. 2010 , 1, 2804-2809	243
1740	Bandgap opening in oxygen plasma-treated graphene. 2010 , 21, 435203	253
1739	In situ Polymerization Approach to Graphene-Reinforced Nylon-6 Composites. 2010 , 43, 6716-6723	569
1738	A dehydration and stabilizer-free approach to production of stable water dispersions of graphene nanosheets. 2010 , 20, 4328	114
1737	Well-dispersed chitosan/graphene oxide nanocomposites. 2010 , 2, 1707-13	595

1736	Formation of Graphene Features from Direct Laser-Induced Reduction of Graphite Oxide. 2010 , 1, 2633-2636	174
1735	Visualizing graphene based sheets by fluorescence quenching microscopy. 2010 , 132, 260-7	461
1734	Hollow graphene oxide spheres self-assembled by W/O emulsion. 2010 , 20, 4867	156
1733	Silicon nanoparticles-graphene paper composites for Li ion battery anodes. 2010 , 46, 2025-7	754
1732	Graphene/TiO ₂ nanocomposites: synthesis, characterization and application in hydrogen evolution from water photocatalytic splitting. 2010 , 20, 2801	936
1731	Direct exfoliation of natural graphite into micrometre size few layers graphene sheets using ionic liquids. 2010 , 46, 4487-9	264
1730	Chemical Reduction of Graphene Oxide to Graphene by Sulfur-Containing Compounds. 2010 , 114, 19885-19890	413
1729	Photodegradation of Graphene Oxide Sheets by TiO ₂ Nanoparticles after a Photocatalytic Reduction. 2010 , 114, 12955-12959	367
1728	Environment-Friendly Method To Produce Graphene That Employs Vitamin C and Amino Acid. 2010 , 22, 2213-2218	621
1727	Vitamin C Is an Ideal Substitute for Hydrazine in the Reduction of Graphene Oxide Suspensions. 2010 , 114, 6426-6432	1065
1726	Graphene-Wrapped Fe ₃ O ₄ Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. 2010 , 22, 5306-5313	1660
1725	One-pot, water-phase approach to high-quality graphene/TiO ₂ composite nanosheets. 2010 , 46, 7148-50	175
1724	Lower-defect graphene oxide nanoribbons from multiwalled carbon nanotubes. 2010 , 4, 2059-69	488
1723	Mechanical properties of monolayer graphene oxide. 2010 , 4, 6557-64	831
1722	Fabrication of High-Concentration and Stable Aqueous Suspensions of Graphene Nanosheets by Noncovalent Functionalization with Lignin and Cellulose Derivatives. 2010 , 114, 3811-3816	186
1721	Graphene oxide-based immunobiosensor for ultrasensitive pathogen detection. 2010 ,	
1720	Kinetic Study of the Graphite Oxide Reduction: Combined Structural and Gravimetric Experiments under Isothermal and Nonisothermal Conditions. 2010 , 114, 21645-21651	47
1719	Geometry, mechanics, and electronics of singular structures and wrinkles in graphene. 2010 , 105, 156603	152

1718	Nanostructured carbon electrodes. 2010 , 20, 3553	58
1717	Comparison of Graphene Growth on Single-Crystalline and Polycrystalline Ni by Chemical Vapor Deposition. 2010 , 1, 3101-3107	285
1716	Layered graphene oxide nanostructures with sandwiched conducting polymers as supercapacitor electrodes. 2010 , 26, 17624-8	361
1715	Preparation of Graphene with Ultrasound-Assisted in the Process of Oxidation. 2010 , 34-35, 1784-1787	3
1714	First-Principle Study of Hydroxyl Functional Groups on Pristine, Defected Graphene, and Graphene Epoxide. 2010 , 114, 21625-21630	181
1713	Highly efficient restoration of graphitic structure in graphene oxide using alcohol vapors. 2010 , 4, 5285-92	227
1712	Development of an Amperometric Cholesterol Biosensor Based on GraphenePt Nanoparticle Hybrid Material. 2010 , 114, 21427-21433	248
1711	Graphene mode-lockers for fiber lasers functioned with evanescent field interaction. 2010 , 96, 051122	296
1710	Enhanced thermal conductivities of nanofluids containing graphene oxide nanosheets. 2010 , 21, 055705	158
1709	Dopamine-Induced Reduction and Functionalization of Graphene Oxide Nanosheets. 2010 , 43, 8336-8339	652
1708	Two-dimensional graphene bridges enhanced photoinduced charge transport in dye-sensitized solar cells. 2010 , 4, 887-94	840
1707	Individual nanocomposite sheets of chemically reduced graphene oxide and poly(N-vinyl pyrrolidone): preparation and humidity sensing characteristics. 2010 , 20, 10824	70
1706	The role of intercalated water in multilayered graphene oxide. 2010 , 4, 5861-8	303
1705	Microwave-assisted synthesis of highly water-soluble graphene towards electrical DNA sensor. 2010 , 2, 2692-7	53
1704	Ligand-Controlled Microwave Synthesis of Cubic and Hexagonal CdSe Nanocrystals Supported on Graphene. Photoluminescence Quenching by Graphene. 2010 , 114, 19920-19927	78
1703	NMR-based structural modeling of graphite oxide using multidimensional ¹³ C solid-state NMR and ab initio chemical shift calculations. 2010 , 132, 5672-6	198
1702	Interfacing live cells with nanocarbon substrates. 2010 , 26, 2244-7	271
1701	Highly exfoliated graphite as a precursor for graphene materials. 2010 ,	

1700	Cycloaddition of benzyne to SWCNT: towards CNT-based paddle wheels. 2010 , 46, 7028-30	38
1699	. 2010 ,	6
1698	Graphene synthesis by thermal-CVD method. 2011 ,	2
1697	Heteroatom doped carbons prepared by the pyrolysis of bio-derived amino acids as highly active catalysts for oxygen electro-reduction reactions. 2011 , 13, 406-412	167
1696	Facile synthesis of organo-soluble surface-grafted all-single-layer graphene oxide as hole-injecting buffer material in organic light-emitting diodes. 2011 , 21, 6040	32
1695	Ionic strength and pH reversible response of visible and near-infrared fluorescence of graphene oxide nanosheets for monitoring the extracellular pH. 2011 , 47, 3135-7	110
1694	Functionalization of Graphene Sheets via Chemically Grafting of PMMA Chains Through in-situ Polymerization. 2011 , 48, 577-582	27
1693	Assembly of Graphene Oxide and Au _{0.7} Ag _{0.3} Alloy Nanoparticles on SiO ₂ : A New Raman Substrate with Ultrahigh Signal-to-Background Ratio. 2011 , 115, 24080-24084	34
1692	Fabrication and Characterization of Networked Graphene Devices Based on Ultralarge Single-Layer Graphene Sheets. 2011 , 10, 467-471	3
1691	SnSe ₂ nanoplate-graphene composites as anode materials for lithium ion batteries. 2011 , 47, 5241-3	179
1690	Simple and scalable route for the Bottom-up synthesis of few-layer graphene platelets and thin films. 2011 , 21, 3378	48
1689	Global and Local Oxidation Behavior of Reduced Graphene Oxide. 2011 , 115, 7956-7966	34
1688	Temperature-dependent photoluminescence from chemically and thermally reduced graphene oxide. 2011 , 99, 041905	38
1687	Chemically derived graphene as an effective substrate to detect fluorescence molecules. 2011 ,	
1686	Aqueous stabilization of graphene sheets using exfoliated montmorillonite nanoplatelets for multifunctional free-standing hybrid films via vacuum-assisted self-assembly. 2011 , 21, 18011	70
1685	Theoretical investigation of formation mechanism of bipyridyl molecule on Ni(111) surface: implication for synthesis of N-doped graphene from pyridine. 2011 , 13, 6053-8	5
1684	Mechanics of coordinative crosslinks in graphene nanocomposites: a first-principles study. 2011 , 21, 6707	39
1683	Low-voltage solution-processed graphene transistors based on chemically and solvothermally reduced graphene oxide. 2011 , 21, 13068	22

1682	Direct production of a free-standing titanate and titania nanofiber membrane with selective permeability and cleaning performance. 2011 , 21, 12503	65
1681	TiO ₂ -decorated graphene nanohybrids for fabricating an amperometric acetylcholinesterase biosensor. 2011 , 136, 3349-54	81
1680	Partially unzipped carbon nanotubes as a superior catalyst support for PEM fuel cells. 2011 , 47, 9429-31	32
1679	Synthesis of a tunable MgB ₂ /Nano-Graphene/MgB ₂ Josephson junction-like structure for electronic devices. 2011 , 1, 964	7
1678	X-Ray Photoelectron Spectroscopy Study on Reduction of Graphene Oxide with Hydrazine Hydrate. 2011 , 287-290, 539-543	5
1677	Epitaxial Graphene Growth on 3C-SiC(111)/AlN(0001)/Si(100). 2011 , 14, K13	17
1676	The effect of interlayer adhesion on the mechanical behaviors of macroscopic graphene oxide papers. 2011 , 5, 2134-41	287
1675	A Facile Route for the Large Scale Fabrication of Graphene Oxide Papers and Their Mechanical Enhancement by Cross-linking with Glutaraldehyde. 2011 , 3, 215-222	51
1674	A graphene binding-promoted fluorescence enhancement for bovine serum albumin recognition. 2011 , 47, 6662-4	41
1673	Mode-locked Yb-doped fiber laser with epitaxial graphene grown on 6H-SiC substrates. 2011 ,	
1672	Nitrogen, Hydrogen, Carbon Dioxide, and Water Vapor Sorption Properties of Three-Dimensional Graphene. 2011 , 56, 642-645	32
1671	Reduction of charge recombination by an amorphous titanium oxide interlayer in layered graphene/quantum dots photochemical cells. 2011 , 3, 1940-5	44
1670	Preparation and Tribological Study of Functionalized Graphene/L Nanocomposite Ultrathin Lubrication Films on Si Substrates. 2011 , 115, 13275-13284	72
1669	One-step molybdate ion assisted electrochemical synthesis of HMoO ₃ -decorated graphene sheets and its potential applications. 2011 , 21, 15009	44
1668	Facile patterning of reduced graphene oxide film into microelectrode array for highly sensitive sensing. 2011 , 83, 6426-30	60
1667	Characteristics of Raman spectra for graphene oxide from ab initio simulations. 2011 , 135, 184503	32
1666	Graphene nucleation on transition metal surface: structure transformation and role of the metal step edge. 2011 , 133, 5009-15	273
1665	In Situ Reduction of Graphene Oxide in Polymers. 2011 , 44, 9821-9829	87

1664	Graphene growth using a solid carbon feedstock and hydrogen. 2011 , 5, 7656-61	84
1663	Vacuum-assisted synthesis of graphene from thermal exfoliation and reduction of graphite oxide. 2011 , 21, 5392	177
1662	Flexible and metal-free light-emitting electrochemical cells based on graphene and PEDOT-PSS as the electrode materials. 2011 , 5, 574-80	103
1661	Efficient coating of polystyrene microspheres with graphene nanosheets. 2011 , 47, 10722-4	33
1660	Photocatalytically Reduced Graphite Oxide Electrode for Electrochemical Capacitors. 2011 , 115, 20689-20695	32
1659	One-step synthesis of low defect density carbon nanotube-doped Ni(OH) ₂ nanosheets with improved electrochemical performances. 2011 , 1, 484	64
1658	Interaction intercalation of layered carbon materials with metallocene. 2011 , 40, 4542-7	41
1657	Graphene-Based Hybrid Electrode Material for High-Power Lithium-Ion Batteries. 2011 , 158, A930	43
1656	Graphene as cellular interface: electromechanical coupling with cells. 2011 , 5, 6025-31	85
1655	Intrinsic Capacitance and Redox Activity of Functionalized Graphene Sheets. 2011 , 115, 20326-20334	41
1654	Hybrid nanostructure heterojunction solar cells fabricated using vertically aligned ZnO nanotubes grown on reduced graphene oxide. 2011 , 22, 405401	24
1653	One-Pot Synthesis of Platinum Nanoparticles Embedded on Reduced Graphene Oxide for Oxygen Reduction in Methanol Fuel Cells. 2011 , 14, B70	71
1652	Facile synthesis of graphene nanosheets via Fe reduction of exfoliated graphite oxide. 2011 , 5, 191-8	742
1651	Aqueous only route toward graphene from graphite oxide. 2011 , 5, 1253-8	232
1650	In situ production of high filler content graphene-based polymer nanocomposites by reactive processing. 2011 , 21, 16544	44
1649	Graphene transistors via in situ voltage-induced reduction of graphene-oxide under ambient conditions. 2011 , 133, 14320-6	50
1648	Carbocatalysis: Heterogeneous carbons finding utility in synthetic chemistry. 2011 , 2, 1233	326
1647	Synthesis and characterization of large-area graphene and graphite films on commercial Cu-Ni alloy foils. 2011 , 11, 3519-25	270

1646	A novel nitrite sensor based on graphene/polypyrrole/chitosan nanocomposite modified glassy carbon electrode. 2011 , 136, 4563-9	104
1645	Graphite Oxide with Different Oxygenated Levels for Hydrogen and Oxygen Production from Water under Illumination: The Band Positions of Graphite Oxide. 2011 , 115, 22587-22597	232
1644	Graphene Oxide: Synthesis, Characterization, Electronic Structure, and Applications. 2011 , 435-464	1
1643	Reversible adsorption of conjugated amphiphilic dendrimers onto reduced graphene oxide (rGO) for fluorescence sensing. 2011 , 7, 8352	16
1642	An effective strategy for small-sized and highly-dispersed palladium nanoparticles supported on graphene with excellent performance for formic acid oxidation. 2011 , 21, 3384	220
1641	Graphene solutions. 2011 , 47, 5470-2	73
1640	One-step electrochemical deposition of a graphene-ZrO ₂ nanocomposite: Preparation, characterization and application for detection of organophosphorus agents. 2011 , 21, 8032	150
1639	Melt blending in situ enhances the interaction between polystyrene and graphene through π stacking. 2011 , 3, 3103-9	178
1638	Graphitization behaviour of chemically derived graphene sheets. 2011 , 3, 3652-6	37
1637	Solvent-exfoliated graphene at extremely high concentration. 2011 , 27, 9077-82	280
1636	Noncovalently functionalized multiwalled carbon nanotubes by chitosan-grafted reduced graphene oxide and their synergistic reinforcing effects in chitosan films. 2011 , 3, 4819-30	96
1635	Carbon-Based Materials: Growth, Properties, MEMS/NEMS Technologies, and MEM/NEM Switches. 2011 , 36, 66-101	48
1634	Graphene-based engine oil nanofluids for tribological applications. 2011 , 3, 4221-7	297
1633	Self-Assembly of Octadecyltrichlorosilane on Graphene Oxide and the Tribological Performances of the Resultant Film. 2011 , 115, 10080-10086	73
1632	Synergistic effect of hybrid carbon nanotube/graphene oxide as a nanofiller in enhancing the mechanical properties of PVA composites. 2011 , 21, 10844	173
1631	Graphite oxide: a selective and highly efficient oxidant of thiols and sulfides. 2011 , 9, 7292-5	202
1630	Organometallic chemistry of extended periodic π -electron systems: hexahapto-chromium complexes of graphene and single-walled carbon nanotubes. 2011 , 2, 1326	90
1629	Graphene: fabrication methods and thermophysical properties. 2011 , 181, 233	31

1628	Dye-Sensitized Reduced Graphene Oxide Photocatalysts for Highly Efficient Visible-Light-Driven Water Reduction. 2011 , 115, 13938-13945	239
1627	Graphene: preparation and structural perfection. 2011 , 21, 3280-3294	114
1626	Layer-by-layer fabrication of chemical-bonded graphene coating for solid-phase microextraction. 2011 , 83, 7531-41	302
1625	Chemically modified graphene: flame retardant or fuel for combustion?. 2011 , 21, 3277-3279	63
1624	Temperature dependence of graphene oxide reduced by hydrazine hydrate. 2011 , 22, 055705	495
1623	Electrochemical deposition of Cl-doped n-type Cu ₂ O on reduced graphene oxide electrodes. 2011 , 21, 3467-3470	78
1622	Self-assembly of graphene onto electrospun polyamide 66 nanofibers as transparent conductive thin films. 2011 , 22, 475603	41
1621	Effect of reduction treatment on copper modified activated carbons on NO(x) adsorption at room temperature. 2011 , 27, 5354-65	26
1620	In situ synthesis of poly(ethylene terephthalate)/graphene composites using a catalyst supported on graphite oxide. 2011 , 21, 3931	40
1619	Simple room-temperature preparation of high-yield large-area graphene oxide. 2011 , 6, 3443-8	278
1618	Polyelectrolyte-functionalized graphene as metal-free electrocatalysts for oxygen reduction. 2011 , 5, 6202-9	617
1617	Preparation of non-covalently functionalized graphene using 9-anthracene carboxylic acid. 2011 , 22, 405603	43
1616	Spinel LiMn ₂ O ₄ /reduced graphene oxide hybrid for high rate lithium ion batteries. 2011 , 21, 17309	121
1615	Graphene-encapsulated iron microspheres on the graphene nanosheets. 2011 , 13, 17818-24	12
1614	Graphene-Based Non-Noble-Metal Catalysts for Oxygen Reduction Reaction in Acid. 2011 , 23, 3421-3428	402
1613	A green approach to the synthesis of reduced graphene oxide nanosheets under UV irradiation. 2011 , 22, 215601	196
1612	Melatonin as a powerful bio-antioxidant for reduction of graphene oxide. 2011 , 21, 10907	236
1611	Large-scale integration of single-walled carbon nanotubes and graphene into sensors and devices using dielectrophoresis: A review. 2011 , 26, 1561-1571	20

1610	Size fractionation of graphene oxide sheets by pH-assisted selective sedimentation. 2011 , 133, 6338-42	264
1609	Design and synthesis of NiCo ₂ O ₄ /reduced graphene oxide composites for high performance supercapacitors. 2011 , 21, 10504	302
1608	Superior conductive polystyrene /chemically converted graphene nanocomposite. 2011 , 21, 11312	79
1607	Geometrical nonlinear free vibration of multi-layered graphene sheets. 2011 , 44, 135401	51
1606	Functionalized graphene oxide modified polysebacic anhydride as drug carrier for levofloxacin controlled release. 2011 , 1, 1737	44
1605	Chemical amination of graphene oxides and their extraordinary properties in the detection of lead ions. 2011 , 3, 5059-66	97
1604	Facile synthesis of reduced graphene oxide in supercritical alcohols and its lithium storage capacity. 2011 , 13, 2714	69
1603	High-performance supercapacitors based on poly(ionic liquid)-modified graphene electrodes. 2011 , 5, 436-42	609
1602	A green and ultrafast approach to the synthesis of scalable graphene nanosheets with Zn powder for electrochemical energy storage. 2011 , 21, 15449	69
1601	Scanning Probe Based Nanolithography and Nanomanipulation on Graphene. 2011 , 357-386	4
1600	Synthesis of ethanol-soluble few-layer graphene nanosheets for flexible and transparent conducting composite films. 2011 , 22, 295606	45
1599	Flexible energy storage devices based on graphene paper. 2011 , 4, 1277	497
1598	Functionalizing metal nanostructured film with graphene oxide for ultrasensitive detection of aromatic molecules by surface-enhanced Raman spectroscopy. 2011 , 3, 2944-52	144
1597	Preparation and Enhanced Visible-Light Photocatalytic H ₂ -Production Activity of Graphene/C ₃ N ₄ Composites. 2011 , 115, 7355-7363	1511
1596	An electrochemically formed three-dimensional structure of polypyrrole/graphene nanoplatelets for high-performance supercapacitors. 2011 , 1, 1271	128
1595	Synthesis and enhanced photocatalytic performance of graphene-Bi ₂ WO ₆ composite. 2011 , 13, 2887-93	412
1594	Synergistic Effect of Graphene on Antidripping and Fire Resistance of Intumescent Flame Retardant Poly(butylene succinate) Composites. 2011 , 50, 5376-5383	193
1593	Achieving high specific charge capacitances in Fe ₃ O ₄ /reduced graphene oxide nanocomposites. 2011 , 21, 3422	378

1592	Synthesis and Characterization of Reduced Graphene Oxide Film as Electronic Material. 2011 , 287-290, 2356-2359	
1591	Electrical conductivity, chemistry, and bonding alternations under graphene oxide to graphene transition as revealed by in situ TEM. 2011 , 5, 4401-6	88
1590	Microwave-assisted, environmentally friendly, one-pot preparation of Pd nanoparticles/graphene nanocomposites and their application in electrocatalytic oxidation of methanol. 2011 , 1, 1636	53
1589	Poly(3,4-Ethylenedioxyppyrole) Enwrapped by Reduced Graphene Oxide: How Conduction Behavior at Nanolevel Leads to Increased Electrochemical Activity. 2011 , 115, 18354-18365	41
1588	Preparation of water-dispersible graphene by facile surface modification of graphite oxide. 2011 , 22, 305710	82
1587	Graphene oxide as an electrophile for carbon nucleophiles. 2011 , 47, 8790-2	42
1586	Cobalt Oxide Nanowall Arrays on Reduced Graphene Oxide Sheets with Controlled Phase, Grain Size, and Porosity for Li-Ion Battery Electrodes. 2011 , 115, 8400-8406	181
1585	Effect of Oxygen Content on Structures of Graphite Oxides. 2011 , 50, 6132-6137	99
1584	Graphene oxide based photoinduced charge transfer label-free near-infrared fluorescent biosensor for dopamine. 2011 , 83, 8787-93	240
1583	High strength graphene oxide/polyvinyl alcohol composite hydrogels. 2011 , 21, 10399	320
1582	Fabrication and characterization of graphene hydrogel via hydrothermal approach as a scaffold for preliminary study of cell growth. 2011 , 6, 1817-23	151
1581	Poly(vinyl alcohol) nanocomposites based on graphene and graphite oxide: a comparative investigation of property and mechanism. 2011 , 21, 13942	303
1580	Chemically active reduced graphene oxide with tunable C/O ratios. 2011 , 5, 4380-91	295
1579	Nucleation Mechanism of Electrochemical Deposition of Cu on Reduced Graphene Oxide Electrodes. 2011 , 115, 15973-15979	40
1578	Microwave-assisted covalent modification of graphene nanosheets with hydroxypropyl- β -cyclodextrin and its electrochemical detection of phenolic organic pollutants. 2011 , 21, 10463	107
1577	Highly efficient visible-light-driven photocatalytic hydrogen production of CdS-cluster-decorated graphene nanosheets. 2011 , 133, 10878-84	2039
1576	Evolution of order during vacuum-assisted self-assembly of graphene oxide paper and associated polymer nanocomposites. 2011 , 5, 6601-9	140
1575	Graphite Oxide and Graphene Nanoribbons Reduction with Hydrogen Iodide. 2011 , 19, 461-468	27

1574	Electron transfer cascade by organic/inorganic ternary composites of porphyrin, zinc oxide nanoparticles, and reduced graphene oxide on a tin oxide electrode that exhibits efficient photocurrent generation. 2011 , 133, 7684-7	120
1573	Continuous roll-to-roll growth of graphene films by chemical vapor deposition. 2011 , 98, 133106	82
1572	Efficient Reducing Method of Graphene Oxide for Gas Sensor Applications. 2011 , 25, 892-895	11
1571	Direct exfoliation of graphene in organic solvents with addition of NaOH. 2011 , 47, 6888-90	109
1570	NiO/Graphene Composite for Enhanced Charge Separation and Collection in p-Type Dye Sensitized Solar Cell. 2011 , 115, 12209-12215	149
1569	An environment-friendly preparation of reduced graphene oxide nanosheets via amino acid. 2011 , 22, 325601	251
1568	Synthesis, assembly and applications of semiconductor nanomembranes. 2011 , 477, 45-53	526
1567	Graphene based new energy materials. 2011 , 4, 1113	1637
1566	Graphene oxide with covalently linked porphyrin antennae: Synthesis, characterization and photophysical properties. 2011 , 21, 109-117	207
1565	Facile synthesis of metal oxide/reduced graphene oxide hybrids with high lithium storage capacity and stable cyclability. 2011 , 3, 1084-9	330
1564	Magnetism in oxidized graphenes with hydroxyl groups. 2011 , 22, 105702	33
1563	In situ polymerization of graphene nanosheets and polyurethane with enhanced mechanical and thermal properties. 2011 , 21, 4222	330
1562	Sonochemical preparation of functionalized graphenes. 2011 , 133, 9148-51	137
1561	Photoreaction of Graphene Oxide Nanosheets in Water. 2011 , 115, 19280-19286	212
1560	Synthesis of the chemically converted graphene xerogel with superior electrical conductivity. 2011 , 47, 9672-4	123
1559	Graphene nanosheets-polypyrrole hybrid material as a highly active catalyst support for formic acid electro-oxidation. 2011 , 3, 3277-84	79
1558	Localized in situ polymerization on graphene surfaces for stabilized graphene dispersions. 2011 , 3, 1844-51	94
1557	Graphene oxide enwrapped Ag/AgX (X = Br, Cl) nanocomposite as a highly efficient visible-light plasmonic photocatalyst. 2011 , 5, 4529-36	633

1556	Production of graphene by exfoliation of graphite in a volatile organic solvent. 2011 , 22, 365601	56
1555	Water-Soluble Graphite Nanoplatelets Formed by Oleum Exfoliation of Graphite. 2011 , 23, 9-13	35
1554	Synthesis of polymer-protected graphene by solvent-assisted thermal reduction process. 2011 , 22, 345601	27
1553	Introduction. 2011 , 1-12	0
1552	Theoretical Study of the Electron Transport in Graphene with Vacancy and Residual Oxygen Defects after High-Temperature Reduction. 2011 , 115, 9719-9725	26
1551	A facile preparation route for boron-doped graphene, and its CdTe solar cell application. 2011 , 4, 862-865	186
1550	GRAPHENE PRODUCED BY RADIATION-INDUCED REDUCTION OF GRAPHENE OXIDE. 2011 , 10, 559-566	86
1549	Electrochemical performance of a graphene-polypyrrole nanocomposite as a supercapacitor electrode. 2011 , 22, 295202	132
1548	Enhanced electrical properties of reduced graphene oxide multilayer films by in-situ insertion of a TiO ₂ layer. 2011 , 5, 8884-91	49
1547	Nanostructured Materials for Engineering Applications. 2011 ,	19
1546	Wrapping bacteria by graphene nanosheets for isolation from environment, reactivation by sonication, and inactivation by near-infrared irradiation. 2011 , 115, 6279-88	454
1545	Graphene-wrapped hybrid spheres of electrical conductivity. 2011 , 3, 2904-11	64
1544	Protein-directed reduction of graphene oxide and intracellular imaging. 2011 , 47, 12658-60	54
1543	Structural Breathing of Graphite Oxide Pressurized in Basic and Acidic Solutions.. 2011 , 2, 309-313	22
1542	Graphene support for enhanced electrocatalytic activity of Pd for alcohol oxidation. 2011 , 1, 778	127
1541	Graphene-wrapped WO ₃ nanoparticles with improved performances in electrical conductivity and gas sensing properties. 2011 , 21, 17167	145
1540	Fabrication of graphene thin films based on layer-by-layer self-assembly of functionalized graphene nanosheets. 2011 , 3, 360-8	154
1539	Charge transfer interactions between conjugated block copolymers and reduced graphene oxides. 2011 , 47, 10293-5	19

1538	Highly conducting multilayer films from graphene nanosheets by a spin self-assembly method. 2011 , 21, 5378	22
1537	High Throughput Preparation of Large Area Transparent Electrodes Using Non-Functionalized Graphene Nanoribbons. 2011 , 23, 935-939	19
1536	Nanotechnology Research Directions for Societal Needs in 2020. 2011 ,	151
1535	Nanoreinforcements for Nanocomposite Materials. 2011 , 119-131	5
1534	Effect of extended polymer chains on properties of transparent graphene nanosheets conductive film. 2011 , 21, 18236	103
1533	A soluble hybrid material combining carbon nanohorns and C60. 2011 , 47, 12771-3	23
1532	Tailoring oxidation degrees of graphene oxide by simple chemical reactions. 2011 , 99, 053114	39
1531	Chemically modified graphene sheets by functionalization of highly exfoliated graphite. 2011 , 21, 3410-3414	49
1530	Nonvolatile memory device using gold nanoparticles covalently bound to reduced graphene oxide. 2011 , 5, 6826-33	129
1529	Polyelectrolyte-induced reduction of exfoliated graphite oxide: a facile route to synthesis of soluble graphene nanosheets. 2011 , 5, 1785-91	274
1528	Local voltage drop in a single functionalized graphene sheet characterized by Kelvin probe force microscopy. 2011 , 11, 3543-9	75
1527	Properties of graphene inks stabilized by different functional groups. 2011 , 22, 245702	35
1526	Flexible solid state lithium batteries based on graphene inks. 2011 , 21, 9762	46
1525	Deformation-immunized optical deposition of graphene for ultrafast pulsed lasers. 2011 , 98, 021104	82
1524	Probing the Thermal Deoxygenation of Graphene Oxide Using High-Resolution In Situ X-ray-Based Spectroscopies. 2011 , 115, 17009-17019	1033
1523	Characterization of graphene films and transistors grown on sapphire by metal-free chemical vapor deposition. 2011 , 5, 8062-9	133
1522	Green Approach To Prepare Graphene-Based Composites with High Microwave Absorption Capacity. 2011 , 115, 11673-11677	282
1521	Transparent, luminescent, antibacterial and patternable film forming composites of graphene oxide/reduced graphene oxide. 2011 , 3, 2643-54	100

1520	Synergistic antibacterial brilliant blue/reduced graphene oxide/quaternary phosphonium salt composite with excellent water solubility and specific targeting capability. 2011 , 27, 7828-35	125
1519	Graphene-Supported PtAu Alloy Nanoparticles: A Highly Efficient Anode for Direct Formic Acid Fuel Cells. 2011 , 115, 21963-21970	138
1518	Supramolecular Hybrid Hydrogels from Noncovalently Functionalized Graphene with Block Copolymers. 2011 , 44, 7682-7691	150
1517	Graphene oxide for electrochemical sensing applications. 2011 , 21, 14725	85
1516	Preparation and Dispersion of Polyacrylamide-Grafting Graphene. 2011 , 306-307, 1360-1363	2
1515	The electromagnetic property of chemically reduced graphene oxide and its application as microwave absorbing material. 2011 , 98, 072906	520
1514	Direct synthesis of lithium-intercalated graphene for electrochemical energy storage application. 2011 , 5, 4345-9	110
1513	In Situ Polymerization of Graphene, Graphite Oxide, and Functionalized Graphite Oxide into Epoxy Resin and Comparison Study of On-the-Flame Behavior. 2011 , 50, 7772-7783	257
1512	Electrogenerated chemiluminescence sensor for the determination of. 2011 , 3, 446-451	17
1511	Preparation of Quasi-Free-Standing Graphene with a Super Large Interlayer Distance by Methane Intercalation. 2011 , 115, 20538-20545	8
1510	Electrochemical sensing of L-histidine based on structure-switching DNAzymes and gold nanoparticle-graphene nanosheet composites. 2011 , 47, 5476-8	95
1509	Superior Capacitance of Functionalized Graphene. 2011 , 115, 7120-7125	277
1508	Flexible graphene/MnO ₂ composite papers for supercapacitor electrodes. 2011 , 21, 14706	344
1507	Graphene Composites. 2011 ,	4
1506	Top down method for synthesis of highly conducting graphene by exfoliation of graphite oxide using focused solar radiation. 2011 , 21, 6800	139
1505	Electrical current mediated interconversion between graphene oxide to reduced graphene oxide. 2011 , 98, 173105	32
1504	High-performance supercapacitor electrodes based on graphene hydrogels modified with 2-aminoanthraquinone moieties. 2011 , 13, 11193-8	151
1503	Multi-layer graphene grid and nanowire fabrication and printing. 2011 ,	

1502	A green synthetic approach to graphene nanosheets for hydrogen adsorption. 2011 , 257, 10183-10187	93
1501	Decorating graphene sheets with Pt nanoparticles using sodium citrate as reductant. 2011 , 257, 10758-10762	44
1500	Graphene-assisted matrix solid-phase dispersion for extraction of polybrominated diphenyl ethers and their methoxylated and hydroxylated analogs from environmental samples. 2011 , 708, 61-8	78
1499	Nanocomposites based on polystyrene-b-poly(ethylene-r-butylene)-b-polystyrene and exfoliated graphite nanoplates: Effect of nanoplatelet loading on morphology and mechanical properties. 2011 , 42, 1995-2002	36
1498	Magnetodielectric Effect in Graphene-PVA Nanocomposites. 2011 , 115, 14285-14289	36
1497	Formation of Carbon Clusters in the Initial Stage of Chemical Vapor Deposition Graphene Growth on Ni(111) Surface. 2011 , 115, 17695-17703	109
1496	The role of nanomaterials in redox-based supercapacitors for next generation energy storage devices. 2011 , 3, 839-55	681
1495	Site-specific immobilization of gold binding polypeptide on gold nanoparticle-coated graphene sheet for biosensor application. 2011 , 3, 2950-6	46
1494	Fluorinated Carbon Nanomaterials: XeF ₂ Fluorination of Graphene. 2011 , 11-30	6
1493	Green and facile synthesis of highly biocompatible graphene nanosheets and its application for cellular imaging and drug delivery. 2011 , 21, 12034	352
1492	Strong and bioactive gelatin/graphene oxide nanocomposites. 2011 , 7, 6159	131
1491	A simple and efficient method to prepare graphene by reduction of graphite oxide with sodium hydrosulfite. 2011 , 22, 045704	167
1490	Origin of enhanced stem cell growth and differentiation on graphene and graphene oxide. 2011 , 5, 7334-41	802
1489	On the Gelation of Graphene Oxide. 2011 , 115, 5545-5551	544
1488	Microwave-assisted rapid synthesis of water-soluble graphene. 2011 , 21, 10421	37
1487	Enhanced photocatalytic H ₂ production activity of graphene-modified titania nanosheets. 2011 , 3, 3670-8	678
1486	Graphene oxide windows for in situ environmental cell photoelectron spectroscopy. 2011 , 6, 651-7	177
1485	Surfactant-intercalated, chemically reduced graphene oxide for high performance supercapacitor electrodes. 2011 , 21, 7302	243

1484	Magnetically Separable ZnFe ₂ O ₄ /Graphene Catalyst and its High Photocatalytic Performance under Visible Light Irradiation. 2011 , 50, 7210-7218	458
1483	High concentration few-layer graphene sheets obtained by liquid phase exfoliation of graphite in ionic liquid. 2011 , 21, 3428-3431	317
1482	Graphene-containing thermoresponsive nanocomposite hydrogels of poly(N-isopropylacrylamide) prepared by frontal polymerization. 2011 , 21, 8727	179
1481	Graphene and graphene-based nanomaterials: the promising materials for bright future of electroanalytical chemistry. 2011 , 136, 4631-40	121
1480	Reduced graphene oxide as a catalyst for hydrogenation of nitrobenzene at room temperature. 2011 , 47, 2432-4	346
1479	Modulating optical properties of graphene oxide: role of prominent functional groups. 2011 , 5, 7640-7	173
1478	Novel PEG functionalized graphene nanosheets: enhancement of dispersibility and thermal stability. 2011 , 3, 2169-74	117
1477	Microwave-assisted synthesis of graphene/ZnO nanocomposite for electrochemical supercapacitors. 2011 , 509, 5488-5492	166
1476	In situ synthesis of Co ₃ O ₄ /graphene nanocomposite material for lithium-ion batteries and supercapacitors with high capacity and supercapacitance. 2011 , 509, 7778-7783	134
1475	Surface morphology of silica nanowires at the nanometer scale. 2011 , 357, 3042-3045	4
1474	Graphene-based electrochemical energy conversion and storage: fuel cells, supercapacitors and lithium ion batteries. 2011 , 13, 15384-402	432
1473	Synthesis and characterization of graphene paper with controllable properties via chemical reduction. 2011 , 21, 14631	80
1472	Wedging graphite into graphene and graphene-like platelets by dendritic macromolecules. 2011 , 21, 7820	24
1471	The effects of dopant on morphology formation in polyaniline graphite nanoplatelet composite. 2011 , 161, 177-182	20
1470	Rapid microwave-assisted synthesis of graphene nanosheets/zinc sulfide nanocomposites: Optical and photocatalytic properties. 2011 , 161, 404-410	154
1469	Functionalization of graphene with electrodeposited Prussian blue towards amperometric sensing application. 2011 , 85, 76-81	72
1468	A disposable electrochemical sensor for the determination of indole-3-acetic acid based on poly(safranin T)-reduced graphene oxide nanocomposite. 2011 , 85, 310-6	43
1467	Bio-electrocatalysis of NADH and ethanol based on graphene sheets modified electrodes. 2011 , 85, 1174-9	75

1466	Layer-by-layer assembled multilayer of graphene/Prussian blue toward simultaneous electrochemical and SPR detection of H ₂ O ₂ . 2011 , 85, 2106-12	50
1465	A novel label-free electrochemical immunosensor for carcinoembryonic antigen based on gold nanoparticles-thionine-reduced graphene oxide nanocomposite film modified glassy carbon electrode. 2011 , 85, 2620-5	98
1464	Electrochemical behavior of azithromycin at graphene and ionic liquid composite film modified electrode. 2011 , 86, 227-32	39
1463	An amperometric hydrogen peroxide chemical sensor based on graphene-Fe ₃ O ₄ multilayer films modified ITO electrode. 2011 , 87, 243-8	64
1462	High-performance self-assembled graphene hydrogels prepared by chemical reduction of graphene oxide. 2011 , 26, 9-15	249
1461	Preparation of graphene nanosheets through detonation. 2011 , 26, 21-25	25
1460	High yield production of graphene and its improved property in detecting heavy metal ions. 2011 , 26, 31-35	69
1459	Synthesis and Capacitive Properties of Manganese Oxide Nanosheets Dispersed on Functionalized Graphene Sheets. 2011 , 115, 6448-6454	332
1458	Assembly of Ni(OH) ₂ nanoplates on reduced graphene oxide: a two dimensional nanocomposite for enzyme-free glucose sensing. 2011 , 21, 16949	208
1457	Nanostructure control of graphene-composited TiO ₂ by a one-step solvothermal approach for high performance dye-sensitized solar cells. 2011 , 3, 4613-6	94
1456	High performance supercapacitors based on highly conductive nitrogen-doped graphene sheets. 2011 , 13, 12554-8	233
1455	Comparison of GO, GO/MWCNTs composite and MWCNTs as potential electrode materials for supercapacitors. 2011 , 4, 1855	348
1454	Intercalation of mesoporous carbon spheres between reduced graphene oxide sheets for preparing high-rate supercapacitor electrodes. 2011 , 4, 1866	394
1453	Non-aqueous approach to the preparation of reduced graphene oxide/Ni(OH) ₂ hybrid composites and their high capacitance behavior. 2011 , 47, 6305-7	384
1452	Graphene/metal oxide composites for the degradation of dyes under visible light irradiation. 2011 , 21, 3634	574
1451	Layer-by-layer assembly and UV photoreduction of graphene-polyoxometalate composite films for electronics. 2011 , 133, 9423-9	278
1450	Oxidizing metal ions with graphene oxide: the in situ formation of magnetic nanoparticles on self-reduced graphene sheets for multifunctional applications. 2011 , 47, 11689-91	158
1449	Silicon nanowire arrays-induced graphene oxide reduction under UV irradiation. 2011 , 3, 4662-9	65

1448	Polyurethane Nanocomposites by In-situ Polymerization Approach and Their Properties. 2011 , 169-220	
1447	Field emission from atomically thin edges of reduced graphene oxide. 2011 , 5, 4945-52	125
1446	Benzylamine-assisted noncovalent exfoliation of graphite-protecting Pt nanoparticles applied as catalyst for methanol oxidation. 2011 , 3, 2169-72	26
1445	Selective organic functionalization of graphene bulk or graphene edges. 2011 , 47, 9330-2	108
1444	Growth of graphene from food, insects, and waste. 2011 , 5, 7601-7	384
1443	Evaluation Criteria for Reduced Graphene Oxide. 2011 , 115, 11327-11335	409
1442	Oxidation of SO ₂ to SO ₃ catalyzed by graphene oxide foams. 2011 , 21, 13934	118
1441	Bimetallic Pt-Au nanocatalysts electrochemically deposited on graphene and their electrocatalytic characteristics towards oxygen reduction and methanol oxidation. 2011 , 13, 4083-94	222
1440	Thermally exfoliated graphene based counter electrode for low cost dye sensitized solar cells. 2011 , 109, 124308	79
1439	Sodium deoxycholate functionalized graphene and its composites with polyvinyl alcohol. 2011 , 44, 445302	14
1438	Electric field-induced nanopatterning of reduced graphene oxide on Si and a p-n diode junction. 2011 , 21, 5805	10
1437	Functionalization of graphene sheets through fullerene attachment. 2011 , 21, 5386	93
1436	GRAPHENE: SYNTHESIS, FUNCTIONALIZATION AND PROPERTIES. 2011 , 25, 4107-4143	18
1435	Preparation of graphene-TiO ₂ composites with enhanced photocatalytic activity. 2011 , 35, 353-359	482
1434	Graphene Oxide as a Two-dimensional Surfactant. 2011 , 1344, 1	2
1433	Drop-casted self-assembling graphene oxide membranes for scanning electron microscopy on wet and dense gaseous samples. 2011 , 5, 10047-54	95
1432	Assembly of graphene sheets into hierarchical structures for high-performance energy storage. 2011 , 5, 3831-8	364
1431	Edge-functionalized graphene-like platelets as a co-curing agent and a nanoscale additive to epoxy resin. 2011 , 21, 7337	76

1430	From graphite oxide to highly water dispersible functionalized graphene by single step plant extract-induced deoxygenation. 2011 , 13, 1990	129
1429	Hydrolysable tannin as environmentally friendly reducer and stabilizer for graphene oxide. 2011 , 13, 1655	200
1428	Partially oxidized graphene as a precursor to graphene. 2011 , 21, 11217	66
1427	Sticky interconnect for solution-processed tandem solar cells. 2011 , 133, 9262-5	162
1426	Facile synthesis of soluble graphene via a green reduction of graphene oxide in tea solution and its biocomposites. 2011 , 3, 1127-33	459
1425	High-yield synthesis of few-layer graphene flakes through electrochemical expansion of graphite in propylene carbonate electrolyte. 2011 , 133, 8888-91	483
1424	Blood compatible graphene/heparin conjugate through noncovalent chemistry. 2011 , 12, 336-41	185
1423	Reactive Nanocomposite Foams. 2011 , 30, 45-62	17
1422	Supercritical Fluid Processing of Graphene and Graphene Oxide. 2011 ,	2
1421	. 2011 ,	14
1420	Synthesis of Aqueous Dispersion of Graphenes via Reduction of Graphite Oxide in the Solution of Conductive Polymer. 2011 ,	
1419	Copper-Modified Activated Carbons as Adsorbents of NO under Ambient Conditions. 2011 , 29, 831-845	6
1418	WITHDRAWN: Folding and cracking of graphene oxide sheets upon deposition. 2011 ,	
1417	Graphene Nanoplatelets via Exfoliation of Platelet Carbon Nanofibers and Its Electric Double Layer Capacitance. 2011 , 40, 44-45	9
1416	Submillimeter-scale Graphene Patterning through Ink-jet Printing of Graphene Oxide Ink. 2011 , 40, 54-55	23
1415	Thermal Reduction of Graphene Oxide. 2011 ,	24
1414	Oxygen Reduction Reaction Activity of Pt/Graphene Composites with Various Graphene Size. 2011 , 79, 337-339	25
1413	Photoreduction of graphite oxide. 2011 , 45, 57-61	78

1412	Graphene: A novel carbon nanomaterial. 2011 , 47, 1-10	55
1411	Revisiting the effects of organic solvents on the thermal reduction of graphite oxide. 2011 , 526, 65-71	9
1410	Recyclable graphite oxide catalyzed Friedel-Crafts addition of indoles to α -unsaturated ketones. 2011 , 52, 5188-5191	130
1409	Graphene oxide-Ag nanocomposite: In situ photochemical synthesis and application as a surface-enhanced Raman scattering substrate. 2011 , 520, 179-185	50
1408	Removal of methylene blue from aqueous solution by a solvothermal-synthesized graphene/magnetite composite. 2011 , 192, 1515-24	618
1407	Electrochemical properties of graphene nanosheets/polyaniline nanofibers composites as electrode for supercapacitors. 2011 , 196, 10775-10781	266
1406	Nanocomposite film based on graphene oxide for high performance flexible glucose biosensor. 2011 , 160, 287-294	110
1405	Poly(ionic liquid)-stabilized graphene sheets and their hybrid with poly(3,4-ethylenedioxythiophene). 2011 , 12, 2215-2224	72
1404	Fabrication of exfoliated graphene-based polypropylene nanocomposites with enhanced mechanical and thermal properties. 2011 , 52, 4001-4010	480
1403	Preparation of Ag ₂ S/graphene nanocomposite from a single source precursor and its surface-enhanced Raman scattering and photoluminescent activity. 2011 , 62, 1094-1101	47
1402	Depositing ZnO nanoparticles onto graphene in a polyol system. 2011 , 125, 617-620	84
1401	Synthesis of graphene/Ag nanocomposite with good dispersibility and electroconductibility via solvothermal method. 2011 , 129, 270-274	60
1400	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. 2011 , 130, 672-679	124
1399	Polystyrene-grafted graphene with improved solubility in organic solvents and its compatibility with polymers. 2011 , 130, 794-799	29
1398	BiVO ₄ /graphene catalyst and its high photocatalytic performance under visible light irradiation. 2011 , 131, 325-330	163
1397	Preparation of graphene nanosheet/alumina composites by spark plasma sintering. 2011 , 46, 315-318	186
1396	Synthesis of high-performance graphene nanosheets by thermal reduction of graphene oxide. 2011 , 46, 2131-2134	32
1395	Hydrothermal synthesis of magnetic reduced graphene oxide sheets. 2011 , 46, 2077-2083	39

1394	One-step synthesis of reduced graphite oxide-silver nanocomposite. 2011 , 46, 2004-2008		17
1393	Hydrothermal synthesis of graphene-ZnS quantum dot nanocomposites. 2011 , 65, 198-200		54
1392	Reduction and disorder in graphene oxide induced by electron-beam irradiation. 2011 , 65, 1229-1230		52
1391	A study on the preparation of highly conductive graphene. 2011 , 65, 2582-2584		27
1390	Easy synthesis and characterization of high quality graphene sheets produced from mesocarbon microbeads. 2011 , 65, 2739-2741		8
1389	Preparation of graphene and TiO ₂ layer by layer composite with highly photocatalytic efficiency. 2011 , 21, 467-471		47
1388	Microwave-assisted synthesis of palladium nanoparticles supported on graphene: A highly active and recyclable catalyst for carbon-carbon cross-coupling reactions. 2011 , 279, 1-11		329
1387	Water dispersible graphene noncovalently functionalized with tryptophan and its poly(vinyl alcohol) nanocomposite. 2011 , 42, 2130-2135		117
1386	Morphology, mechanical and thermal properties of graphene-reinforced poly(butylene succinate) nanocomposites. 2011 , 72, 1-6		161
1385	Fabrication and electrochemical capacitance of hierarchical graphene/polyaniline/carbon nanotube ternary composite film. 2011 , 56, 9224-9232		150
1384	One-step "green" preparation of graphene nanosheets and carbon nanospheres mixture by electrolyzing graphite rod and its application for glucose biosensing. 2011 , 30, 112-7		35
1383	Graphene synthesis on Fe foil using thermal CVD. 2011 , 11, S81-S85		77
1382	Thermal conductivity and structure of non-covalent functionalized graphene/epoxy composites. <i>Carbon</i> , 2011 , 49, 5107-5116	10.4	572
1381	The formation of a carbon nanotube-graphene oxide core-shell structure and its possible applications. <i>Carbon</i> , 2011 , 49, 5071-5078	10.4	118
1380	Electrically conductive carbon nanopipe-graphite nanosheet/polyaniline composites. <i>Carbon</i> , 2011 , 49, 5239-5245	10.4	28
1379	Fabrication of graphene films on TiO ₂ nanotube arrays for photocatalytic application. <i>Carbon</i> , 2011 , 49, 5312-5320	10.4	116
1378	Ultrasonication-assisted ultrafast reduction of graphene oxide by zinc powder at room temperature. <i>Carbon</i> , 2011 , 49, 5389-5397	10.4	296
1377	Synthesis and photocatalytic properties of the graphene-La ₂ Ti ₂ O ₇ nanocomposites. 2011 , 178, 468-474		54

1376	Investigation of structural and electronic properties of graphene oxide. 2011 , 99, 013104	198
1375	A graphene nanoribbon network and its biosensing application. 2011 , 3, 5156-60	72
1374	Graphene Sensors. 2011 , 11, 3161-3170	290
1373	High-quality thin graphene films from fast electrochemical exfoliation. 2011 , 5, 2332-9	765
1372	Enhanced Cr(vi) removal using iron nanoparticle decorated graphene. 2011 , 3, 3583-5	310
1371	One-pot reduction of graphene oxide at subzero temperatures. 2011 , 47, 12370-2	373
1370	Liquid-phase exfoliation, functionalization and applications of graphene. 2011 , 3, 2118-26	241
1369	Graphene/cellulose nanocomposite paper with high electrical and mechanical performances. 2011 , 21, 13991	213
1368	Graphene Nanosheet/Ni ²⁺ /Al ³⁺ Layered Double-Hydroxide Composite as a Novel Electrode for a Supercapacitor. 2011 , 23, 3509-3516	470
1367	A lattice-engineering route to heterostructured functional nanohybrids. 2011 , 6, 324-38	36
1366	Solid-state electrochemistry of graphene oxides: absolute quantification of reducible groups using voltammetry. 2011 , 6, 2899-901	79
1365	Hydration of Graphite Oxide in Electrolyte and Non-Electrolyte Solutions. 2011 , 115, 24611-24614	19
1364	Dual path mechanism in the thermal reduction of graphene oxide. 2011 , 133, 17315-21	356
1363	Preparation of polyester/reduced graphene oxide composites via in situ melt polycondensation and simultaneous thermo-reduction of graphene oxide. 2011 , 21, 8612	128
1362	Chemical functionalization of graphene sheets by solvothermal reduction of a graphene oxide suspension in N-methyl-2-pyrrolidone. 2011 , 21, 3371-3377	313
1361	One-step in situ ball milling synthesis of polymer-functionalized graphene nanocomposites. 2011 , 21, 8626	145
1360	Fluorescent whitening agent stabilized graphene and its composites with chitosan. 2011 , 21, 17111	32
1359	Reduction of graphite oxide using alcohols. 2011 , 21, 3443-3447	342

- 1358 Graphite Oxide as a Dehydrative Polymerization Catalyst: A One-Step Synthesis of Carbon-Reinforced Poly(phenylene methylene) Composites. **2011**, 44, 7659-7667 110
- 1357 Ultrafast Relaxation Dynamics in Graphene Oxide: Evidence of Electron Trapping. **2011**, 115, 19110-19116 81
- 1356 Controlling graphite oxide bandgap width by reduction in hydrogen. **2011**, 37, 942-945 15
- 1355 Preparation and examination of multilayer graphene nanosheets by exfoliation of graphite in high efficient attritor mill. **2011**, 9, 47-51 23
- 1354 Direct exfoliation of graphene in methanesulfonic acid and facile synthesis of graphene/polybenzimidazole nanocomposites. **2011**, 21, 505-512 69
- 1353 Preparation of Highly Conductive Graphene Hydrogels for Fabricating Supercapacitors with High Rate Capability. **2011**, 115, 17206-17212 613
- 1352 GRAPHENE: SYNTHESIS, FUNCTIONALIZATION AND PROPERTIES. **2011**, 25, 427-451 36
- 1351 Laser assisted photocatalytic reduction of metal ions by graphene oxide. **2011**, 21, 9608 89
- 1350 Layer-by-layer removal of graphene for device patterning. **2011**, 331, 1168-72 199
- 1349 Graphene-Based Nanoassemblies for Energy Conversion. **2011**, 2, 242-251 553
- 1348 Bi- and trilayer graphene solutions. **2011**, 6, 439-45 304
- 1347 Environmentally friendly approaches toward the mass production of processable graphene from graphite oxide. **2011**, 21, 298-306 154
- 1346 Solid-state microwave irradiation synthesis of high quality graphene nanosheets under hydrogen containing atmosphere. **2011**, 21, 680-686 128
- 1345 Stimuli-Responsive Polymer Covalent Functionalization of Graphene Oxide by Ce(IV)-Induced Redox Polymerization. **2011**, 115, 24636-24641 44
- 1344 Facile and simultaneous production of metal/metal oxide dispersed graphene nano composites by solar exfoliation. **2011**, 21, 17094 33
- 1343 Graphene Chemistry: Synthesis and Manipulation. **2011**, 2, 2425-2432 220
- 1342 Antibacterial activity of graphite, graphite oxide, graphene oxide, and reduced graphene oxide: membrane and oxidative stress. **2011**, 5, 6971-80 1900
- 1341 Reducing Graphene Oxide via Hydroxylamine: A Simple and Efficient Route to Graphene. **2011**, 115, 11957-11966 66

1340	Poly(2,5-dimercapto-1,3,4-thiadiazole)/sulfonated graphene composite as cathode material for rechargeable lithium batteries. 2011 , 41, 377-382	25
1339	Preparation and characterization of graphene/NiO nanocomposites. 2011 , 46, 1190-1195	44
1338	Role of poly(N-vinyl-2-pyrrolidone) as stabilizer for dispersion of graphene via hydrophobic interaction. 2011 , 46, 1316-1321	72
1337	Effect of the microstructure on the intercalation and exfoliation behaviour of graphite. 2011 , 46, 2422-2430	5
1336	Preparation of MnO ₂ /graphene composite as electrode material for supercapacitors. 2011 , 46, 3517-3522	114
1335	Preparation and chemical reduction of laurylamine-intercalated graphite oxide. 2011 , 46, 3611-3621	9
1334	Growth of graphene and graphite nanocrystals from a molten phase. 2011 , 46, 6255-6263	33
1333	Review on polymer/graphite nanoplatelet nanocomposites. 2011 , 46, 5595-5614	340
1332	Synthesis, mechanical, and barrier properties of LDPE/graphene nanocomposites using vinyl triethoxysilane as a coupling agent. 2011 , 13, 869-878	73
1331	Functionalization of thermally reduced graphene by in situ atom transfer radical polymerization. 2011 , 13, 6389-6396	40
1330	Microwave-assisted rapid synthesis of Pt/graphene nanosheet composites and their application for methanol oxidation. 2011 , 13, 4731-4737	34
1329	Noncovalent wrapping of chemically modified graphene with π -conjugated disk-like molecules. 2011 , 289, 925-932	27
1328	Electrochemical oxidation behavior of guanosine-5'-monophosphate on a glassy carbon electrode modified with a composite film of graphene and multi-walled carbon nanotubes, and its amperometric determination. 2011 , 172, 343-349	12
1327	Electrochemistry and voltammetric determination of L-tryptophan and L-tyrosine using a glassy carbon electrode modified with a Nafion/TiO ₂ -graphene composite film. 2011 , 173, 241-247	136
1326	MOF/graphite oxide hybrid materials: exploring the new concept of adsorbents and catalysts. 2011 , 17, 5-16	116
1325	Large single-crystal monolayer graphene by decomposition of methanol. 2011 , 105, 31-37	5
1324	Enhanced interfacial interaction for effective reinforcement of poly(vinyl alcohol) nanocomposites at low loading of graphene. 2011 , 67, 1785-1797	38
1323	Microspheres composed of multilayer graphene as anode material for lithium-ion batteries. 2011 , 653, 45-49	15

1322	Reduced graphene oxide-metal/metal oxide composites: facile synthesis and application in water purification. 2011 , 186, 921-31	421
1321	Studies on the electrochemical reduction of oxygen catalyzed by reduced graphene sheets in neutral media. 2011 , 196, 1141-1144	47
1320	Enhanced capacitance in partially exfoliated multi-walled carbon nanotubes. 2011 , 196, 5209-5214	94
1319	Green synthesis of graphene nanosheets/ZnO composites and electrochemical properties. 2011 , 184, 1421-1427	209
1318	Lead adsorption onto exfoliated graphitic nanoplatelets in aqueous solutions. 2011 , 176, 504-509	13
1317	Label-free, electrochemical detection of methicillin-resistant <i>Staphylococcus aureus</i> DNA with reduced graphene oxide-modified electrodes. 2011 , 26, 3881-6	180
1316	Green fabrication of chitosan films reinforced with parallel aligned graphene oxide. 2011 , 83, 1908-1915	216
1315	Aqueous colloids of graphene oxide nanosheets by exfoliation of graphite oxide without ultrasonication. 2011 , 34, 25-28	47
1314	Preparation, characterization, and electrocatalytic performance of graphene-methylene blue thin films. 2011 , 4, 124-130	34
1313	Microbial reduction of graphene oxide by <i>Shewanella</i> . 2011 , 4, 563-570	274
1312	Sodium citrate: A universal reducing agent for reduction / decoration of graphene oxide with Au nanoparticles. 2011 , 4, 599-611	137
1311	Graphene-based conducting inks for direct inkjet printing of flexible conductive patterns and their applications in electric circuits and chemical sensors. 2011 , 4, 675-684	355
1310	Aqueous-phase synthesis of Ag-TiO ₂ -reduced graphene oxide and Pt-TiO ₂ -reduced graphene oxide hybrid nanostructures and their catalytic properties. 2011 , 4, 1153-1162	58
1309	Preparation and characterization of nanocomposite based on polyaniline and graphene nanosheets. 2011 , 19, 203-208	37
1308	Mechanism of intercalation and deintercalation of lithium ions in graphene nanosheets. 2011 , 56, 3204	45
1307	Influence of heat treatment on thermally-reduced graphene oxide/TiO ₂ composites for photocatalytic applications. 2011 , 28, 2236-2241	17
1306	Growth of carbon nanowalls at atmospheric pressure for one-step gas sensor fabrication. 2011 , 6, 202	104
1305	Influences of graphene oxide support on the electrochemical performances of graphene oxide-MnO ₂ nanocomposites. 2011 , 6, 531	89

1304	Synthesis and characterization of conducting gas barrier polyacrylonitrile/graphite nanocomposites. 2011 , 32, 1336-1342	22
1303	A green and fast way for reduction of graphene oxide in acidic aqueous solution via microwave assistance. 2011 , 208, 2325-2327	22
1302	An efficient way to functionalize graphene sheets with presynthesized polymer via ATNRC chemistry. 2011 , 49, 1582-1590	106
1301	Growing poly(N-vinylcarbazole) from the surface of graphene oxide via RAFT polymerization. 2011 , 49, 2043-2050	73
1300	Functionalization of graphene oxide towards thermo-sensitive nanocomposites via moderate in situ SET-LRP. 2011 , 49, 4747-4755	73
1299	Covalent polymeric modification of graphene nanosheets via surface-initiated single-electron-transfer living radical polymerization. 2011 , 49, 4977-4986	33
1298	Direct electrodeposition of graphene enabling the one-step synthesis of graphene-metal nanocomposite films. 2011 , 7, 1203-6	307
1297	Chitosan-functionalized graphene oxide as a nanocarrier for drug and gene delivery. 2011 , 7, 1569-78	694
1296	Wrapping graphene sheets around organic wires for making memory devices. 2011 , 7, 2372-8	13
1295	Flexible and transparent electrothermal film heaters based on graphene materials. 2011 , 7, 3186-92	311
1294	Dispersion and Exfoliation of Graphene in Rubber by an Ultrasonically-Assisted Latex Mixing and In situ Reduction Process. 2011 , 296, 590-602	199
1293	Transparent and Conductive Graphene Oxide/Poly(ethylene glycol) diacrylate Coatings Obtained by Photopolymerization. 2011 , 296, 401-407	38
1292	Tailored Assembly of Carbon Nanotubes and Graphene. 2011 , 21, 1338-1354	191
1291	Water-Soluble Poly(N-isopropylacrylamide)/Graphene Sheets Synthesized via Click Chemistry for Drug Delivery. 2011 , 21, 2754-2763	383
1290	Facile Physical Route to Highly Crystalline Graphene. 2011 , 21, 3496-3501	84
1289	Amplifying Charge-Transfer Characteristics of Graphene for Triiodide Reduction in Dye-Sensitized Solar Cells. 2011 , 21, 3729-3736	167
1288	Functional composite materials based on chemically converted graphene. 2011 , 23, 1089-115	859
1287	Graphene-biomaterial hybrid materials. 2011 , 23, 2009-14	151

1286	Bioinspired effective prevention of restacking in multilayered graphene films: towards the next generation of high-performance supercapacitors. 2011 , 23, 2833-8	888
1285	Micropatterning of graphene sheets by inkjet printing and its wideband dipole-antenna application. 2011 , 23, 2113-8	209
1284	Carbon materials for chemical capacitive energy storage. 2011 , 23, 4828-50	2273
1283	Bio-inspired borate cross-linking in ultra-stiff graphene oxide thin films. 2011 , 23, 3842-6	245
1282	Graphene: Piecing it together. 2011 , 23, 4471-90	115
1281	2D sandwich-like sheets of iron oxide grown on graphene as high energy anode material for supercapacitors. 2011 , 23, 5574-80	489
1280	Electrical assembly and reduction of graphene oxide in a single solution step for use in flexible sensors. 2011 , 23, 4626-30	81
1279	Water Processable Graphene Oxide:Single Walled Carbon Nanotube Composite as Anode Modifier for Polymer Solar Cells. 2011 , 1, 1052-1057	83
1278	Functionalized Graphene for Biosensing Applications. 2011 , 221-235	
1277	Hydrothermal synthesis of MoO ₃ nanobelt-graphene composites. 2011 , 46, 1195-1201	51
1276	Remarkable uptake of CO ₂ and CH ₄ by graphene-Like borocarbonitrides, BxCyNz. 2011 , 4, 1662-70	49
1275	Graphene Nanoribbons by Chemists: Nanometer-Sized, Soluble, and Defect-Free. 2011 , 123, 2588-2591	59
1274	Claisen Rearrangement of Graphite Oxide: A Route to Covalently Functionalized Graphenes. 2011 , 123, 9010-9014	21
1273	Gold Nanoclusters and Graphene Nanocomposites for Drug Delivery and Imaging of Cancer Cells. 2011 , 123, 11848-11852	13
1272	Graphene nanoribbons by chemists: nanometer-sized, soluble, and defect-free. 2011 , 50, 2540-3	214
1271	Claisen rearrangement of graphite oxide: a route to covalently functionalized graphenes. 2011 , 50, 8848-52	77
1270	Gold nanoclusters and graphene nanocomposites for drug delivery and imaging of cancer cells. 2011 , 50, 11644-8	258
1269	Charm-bracelet-type poly(N-vinylcarbazole) functionalized with reduced graphene oxide for broadband optical limiting. 2011 , 17, 780-5	63

1268	Facile synthesis of wide-bandgap fluorinated graphene semiconductors. 2011 , 17, 8896-903	112
1267	Nonvolatile rewritable memory effects in graphene oxide functionalized by conjugated polymer containing fluorene and carbazole units. 2011 , 17, 10304-11	62
1266	One-pot functionalization of graphene with porphyrin through cycloaddition reactions. 2011 , 17, 8957-64	115
1265	Electrochemistry at chemically modified graphenes. 2011 , 17, 10763-70	272
1264	Enhancement of photogenerated electron transport in dye-sensitized solar cells with introduction of a reduced graphene oxide-TiO ₂ junction. 2011 , 17, 10832-7	122
1263	Semiconductor/reduced graphene oxide nanocomposites derived from photocatalytic reactions. 2011 , 164, 353-357	155
1262	Evaluation of graphene as an advantageous adsorbent for solid-phase extraction with chlorophenols as model analytes. 2011 , 1218, 197-204	278
1261	Plunger-in-needle solid-phase microextraction with graphene-based sol-gel coating as sorbent for determination of polybrominated diphenyl ethers. 2011 , 1218, 4509-16	153
1260	Palladium nanoparticle/chitosan-grafted graphene nanocomposites for construction of a glucose biosensor. 2011 , 26, 3456-63	190
1259	Amplified electrochemiluminescence of quantum dots by electrochemically reduced graphene oxide for nanobiosensing of acetylcholine. 2011 , 26, 4552-8	80
1258	Photocatalytic reduction of graphene oxides hybridized by ZnO nanoparticles in ethanol. <i>Carbon</i> , 2011 , 49, 11-18	10.4 324
1257	Highly reversible Co ₃ O ₄ /graphene hybrid anode for lithium rechargeable batteries. <i>Carbon</i> , 2011 , 49, 326-332	10.4 327
1256	Morphological changes and covalent reactivity assessment of single-layer graphene oxides under carboxylic group-targeted chemistry. <i>Carbon</i> , 2011 , 49, 722-725	10.4 33
1255	High performance supercapacitors based on reduced graphene oxide in aqueous and ionic liquid electrolytes. <i>Carbon</i> , 2011 , 49, 573-580	10.4 555
1254	Graphene oxide nanoplatelets as excellent electrochemical active materials for VO ₂ ⁺ / and V ²⁺ /V ³⁺ redox couples for a vanadium redox flow battery. <i>Carbon</i> , 2011 , 49, 693-700	10.4 210
1253	Synthesis of surface-functionalized graphene nanosheets with high Pt-loadings and their applications to methanol electrooxidation. <i>Carbon</i> , 2011 , 49, 904-909	10.4 171
1252	Electronic structure of graphite oxide and thermally reduced graphite oxide. <i>Carbon</i> , 2011 , 49, 1362-1366	10.4 187
1251	The production of graphene nanosheets decorated with silver nanoparticles for use in transparent, conductive films. <i>Carbon</i> , 2011 , 49, 1550-1560	10.4 293

1250	Pulsed laser assisted reduction of graphene oxide. <i>Carbon</i> , 2011 , 49, 2431-2436	10.4	166
1249	Thermomechanical properties of chemically modified graphene/poly(methyl methacrylate) composites made by in situ polymerization. <i>Carbon</i> , 2011 , 49, 2615-2623	10.4	187
1248	Hydrazine-reduction of graphite- and graphene oxide. <i>Carbon</i> , 2011 , 49, 3019-3023	10.4	1190
1247	High-quality few layer graphene produced by electrochemical intercalation and microwave-assisted expansion of graphite. <i>Carbon</i> , 2011 , 49, 2809-2816	10.4	104
1246	A simple method to produce almost perfect graphene on highly oriented pyrolytic graphite. <i>Carbon</i> , 2011 , 49, 3242-3249	10.4	90
1245	One-step synthesis of NH ₂ -graphene from in situ graphene-oxide reduction and its improved electrochemical properties. <i>Carbon</i> , 2011 , 49, 3250-3257	10.4	322
1244	The production of flexible and transparent conductive films of carbon nanotube/graphene networks coordinated by divalent metal (Cu, Ca or Mg) ions. <i>Carbon</i> , 2011 , 49, 3371-3375	10.4	71
1243	Photochemical loading of metal nanoparticles on reduced graphene oxide sheets using phosphotungstate. <i>Carbon</i> , 2011 , 49, 3454-3462	10.4	91
1242	Synthesis of electrochemically-reduced graphene oxide film with controllable size and thickness and its use in supercapacitor. <i>Carbon</i> , 2011 , 49, 3488-3496	10.4	239
1241	Efficient synthesis of graphene sheets using pyrrole as a reducing agent. <i>Carbon</i> , 2011 , 49, 3497-3502	10.4	175
1240	High-concentration organic solutions of poly(styrene-co-butadiene-co-styrene)-modified graphene sheets exfoliated from graphite. <i>Carbon</i> , 2011 , 49, 3529-3537	10.4	77
1239	A simple one-pot strategy for the synthesis of ternary reduced graphite oxide/SnO ₂ /Au hybrid nanomaterials. <i>Carbon</i> , 2011 , 49, 3538-3543	10.4	31
1238	Solvothermal synthesis of homogeneous graphene dispersion with high concentration. <i>Carbon</i> , 2011 , 49, 3920-3927	10.4	109
1237	Easy and green synthesis of reduced graphite oxide-based hydrogels. <i>Carbon</i> , 2011 , 49, 4314-4321	10.4	217
1236	Changes in graphite oxide texture and chemistry upon oxidation and reduction and their effect on adsorption of ammonia. <i>Carbon</i> , 2011 , 49, 4392-4402	10.4	58
1235	Microwave syntheses of graphene and graphene decorated with metal nanoparticles. <i>Carbon</i> , 2011 , 49, 4449-4457	10.4	54
1234	Reversible phase transfer of graphene oxide and its use in the synthesis of graphene-based hybrid materials. <i>Carbon</i> , 2011 , 49, 4563-4570	10.4	39
1233	Simultaneous surface functionalization and reduction of graphene oxide with octadecylamine for electrically conductive polystyrene composites. <i>Carbon</i> , 2011 , 49, 4724-4730	10.4	322

1232	Preparation of chitosan/graphene oxide composite film with enhanced mechanical strength in the wet state. 2011 , 83, 653-658		410
1231	Cellulose/graphite oxide composite films with improved mechanical properties over a wide range of temperature. 2011 , 83, 966-972		118
1230	Graphene oxide/cellulose composite using NMMO monohydrate. 2011 , 86, 903-909		78
1229	One-step reduction of graphene oxide with l-glutathione. 2011 , 384, 543-548		155
1228	Hydrothermal preparation and electrochemical sensing properties of TiO(2)-graphene nanocomposite. 2011 , 83, 78-82		147
1227	The preparation of high performance and conductive poly (vinyl alcohol)/graphene nanocomposite via reducing graphite oxide with sodium hydrosulfite. 2011 , 71, 1266-1270		94
1226	Microwave-assisted covalent modification of graphene nanosheets with chitosan and its electrorheological characteristics. 2011 , 257, 2637-2642		115
1225	Multilayer films of cationic graphene-polyelectrolytes and anionic graphene-polyelectrolytes fabricated using layer-by-layer self-assembly. 2011 , 257, 4982-4989		43
1224	Radiofrequency plasma assisted exfoliation and reduction of large-area graphene oxide platelets produced by a mechanical transfer process. 2011 , 508, 285-288		12
1223	Structural evolution of graphite oxide during heat treatment. 2011 , 511, 110-115		34
1222	Controlling oxygen functional species of graphene oxide for an electro-oxidation of L-ascorbic acid. 2011 , 13, 677-680		29
1221	Electrochemical reduction of graphene oxide in organic solvents. 2011 , 56, 5363-5368		80
1220	Preparation of graphene/polyaniline composites by simple chemical procedure and its improved field emission properties. <i>Carbon</i> , 2011 , 49, 2245-2252	10.4	108
1219	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. <i>Carbon</i> , 2011 , 49, 3158-3164	10.4	279
1218	Formation of self-organized graphene honeycomb films on substrates. <i>Carbon</i> , 2011 , 49, 3424-3429	10.4	16
1217	Direct electrodeposition of reduced graphene oxide on glassy carbon electrode and its electrochemical application. 2011 , 13, 133-137		605
1216	Graphene supercapacitor electrodes fabricated by inkjet printing and thermal reduction of graphene oxide. 2011 , 13, 355-358		330
1215	Electrochemical detection of hydroquinone by graphene and Pt-graphene hybrid material synthesized through a microwave-assisted chemical reduction process. 2011 , 56, 2712-2716		65

1214	A flexible graphene/multiwalled carbon nanotube film as a high performance electrode material for supercapacitors. 2011 , 56, 5115-5121	230
1213	Microwave-assisted synthesis of graphene-supported Pd ₁ Pt ₃ nanostructures and their electrocatalytic activity for methanol oxidation. 2011 , 56, 7064-7070	80
1212	Eosin Y functionalized graphene for photocatalytic hydrogen production from water. 2011 , 36, 8885-8893	98
1211	Surface-enhanced Raman scattering studies of few-layer graphene on silver substrate with 514nm excitation. 2011 , 992, 48-51	18
1210	In situ synthesis of graphene/cobalt nanocomposites and their magnetic properties. 2011 , 176, 711-715	77
1209	A simple approach for immobilization of gold nanoparticles on graphene oxide sheets by covalent bonding. 2011 , 257, 3350-3357	91
1208	Graphene oxide monolayers as supporting films for high resolution transmission electron microscopy. 2011 , 257, 5754-5758	6
1207	A graphene modified anode to improve the performance of microbial fuel cells. 2011 , 196, 5402-5407	281
1206	Controllable synthesis of graphene sheets with different numbers of layers and effect of the number of graphene layers on the specific capacity of anode material in lithium-ion batteries. 2011 , 184, 982-989	80
1205	An in situ oxidation route to fabricate graphene nanoplate-metal oxide composites. 2011 , 184, 1393-1399	22
1204	Experimental study on the reducibility of graphene oxide by hydrazine hydrate. 2011 , 406, 498-502	41
1203	A voltammetric sensor based on graphene-modified electrode for simultaneous determination of catechol and hydroquinone. 2011 , 650, 209-213	192
1202	Iron-tetrasulfophthalocyanine functionalized graphene nanosheets: Attractive hybrid nanomaterials for electrocatalysis and electroanalysis. 2011 , 651, 12-18	24
1201	One-step aqueous synthesis of graphene-CdTe quantum dot-composed nanosheet and its enhanced photoresponses. 2011 , 353, 588-92	64
1200	Stable aqueous dispersions of graphene prepared with hexamethylenetetramine as a reductant. 2011 , 354, 493-7	67
1199	Synthesis and characterization of silver nanoparticle and graphene oxide nanosheet composites as a bactericidal agent for water disinfection. 2011 , 360, 463-70	348
1198	A review on the mechanical and electrical properties of graphite and modified graphite reinforced polymer composites. 2011 , 36, 638-670	894
1197	Graphene based materials: Past, present and future. 2011 , 56, 1178-1271	2607

1196	Graphene-based polymer nanocomposites. 2011 , 52, 5-25	2439
1195	Clicking graphite oxide sheets with well-defined polystyrenes: A new Strategy to control the layer thickness. 2011 , 52, 3046-3052	33
1194	Sonochemical synthesis of TiO ₂ nanoparticles on graphene for use as photocatalyst. 2011 , 18, 1082-90	193
1193	Electrochemical deposition of polypyrrole/graphene oxide composite on microelectrodes towards tuning the electrochemical properties of neural probes. 2011 , 158, 176-184	108
1192	Dye-sensitized solar cells using graphene-based carbon nano composite as counter electrode. 2011 , 95, 323-325	182
1191	Nonvolatile unipolar resistive switching in ultrathin films of graphene and carbon nanotubes. 2011 , 151, 1084-1087	30
1190	Strain-induced pseudo-magnetic fields and charging effects on CVD-grown graphene. 2011 , 605, 1649-1656	50
1189	Folding and cracking of graphene oxide sheets upon deposition. 2011 , 605, 1669-1675	26
1188	CHI oxidation using graphite oxide. 2011 , 67, 4431-4434	193
1187	Electrochemical preparation of few layer-graphene nanosheets via reduction of oriented exfoliated graphene oxide thin films in acetamide–ammonium nitrate melt under ambient conditions. 2011 , 519, 2323-2327	32
1186	Nonlinearity-Preserved Graphene/PVAc Composite in Optical Deposition for Fiber Mode-Locked Lasers. 2011 ,	
1185	Dielectrophoretic assembly and atomic force microscopy modification of reduced graphene oxide. 2011 , 110, 114515	8
1184	Preparation of Functionalized Graphene Sheets. 2011 , 15, 1133-1150	36
1183	Electrically Conductive Polymeric Composites and Nanocomposites. 2011 , 425-477	5
1182	Scalable nanoimprint patterning of thin graphitic oxide sheets and in situ reduction. 2011 , 29, 011023	6
1181	Improving Superconducting Properties of MgB ₂ by Graphene Doping. 2011 , 21, 2686-2689	22
1180	Quantum transport in chemically modified two-dimensional graphene: From minimal conductivity to Anderson localization. 2011 , 84,	66
1179	Solution-chemistry approach to graphene nanostructures. 2011 , 21, 3295	59

1178	Morphology and structure of mono- and few-layer graphene produced by jet cavitation. 2011 , 99, 123112	31
1177	Oxidation and disorder in few-layered graphene induced by the electron-beam irradiation. 2011 , 98, 183112	37
1176	Surface engineering of graphene for high performance supercapacitors. 2011 ,	
1175	In situ doping of graphene by exfoliation in a nitrogen ambient. 2011 , 98, 113115	25
1174	Initial stages of graphitization on SiC(000-1), as studied by phase atomic force microscopy. 2011 , 109, 054307	12
1173	Influence of laser and thermal treatment on the thermal conductivity of In-graphene composites. 2011 , 110, 094907	5
1172	Surface acoustic wave response to ambient humidity in graphite oxide structures. 2011 , 99, 051915	5
1171	Vibration Properties of Multi-Layered Graphene Sheets. 2011 , 287-290, 81-85	1
1170	Graphene growth on SiC and other substrates using carbon sources. 2011 , 1284, 3	
1169	Effects of graphene oxides on the cure behaviors of a tetrafunctional epoxy resin. 2011 , 5, 809-818	108
1168	Reduced Graphene Sheets as Catalysts for Oxygen Reduction Reaction in Alkaline Media. 2011 , 197-198, 667-671	1
1167	Diagnosing the uncertainty and detectability of emission reductions for REDD + under current capabilities: an example for Panama. 2011 , 6, 024005	55
1166	Hamiltonian of Green-Schwarz IIB Superstring Theory in AdS ₃ × S ³ Background. 2011 , 28, 071101	
1165	Effect of Modified Graphene Addition on the Electrical Properties of Epoxy Resin Composite. 2011 , 239-242, 55-58	5
1164	Graphene oxide nanoplatelets of different crystallinity synthesized from helical-ribbon carbon nanofibers and multiwall carbon nanotubes. 2011 , 26, 2632-2641	13
1163	Electrochemical and ex-situ analysis on manganese oxide/graphene hybrid anode for lithium rechargeable batteries. 2011 , 26, 2665-2671	31
1162	Block Co-polymer on Graphene: Doping of Graphene and a Robust Chemical Sensor. 2011 , 1362, 1	
1161	Improved Rate Capability in a High-Capacity Layered Cathode Material via Thermal Reduction. 2011 , 14, A126	63

- 1160 On the Way to Graphene: The Bottom-Up Approach to Very Large PAHs Using the Scholl Reaction. **2011**, 19, 713-725 30
- 1159 Synthesis, Properties, and Applications of Low-Dimensional Carbon-Related Nanomaterials. **2011**, 2011, 1-21 73
- 1158 Preparation and Li-storage properties of SnSb/graphene hybrid nanostructure by a facile one-step solvothermal route. **2011**, 1-11 4
- 1157 Electromechanical Properties of P(VDF-TrFE)/CNT and P(VDF-TrFE)/Gr Composites. **2012**, 566, 141-146
- 1156 Synthesis of Fe₂O₄-Graphene Composites and their Application in Removal Dyes. **2012**, 463-464, 533-537 1
- 1155 Universal magnetic properties of sp³-type defects in covalently functionalized graphene. **2012**, 14, 043022 76
- 1154 Dynamics Induced by Femtosecond Laser and Photovoltaic Phenomena Studied by Using Time-Dependent First Principles Method. **2012**, 1455, 1
- 1153 A FACILE ONE-STEP HYDROTHERMAL METHOD TO PRODUCE GRAPHENE OXIDE/Fe₂O₃-NANOTUBES COMPOSITES AND ITS ELECTROCHEMICAL PROPERTIES. **2012**, 07, 1250032 3
- 1152 Physicochemical characterization, and relaxometry studies of micro-graphite oxide, graphene nanoplatelets, and nanoribbons. **2012**, 7, e38185 55
- 1151 Encyclopedia of Nanotechnology. **2012**, 2459-2459
- 1150 SATELLITE-MOUNTED LIGHT SOURCES AS PHOTOMETRIC CALIBRATION STANDARDS FOR GROUND-BASED TELESCOPES. **2012**, 143, 8 6
- 1149 Graphene Oxide: Theoretical Perspectives. **2012**, 69-84 6
- 1148 Rate of belowground carbon allocation differs with successional habit of two afro-montane trees. **2012**, 7, e45540 10
- 1147 A Nonzero Gap Two-dimensional Carbon Allotrope from Porous Graphene. **2012**, 1407, 199 1
- 1146 Selective Formation of Graphene on a Si Wafer. **2012**, 1407, 141 2
- 1145 Reduced graphene oxide based flexible organic charge trap memory devices. **2012**, 101, 233308 44
- 1144 Anomalous transport properties of graphene oxide magnetic ferrite nanocomposites. **2012**, 1 1
- 1143 Preparation of Sandwich-Like TiO₂/Graphene/TiO₂ Films and its Application in Photocatalysis. **2012**, 465, 80-85

1142	Novel surface chemical synthesis route for large area graphene-on-insulator films. 2012 , 30, 030605	9
1141	Graphene-filled hollow optical fiber saturable absorber for efficient soliton fiber laser mode-locking. 2012 , 20, 5652-7	69
1140	Recent progress on the synthesis and applications of carbon based nanostructures. 2012 , 6, 99-104	8
1139	Direct laser-enabled graphene oxideReduced graphene oxide layered structures with micropatterning. 2012 , 112, 064309	36
1138	Effects of carbon nanofillers on enhancement of polymer composites. 2012 , 112, 074302	
1137	Effects of oxygen-functional groups on humidity sensor based graphene oxide thin films. 2012 ,	1
1136	Enhanced microwave absorption property of bowl-like Fe ₃ O ₄ hollow spheres/reduced graphene oxide composites. 2012 , 111, 07A522	175
1135	Charging of nanostructured and partially reduced graphene oxide sheets. 2012 , 101, 183109	15
1134	Recoverable electrical transition in a single graphene sheet for application in nonvolatile memories. 2012 , 100, 042105	19
1133	Graphene Oxide and its Applications in Catalysis. 2012 , 476-478, 1488-1495	3
1132	In situ near-edge x-ray absorption fine structure spectroscopy investigation of the thermal defunctionalization of graphene oxide. 2012 , 30, 061206	24
1131	SELF-ASSEMBLY FABRICATION OF GRAPHENE-BASED MATERIALS WITH OPTICAL/ELECTRONIC, TRANSIENT OPTICAL AND ELECTROCHEMICAL PROPERTIES. 2012 , 11, 1240032	3
1130	Adsorptive Removal of Cationic Dyes from Aqueous Solutions Using Graphite Oxide. 2012 , 30, 437-447	25
1129	Preparation of highly oxidized nitrogen-doped carbon nanotubes. 2012 , 23, 155601	20
1128	Graphene based composites as a counter electrode for dye-sensitized solar cells. 2012 ,	
1127	X-ray diffraction characterization of polymer intercalated graphite oxide. 2012 , 27, 104-107	64
1126	In Situ Polymerization Approach to Poly(E-caprolactone)-Graphene Oxide Composites. 2012 , 15, 303-310	25
1125	Synthesis and Characterization of Exfoliated Graphite/ABS Composites. 2012 , 02, 75-79	10

1124	A Green and Mild Approach of Synthesis of Highly-Conductive Graphene Film by Zn Reduction of Exfoliated Graphite Oxide. 2012 , 25, 494-500	11
1123	Experimental Review of Graphene. 2012 , 2012, 1-56	303
1122	Colorful Polymer Compositions with Dyed Graphene Oxide Nanosheets. 2012 , 2012, 1-5	9
1121	Graphene: A Rising Star on the Horizon of Materials Science. 2012 , 2012, 1-12	96
1120	Ultrahigh-Speed Synthesis of Nanographene Using Alcohol In-Liquid Plasma. 2012 , 5, 035101	41
1119	Electrospun Nylon-Graphene Nanocomposites Synthesis and Microstructure. 2012 , 1453, 7	4
1118	Synthesis and Characterization of Nanowire-Graphene Aerogel for Energy Storage Devices. 2012 ,	
1117	Green Photocatalytic Synthesis of Au Nanoparticles/Multi-walled Carbon Nanotubes Nanocomposites and their Application for Glucose Sensing. 2012 , 8, 930-933	
1116	Synthesis and Characterization of PVDF-Based SWNT/GO Hybrid Films. 2012 ,	
1115	Controllable formation of graphene and graphene oxide sheets using photo-catalytic reduction and oxygen plasma treatment. 2012 , 60, 30401	8
1114	Graphene and Other Monolayer Structures. 2012 , 271-288	
1113	- Epoxy Nanocomposites: Graphene a Promising Filler. 2012 , 338-375	
1112	- Diffusion through Polymers Containing Platelike Nanomaterials. 2012 , 490-517	
1111	Thiourea Dioxide as a Green Reductant for the Mass Production of Solution-Based Graphene. 2012 , 85, 1339-1344	18
1110	Different Characterization Techniques to Evaluate Graphene and Its Properties. 2012 , 118-161	
1109	Perspectives on supercapacitors, pseudocapacitors and batteries. 2012 , 1, 136-158	35
1108	Shape-Controlled Synthesis of Platinum Nanostructures as Electrocatalyst for PEM Fuel Cell Applications. 2012 , 415-492	
1107	Interfacial rheology and structure of tiled graphene oxide sheets. 2012 , 28, 7990-8000	86

1106	Nitrogen-doped graphene-rich catalysts derived from heteroatom polymers for oxygen reduction in nonaqueous lithium-O ₂ battery cathodes. 2012 , 6, 9764-76	443
1105	Recent developments on graphene and graphene oxide based solid state gas sensors. 2012 , 173, 1-21	518
1104	A rapid room temperature chemical route for the synthesis of graphene: metal-mediated reduction of graphene oxide. 2012 , 48, 1787-9	144
1103	Antibacterial Efficiency of Graphene Nanosheets against Pathogenic Bacteria via Lipid Peroxidation. 2012 , 116, 17280-17287	315
1102	The application of graphene based materials for actuators. 2012 , 22, 3671	120
1101	Improved electron field emission from morphologically disordered monolayer graphene. 2012 , 100, 043104	41
1100	Switchable Dual-Wavelength Synchronously Q-Switched Erbium-Doped Fiber Laser Based on Graphene Saturable Absorber. 2012 , 4, 869-876	165
1099	Green synthesis of biphasic TiO ₂ -reduced graphene oxide nanocomposites with highly enhanced photocatalytic activity. 2012 , 4, 3893-901	457
1098	Self-assembly of two-dimensional nanosheets induced by interfacial polyionic complexation. 2012 , 6, 10606-13	37
1097	A review on hybridization modification of graphene and its polymer nanocomposites. 2012 , 57, 3010-3021	42
1096	Electrochemical reduction of graphene oxide films: Preparation, characterization and their electrochemical properties. 2012 , 57, 3045-3050	77
1095	Synthesis and antifungal activity of reduced graphene oxide nanosheets. <i>Carbon</i> , 2012 , 50, 5156-5161	10.4 139
1094	Anatase TiO ₂ nanoparticle-graphene nanocomposites: One-step preparation and their enhanced direct electrochemistry of hemoglobin. 2012 , 4, 619	10
1093	Enhanced electrocatalytic performance of Pt-based nanoparticles on reduced graphene oxide for methanol oxidation. 2012 , 682, 95-100	36
1092	Nanodiamonds as photocatalysts for reduction of water and graphene oxide. 2012 , 48, 696-8	44
1091	Sites for High Efficient Photocatalytic Hydrogen Evolution on a Limited-Layered MoS ₂ Cocatalyst Confined on Graphene Sheets—the Role of Graphene. 2012 , 116, 25415-25424	308
1090	Solution-Processed Graphite Membrane from Reassembled Graphene Oxide. 2012 , 24, 594-599	77
1089	Graphene oxide as a monoatomic blocking layer. 2012 , 6, 8022-9	16

1088	Synthesis of a MnO ₂ /graphene foam hybrid with controlled MnO ₂ particle shape and its use as a supercapacitor electrode. <i>Carbon</i> , 2012 , 50, 4865-4870	10.4	184
1087	High electrochemical performance of carbon black-bonded carbon nanotubes for electrode materials. 2012 , 47, 4146-4150		6
1086	Methods of graphite exfoliation. 2012 , 22, 24992		389
1085	Design of Nanostructured Hybrid Materials Based on Carbon and Metal Oxides for Li Ion Batteries. 2012 , 116, 26685-26693		73
1084	Ultraviolet-visible spectroscopy of graphene oxides. 2012 , 2, 032146		196
1083	Functionalized graphene for high performance lithium ion capacitors. 2012 , 5, 2328-33		107
1082	Adsorption behavior of EDTA-graphene oxide for Pb (II) removal. 2012 , 4, 1186-93		606
1081	Combined electrophoretic deposition/oxidation method to fabricate reduced graphene oxide/TiO ₂ nanotube films. 2012 , 2, 8164		52
1080	Amino-grafted graphene as a stable and metal-free solid basic catalyst. 2012 , 22, 7456		78
1079	PtCo alloy nanoparticles supported on graphene nanosheets with high performance for methanol oxidation. 2012 , 57, 3071-3079		41
1078	Highly sensitive amperometric sensor for carbamazepine determination based on electrochemically reduced graphene oxide/single-walled carbon nanotube composite film. 2012 , 173, 274-280		67
1077	Engineering graphene/carbon nanotube hybrid for direct electron transfer of glucose oxidase and glucose biosensor. 2012 , 42, 875-881		35
1076	CdS/graphene nanocomposite: synthesis, adsorption kinetics and high photocatalytic performance under visible light irradiation. 2012 , 36, 1781		71
1075	Graphenes in chemical sensors and biosensors. 2012 , 39, 87-113		170
1074	Flexible free-standing graphene/SnO ₂ nanocomposites paper for Li-ion battery. 2012 , 4, 5742-8		133
1073	Chapter 1:Graphene Functionalization: A Review. 2012 , 1-52		3
1072	Chapter 3:Electrically Conductive Polymer/graphene Composites Prepared Using Latex Technology. 2012 , 66-85		2
1071	Chapter 7:pH-Sensitive Graphene/Polymer Nanocomposites. 2012 , 162-178		

1070	Encyclopedia of Nanotechnology. 2012 , 2429-2429	
1069	Supercapacitor electrodes with especially high rate capability and cyclability based on a novel Pt nanosphere and cysteine-generated graphene. 2012 , 14, 10899-903	18
1068	Wet chemical method for making graphene-like films from carbon black. 2012 , 4, 4491-8	33
1067	Graphene as transparent conducting electrodes in organic photovoltaics: studies in graphene morphology, hole transporting layers, and counter electrodes. 2012 , 12, 133-40	269
1066	Graphene oxide modified TiO ₂ nanotube arrays: enhanced visible light photoelectrochemical properties. 2012 , 4, 1800-4	175
1065	Producing Photoluminescent Species from Sp ² Carbons. 2012 , 20, 502-509	7
1064	Solution phase synthesis of carbon quantum dots as sensitizers for nanocrystalline TiO ₂ solar cells. 2012 , 22, 1265-1269	236
1063	Glucose sensor based on an electrochemical reduced graphene oxide-poly(L-lysine) composite film modified GC electrode. 2012 , 137, 5716-9	42
1062	Reduced graphene oxide/nickel nanocomposites: facile synthesis, magnetic and catalytic properties. 2012 , 22, 3471	237
1061	Synthesis of graphene-based nanomaterials and their application in energy-related and environmental-related areas. 2012 , 2, 9286	203
1060	Functionalization and reduction of graphene oxide with p-phenylene diamine for electrically conductive and thermally stable polystyrene composites. 2012 , 4, 1948-53	169
1059	A facile chemical method to produce superparamagnetic graphene oxide/Fe ₃ O ₄ hybrid composite and its application in the removal of dyes from aqueous solution. 2012 , 22, 1033-1039	308
1058	Synthesis of acid-soluble graphene and its use in producing a reduced graphene oxide/poly(benzobisoxazole) composite. 2012 , 22, 12381	19
1057	Graphene Sheets from Graphitized Anthracite Coal: Preparation, Decoration, and Application. 2012 , 26, 5186-5192	104
1056	Photocatalytic synthesis of highly dispersed Pd nanoparticles on reduced graphene oxide and their application in methanol electro-oxidation. 2012 , 2, 1153	71
1055	Simultaneous reduction and surface functionalization of graphene oxide with POSS for reducing fire hazards in epoxy composites. 2012 , 22, 22037	200
1054	Improve the Supercapacity Performance of MnO ₂ -Decorated Graphene by Controlling the Oxidization Extent of Graphene. 2012 , 116, 25226-25232	87
1053	Solution-processable graphene linked to 3,5-dinitrobenzoyl as an electron acceptor in organic bulk heterojunction photovoltaic devices. <i>Carbon</i> , 2012 , 50, 5554-5561	10.4 29

1052	Novel Graphene UHMWPE Nanocomposites Prepared by Polymerization Filling Using Single-Site Catalysts Supported on Functionalized Graphene Nanosheet Dispersions. 2012 , 45, 6878-6887	77
1051	Molecular Dynamics Simulation of Chemical Vapor Deposition Graphene Growth on Ni (111) Surface. 2012 , 116, 6097-6102	93
1050	Laser assisted green synthesis of free standing reduced graphene oxides at the water-air interface. 2012 , 23, 505601	28
1049	Synthesis of Ni/graphene sheets by an electroless Ni-plating method. 2012 , 27, 35-41	27
1048	Tuning the mechanical properties of graphene oxide paper and its associated polymer nanocomposites by controlling cooperative intersheet hydrogen bonding. 2012 , 6, 2008-19	361
1047	Three-dimensional assemblies of graphene prepared by a novel chemical reduction-induced self-assembly method. 2012 , 4, 7038-45	152
1046	One-step synthesis of metal nanoparticle decorated graphene by liquid phase exfoliation. 2012 , 22, 20342	47
1045	Electronic structure of graphene oxide and reduced graphene oxide monolayers. 2012 , 101, 103103	50
1044	Water-soluble graphene grafted by poly(sodium 4-styrenesulfonate) for enhancement of electric capacitance. 2012 , 23, 475704	39
1043	Silica-graphene oxide hybrid composite particles and their electroresponsive characteristics. 2012 , 28, 7055-62	132
1042	High-rate capacitive performance of graphene aerogel with a superhigh C/O molar ratio. 2012 , 22, 23186	125
1041	Sulfur and Nitrogen Dual-Doped Mesoporous Graphene Electrocatalyst for Oxygen Reduction with Synergistically Enhanced Performance. 2012 , 124, 11664-11668	234
1040	Sulfur and nitrogen dual-doped mesoporous graphene electrocatalyst for oxygen reduction with synergistically enhanced performance. 2012 , 51, 11496-500	1726
1039	Photochemical evidence of electronic interwall communication in double-wall carbon nanotubes. 2012 , 18, 16922-30	8
1038	Hemin-functionalized reduced graphene oxide nanosheets reveal peroxynitrite reduction and isomerization activity. 2012 , 18, 15122-32	28
1037	Characterization and electrical properties of honeycomb-patterned poly(ϵ -caprolactone)/reduced graphene oxide composite film. 2012 , 33, 2159-2168	12
1036	Large-scale preparation of graphene sheets and their easy incorporation with other nanomaterials. 2012 , 69, 899-910	5
1035	Preparation of electrochemically reduced graphene oxide-modified electrode and its application for determination of p-aminophenol. 2012 , 16, 2883-2889	29

1034	Graphene for Cleanup in Trace Analysis of Pyrethroid Insecticides in Cucumber and Spinach. 2012 , 75, 1177-1183	17
1033	Performance of graphite nanoplatelet/silicone composites as thermal interface adhesives. 2012 , 23, 1855-1863	15
1032	Novel carbon materials for thermal energy harvesting. 2012 , 109, 1229-1235	40
1031	A mixed-solvent strategy for facile and green preparation of graphene by liquid-phase exfoliation of graphite. 2012 , 14, 1	104
1030	Uranium(VI) adsorption on graphene oxide nanosheets from aqueous solutions. 2012 , 210, 539-546	343
1029	Enhanced solvothermal reduction of graphene oxide in a mixed solution of sulfuric acid and organic solvent. 2012 , 211-212, 97-103	36
1028	Removal of antimony(III) from aqueous solution by graphene as an adsorbent. 2012 , 211-212, 406-411	129
1027	Synthesis and characterization of poly(ethylene glycol amine) electrolytes and nanocomposites based on graphite. 2012 , 48, 1525-1537	6
1026	Experimental study on synthesis and microstructure of poly (p-phenylenediamine)/graphene oxide/Au and its performance in supercapacitor. 2012 , 543, 200-205	15
1025	Supercritical fluid conversion of graphene oxides. 2012 , 61, 206-211	38
1024	Field-responsive smart composite particle suspension: materials and rheology. 2012 , 24, 147-153	4
1023	High-performance nanopapers based on benzenesulfonic functionalized graphenes. 2012 , 6, 10178-85	63
1022	Immobilization of Co-Al layered double hydroxides on graphene oxide nanosheets: growth mechanism and supercapacitor studies. 2012 , 4, 2242-9	171
1021	Graphene quantum resistive sensing skin for the detection of alteration biomarkers. 2012 , 22, 21754	109
1020	Synthesis of Porous NiO/Reduced Graphene Oxide Composites for Supercapacitors. 2012 , 159, A990-A994	30
1019	Low-temperature plasma-assisted preparation of graphene supported palladium nanoparticles with high hydrodesulfurization activity. 2012 , 22, 14363	56
1018	3D-hierarchical NiO/graphene nanosheet composites as anodes for lithium ion batteries with improved reversible capacity and cycle stability. 2012 , 2, 3410	72
1017	Zinc (hydr)oxide/graphite based-phase composites: effect of the carbonaceous phase on surface properties and enhancement in electrical conductivity. 2012 , 22, 7970	45

1016	Highly dispersive {001} facets-exposed nanocrystalline TiO ₂ on high quality graphene as a high performance photocatalyst. 2012 , 22, 7484	134
1015	High-dielectric-constant graphite oxide-polyimide composites as embedded dielectrics. 2012 ,	
1014	Graphene-based electrochromic systems: the case of Prussian Blue nanoparticles on transparent graphene film. 2012 , 48, 3884-6	40
1013	Graphene oxide/titania hybrid films with dual-UV-responsive surfaces of tunable wettability. 2012 , 2, 10829	14
1012	Facile synthesis of novel hierarchical graphene-Bi ₂ O ₂ CO ₃ composites with enhanced photocatalytic performance under visible light. 2012 , 41, 14345-53	159
1011	Tetrachloroperylene diimide functionalized reduced graphene oxide sheets and their I _V behavior by current sensing atomic force microscopy. 2012 , 22, 18839	10
1010	Effective solvothermal deoxidization of graphene oxide using solid sulphur as a reducing agent. 2012 , 22, 14385	36
1009	Strong reduced graphene oxide-polymer composites: hydrogels and wires. 2012 , 2, 6988	87
1008	Comment on One-step and high yield simultaneous preparation of single- and multi-layer graphene quantum dots from CX-72 carbon black. 2012 , 22, 21776	6
1007	Biomimetic graphene-Pt nanohybrids with high solubility, ferromagnetism, fluorescence, and enhanced electrocatalytic activity. 2012 , 22, 17190	61
1006	Ionic liquid-assisted microwave reduction of graphite oxide for supercapacitors. 2012 , 2, 8808	30
1005	Columnar assembly and successive heating of colloidal 2D nanomaterials on graphene as an efficient strategy for new anode materials in lithium ion batteries: the case of In ₂ S ₃ nanoplates. 2012 , 22, 11107	29
1004	Synthesis of porous Ni@rGO nanocomposite and its synergetic effect on hydrogen sorption properties of MgH ₂ . 2012 , 22, 22542	79
1003	Self-assembly of natural tripeptide glutathione triggered by graphene oxide. 2012 , 8, 9855	23
1002	Pyrolysis-assisted graphene exfoliation from graphite particles deposited on photoresist pillars. 2012 ,	
1001	A gel-sol transition phenomenon of oxidation multi-walled carbon nanotubes-glycerol nanofluids induced by polyvinyl alcohol. 2012 , 36, 1273	7
1000	Self-healing electrodes for dielectric elastomer actuators. 2012 , 22, 20736	43
999	Covalent binding of Si nanoparticles to graphene sheets and its influence on lithium storage properties of Si negative electrode. 2012 , 22, 3420	87

998	Soft functionalization of graphene for enhanced tri-iodide reduction in dye sensitized solar cells. 2012 , 22, 8377	30
997	Electrochemiluminescent detection of mucin 1 protein and MCF-7 cancer cells based on the resonance energy transfer. 2012 , 137, 2101-6	87
996	Reduced graphene oxides by microwave-assisted ionothermal treatment. 2012 , 36, 1684	13
995	Self-assembly of a ZnFe ₂ O ₄ /graphene hybrid and its application as a high-performance anode material for Li-ion batteries. 2012 , 36, 2236	58
994	3D porous and redox-active prussian blue-in-graphene aerogels for highly efficient electrochemical detection of H ₂ O ₂ . 2012 , 22, 22090	128
993	Deposition of amino-functionalized polyhedral oligomeric silsesquioxanes on graphene oxide sheets immobilized onto an amino-silane modified silicon surface. 2012 , 22, 6213	71
992	Reduced graphene oxide cold cathodes: Preparation, actively-controlled field emission properties and the related physical mechanism. 2012 ,	
991	Simultaneous reduction, exfoliation and functionalization of graphite oxide into a graphene-platinum nanoparticle hybrid for methanol oxidation. 2012 , 22, 6953	52
990	Strain-induced delamination of edge-grafted graphite. 2012 , 48, 11109-11	4
989	Green and easy synthesis of biocompatible graphene for use as an anticoagulant. 2012 , 2, 2322	66
988	Tailored anisotropic magnetic conductive film assembled from graphene-encapsulated multifunctional magnetic composite microspheres. 2012 , 22, 545-550	41
987	CeSurfactant lamellar assemblies with strong UV/visible emission and controlled nanostructures. 2012 , 22, 20358	5
986	Oxygen-enriched carbon material for catalyzing oxygen reduction towards hybrid electrolyte Li-air battery. 2012 , 22, 21051	52
985	Spontaneous reduction and dispersion of graphene nano-platelets with in situ synthesized hydrazine assisted by hexamethyldisilazane. 2012 , 22, 20477	8
984	Self-assembly of reduced graphene oxide at liquid-air interface for organic field-effect transistors. 2012 , 22, 6171	11
983	Magnetite modified graphene nanosheets with improved rate performance and cyclic stability for Li ion battery anodes. 2012 , 2, 4397	18
982	Facile synthesis of highly conductive PPy/graphene nanosheet /Gd ³⁺ composites. 2012 , 24, 105-111	7
981	Multilayer Graphene as Charge Storage Layer in Floating Gate Flash Memory. 2012 ,	8

980	Ni/C Hierarchical Nanostructures with Ni Nanoparticles Highly Dispersed in N-Containing Carbon Nanosheets: Origin of Li Storage Capacity. 2012 , 116, 23974-23980	180
979	Colloid thermodynamic effect as the universal driving force for fabricating various functional composite particles. 2012 , 28, 12704-10	21
978	Photocatalytic studies of CdS nanoparticles assembled on carbon microsphere surfaces with different interface structures: from amorphous to graphite-like carbon. 2012 , 14, 4507	18
977	Electrical conductivity of copper-graphene composite films synthesized by electrochemical deposition with exfoliated graphene platelets. 2012 , 30, 03D109	49
976	Supramolecular graphene oxide-alkylamine hybrid materials: variation of dispersibility and improvement of thermal stability. 2012 , 36, 1733	39
975	Atomic Layer Deposition of TiO ₂ on Graphene for Supercapacitors. 2012 , 159, A364-A369	167
974	A simple and feasible in-situ reduction route for preparation of graphene lubricant films applied to a variety of substrates. 2012 , 22, 8036	57
973	Graphene oxide mode-locked femtosecond erbium-doped fiber lasers. 2012 , 20, 15474-80	159
972	Charge-Driven Selective Adsorption of Sodium Dodecyl Sulfate on Graphene Oxide Visualized by Atomic Force Microscopy. 2012 , 116, 20080-20085	21
971	Microlitre scale solution processing for controlled, rapid fabrication of chemically derived graphene thin films. 2012 , 22, 3606	46
970	Covalently functionalized reduced graphene oxide by organically modified silica: a facile synthesis of electrically conducting black coatings on glass. 2012 , 22, 24690	32
969	Reconstructed Ribbon Edges in Thermally Reduced Graphene Nanoribbons. 2012 , 116, 24006-24015	16
968	Probing Porosity and Pore Interconnectivity in Self-Assembled TiO ₂ /Graphene Hybrid Nanostructures Using Hyperpolarized ¹²⁹ Xe NMR. 2012 , 116, 22-29	19
967	Large area extreme-UV lithography of graphene oxide via spatially resolved photoreduction. 2012 , 28, 5489-95	40
966	Reduced Graphene Oxide Films as Solid Transducers in Potentiometric All-Solid-State Ion-Selective Electrodes. 2012 , 116, 22570-22578	85
965	Plasma-Assisted Reduction of Graphene Oxide at Low Temperature and Atmospheric Pressure for Flexible Conductor Applications. 2012 , 3, 772-7	109
964	Competitive Growth and Etching of Epitaxial Graphene. 2012 , 116, 26929-26931	18
963	Graphene for energy harvesting/storage devices and printed electronics. 2012 , 10, 1-8	98

962	Raman characterization of bulk ferromagnetic nanostructured graphite. 2012 , 407, 3206-3209	7
961	Monitoring influence of chemical preparation procedure on the structure of graphene nanosheets. 2012 , 44, 1420-1424	32
960	Thermal stability of polycarbonate-graphene nanocomposite foams. 2012 , 97, 1297-1304	90
959	Facile synthesis and morphology control of graphene oxide/polyaniline nanocomposites via in-situ polymerization process. 2012 , 53, 2574-2582	80
958	Ultralow percolation graphene/polyurethane acrylate nanocomposites. 2012 , 53, 3756-3761	67
957	Determination of metronidazole in pharmaceutical dosage forms based on reduction at graphene and ionic liquid composite film modified electrode. 2012 , 169, 81-87	79
956	Fabrication and characterization of graphene-reinforced waterborne polyurethane nanocomposite coatings by the sol-gel method. 2012 , 206, 4778-4784	115
955	Adsorption and desorption characteristics of 3-dimensional networks of fused graphene. 2012 , 606, 34-39	14
954	Sonochemical assisted synthesis of a novel TiO ₂ /graphene composite for solar energy conversion. 2012 , 162, 827-833	31
953	One-step synthesis of graphene/polyallylamine-Au nanocomposites and their electrocatalysis toward oxygen reduction. 2012 , 89, 391-5	31
952	Simultaneous electrochemical determination of uric acid, xanthine and hypoxanthine based on poly(L-arginine)/graphene composite film modified electrode. 2012 , 93, 320-5	93
951	Effects of ambient conditions on the quality of graphene synthesized by chemical vapor deposition. 2012 , 86, 1867-1870	18
950	Enhanced ultraviolet response using graphene electrodes in organic solar cells. 2012 , 101, 063305	7
949	Graphene oxide: preparation, functionalization, and electrochemical applications. 2012 , 112, 6027-53	2515
948	Reduction and functionalization of graphene oxide sheets using biomimetic dopamine derivatives in one step. 2012 , 4, 1016-20	167
947	Continuous mechanical exfoliation of graphene sheets via three-roll mill. 2012 , 22, 19625	99
946	Preparation of transparent, conductive films by graphene nanosheet deposition on hydrophilic or hydrophobic surfaces through control of the pH value. 2012 , 22, 2545-2552	37
945	Graphene-based materials for catalysis. 2012 , 2, 54-75	791

944	Versatile Grafting Approaches to Functionalizing Individually Dispersed Graphene Nanosheets Using RAFT Polymerization and Click Chemistry. 2012 , 24, 2987-2997	124
943	Gelatin-assisted fabrication of water-dispersible graphene and its inorganic analogues. 2012 , 22, 17619	81
942	Stabilization of high-performance oxygen reduction reaction Pt electrocatalyst supported on reduced graphene oxide/carbon black composite. 2012 , 134, 12326-9	400
941	Chemically homogeneous and thermally reversible oxidation of epitaxial graphene. 2012 , 4, 305-9	260
940	Solutions of fully exfoliated individual graphene flakes in low boiling point solvents. 2012 , 8, 7882	42
939	Liquid Crystallinity and Dimensions of Surfactant-Stabilized Sheets of Reduced Graphene Oxide. 2012 , 3, 2425-30	58
938	Copper Ferrite-Graphene Hybrid: A Multifunctional Heteroarchitecture for Photocatalysis and Energy Storage. 2012 , 51, 11700-11709	166
937	Edge-carboxylated graphene nanosheets via ball milling. 2012 , 109, 5588-93	496
936	Chemical structures of hydrazine-treated graphene oxide and generation of aromatic nitrogen doping. 2012 , 3, 638	302
935	Hybrid multilayer thin film supercapacitor of graphene nanosheets with polyaniline: importance of establishing intimate electronic contact through nanoscale blending. 2012 , 22, 21092	154
934	How graphene is exfoliated from graphitic materials: synergistic effect of oxidation and intercalation processes in open, semi-closed, and closed carbon systems. 2012 , 22, 22150	40
933	Dispersion of alkylated graphene in organic solvents and its potential for lubrication applications. 2012 , 22, 21032	193
932	Oxidation resistance of iron and copper foils coated with reduced graphene oxide multilayers. 2012 , 6, 7763-9	146
931	Organic bulk heterojunction photovoltaic devices based on polythiophene-graphene composites. 2012 , 4, 4864-70	48
930	Low-temperature aluminum reduction of graphene oxide, electrical properties, surface wettability, and energy storage applications. 2012 , 6, 9068-78	81
929	Engineering graphene mechanical systems. 2012 , 12, 4212-8	58
928	Functionalized graphene oxide for fire safety applications of polymers: a combination of condensed phase flame retardant strategies. 2012 , 22, 23057	128
927	A facile route to the synthesis copper oxide/reduced graphene oxide nanocomposites and electrochemical detection of catechol organic pollutant. 2012 , 14, 6710	161

926	Reconstruction of the carbon sp ² network in graphene oxide by low-temperature reaction with CO. 2012 , 22, 51-56	24
925	All graphene-based thin film transistors on flexible plastic substrates. 2012 , 12, 3472-6	198
924	Oxidized graphene in ionic liquids for assembling chemically modified electrodes: a structural and electrochemical characterization study. 2012 , 84, 5823-31	36
923	Solvothermal synthesis of CoS ₂ /graphene nanocomposite material for high-performance supercapacitors. 2012 , 22, 15750	180
922	Tailored graphene materials by chemical reduction of graphene oxides of different atomic structure. 2012 , 2, 9643	46
921	Electrochemical reduction of graphene oxide and its in situ spectroelectrochemical characterization. 2012 , 14, 14003-9	76
920	Hybridization of graphene sheets and carbon-coated Fe ₃ O ₄ nanoparticles as a synergistic adsorbent of organic dyes. 2012 , 22, 25108	195
919	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. 2012 , 125, 425-431	149
918	Layer-by-layer assembly and tribological property of multilayer ultrathin films constructed by modified graphene sheets and polyethyleneimine. 2012 , 258, 2231-2236	43
917	Conductive-probe AFM characterization of graphene sheets bonded to gold surfaces. 2012 , 258, 2920-2926	28
916	Graphene oxide with improved electrical conductivity for supercapacitor electrodes. 2012 , 258, 3726-3731	90
915	A facile and efficient approach to decoration of graphene nanosheets with gold nanoparticles. 2012 , 258, 5348-5353	39
914	Reduced graphene oxide paper by supercritical ethanol treatment and its electrochemical properties. 2012 , 258, 5299-5303	44
913	Hydrothermal preparation of ZnO-reduced graphene oxide hybrid with high performance in photocatalytic degradation. 2012 , 258, 6204-6211	227
912	Synthesis and photocatalytic activity of graphene/BiOBr composites under visible light. 2012 , 258, 7826-7832	62
911	Piezoelectric β-polymorph formation and properties enhancement in graphene oxide/PVDF nanocomposite films. 2012 , 258, 7668-7677	293
910	Fabrication of oxide-free graphene suspension and transparent thin films using amide solvent and thermal treatment. 2012 , 258, 8837-8844	24
909	Electrocatalytic oxidation of kojic acid at a reduced graphene sheet modified glassy carbon electrode. 2012 , 664, 111-116	22

908	Electrochemical sensor for epinephrine based on a glassy carbon electrode modified with graphene/gold nanocomposites. 2012 , 669, 35-41	124
907	Glass carbon electrode modified with horseradish peroxidase immobilized on partially reduced graphene oxide for detecting phenolic compounds. 2012 , 681, 49-55	55
906	Synthesis of Fe nanoparticles@graphene composites for environmental applications. 2012 , 225-226, 63-73	188
905	ZnS@Graphene nanocomposite: Synthesis, characterization and optical properties. 2012 , 191, 51-56	95
904	Clean and effective catalytic reduction of graphene oxide using atomic hydrogen spillover on Pt/Al ₂ O ₃ catalyst. 2012 , 86, 161-164	15
903	Graphene/metal oxide composite electrode materials for energy storage. 2012 , 1, 107-131	1507
902	Dye-cosensitized graphene/Pt photocatalyst for high efficient visible light hydrogen evolution. 2012 , 37, 10564-10574	114
901	Graphite oxide/TiO ₂ nanocomposite and its efficient visible-light-driven photocatalytic hydrogen production. 2012 , 516, 85-90	74
900	Reduced graphene oxide/CdS for efficiently photocatalytic degradation of methylene blue. 2012 , 524, 5-12	123
899	Synthesis, characterization and optical properties of graphene sheets-ZnO multipod nanocomposites. 2012 , 526, 129-134	42
898	One-pot photochemical synthesis of ultrathin Au nanocrystals on co-reduced graphene oxide and its application. 2012 , 383, 140-7	24
897	Facile preparation of graphene-based chitosan films: Enhanced thermal, mechanical and antibacterial properties. 2012 , 358, 525-530	114
896	Alkaline deoxygenated graphene oxide for supercapacitor applications: An effective green alternative for chemically reduced graphene. 2012 , 215, 1-10	110
895	Study of a graphene-like anode material in N-methyl-N-propylpyrrolidinium bis(trifluoromethanesulfonyl)imide ionic liquid for Li-ion batteries. 2012 , 216, 5-10	6
894	Enhanced nanoscale conduction capability of a MoO ₂ /Graphene composite for high performance anodes in lithium ion batteries. 2012 , 216, 169-178	97
893	MnO/reduced graphene oxide sheet hybrid as an anode for Li-ion batteries with enhanced lithium storage performance. 2012 , 216, 201-207	177
892	Preparation and properties of polyimide/graphene oxide nanocomposite films with Mg ion crosslinker. 2012 , 48, 1394-1405	61
891	Analysis of nonlinear forced vibration of multi-layered graphene sheets. 2012 , 61, 194-199	38

- 890 Preparation, mechanical and thermal properties of functionalized graphene/polyimide nanocomposites. **2012**, 43, 1537-1545 143
- 889 The mechanics of graphene nanocomposites: A review. **2012**, 72, 1459-1476 893
- 888 Chemical and thermal reduction of graphene oxide and its electrically conductive polylactic acid nanocomposites. **2012**, 72, 1430-1435 107
- 887 Preparation of highly dispersed CuPt nanoparticles on ionic-liquid-assisted graphene sheets for direct methanol fuel cell. **2012**, 197, 80-87 60
- 886 Synthesis, characterization and adsorption properties of superparamagnetic polystyrene/Fe₃O₄/graphene oxide. **2012**, 204-206, 258-263 33
- 885 Hydrothermal synthesis of nanosized bismuth niobate and enhanced photocatalytic activity by coupling of graphene sheets. **2012**, 209, 215-222 33
- 884 Preparing conductive poly(lactic acid) (PLA) with poly(methyl methacrylate) (PMMA) functionalized graphene (PFG) by admicellar polymerization. **2012**, 209, 20-27 44
- 883 Improved electrocatalytic effect of carbon nanomaterials by covalently anchoring with CoTAPP via diazonium salt reactions. **2012**, 22, 141-144 40
- 882 Poly(vinyl alcohol)/graphene oxide nanocomposites prepared by a simple eco-process. **2012**, 44, 1056-1063 98
- 881 Synthesis, Characterization, and Biomedical Applications of Graphene. **2012**,
- 880 Localized deoxygenation and direct patterning of graphene oxide films by focused ion beams. **2012**, 28, 14815-21 27
- 879 Graphene prepared via a novel pyridine thermal strategy for capacitive deionization. **2012**, 22, 23745 132
- 878 Exfoliation of non-oxidized graphene flakes for scalable conductive film. **2012**, 12, 2871-6 145
- 877 A perspective on fabricating carbon-based nanomaterials by photocatalysis and their applications. **2012**, 5, 9307 112
- 876 One-pot green synthesis of Ag nanoparticles-graphene nanocomposites and their applications in SERS, H₂O₂, and glucose sensing. **2012**, 2, 538-545 250
- 875 Patterns of Solution-Processed Graphene Oxide Produced by a Transfer Printing Method. **2012**, 159, H605-H609 11
- 874 Dual role of glycine as a chemical functionalizer and a reducing agent in the preparation of graphene: an environmentally friendly method. **2012**, 22, 9696 191
- 873 High throughput modification of chemically reduced graphene oxides by a conjugated block copolymer in non-polar medium. **2012**, 22, 25183 22

872	Grafting of oxo-vanadium Schiff base on graphene nanosheets and its catalytic activity for the oxidation of alcohols. 2012 , 22, 5427	163
871	Graphene: an emerging electronic material. 2012 , 24, 5782-825	603
870	New routes to graphene, graphene oxide and their related applications. 2012 , 24, 4924-55	282
869	Synthese von Patchwork-Graphen aus Glucose. 2012 , 124, 9827-9830	40
868	Graphene and Graphene Oxide Can "Lubricate" Ionic Liquids based on Specific Surface Interactions Leading to Improved Low-Temperature Hypergolic Performance. 2012 , 124, 9922-9925	10
867	Synthesis of monolayer-patched graphene from glucose. 2012 , 51, 9689-92	332
866	Graphene and graphene oxide can "lubricate" ionic liquids based on specific surface interactions leading to improved low-temperature hypergolic performance. 2012 , 51, 9784-7	45
865	Dispersion of reduced graphene oxide in multiple solvents with an imidazolium-modified hexa-peri-hexabenzocoronene. 2012 , 7, 2683-9	5
864	Covalent modification of reduced graphene oxide by means of diazonium chemistry and use as a drug-delivery system. 2012 , 18, 14708-16	64
863	One-pot synthesis, characterization, and enhanced photocatalytic activity of a BiOBr-graphene composite. 2012 , 18, 14359-66	173
862	Poly(9,9'-diethylfluorene carbazole) functionalized with reduced graphene oxide: convenient synthesis using nitrogen-based nucleophiles and potential applications in optical limiting. 2012 , 18, 14384-91	26
861	Preparation of graphene by using an intense cavitation field in a pressurized ultrasonic reactor. 2012 , 18, 14047-54	37
860	Synthesis of highly n-type graphene by using an ionic liquid. 2012 , 18, 12207-12	37
859	Atomic dopants involved in the structural evolution of thermally graphitized graphene. 2012 , 18, 13466-72	20
858	Graphite oxides: effects of permanganate and chlorate oxidants on the oxygen composition. 2012 , 18, 13453-9	138
857	Functionalization of reduced graphite oxide sheets with a zwitterionic surfactant. 2012 , 13, 3682-90	32
856	Synthesis of a MnO ₂ Nanosheet/Graphene Flake Composite and Its Application as a Supercapacitor having High Rate Capability. 2012 , 77, 872-876	16
855	Synthesis and applications of graphene-based TiO ₂ photocatalysts. 2012 , 5, 1868-82	200

854	NanoBio Interaction between Graphite Oxide Nanoparticles and Human Blood Components. 2012 , 2012, 5343-5349	12
853	Fabrication of microcellular polymer/graphene nanocomposite foams. 2012 , 61, 1693-1702	23
852	Synthesis of stable aqueous dispersion of graphene/polyaniline composite mediated by polystyrene sulfonic acid. 2012 , 50, 4888-4894	52
851	Mildly reduced graphene oxide-Ag nanoparticle hybrid films for surface-enhanced Raman scattering. 2012 , 7, 205	17
850	Graphene-supported SnO ₂ nanoparticles prepared by a solvothermal approach for an enhanced electrochemical performance in lithium-ion batteries. 2012 , 7, 215	33
849	Understanding Aqueous Dispersibility of Graphene Oxide and Reduced Graphene Oxide through pKa Measurements. 2012 , 3, 867-72	578
848	LiFePO ₄ nanoparticles encapsulated in graphene-containing carbon nanofibers for use as energy storage materials. 2012 , 4, 013121	30
847	Facile preparation route for graphene oxide reinforced polyamide 6 composites via in situ anionic ring-opening polymerization. 2012 , 22, 24081	105
846	Pd-Partially Reduced Graphene Oxide Catalysts (Pd/PRGO): Laser Synthesis of Pd Nanoparticles Supported on PRGO Nanosheets for Carbon-Carbon Cross Coupling Reactions. 2012 , 2, 145-154	253
845	Highly efficient electrolytic exfoliation of graphite into graphene sheets based on Li ions intercalation-expansion-microexplosion mechanism. 2012 , 22, 10452	92
844	Graphene based catalysts. 2012 , 5, 8848	642
843	Synthesis of graphene-wrapped CuO hybrid materials by CO ₂ mineralization. 2012 , 14, 2391	47
842	Transparent, Conductive, and Flexible Multiwalled Carbon Nanotube/Graphene Hybrid Electrodes with Two Three-Dimensional Microstructures. 2012 , 116, 4970-4978	97
841	Solution-processed graphene materials and composites. 2012 , 37, 1167-1175	16
840	Poly(N-isopropylacrylamide) on two-dimensional graphene oxide surfaces. 2012 , 3, 621	40
839	Multiple-bilayered RGO-porphyrin films: from preparation to application in photoelectrochemical cells. 2012 , 22, 18879	40
838	Hydrogen bonding-driven rheological modulation of chemically reduced graphene oxide/poly(vinyl alcohol) suspensions and its application in electrospinning. 2012 , 4, 6997-7005	92
837	In situ intercalation replacement and selective functionalization of graphene nanoribbon stacks. 2012 , 6, 4231-40	94

836	Self-assembled electrical biodetector based on reduced graphene oxide. 2012 , 6, 5514-20	35
835	Green synthesis of Pt/CeO ₂ /graphene hybrid nanomaterials with remarkably enhanced electrocatalytic properties. 2012 , 48, 2885-7	114
834	A water-dielectric capacitor using hydrated graphene oxide film. 2012 , 22, 21085	66
833	Frozen polymerization for aligned porous structures with enhanced mechanical stability, conductivity, and as stationary phase for HPLC. 2012 , 22, 11615	60
832	Graphene and Its Synthesis. 2012 , 415-438	5
831	Synthesis, Characterization, and Selected Properties of Graphene. 2012 , 1-47	14
830	Heterogeneous Catalysis by Metal Nanoparticles Supported on Graphene. 2012 , 303-338	
829	Synthesis of Perylene-Containing Polyimides for Non-Covalent Functionalization of Graphene by Self-Assembly. 2012 , 534, 118-121	2
828	Chemical and microscopic analysis of graphene prepared by different reduction degrees of graphene oxide. 2012 , 536, S532-S537	64
827	Hydrogenated Graphene as Metal-free Catalyst for Fenton-like Reaction. 2012 , 25, 335-338	19
826	Charging of unfunctionalized graphene in organic solvents. 2012 , 4, 425-8	40
825	Graphene exfoliation in organic solvents and switching solubility in aqueous media with the aid of amphiphilic block copolymers. 2012 , 22, 21507	70
824	Low temperature plasma-mediated synthesis of graphene nanosheets for supercapacitor electrodes. 2012 , 22, 6061	51
823	Synthesis and properties of graphene oxide/graphene nanostructures. 2012 , 60, 1789-1793	15
822	Electrospray deposition of a graphene-oxide thin film, its characterization and investigation of its resistive switching performance. 2012 , 61, 470-475	23
821	One-step in situ synthesis of SnO ₂ /graphene nanocomposites and its application as an anode material for Li-ion batteries. 2012 , 4, 454-9	210
820	Functionalization of graphene: covalent and non-covalent approaches, derivatives and applications. 2012 , 112, 6156-214	3041
819	Graphene enriched with pyrrolic coordination of the doped nitrogen as an efficient metal-free electrocatalyst for oxygen reduction. 2012 , 22, 23506	143

818	Patterning and electronic tuning of laser scribed graphene for flexible all-carbon devices. 2012 , 6, 1395-403	291
817	In situ synthesized heteropoly acid/polyaniline/graphene nanocomposites to simultaneously boost both double layer- and pseudo-capacitance for supercapacitors. 2012 , 14, 12823-8	64
816	Understanding the pH-dependent behavior of graphene oxide aqueous solutions: a comparative experimental and molecular dynamics simulation study. 2012 , 28, 235-41	442
815	Encyclopedia of Nanotechnology. 2012 , 2437-2437	
814	A high throughput method for preparation of highly conductive functionalized graphene and conductive polymer nanocomposites. 2012 , 2, 2208	49
813	Tuning of the Band Structures of Zigzag Graphene Nanoribbons by an Electric Field and Adsorption of Pyridine and BF ₃ : A DFT Study. 2012 , 116, 20054-20061	10
812	Tailored graphene-encapsulated mesoporous Co ₃ O ₄ composite microspheres for high-performance lithium ion batteries. 2012 , 22, 17278	108
811	Aramid nanofiber-functionalized graphene nanosheets for polymer reinforcement. 2012 , 4, 7046-55	111
810	Effect of 1- Pyrene Carboxylic-Acid Functionalization of Graphene on Its Capacitive Energy Storage. 2012 , 116, 20688-20693	73
809	Faster response of NO ₂ sensing in graphene-WO ₃ nanocomposites. 2012 , 23, 205501	200
808	Preparation of graphene by pressurized oxidation and multiplex reduction and its polymer nanocomposites by masterbatch-based melt blending. 2012 , 22, 6088	342
807	Covalently linked, water-dispersible, cyclodextrin: reduced-graphene oxide sheets. 2012 , 28, 12432-7	82
806	Facile decoration of polypyrrole nanoparticles onto graphene nanosheets for supercapacitors. 2012 , 162, 2349-2354	24
805	Pristine graphite oxide. 2012 , 134, 2815-22	336
804	Screen printed, transparent, and flexible electrodes based on graphene nanoplatelet pastes. 2012 ,	3
803	Introduction. 2012 , 1-52	
802	Reduced Graphene Oxide-Induced Polyethylene Crystallization in Solution and Nanocomposites. 2012 , 45, 993-1000	141
801	Graphene/SnO ₂ /polypyrrole ternary nanocomposites as supercapacitor electrode materials. 2012 , 2, 10268	164

800	Oxidative stress-mediated antibacterial activity of graphene oxide and reduced graphene oxide in <i>Pseudomonas aeruginosa</i> . 2012 , 7, 5901-14	499
799	Graphene unrolled from μ p-stacked carbon nanotubes. <i>Carbon</i> , 2012 , 50, 5421-5428	10.4 16
798	Nanomaterial-Based Antibacterial Paper. 2012 , 427-464	
797	Natural DNA-modified graphene/Pd nanoparticles as highly active catalyst for formic acid electro-oxidation and for the Suzuki reaction. 2012 , 4, 5001-9	110
796	Thermal treatment effects on charge storage performance of graphene-based materials for supercapacitors. 2012 , 4, 3239-46	47
795	Application of thermally reduced graphene oxide modified electrode in simultaneous determination of dihydroxybenzene isomers. 2012 , 174, 441-448	81
794	Synthesis of hexagonal-symmetry iron oxyhydroxide crystals using reduced graphene oxide as a surfactant and their Li storage properties. 2012 , 14, 147-153	46
793	Conducting Polymers Directly Coated on Reduced Graphene Oxide Sheets as High-Performance Supercapacitor Electrodes. 2012 , 116, 5420-5426	581
792	Role of Solubility Parameters in Understanding the Steric Stabilization of Exfoliated Two-Dimensional Nanosheets by Adsorbed Polymers. 2012 , 116, 11393-11400	171
791	Facile, mild and fast thermal-decomposition reduction of graphene oxide in air and its application in high-performance lithium batteries. 2012 , 48, 976-8	216
790	Rhodium-nickel nanoparticles grown on graphene as highly efficient catalyst for complete decomposition of hydrous hydrazine at room temperature for chemical hydrogen storage. 2012 , 5, 6885	187
789	Dispersions of non-covalently functionalized graphene with minimal stabilizer. 2012 , 6, 8857-67	291
788	Graphene for Stretchable Electronics. 2012 , 41-80	2
787	Development of NMR: Solid-State NMR and Materials Science, Post 1995. 2012 ,	3
786	A Raman spectroscopic investigation of graphite oxide derived graphene. 2012 , 2, 032183	513
785	In situ growth of Ni(x)Co(100-x) nanoparticles on reduced graphene oxide nanosheets and their magnetic and catalytic properties. 2012 , 4, 2378-86	136
784	Selectively Expanding Graphene Oxide Paper for Creating Multifunctional Carbon Materials. 2012 , 116, 23075-23082	24
783	Production and processing of graphene and 2d crystals. 2012 , 15, 564-589	745

782	Nanocomposites and macroscopic materials: assembly of chemically modified graphene sheets. 2012 , 41, 6160-77	262
781	Facile preparation of water-dispersible graphene sheets stabilized by acid-treated multi-walled carbon nanotubes and their poly(vinyl alcohol) composites. 2012 , 22, 2427-2434	156
780	Chemoselective photodeoxidization of graphene oxide using sterically hindered amines as catalyst: synthesis and applications. 2012 , 6, 3027-33	73
779	Highly conductive poly(methyl methacrylate) (PMMA)-reduced graphene oxide composite prepared by self-assembly of PMMA latex and graphene oxide through electrostatic interaction. 2012 , 4, 2630-6	213
778	Generalized syntheses of nanocrystal-graphene hybrids in high-boiling-point organic solvents. 2012 , 4, 4562-70	21
777	Synthesis of graphene nanosheets via oxalic acid-induced chemical reduction of exfoliated graphite oxide. 2012 , 2, 1168-1173	129
776	Non-covalently modified graphene sheets by imidazolium ionic liquids for multifunctional polymer nanocomposites. 2012 , 22, 5666	135
775	The theoretical study of mechanical property and thermostability analysis of poly(vinyl alcohol)/graphene oxide nanofiber composites with different architecture: Molecular dynamics simulation. 2021 , 42, 6478-6487	0
774	Effect of graphite nanoplatelets on spark plasma sintered and conventionally sintered aluminum-based nanocomposites developed by powder metallurgy. 2021 , 39, 346-370	
773	Prospects for Using Graphene Nanomaterials: Sorbents, Membranes, and Gas Sensors. 2021 , 94, 1177-1188	0
772	New Insights into the Metallization of Graphene-Supported Composite Materials-from 3D Cu-Grown Structures to Free-Standing Electrodeposited Porous Ni Foils.. 2022 , 7, 4352-4362	
771	Solution-gated transistor based on electrochemically reduced graphene oxide channel. 2022 , 57, 4652-4663	0
770	High Performance of PVA Nanocomposite Reinforced by Janus-like Asymmetrically Oxidized Graphene: Synergetic Effect of H-bonding Interaction and Interfacial Crystallization. 2022 , 40, 373	0
769	Nanotechnology-based thermosets. 2022 , 833-890	1
768	Synthesis and Applications of Graphene Oxide.. 2022 , 15,	10
767	Crystallization Behavior and Electrical Properties of Nanoparticle-Reinforced Poly(lactic Acid)-Based Films.. 2022 , 14,	0
766	Effect of growth parameters on morphology and quality of magnetic graphene-cobalt nanocomposite made by electrochemical deposition/exfoliation. 2022 , 33, 3801	0
765	N-Doped Graphene-like Nanostructures from -Nitro Aniline-Based Foam: Formation, Structure, and Applications as a Nanofiller.. 2022 , 7, 3230-3239	2

764	Drop-cast graphene-p3ht composite for flexible electronics applied over polyethylene terephthalate obtained from one-use plastic bottles. 2022 , 113, 69-79	1
763	Electrochemically reduced graphene oxide: Preparation, composites, and applications. <i>Carbon</i> , 2022 , 191, 301-332	10.4 4
762	Study of microwave reduction of graphene oxide suspension: structure and functional groups. 2022 , 57, 3280-3294	1
761	Preparation and characterization of an amine-modified graphene aerogel for enhanced carbon dioxide adsorption. 2022 , 57, 1727-1737	0
760	Antibacterial evaporator based on reduced graphene oxide/polypyrrole aerogel for solar-driven desalination.	2
759	Cancer therapy, immunotherapy, photothermal therapy. 2022 , 85-117	
758	Recent advances on graphene-based materials as cathode materials in lithium-sulfur batteries. 2022 , 47, 8630-8657	2
757	Photocatalytic Degradation of Fluoroquinolone Antibiotics in Solution by Au@ZnO-rGO-gC3N4 Composites. 2022 , 12, 166	1
756	Revisiting the Roles of Natural Graphite in Ongoing Lithium-ion Batteries.. 2022 , e2106704	10
755	Electric-Field-Triggered Graphene Production: From Fundamental Energy Applications to Perspectives.	1
754	Emerging zero-dimensional to four-dimensional biomaterials for bone regeneration.. 2022 , 20, 26	0
753	Thin Film Biocomposite Membrane for Forward Osmosis Supported by Eggshell Membrane.. 2022 , 12,	1
752	Photoexfoliation Synthesis of 2D Materials. 2022 , 4, 263-270	4
751	rGO decorated semiconductor heterojunction of BiVO4/NiO to enhance PEC water splitting efficiency. 2022 , 47, 4375-4385	2
750	Steady-state stability improvement of reduced graphene oxide thermo behavior via polymer film encapsulation. 2022 , 121, 108792	1
749	Resistance matching materials nanoarchitectonics for better performances in water evaporation-driven generators.. 2022 ,	0
748	Tailoring graphene-supported Ru nanoparticles by functionalization with pyrene-tagged N-heterocyclic carbenes.	1
747	Wet spinning of the graphene oxide composite liquid crystals toward graded utilization of waste heat. 2022 , 57, 2528-2539	0

746	Visible-Light-Driven Reduced Graphite Oxide as a Metal-Free Catalyst for Degradation of Colored Wastewater.. 2022 , 12,	0
745	Characteristics, properties, synthesis and advanced applications of 2D graphdiyne versus graphene.	2
744	From graphene to graphene oxide: the importance of extended topological defects.. 2022 ,	0
743	Ru nanoparticles supported on alginate-derived graphene as hybrid electrodes for the hydrogen evolution reaction. 2021 , 46, 49-56	0
742	Aqueous, Mixed Micelles as a Means of Delivering the Hydrophobic Ionic Liquid EMIM TFSI to Graphene Oxide Surfaces.. 2022 ,	2
741	Overview of photonic devices based on functional materials-integrated photonic crystal fibers.	0
740	Epoxidized natural rubber/acid functionalized carbon nanotubes composites for enhanced thermo-mechanical and oxygen barrier performance.	0
739	Tribology Study of Pulse Electrodeposited Ni-B-SWCNT Composite Coating. 2022 , 74, 574-583	3
738	Ag Nanoparticle-Decorated Graphene Oxide Coatings on the Inner Walls of Optofluidic Capillaries for Real-Time Trace SERS Detection.	1
737	Graphene oxide based semiconducting nanomaterials composites for environmental applications. 2022 , 407-431	
736	NMR spectral parameters of open- and closed-shell graphene nanoflakes: Orbital and hyperfine contributions. <i>Carbon</i> , 2022 , 191, 374-383	10.4 0
735	Highly reliable Cu Cu low temperature bonding using SAC305 solder with rGO interlayer. 2022 , 129, 114483	0
734	Nanoarchitectonics of phosphomolybdic acid supported on activated charcoal for selective conversion of furfuryl alcohol and levulinic acid to alkyl levulinates. 2022 , 519, 112135	2
733	Reduced graphene oxide temperature sensor via photo-thermal laser irradiation for a printed circuit board. 2022 , 314, 131758	0
732	Preparation and characterization of intelligent color-changing nanosensor based on bromophenol blue and GONH ₂ nanosheet for freshness evaluation of minced Caspian sprat (<i>Clupeonella cultriventris caspia</i>) stored at 4 °C. 1	0
731	Potentialities of graphene and its allied derivatives to combat against SARS-CoV-2 infection.. 2022 , 13, 100208	4
730	Constructing efficient and recyclable composite absorbent based on the modification of polymer skeleton with in situ assembled mesoporous silica/graphene oxide nanohybrid. 2022 , 220, 109295	0
729	Recent progress in polymer/two-dimensional nanosheets composites with novel performances. 2022 , 126, 101505	12

728	Vacuum-assisted sulfur crystallization process to improve the electrochemical performance of S@PC composite cathode materials for LiB batteries. 2022 , 198, 110896	0
727	Construction of 2D-coal-based graphene/2D-bismuth vanadate compound for effective photocatalytic CO ₂ reduction to CH ₃ OH. 2022 , 639, 128321	2
726	Thermal management performance of polyvinyl alcohol composite with boron phosphide decorated reduced graphene oxide. 2022 , 155, 106847	1
725	Re nanoclusters anchored on nanosheet supports: Formation of Re-O-matrix bonding and evaluation as all-pH-range hydrogen evolution reaction (HER) electrocatalysts. 2022 , 69, 185-193	1
724	Super durable graphene aerogel inspired by deep-sea glass sponge skeleton. <i>Carbon</i> , 2022 , 191, 153-163	10.4
723	Stimulating effects of reduced graphene oxide on the growth and nitrogen fixation activity of nitrogen-fixing bacterium <i>Azotobacter chroococcum</i> .. 2022 , 133702	
722	ZnO Nanosheets-Decorated ERGO Layers: An Efficient Electrochemical Sensor for Non-Enzymatic Uric Acid Detection. 2022 , 1-1	2
721	Investigation of the thermal and light sensing properties of graphene oxide and reduced graphene oxide films obtained by spin coating method. 1-10	0
720	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges.. 2022 ,	28
719	Electrochemical reduction of thin graphene-oxide films in aqueous solutions [Restoration of conductivity. 2022 , 140046	0
718	Efficient terahertz radiation absorption by dilute graphene composites. 2022 , 120, 063104	3
717	Adherable Temperature Sensor to a Porous Structure of Fiber via Reduced Graphene Oxide and Poly(diallyldimethylammonium chloride) Complex.	0
716	Green Carbon Nanostructures for Functional Composite Materials.. 2022 , 23,	0
715	Effect of MWCNTs additive on preservation stability of rGO powder. 2022 , 33, 6766	
714	Functionalized graphene origami metamaterials with tunable thermal conductivity. <i>Carbon</i> , 2022 , 191, 610-610	10.4
713	The Synergistic Properties and Gas Sensing Performance of Functionalized Graphene-Based Sensors.. 2022 , 15,	2
712	High-performance supercapacitor electrode based on a layer-by-layer assembled maghemite/magnetite/reduced graphene oxide nanocomposite film. 2022 , 908, 116123	0
711	Tribological performances of BP/TiO ₂ nanocomposites as water-based lubrication additives for titanium alloy plate cold rolling. 2022 , 494-495, 204278	0

- 710 Comparative analysis of characterization techniques of GQDs-based photovoltaic applications: A review. **2022**, 255, 168709 1
- 709 Phase-Controlled NiO Nanoparticles on Reduced Graphene Oxide as Electrocatalysts for Overall Water Splitting.. **2021**, 11, 1
- 708 Reduced Graphene Oxide-Copper Nanocomposites Synthesis via Green Chemistry. **2022**, 315-322
- 707 Graphene-Based Nanomaterials for Biomedical Imaging.. **2022**, 1351, 125-148 0
- 706 Effect of electrolyte concentration on the electrochemical performance of RGO-Na₂SO₄ supercapacitor. **2022**, 54, 958-962
- 705 Graphene/Rh-Doped SnO₂ Nanocomposites Synthesized by Electrochemical Exfoliation and Flame Spray Pyrolysis for H₂s Sensing.
- 704 Graphitization induced structural transformation of candle soot carbon into carbon nano-onion as a functional anode for metal-ion batteries. 0
- 703 Characteristic analysis of three-ecofriendly reduced graphene oxides (rGOs) and their application in water-ethanol-based fluids with different volume ratios.. **2022**, 12, 5522-5533
- 702 Microfluidic-Assembled Hierarchical Macro-Microporous Graphene Fabrics Towards High-Performance Robust Supercapacitors.
- 701 Towards a computational understanding of water oxidation at graphene-bound Mn_xO_y and Mn_xO_yM₂⁺ particles.
- 700 Pd-Pd/PdO as active sites on intercalated graphene oxide modified by diaminobenzene: fabrication, catalysis properties, synergistic effects, and catalytic mechanism.. **2022**, 12, 8600-8610 0
- 699 Tolerated Reduction Protocol of Graphene for High Performance Emi Shielding Materials.
- 698 Effect of Polyaniline and Graphene Oxide Modified Carbon Felt on Adsorption and Immobilization of .. **2022**, 18, 251-258
- 697 Enhancement of Effective Thermal Conductivity of Rgo/Mg Nanocomposite Packed Beds.
- 696 Graphene Based Nanocomposites: Synthesis, Characterization and Energy Harvesting Applications. **2022**, 817-857
- 695 Assembly of 2d-Mos₂ with Graphene Layer for Highly Sensitive and Selective Gas Detection at Room Temperature.
- 694 Progress in Research on electromechanical graphene resonant sensors. **2022**,
- 693 A molybdenum disulfide-reduced graphene oxide nanocomposite as an electrochemical sensing platform for detecting cyproterone acetate. **2022**, 46, 5385-5392

- 692 Synthesis and characterization of WO₃/rGO nanocomposite for Propan-2-ol sensing. **2022**, 3, 100172 0
- 691 Radiation-assisted reduction of graphene oxide by aloe vera and ginger and their antioxidant and anti-inflammatory roles against male mice liver injury induced by gamma radiation. **2022**, 46, 4406-4420 2
- 690 Synthetic Protocols. **2022**, 65-110
- 689 High-Efficiency Preparation of Reduced Graphene Oxide by a Two-Step Reduction Method and Its Synergistic Enhancement of Thermally Conductive and Anticorrosive Performance for Epoxy Coatings. **2022**, 61, 3044-3054
- 688 Preparation of rGO/MnO Composites through Simultaneous Graphene Oxide Reduction by Electrophoretic Deposition.. **2022**, 7, 6760-6767 0
- 687 Annealing induced high-impact toughness of injection molded isotactic polypropylene filled with liquid-phase exfoliated graphene. 0
- 686 Graphene/Copper Nanoparticles as Thermal Interface Materials. **2022**, 5, 3450-3457 0
- 685 Synthesis and characterization of wood flour modified by graphene oxide for reinforcement applications. **2022**, 37, 83-92 0
- 684 Progress on Optical Fiber Biochemical Sensors Based on Graphene.. **2022**, 13, 0
- 683 Nanocomposites of Rigid Polyurethane Foam and Graphene Nanoplates Obtained by Exfoliation of Natural Graphite in Polymeric 4,4'-Diphenylmethane Diisocyanate.. **2022**, 12, 0
- 682 Green Reduction of Graphene Oxide Involving Extracts of Plants from Different Taxonomy Groups. **2022**, 6, 58 1
- 681 Impact of Graphene Nano-Additives to Lithium Grease on the Dynamic and Tribological Behavior of Rolling Bearings. **2022**, 10, 29 2
- 680 Synthesis and Characterization of Nanocrystalline Boron-Nitride Thin Films by Ion Milling and Thermal Treatment for Tribological Coatings: An Approach to Quantifying the Growth Dynamic Process.. **2022**, 15,
- 679 Predicting the Probability of Observation of Arbitrary Graphene Oxide Nanoflakes Using Artificial Neural Networks. 2200013
- 678 Three-Dimensional Interconnected Porous Partially Unzipped MWCNT/Graphene Composite Aerogels as Electrodes for High-Performance Supercapacitors.. **2022**, 12, 2
- 677 Facile scalable synthesis of graphene oxide and reduced graphene oxide: comparative investigation of different reduction methods. 1
- 676 Efficient CdS quantum dot sensitized solar cells based on electrochemically reduced graphene oxide (ERGO)/ZnO nanowall photoanodes and MoS₂, WS₂, CuS cascaded counter electrodes. **2022**, 234, 348-359 1
- 675 Power Generation Via Sliding Ionic Droplets on Nanolayered MXene Films. 1

674	Humidity-Based Human-Machine Interaction System for Healthcare Applications.. 2022,	1
673	Impact of N ₂ admixture on the synthesis of graphitic carbon nanoparticles using atmospheric-pressure microwave plasma.	0
672	One step formation of laser reduced graphene oxide fabrication and characterization on novel flexible PET based sensitive sensor. 2022,	
671	A Facile Production of Reduced Graphene Oxide Transparent Films in Polyethylene Terephthalate Substrates. 72, 53-65	
670	Polarity-Switchable and Self-Driven Photo-Response Based on Vertically Stacked Type-III GeSe/SnS ₂ Heterojunction. 2102099	5
669	Assembling Hollow Cactus-Like ZnO Nanorods with Dipole-Modified Graphene Nanosheets for Practical Room-Temperature Formaldehyde Sensing.. 2022,	3
668	Synthesis of hydrophilic carbon nanotube sponge via post-growth thermal treatment.. 2022,	1
667	Lanthanide Diketonate Complex Functionalized Poly(ionic liquid)s/SiO ₂ Microsphere as a Fluorescent Probe for the Determination of Bovine Hemoglobin. 2022, 4, 2941-2950	0
666	Solvothermal synthesis of reduced graphene oxide and zinc ferrite containing composite and its application as an electrochemical sensor in simultaneous measurement of lead, cadmium and mercury ions. 1	1
665	Polymer Composites with Graphene and Its Derivatives as Functional Materials of the Future. 1	1
664	Research on the wear and corrosion resistance of NiTiO ₂ /TiC composite coating by scanning jet electrodeposition. 2022, 10, 015048	0
663	2-(N-3-Sulfopropyl-N ,N-dimethyl ammonium)ethyl methacrylate modified graphene oxide embedded into cellulose acetate ultrafiltration membranes for improved performance. 52336	
662	Conductive, Anti-Corrosion, Self-Healing Smart Coating Technology Incorporating Graphene-Based Nanocomposite Matrix. 2022, 9,	
661	Enhanced room-temperature magnetoresistance of hybrid graphene nanosheets produced by a laser-assisted process. 2022, 57, 5885-5893	1
660	Recent Advances in Enzyme Immobilization Utilizing Nanotechnology for Biocatalysis.	2
659	Graphene Oxide Nanofiltration Membrane Based on Three-Dimensional Size-Controllable Metal-Organic Frameworks for Water Treatment.	6
658	Wearable Multifunctional Graphene-Based Aerogel/Spacer Fabric Composites for Sensing and Impact Protection. 2200010	0
657	The promising solar-powered water purification based on graphene functional architectures.	1

656	Synthesis of a magnetic extended carbon nanosolenoid with Riemann surfaces.. 2022 , 13, 1239	3
655	Synthesis of Three-Dimensional Reduced-Graphene Oxide from Graphene Oxide. 2022 , 2022, 1-18	6
654	Seamless all-solid-state supercapacitor fabricated using a proton-conducting methanesulfonic acid-intercalated graphene oxide film as an electrolyte.. 2022 , e2100912	0
653	Recent advance on machine learning of MXenes for energy storage and conversion.	1
652	Sonophotocatalytic Dye Degradation Using rGO-BiVO ₄ Composites. 2100132	1
651	A Proton-Barrier Separator Induced via Hofmeister Effect for High-Performance Electrolytic MnO ₂ /Zn Batteries. 2103705	3
650	Gap Opening in Double-Sided Highly Hydrogenated Free-Standing Graphene.. 2022 ,	1
649	Large-scale synthesis of graphene and other 2D materials towards industrialization.. 2022 , 13, 1484	8
648	Graphene-Oxide-Based Fluoro- and Chromo-Genic Materials and Their Applications.. 2022 , 27,	1
647	A facile one-pot hydrothermal synthesis of cobalt sulfide nanospheres integrated with graphene nanocomposite as electrode material for high-performance supercapacitors. 2022 , 33, 10057	0
646	Chemical Interactions of Nano Islandic Graphene Grown on Titanium Dioxide Substrates by Chemical Vapor Deposition. 1	
645	A comprehensive review on the thermal, electrical, and mechanical properties of graphene-based multi-functional epoxy composites. 1	4
644	Novel bi-functional RGO-HPSE-Zn@epoxy nanocomposite with superior corrosion protection potency. 2022 , 108, 28-46	3
643	Recent advances in aluminium matrix composites reinforced with graphene-based nanomaterial: A critical review. 2022 , 100948	2
642	A universally dispersible graphene-based ink modifier facilitates 3D printing of multi-functional tissue-engineered scaffolds. 2022 , 216, 110551	0
641	Supercritical CO ₂ microemulsion containing [Emim][Tf ₂ N] coupled jet impact exfoliation of graphene and its application to supercapacitors. 2022 , 183, 105559	
640	Spectral and Structural Properties of High-Quality Reduced Graphene Oxide Produced via a Simple Approach Using Tetraethylenepentamine.. 2022 , 12,	0
639	Two-dimensional layered carbon-based catalytic ozonation for water purification: Rational design of catalysts and an in-depth understanding of the interfacial reaction mechanism.. 2022 , 832, 155071	0

638	Porous-Material-Based Composite Phase Change Materials for a Lithium-Ion Battery Thermal Management System.	3
637	Recent Advances in Biomass-derived Graphene and Carbon Nanotubes. 2022 , 100138	1
636	Effect of Effluent Gas Composition on Characteristics of Graphene Oxide Film Based Relative Humidity Sensor. 2022 , 111156	
635	Green synthesis of strontium-reduced graphene oxide biocomposite using gamma radiation. 2022 , 110109	1
634	Highly sensitive and selective electrochemical detection of clothianidin using reduced graphene oxide-anionic pillar[6]arene composite film. 2022 , 107465	0
633	Two-dimensional (2D) hybrid nanomaterials for diagnosis and treatment of cancer. 2022 , 70, 103268	2
632	2,2'-bipyridine palladium (II) complexes derived N-doped carbon encapsulated palladium nanoparticles for formic acid oxidation. 2022 , 413, 140179	0
631	Effects of pH on Biochar's heating value during acoustic treatment. 2022 , 160, 106420	0
630	Leaf-veins-inspired nickel phosphate nanotubes-reduced graphene oxide composite membranes for ultrafast organic solvent nanofiltration. 2022 , 649, 120401	0
629	Facile one pot green synthesis of NH ₂ surface functionalized graphene-polymer nanocomposite: Subsequent utilization as stabilizer in pickering emulsions. 2022 , 641, 128594	1
628	Selective sensing of heavy metal ions via fluorescence quenching of femtosecond-laser-synthesized 2D nanoparticles. 2022 , 359, 131576	2
627	Stable and fast Si ₃ N ₄ ternary anodes enabled by interfacial engineering. 2022 , 530, 231290	0
626	3D hierarchical porous carbon from fulvic acid biomass for high energy density supercapacitor with high withstanding voltage. 2022 , 533, 231413	2
625	Recent advancement in three dimensional graphene-carbon nanotubes hybrid materials for energy storage and conversion applications. 2022 , 50, 104235	2
624	Achieving multiband compatible and mechanical tuning absorber using edge topological defect-induced graphene plasmon. <i>Carbon</i> , 2022 , 192, 1-13	10.4 2
623	Insight into the separation mechanism of graphene oxide membrane by designing dual layered structure. 2022 , 532, 115687	2
622	Retention of graphene oxide and reduced graphene oxide in porous media: Diffusion-attachment, interception-attachment and straining.. 2022 , 431, 128635	1
621	Facile fabrication of flexible piezo-resistive pressure sensor array using reduced graphene oxide foam and silicone elastomer. 2022 , 340, 113549	3

620	Novel graphene-based ternary nanocomposite coatings as ecofriendly antifouling brush surfaces. 2022 , 167, 106803	0
619	Supramolecular engineering of nacre-inspired bio-based nanocomposite coatings with exceptional ductility and high-efficient self-repair ability. 2022 , 437, 135405	1
618	2D structured graphene nanosheets decorated by monodispersed superparamagnetic Fe ₃ O ₄ nanoparticles for differentiation of mouse cells. 2022 , 906, 164300	1
617	A composite graphene aerogel for real-time degradation of low-concentration ozone: The synergetic effect of defects. 2022 , 10, 107530	
616	Interface mechanics of 2D materials on metal substrates. 2022 , 163, 104831	1
615	Tailoring the synergy between polyaniline and reduced graphene oxide using organic acid dopant, pTSA for enhanced performance as electrode material for supercapacitor applications. 2022 , 165, 110673	1
614	Gas-driven shearing nanonization of lignin particles for efficient reduction of graphene oxide. 2022 , 180, 114665	0
613	Microfluidic-assembled hierarchical macro-microporous graphene fabrics towards high-performance robust supercapacitors. 2022 , 440, 135878	1
612	Styrene-based ternary composite elastomers functionalized with graphene oxide-polypyrrole under iron(III)-alkyl benzenesulfonate oxidants for supercapacitor integrated strain sensor system. 2022 , 51, 104543	0
611	Tetragonal transition metal selenide for hydrogen evolution. 2022 , 591, 153249	1
610	Poly(N-methyl pyrrole) decorated rGO nanocomposite: A novel ultrasensitive and selective carbon monoxide sensor. 2022 , 441, 136010	0
609	Effect of Electrolytic Medium on the Electrochemical Reduction of Graphene Oxide on Si(111) as Probed by XPS.. 2021 , 12,	3
608	Improved interfacial performance of carbon fiber/polyetherimide composites by polyetherimide and modified graphene oxide complex emulsion type sizing agent. 2022 , 34, 292-309	2
607	Influence of Graphene Nanoplatelets on the Compressive and Split Tensile Strengths of Geopolymer Concrete. 2021 , 945, 012060	0
606	An overview on chemical processes for synthesis of graphene from waste carbon resources. 1	0
605	New rout for synthesizing triammonium citrate crystal with unique crystallography and its application in synthesizing nitrogen doped graphene quantum dot. 2021 , 1-14	
604	Preparation and Characterization of an Injectable and Photo-Responsive Chitosan Methacrylate/Graphene Oxide Hydrogel: Potential Applications in Bone Tissue Adhesion and Repair.. 2021 , 14,	1
603	Environment-tolerant conductive and superhydrophobic poly(m-phenylene isophthalamide) fabric prepared via γ ray activation and reduced graphene oxide/nano SiO ₂ modification. 2022 , 139, 52004	

602	Enhanced Photothermal and Photoacoustic Performance of Graphene Oxide in NIR-II Biowindow by Chemical Reduction. 2022 , 9, 2	
601	Physiochemically distinct SU-8 surfaces tailor Xylella fastidiosa cell-surface holdfast and colonization.	
600	Highly Porous Expanded Graphite: Thermal Shock vs. Programmable Heating.. 2021 , 14,	0
599	Controllable self-propagating reduction of graphene oxide films for energy-efficient fabrication. 2022 , 46, 6876-6888	0
598	Electrochemical Sensor for Methamphetamine Detection Using Laser-Induced Porous Graphene Electrode.. 2021 , 12,	3
597	The Bipolar Mode of One-Step Plasma Electrochemical Synthesis of Few Layer Graphene Structures Decorated with Transition Metal Oxides. 2021 , 6, 13642-13646	
596	Effects of laser processing parameters on properties of laser-induced graphene by irradiating CO2 laser on polyimide. 2022 , 65, 41	1
595	Dynamic liquid crystal behavior of Bi ₂ Te ₃ nanosheets. 1	0
594	Fabrication and tribological behavior of novel UHMWPE/vitamin-C/graphene nanoplatelets based hybrid composite for joint replacement. 2021 , ahead-of-print,	0
593	Anti-Inflammatory and Antioxidant Properties of Coffea Arabica/Reduced Graphene Oxide Nanocomposite prepared by green synthesis. 2021 , 18, 305-317	2
592	Synthesis of SbS NRs@rGO Composite as High-Performance Anode Material for Sodium-Ion Batteries.. 2021 , 14,	
591	Reduced graphene oxide (RGO) reinforced Mg biocomposites for use as orthopedic applications: Mechanical properties, cytocompatibility and antibacterial activity. 2021 ,	4
590	Lemon Juice Assisted Green Synthesis of Reduced Graphene Oxide and Its Application for Adsorption of Methylene Blue. 2021 , 9, 96	1
589	Construction of a Reduced Graphene Oxide/TiO ₂ Nanotube Structure by the Click Reaction for Photoanodes. 2021 , 4, 13543-13551	
588	Ultrathin Cobalt Phthalocyanine@Graphene Oxide Layer-Modified Separator for Stable Lithium-Sulfur Batteries. 2021 ,	2
587	Recent Developments in the Immobilization of Laccase on Carbonaceous Supports for Environmental Applications - A Critical Review.. 2021 , 9, 778239	3
586	Graphene-based Nanomaterials in Fighting the Most Challenging Viruses and Immunogenic Disorders.. 2021 ,	4
585	Fabrication and prospective applications of graphene oxide-modified nanocomposites for wastewater remediation.. 2022 , 12, 11750-11768	5

- 584 Vitamin C-Reduced Graphene Oxide Coatings Improve the Performance and Stability of Multimodal Microelectrodes for Neural Recording, Stimulation, and Dopamine Sensing.
- 583 Phenanthrenequinone-like moiety functionalized carbon for electrocatalytic acidic oxygen evolution. **2022,** 2
- 582 Tuning Electrocatalytic Activity of Gold Silver Nanoparticles on Reduced Graphene Oxide for Oxygen Reduction Reaction. 0
- 581 Fabrication of reduced graphene oxide with high electrical conductivity by thermal-assisted photoreduction of electrochemically-exfoliated graphene oxide.
- 580 Electrochemical biosensor utilizing dual-mode output for detection of lung cancer biomarker based on reduced graphene oxide-modified reduced-molybdenum disulfide multi-layered nanosheets. **2022, 37, 1451**
- 579 Fabrication of Graphene-Fe₃O₄-Polypyrrole based ternary material as an electrode for Pseudocapacitor application. **2022,** 0
- 578 Functional carbon dots from a mild oxidation of coal liquefaction residue. **2022, 322, 124216** 4
- 577 Enhancement of effective thermal conductivity of rGO/Mg nanocomposite packed beds. **2022, 192, 122891** 1
- 576 Data_Sheet_1.pdf. **2019,**
- 575 Data_Sheet_1.pdf. **2020,**
- 574 Data_Sheet_1.docx. **2020,**
- 573 Data_Sheet_1.PDF. **2019,**
- 572 Presentation_1.pdf. **2019,**
- 571 Table_1.DOCX. **2019,**
- 570 Nanocellulose Paper Semiconductor with a 3D Network Structure and Its Nano-Micro-Macro Trans-Scale Design.. **2022,** 2
- 569 Carbon nanomaterial-based sensors: An efficient tool in the environmental sectors. **2022, 149-165**
- 568 Structural and electronic properties of covalently functionalized graphene. **2022, 131-155**
- 567 Polycarbonate Nanocomposites for High Impact Applications. **2022, 257-281** 1

- 566 Applications of Graphene and Graphene-Based Nanocomposite for Consumer Nanoproducts. **2022**, 501-522
- 565 Exploring the physicochemical role of Pd dopant in promoting Li-ion diffusion dynamics and storage performance for NbS₂ at atomic scale. 1
- 564 Suppression of Secondary Electron Emission on Oxygen-Free Copper Surface of Reduced Graphene Oxide Coatings Prepared by Electrophoretic Deposition.
- 563 Polymeric Hydrogels for Dye Adsorption. **2022**, 125-174
- 562 Sustainable development information management of carbon nanomaterial-based sensors. **2022**, 3-12 5
- 561 Cobalt Phosphotungstate-Based Composites as Bifunctional Electro-catalysts for Oxygen Reactions. **2022**, 12, 357 1
- 560 A simple approach to fabricate self-supporting graphene oxide/carbon nanotubes hybrid membrane as efficient polysulfides trapping in lithium/sulfur batteries. 0
- 559 Microwave-Assisted Synthesis of Reduced Graphene Oxide with Hollow Nanostructure for Application to Lithium-Ion Batteries.. **2022**, 12, 1
- 558 High-efficiency, self-grinding exfoliation of small graphene nanosheets from microcrystalline graphite driven by microbead milling as conductive additives. 1 0
- 557 Sorbent Properties of Orange Peel-Based Biochar for Different Pollutants in Water. **2022**, 10, 856 0
- 556 Layer-by-Layer Self-Assembled TEMPO-Oxidized Cellulose Nanofiber/Reduced Graphene Oxide/Polypyrrole Films for Self-Supporting Flexible Supercapacitor Electrodes. 0
- 555 Preparation and capacitive properties of nitrogen-doped graphene aerogels compatible with ionic liquid electrolyte. **2022**, 52, 701-708
- 554 Robust PDMS-based Porous Sponge with Enhanced Recyclability for Selective Separation of Oil-Water Mixture. **2022**, 129228 0
- 553 Enhanced electromagnetic interference (EMI) shielding in BiFeO₃/graphene oxide nanocomposites over X-band frequency region. **2022**, 131, 174101 0
- 552 Graphene-Based Functional Hybrid Membranes for Antimicrobial Applications: A Review. **2022**, 12, 4834 2
- 551 Synthesis of lysozyme-reduced graphene oxide films for biosensor applications. **2022**, 109093 1
- 550 Mechanical Properties of Ceramics Reinforced with Allotropic Forms of Carbon. **2022**, 100966 3
- 549 Synthesis of Pure Thiophene-Sulfur-Doped Graphene for an Oxygen Reduction Reaction with High Performance.. **2022**, 4350-4356 0

548	Green synthesis and electrochemical performances of ZnO/graphene nanocomposites. 1	0
547	Electromagnetic Interference Shielding by Reduced Graphene Oxide Foils.	1
546	Ionic liquid dispersed highly conducting polymer electrolyte for supercapacitor application: Current scenario and prospects IJSEM 20210095400832210994	1
545	N-heterocycle-functionalized graphene oxide complexed with cobalt(II) as symmetric supercapacitor electrodes. 2022, 165371	0
544	Forensic Electrochemistry: Electrochemical Analysis of Trace Methamphetamine Residues on Household Surfaces. 2022, 169, 056514	0
543	On the interface between biomaterials and two-dimensional materials for biomedical applications.. 2022, 186, 114314	0
542	Synthesis of nano-coral tungsten carbide/carbon fibers as efficient catalysts for hydrogen evolution reaction.	1
541	Direct Laser Writing of Graphitic Carbon from Liquid Precursors.	2
540	Green Synthesis of a Reduced-Graphene-Oxide Wrapped Nickel Oxide Nano-Composite as an Anode For High-Performance Lithium-Ion Batteries. 2022, 7,	2
539	Large negative differential resistance in triangular and square cyclopropyllithium derivative molecule. 2022, 413989	
538	Recent advances in flame retardant epoxy systems containing non-reactive DOPO based phosphorus additives. 2022, 200, 109962	1
537	Effective reduction and doping of graphene oxide films at near-room temperature by microwave-excited surface-wave plasma process. 2022, 126, 109066	0
536	Synergy of phospholipid and hyaluronan based super-lubricated hydrogels. 2022, 27, 101499	1
535	Improving the performance and stability of large-area carbon-based perovskite solar cells using N, O co-doped biomass porous carbon. 2022, 912, 165123	2
534	Efficient detection of glucose by graphene-based non-enzymatic sensing material based on carbon dot. 2022, 647, 129122	
533	UV-induced simultaneous removal of GO and U(VI): The role of aggregation, photo-transformation, adsorption and reduction. 2022, 648, 129151	
532	Nanostructured micro/mesoporous graphene: removal performance of volatile organic compounds. 2022, 12, 14570-14577	
531	Graphene/Rh-doped SnO ₂ nanocomposites synthesized by electrochemical exfoliation and flame spray pyrolysis for H ₂ S sensing. 2022, 165431	0

- 530 Reduction in Graphene Oxide by Sodium Borohydride for Enhanced BR13 Dye and Cu²⁺ Adsorption. 0
- 529 Comparative efficiency of polycyclic aromatic hydrocarbon removal by novel graphene oxide composites prepared from conventional and green synthesis. **2022**, 132244 2
- 528 Super Material Borophene: Next Generation of Graphene. **2022**, 34, 1313-1332
- 527 Conversion of layered materials to ultrathin amorphous nanosheets induced by ball-milling insertion and pure-water exfoliation. 0
- 526 High performance enhancement-mode thin-film transistor with graphene quantum dot-decorated In₂O₃ channel layers. **2022**, 12, 14986-14997
- 525 Reduction of graphene oxide using *Salvia Officinalis* plant extract and its utilization for Li O₂ batteries. **2022**, 109118 0
- 524 Laser ablation assisted synthesis of graphene/CuO nanocomposite: effect of laser fluence. 1-10
- 523 EM waves absorption properties of nitrogenous porous carbon derived from PANI fiber clusters carbonization. **2022**, 339, 112000 0
- 522 Vitamin C aqueous solution assisted in-situ reduction of graphene oxide in flexible thermoplastic polyurethane. **2022**, 226, 109533 0
- 521 Carbonate doped nickel-cobalt layered double hydroxide for high performance asymmetric supercapacitors. **2022**, 916, 165391 2
- 520 Subnanometer MoP clusters confined in mesoporous carbon (CMK-3) as superior electrocatalytic sulfur hosts for high-performance lithium-sulfur batteries. **2022**, 446, 137050 1
- 519 Efficient metal-free green syntheses of 4H-chromenes and 3-amino alkylated indoles using a reusable graphite oxide carbocatalyst under aqueous and solvent-free reaction conditions.
- 518 Hydrophobic RuO₂/Graphene/N-Doped Porous Carbon Hybrid Catalyst for Li-Air Batteries Operating in Ambient Air.
- 517 Electrocatalysis Based on Carbon Composite Catalysts. **2022**, 371-405
- 516 A new approach to prepare N-/S-doped free-standing graphene oxides for vanadium redox flow battery. 0
- 515 Evaluation of Conducting and Tensile Properties of Reduced Graphene Oxide/ Polybutylene Adipate Terephthalate (Rgo/Pbat) Nanocomposites. **2022**, 19, 26-35
- 514 Ultralight, Mechanically Enhanced, and Thermally Improved Graphene-Cellulose-Polyethyleneimine Aerogels for the Adsorption of Anionic and Cationic Dyes. **2022**, 12, 1727 0
- 513 Intercalating negatively charged pillars into graphene oxide sheets to enhance sulfonamide pharmaceutical removal from water. 0

- 512 Resistive organic memory devices based on nitrogen-doped CNTs/PSS composites.
- 511 Photocatalytic degradation of methylene blue dye using cuprous oxide/graphene nanocomposite. **2022**, 07,
- 510 INTRODUCING TEA POLYPHENOLS AND VITAMIN C TO IMPROVE THE IN SITU HYDROGENATION AND REDUCTION PROCESS OF NBR AND NBR/GO LATEX. **2022**,
- 509 Ultrasonic and thermodynamic investigation of reduced graphene oxide-n methyl-2-pyrrolidone nanosuspension. **2022**, 2267, 012098
- 508 Theoretical study of electronic and nonlinear optical properties of novel graphenylene-based materials with donor-acceptor frameworks. **2022**, 28,
- 507 The Development Trend of Graphene Derivatives. 2
- 506 Room-temperature nitrogen dioxide gas sensor based on graphene oxide nanoribbons decorated with MoS₂ nanospheres. **2022**, 128, 0
- 505 Comparative investigation on antibacterial studies of *Oxalis corniculata* and silver nanoparticle stabilized graphene surface. 0
- 504 A Green Method to Prepare a Highly Concentrated Reduced Graphene Oxide (RGO) Dispersion and Its Anti-Ultraviolet Radiation Property in RGO-Modified Cotton Fabric. **2022**, 7, 0
- 503 Terminology for graphene to graphite and for graphene oxide to graphite oxide. **2022**, 1, 59-69 0
- 502 One-step synthesis of NiS₂/rGO composite for efficient electrocatalytic urea oxidation. 0
- 501 Porous carbon-based material as a sustainable alternative for the storage of natural gas (methane) and biogas (biomethane) : a review. **2022**, 137373 0
- 500 Graphene nano-platelet (GNP)-doped poly (methyl methacrylate) (PMMA) spray-coated piezoresistive-based 2D strain sensor under temperature environment on aluminium alloy 2024-T351. **2022**, 24, 0
- 499 Nitrogen doping graphite oxide with 2,3-Diaminomaleonitrile: a study of the structural, morphological and electrochemical behavior.
- 498 Changes in the structure and properties of graphene oxide surfaces during reduction and modification. **2022**, 13, 179-189
- 497 Carbon-Supported Cobalt Nanoparticles via Thermal Sugar Decomposition as Efficient Electrocatalysts for the Oxygen Evolution Reaction.
- 496 Graphene-based membranes for membrane distillation applications: A review. **2022**, 10, 107974 2
- 495 Tunable decorated flake interlayers of functionalized graphene oxide for energy storage devices. **2022**, 128,

494	An overview on atmospheric carbonaceous particulate matter into carbon nanomaterials: A new approach for air pollution mitigation. 2022 , 303, 135027	0
493	Simultaneous and individual determination of seven biochemical species using a glassy carbon electrode modified with a nanocomposite of Pt nanoparticle and graphene by a one-step electrochemical process. 2022 , 247, 123590	0
492	Catalyst and substrate-free synthesis of graphene nanosheets by unzipping C60 fullerene clusters using a pulse current method. 2022 , 149, 106831	1
491	Ultralight, compressive and superhydrophobic methyltriethoxysilane-modified graphene aerogels for recyclable and selective organic pollutants adsorption from water. 2022 , 598, 153694	0
490	A Brief Overview on Facile Synthesis and Challenging Properties of Graphene Nanocomposite: State-of-the-art. 2022 , 34, 1603-1612	
489	Graphene-based polymer composites in corrosion protection applications. 2022 , 559-581	
488	Robust, Healable, Self-Locomotive Integrated Robots Enabled by Noncovalent Assembled Gradient Nanostructure.	8
487	Graphene synthesis, fabrication, characterization based on bottom-up and top-down approaches: An overview. 2022 , 43, 061101	1
486	Direct synthesis of graphene by blowing CO ₂ bubble in Mg melt for the seawater/oil pollution. 2022 , 165938	
485	Highly Efficient Chemoselective Hydrogenation of 5-HMF to BHMF over Reusable Bimetallic Pd-Ir/C Catalyst. 2022 , 7,	
484	Grafting silica onto reduced graphene oxide via hydrosilylation for comprehensive rubber applications: Molecular simulation and experimental study.	2
483	Fast Activation of Graphene with a Highly Distorted Surface and Its Role in Improved Aqueous Electrochemical Capacitors.	1
482	Magnesium Hydroxide Templated Hierarchical Porous Carbon Nanosheets as Electrodes for High-Energy-Density Supercapacitors.	1
481	Investigation of increased electrical conductivity by rGO in rGO/PVDF/PMMA/PTFE nanocomposites. 2022 , 133541	0
480	Ultrathin Flexible Graphene Film for High-Performance Electromagnetic Interference Shielding via Infrared-Assisted Rapid Thermal Shock Exfoliation.	
479	Vitamin C-reduced graphene oxide improves the performance and stability of multimodal neural microelectrodes. 2022 , 104652	1
478	Facile Fabrication of Graphene Oxide Nanoribbon-Based Nanocomposite Papers with Different Oxidation Degrees and Morphologies for Tunable Fire-Warning Response. 2022 , 12, 1963	1
477	Site-Selective Bipolar Electrodeposition of Gold Clusters on Graphene Oxide Microsheets at a 3D Air Liquid Interface. 2200304	1

- 476 Influence of graphene oxide surface treatment by diazonium salts on thermoelectrical behavior of polypyrrole-based composites. **2022**, 33, 14938-14950
- 475 Magnolol-derived thiol-ene photo-polymerized membranes with intrinsic anti-flammability and high transparency. **2022**, 110074
- 474 Synthesis and characterization of magnetic polymeric nanocomposites for pH-sensitive controlled release of methotrexate. 1-11
- 473 An integrated method for massive production of graphene from bituminous coal via ultrasonication-assisted emulsion formation. 1-12
- 472 Activated carbon/reduced graphene oxide wrapped LiFePO₄ cathode for Li-ion batteries with ultrahigh capacities and high specific energy density. **2022**, 34, 100393
- 471 Kinetic, isotherm and thermodynamic adsorption studies of organophosphorus compound (phosmet) on reduced graphene oxide. **2022**, 127, 109191
- 470 Repetitive drug delivery using Light-Activated liposomes for potential antimicrobial therapies. **2022**, 187, 114395
- 469 The effects of graphene oxide load on the optical, structural and electrical properties of ternary nanocomposites (Polyvinyl alcohol/copper/graphene oxide) for electronic and photovoltaic application. **2022**, 8, 100261
- 468 Spotlighting graphene-based catalysts for the mitigation of environmentally hazardous pollutants to cleaner production: A review. **2022**, 365, 132702
- 467 Towards High-quality graphite oxide from graphite Systemization of the balance in oxidative and mechanical forces for yield enhancement. **2022**, 259, 117815
- 466 Facile fabrication of electrochemically reduced graphene oxide/polythionine-methylene blue and its use as a platform for detection of nicotinamide adenine dinucleotide in the artificial urine sample. **2022**, 425, 140715
- 465 Designing dual-defective photocatalyst of Z-scheme H-BiVO₄/D-NG composite with hollow structures for efficient visible-light photocatalysis of organic pollutants. **2022**, 297, 121476
- 464 Macroporous vanadium dioxide/reduced graphene oxide microspheres: Cathode material with enhanced electrochemical kinetics for aqueous zinc-ion batteries. **2022**, 599, 153890
- 463 Graphene-polyaniline nanocomposite based coatings: Role of convertible forms of polyaniline to mitigate steel corrosion. **2022**, 599, 153939
- 462 Fabrication of multilayer film with graphene oxide of different surface charge through electrospray deposition. **2022**, 599, 153977
- 461 Greener Design of Corn cob cellulose/Reduced Graphene Oxide-derivant Hierarchical Porous Aerogels for Efficient Dyes Adsorption.
- 460 The Effect of pH on Particle Size of Hydrothermally Reduced Graphene Oxide. **2022**, 65-72
- 459 Freestanding Vanadium Nitride Nanowire/Nitrogen-Doped Graphene Paper with Hierarchical Pore Structure for Asymmetric Supercapacitor Anode.

- 458 Graphene oxide: Synthesis and properties. **2022**, 31-64
- 457 Two-dimensional metal-organic layers constructed from Hf₆/Hf₁₂-oxo clusters and a trigonal pyramidal phosphine oxide ligand. 0
- 456 Tuning the bandgap and absorption behaviour of the newly-fabricated Ultrahigh Molecular weight Polyethylene Oxide- Polyvinyl Alcohol/ Graphene Oxide hybrid nanocomposites. **2022**, 30, 096739112211121 2
- 455 Electrical and Nanomechanical Properties of Pinewood Biocarbon Produced Through High-Temperature Pyrolysis.
- 454 Synthesis, characterization, and antioxidant activity study of a novel Pt-cyclopropa[60]fullerene complex/graphene oxide nanozyme. **2022**, 57, 11505-11522 2
- 453 Ag-MnxOy on Graphene Oxide Derivatives as Oxygen Reduction Reaction Catalyst in Alkaline Direct Ethanol Fuel Cells. **2022**, 12, 780 2
- 452 Structure and Property of Alkylated Graphene Oxide Depending on the Chain Length: Grand Canonical Monte Carlo-Molecular Dynamics Approach.
- 451 Graphene Oxide Nanoplatfoms to Enhance Cisplatin-Based Drug Delivery in Anticancer Therapy. **2022**, 12, 2372 0
- 450 Design of Cube-like MnO₂/r-GO Nanocomposite as a Superior Electrode Material for an Asymmetric Supercapacitor.
- 449 Enabling water-based processing of graphene/alumina composites using an infiltration approach with amphiphilic triblock copolymers. **2022**,
- 448 Simple and rapid eco-friendly synthesis of NiO/RGO nanocomposites using guava leaf extract and their physicochemical characterization. **2022**,
- 447 A Biodegradable Polymer-Based Plastic Chip Electrode as a Current Collector in Supercapacitor Application. **2022**, 3, 379-396
- 446 Application of Graphene and its Derivatives in Detecting Hazardous Substances in Food: A Comprehensive Review. 10,
- 445 Comparison of performance stability of different chemically reduced graphene oxide under long-term preservation.
- 444 A copper-based metal-organic framework/reduced graphene oxide-modified electrode for electrochemical detection of paraquat. **2022**, 189, 0
- 443 Graphene Synthesis: An Overview of Current Status. **2022**, 25-40
- 442 Electrically Conductive 2D Material Coatings for Flexible and Stretchable Electronics: A Comparative Review of Graphenes and MXenes. 2204772 3
- 441 Investigation of bi/reduced graphene oxide electro-catalyst for CO₂ reduction reaction. **2022**,

440	Platinum on Oxidized Graphene Sheets: A Bifunctional Electrocatalyst for Hydrogen Oxidation Reaction and Methanol Oxidation Reaction. 2022 , 11, 071009	0
439	Amide salt pyrolysis fabrication of graphene nanosheets with multi-excitation single color emission. 2022 ,	0
438	Research Progress on the Preparation and Applications of Laser-Induced Graphene Technology. 2022 , 12, 2336	2
437	The Application of Carbon Nanomaterials in Sensing, Imaging, Drug Delivery and Therapy for Gynecologic Cancers: An Overview. 2022 , 27, 4465	0
436	One step strategy for reduced graphene oxide/cobalt-iron oxide/polypyrrole nanocomposite preparation for high performance supercapacitor electrodes. 2022 , 140883	2
435	Electrochemical Synthesis and Characterization of Thermally Reduced Graphene Oxide: Influence of Thermal Annealing on Microstructural Features. 2022 , 103950	0
434	XPS study on ultrasonic nitridation of graphite using high-frequency (1.64 MHz) sound wave. 2022 , 127, 109197	0
433	Boosting the hydrophobicity and mechanical properties of fluoroalkylsilane hydrolyzed 3-glycidyoxypropyl/graphene oxide-based nanocomposite coating for enhanced corrosion resistance. 2022 , 756, 139373	0
432	Functionalized graphene nanosheets obtained by direct shear exfoliation with poly(ionic liquid)s and its PAA composite. 2022 , 127, 109202	0
431	Smart fire-warning materials and sensors: Design principle, performances, and applications. 2022 , 150, 100690	5
430	Designing a novel anti-corrosion metal-organic platform based on dual-action epoxy coating. 2022 , 170, 107007	0
429	Assembly of 2D-MoS ₂ with graphene layer for highly sensitive and selective gas detection at room temperature. 2022 , 367, 132185	0
428	Highly stable and permeable graphene oxide membrane modified by carbonylhydrazide for efficient dyes separation. 2022 , 298, 121586	3
427	Sonochemical synthesis of improved graphene oxide for enhanced adsorption of methylene blue. 2022 , 650, 129587	0
426	New insights into the structure and chemical reduction of graphene oxide membranes for use in isotopic water separations. 2022 , 659, 120785	0
425	Irradiated rGO electrode-based high-performance supercapacitors: Boosting effect of GO/rGO mixed nanosheets on electrochemical performance. 2022 , 328, 125298	4
424	Enhancement of bisphenol a removal from wastewater via the covalent functionalization of graphene oxide with short amine molecules. 2022 , 6, 100233	1
423	Revisit the adsorption of aromatic compounds on graphene oxide: Roles of oxidized debris. 2022 , 450, 137996	0

422	Electrodeposition of chitosan/graphene oxide conduit to enhance peripheral nerve regeneration. 2023 , 18, 207	0
421	Graphene-based porous nanohybrid architectures for adsorptive and photocatalytic abatement of volatile organic compounds. 2022 , 119805	1
420	Upcycling of cattle manure for simultaneous energy recovery and supercapacitor electrode production. 2022 , 124877	1
419	Facile strategy for the preparation of green graphene rubber with enhanced interfacial interaction and thermal management capability.	
418	Modifications of Epitaxial Graphene on SiC for the Electrochemical Detection and Identification of Heavy Metal Salts in Seawater. 2022 , 22, 5367	0
417	Metal supported graphene catalysis: A review on the benefits of nanoparticulate supported specialty sp ² carbon catalysts on enhancing the activities of multiple chemical transformations. 2022 , 100196	2
416	Optimization of electromagnetic shielding and mechanical properties of reduced graphene oxide/polyurethane composite foam.	
415	Doping effects on electronic structures and current-voltage characteristics of GR/InSe/GR selectors. 2022 , 32, 104060	
414	A Study on Reduced Graphene Oxide in Large-area Transparent Heaters for Defrosting. 2022 , 60, 570-576	0
413	Graphene-based wearable temperature sensors: A review. 2022 , 221, 110971	1
412	High performance hydrogel electrodes based on sodium alginate-g-poly(AM-co-ECA-co-AMPS) for supercapacitor application. 2022 , 218, 420-430	0
411	Breaking rate-limiting steps in a red mud-sewage sludge carbon catalyst activated peroxymonosulfate system: Effect of pyrolysis temperature. 2022 , 299, 121805	0
410	Smart paper electronics by laser-induced graphene for biodegradable real-time food spoilage monitoring. 2022 , 29, 101589	3
409	Soldering of copper using graphene-phosphoric acid gel. 2020 , 30, 60-67	0
408	A 3d Interconnected and Trilayered Mos ₂ /Mwcnts/Mos ₂ Cathode with Enlarged Interlayer Spacing for Aqueous Zinc-Ion Storage.	
407	Graphite and Graphene Nanoplatelets (GNP) Filled Polymer Matrix Nanocomposites. 2022 , 1-45	
406	Effect of Ultrasonic Treatment on the Functional Groups and Lateral Size of Graphene Oxide Flakes. 2022 , 17, 402-410	
405	PHOTOCATALYTIC DESTRUCTION OF ESCHERICHIA COLI IN WATER OVER rGO/TiO ₂ NANOCOMPOSITES. 2022 , 78-80	

- 404 Mechanism for selective binding of aromatic compounds on oxygen-rich graphene nanosheets based on molecule size/polarity matching. **2022**, 8, 0
- 403 A review of graphene-decorated LiFePO₄ cathode materials for lithium-ion batteries. 0
- 402 Preparation of sulfur-doped graphenes by Yucel's method and their corresponding polylactide-based nanocomposites. **2022**, 139,
- 401 Novel Photo- and Thermo-Responsive Nanocomposite Hydrogels Based on Functionalized rGO and Modified SIS/Chitosan Polymers for Localized Treatment of Malignant Cutaneous Melanoma. 10,
- 400 Preparation, Characterization and Properties of Ti₃C₂TX MXene Aerogel. **2022**, 228, 254-271 1
- 399 Concentrated Solar Induced Graphene. **2022**, 7, 27263-27271 1
- 398 Homogeneous Spatial Distribution of Deuterium Chemisorbed on Free-Standing Graphene. **2022**, 12, 2613 1
- 397 Fabrication of Binderless Electrodes via Non-destructive Electrochemical Oxidation/Reduction of Graphite Sheets using BF₄ Salts. **2022**, 141087 2
- 396 Conformational change-modulated spin transport at the single-molecule level in carbon systems. Invited for the Third Carbon Special Topic.
- 395 A small addition of reduced graphene oxide to protect fluorosilicone rubber from thermal oxidative degradation.
- 394 Selective Catalytic Electro-Oxidation of Water with Cobalt Oxide in Ion Impermeable Reduced Graphene Oxide Porous Electrodes. **2022**, 16, 12488-12499
- 393 Recent Progress on Graphene-Based Nanocomposites for Electrochemical Sodium-Ion Storage. **2022**, 12, 2837 1
- 392 Comparative study of adsorption performances of lead (II) ions on green synthesized graphene oxide and reduced graphene oxide: isotherm and thermodynamic studies.
- 391 A facile one-pot scalable production of super electromagnetic shielding conductive cotton fabric by hierarchical graphene-composites. **2022**, 57, 15451-15463 0
- 390 Carbon-Related Materials: Graphene and Carbon Nanotubes in Semiconductor Applications and Design. **2022**, 13, 1257 2
- 389 Electromagnetic interference shielding of thermally exfoliated graphene/polyurethane composite foams.
- 388 Flake Graphene as an Efficient Agent Governing Cellular Fate and Antimicrobial Properties of Fibrous Tissue Engineering Scaffolds. A Review. **2022**, 15, 5306
- 387 Making a wearable supercapacitor based on highly porous 3D nitrogen-doped graphene. 0

386	Excimer Laser Patterned Holey Graphene Oxide Films for Nonenzymatic Electrochemical Sensing. 2022 , 14, 37149-37160	1
385	A review of top-down and bottom-up synthesis methods for the production of graphene, graphene oxide and reduced graphene oxide. 2022 , 57, 14543-14578	1
384	Efficient and Stable Inverted Perovskite Solar Cells with Graphene Oxide-Modified Hole Transport Layer. 2200061	1
383	Conductive, self-cleaning, and short-circuit proof multi-functional graphene aerogel composite fibers.	
382	CO ₂ Laser Direct-Write Process for Micro-Gradient-Patterned Carbon Composed of Graphene-like and Disordered Carbon Forms for a Robust Anode-Free LiMetal Battery.	
381	Enhanced electrocatalytic activities of MoO ₃ / rGO nanocomposites for oxygen reduction reaction.	
380	Growth of CoFe ₂ O ₄ Nanoparticles on Graphite Sheets for High-Performance Electromagnetic Wave Absorption in Ku-Band.	0
379	Surface carboxylation of hydrophobic synthetic fibers for enhancing deposition of reduced graphene oxide to create highly conductive and bactericidal textiles. 1-11	
378	An electrochemical and magnetic approach for /H ₂ SO ₄ /HNO ₃ /chitosan functionalized multi-wall carbon nanotubes stable solutions.	
377	Hierarchical granular morphology of MoS ₂ -RGO nanocomposite for electrochemical sensing of ascorbic-acid.	0
376	One Pot Synthesis of Graphene through Microwave Assisted Liquid Exfoliation of Graphite in Different Solvents. 2022 , 27, 5027	3
375	Core-Shell Se-Doped TiO ₂ @Carbon Nanotubes for High-Performance Sodium-Ion Batteries. 2201140	1
374	CuO@Fe ₂ O ₃ nanoparticles embedded onto reduced graphene oxide nanosheets: a high-performance nanocomposite anode for Li-ion battery.	
373	Conversion of Carbon Dioxide into Chemical Vapor Deposited Graphene with Controllable Number of Layers via Hydrogen Plasma Pre-Treatment. 2022 , 12, 796	
372	A Beam Steered Graphene-Based Yagi-Uda Array Antenna with Transverse Magnetic to Hybrid Mode Conversion Approach.	
371	Defect seeded remote epitaxy of GaAs films on graphene.	
370	Tuning Electro-Magnetic Interference Shielding Efficiency of Customized Polyurethane Composite Foams Taking Advantage of rGO/Fe ₃ O ₄ Hybrid Nanocomposites. 2022 , 12, 2805	1
369	Hierarchic porous graphite/reduced graphene oxide composites generated from semi-coke as high-performance anodes for lithium-ion batteries. 2022 , 33, e00476	1

- 368 Polydimethylsiloxane as protecting layer to improve the quality of patterns on graphene oxide. **2022**, 204, 111353
- 367 Graphene-based electrode materials used for some pesticide detection in food samples: A review. **2022**, 144, 109891 1
- 366 Multifunctional graphene oxide nanoparticles for drug delivery in cancer. **2022**, 350, 26-59 4
- 365 Laser surface modification on rGO/ZnO composite materials for NO₂ gas sensing. **2022**, 290, 126551 0
- 364 Reduction time effect on the dielectric characteristics of reduced-graphene-oxide-encapsulated barium titanate powder fillers. **2022**, 199, 23-32
- 363 Facile synthesis of amine-functionalized three-dimensional graphene composites for CO₂ capture. **2022**, 33, 102256
- 362 Reduced graphene oxide as an adhesion enhancer of fusion-bonded epoxy coatings. **2022**, 171, 107057
- 361 Recent developments in graphene and graphene oxide materials for polymer electrolyte membrane fuel cells applications. **2022**, 168, 112836 4
- 360 Hydrophobic RuO₂/Graphene/N-doped porous carbon hybrid catalyst for Li-air batteries operating in ambient air. **2022**, 428, 140894 0
- 359 Continuous graphene oxide nanolayer arranged on hydrophilic modified polytetrafluoroethylene substrate to construct high performance proton exchange membranes. **2022**, 661, 120838
- 358 Synthesis of graphene oxide using boric acid in hummers method. **2022**, 652, 129802 2
- 357 Suppression of secondary electron emission on oxygen-free copper surface of reduced graphene oxide coatings prepared by electrophoretic deposition. **2022**, 603, 154490 0
- 356 Alcohol addition improves the liquid-phase plasma process for Green reduction of graphene oxide. **2022**, 205, 111373 0
- 355 Electrodeposition-based fabrication of graphene/copper composites with excellent overall properties. **2022**, 924, 166610 1
- 354 Molecular insights into the catalytic oxidation of methanol-to-olefins wastewater with phosphoric acid modified sludge biochar. **2022**, 307, 135938
- 353 Catalyst-free growth of single- to few-layered graphene and carbon nanotubes on an ionic liquid surface. **2022**, 653, 130025
- 352 Calcination temperature regulates non-radical pathways of peroxymonosulfate activation via carbon catalysts doped by iron and nitrogen. **2023**, 451, 138468 1
- 351 A convenient, low-cost graphene UV-cured additive manufacturing electronic process to achieve flexible sensors. **2023**, 451, 138521 1

- 350 Engineering oxygen functional groups in reduced graphene oxide for use in high-performance flexible supercapacitors. 0
- 349 Intercalation-assisted massive phase transformation: The key to SHS synthesis?. 0
- 348 Jamming carbonaceous nanofiller in the continuous phase and at the blend interface for phenomenal improvement in the overall physico-mechanical properties of compatibilized thermoplastic elastomer. **2022**, 257, 125261 1
- 347 Flexible and novel counter electrode from graphene/Zn Al layered double hydroxide nanocomposite in dye sensitized solar cells. **2022**, 922, 116736 0
- 346 Shear exfoliated few-layer graphene and cellulose nanocrystal composite as biocompatible anode with efficient charge transfer. **2022**, 9, 100210 1
- 345 Facile hydrothermal synthesis of cerium oxide/rGO nanocomposite for photocatalytic and supercapacitor applications. **2022**, 11, 100307 3
- 344 Crumpled graphene epoxy nanocomposites modified with polydopamine for advanced semiconductor packaging applications. **2022**, 230, 109709 0
- 343 Development of ternary Pd-Co-Ir metal nanoparticles decorated on graphene-CNTs hybrid support: An efficient electrocatalyst for hydrogen production from methanol reformation. **2022**, 432, 141229 0
- 342 One-pot electrochemical synthesis of ultrathin trimetallic Mn-Sn-Co oxide coral-like nanostructure as free-standing active electrode material for energy storage applications. **2022**, 55, 105547 0
- 341 Graphene oxide: A mini-review on the versatility and challenges as a membrane material for solvent-based separation. **2022**, 12, 100392 1
- 340 Micro/nano-encapsulated phase-change materials (ePCMs) for solar photothermal absorption and storage: Fundamentals, recent advances, and future directions. **2022**, 93, 101037 1
- 339 Tuning the tribological performance of plasma-treated hybrid layers of PEEK-GO-DLC. **2022**, 176, 107915 0
- 338 Eco-friendly sonochemical reduction of graphene oxide in water using TiO₂ photocatalyst activated by sonoluminescence. **2022**, 605, 154820 0
- 337 Nanotubes tethered laccase biosensor for sensing of chlorophenol substances. **2023**, 331-356 0
- 336 CHAPTER 5. Printable Inorganic Materials for Printed Electronics. **2022**, 103-192 0
- 335 Chemical properties of graphene. **2022**, 43-67 0
- 334 Recent progress of sub-1 nm nanomaterials: synthesis, polymer-analogue properties and applications in redox catalysis. 0
- 333 Emerging graphene derivatives as active 2D coordination platforms for single-atom catalysts. **2022**, 14, 13490-13499 1

- 332 Uniform BiBi₂O₃ nanoparticles/reduced graphene oxide composites for high-performance aqueous alkaline batteries. **2022**, 51, 12114-12124 ○
- 331 A Two-Step Process for Reduced Graphene Oxide Films With Work Function Tunability. **2022**, 21, 481-488 ○
- 330 Incorporation of Al₂O₃, GO, and Al₂O₃@GO nanoparticles into water-borne epoxy coatings: abrasion and corrosion resistance. **2022**, 12, 24804-24820 ○
- 329 Influence of the Reducing Agent on the Physicochemical and Electrocatalytic Properties of Graphene-Based Aerogels. ○
- 328 NMR studies of 2D and pseudo-2D systems. **2022**, ○
- 327 Biodegradation of Carbon Nanotubes. **2022**, 1-34 ○
- 326 The carbon chain growth during the onset of CVD graphene formation on Al₂O₃ is promoted by unsaturated CH₂ ends. **2022**, 24, 23357-23366 ○
- 325 A CdS/rGO QDs/TiO₂ nanolawn photoanode co-decorated by reduced graphene oxide quantum dots and CdS nanoparticles with photoinduced cathodic protection characteristic for 316L SS and Cu. ○
- 324 Graphene Oxide-Based Advanced Nanomaterials for Environmental Remediation Applications. **2022**, 155-190 ○
- 323 Flexible nano-cloth-like Ag cluster@rGO with ultrahigh SERS sensitivity for capture-optimization-detection due to effective molecule-substrate interactions. **2022**, 14, 12313-12321 ○
- 322 Modification of C.I. Pigment Red 146 with surfactants and graphene oxide. **2022**, 12, 21859-21865 ○
- 321 Staggered Nickel/Vanadium Layered Double Hydroxide Nanosheets on Reduced Graphene Oxide Via In-Situ Growth for Enhanced Supercapacitor Performance. ○
- 320 Preparation of Coal-Based SiO₂/GO-Loaded Ag Nanoparticle Composite Photocatalysts for Photocatalysis Nitrogen Fixation to Ammonia. ○
- 319 Reduced Graphene Oxide/Carbon Paper for the Anode Diffusion Layer of a Micro Direct Methanol Fuel Cell. **2022**, 12, 2941 ○
- 318 A Review on the Progress and Future of TiO₂/Graphene Photocatalysts. **2022**, 15, 6248 ○
- 317 Evolution of Heterogeneity and Chemical Functionality during the Oxidation of Graphite. **2022**, 6, 44 ○
- 316 Steering the Topological Defects in Amorphous Laser-Induced Graphene for Direct Nitrate-to-Ammonia Electroreduction. **2022**, 12, 11639-11650 1
- 315 Graphene Chemo-Phononics for Biosensor Applications: An Interfacial Raman Transducer. 2200773 ○

- 314 Covalently Functionalized Graphene for Black Liquor Concentration Membranes. 0
- 313 Review Heteroatom-Doped High Porous Carbon Metal Free Nanomaterials for Energy Storage and Conversion. **2022**, 11, 091006 0
- 312 Physiochemically Distinct Surface Properties of SU-8 Polymer Modulate Bacterial Cell-Surface Holdfast and Colonization. 0
- 311 Fabrication of Conductive Tissue Engineering Nanocomposite Films Based on Chitosan and Surfactant-Stabilized Graphene Dispersions. **2022**, 14, 3792 0
- 310 PrMem: Novel flexible biodegradable paper-graphene oxide-based memristor. 0
- 309 Artificial Intelligence-Aided Low Cost and Flexible Graphene Oxide-Based Paper Sensor for Ultraviolet and Sunlight Monitoring. **2022**, 17, 0
- 308 Realizing the Application Potential of Graphene-Modified Bionanocomposites for Prosthesis and Implant Applications. **2023**, 323-336 0
- 307 Revealing Nanodomain Structures of Bottom-Up-Fabricated Graphene-Embedded Silicon Oxycarbide Ceramics. **2022**, 14, 3675 1
- 306 Sponge-Supported Reduced Graphene Oxides Enable Synergetic Photothermal and Electrothermal Conversion for Water Purification Coupling Hydrogen Peroxide Production. 2200767 0
- 305 Solvent-free Pechmann synthesis of coumarins catalyzed by magnetic heterogeneous catalyst Fe₃O₄@rGO-NH. 0
- 304 Activated Carbon Nano-Particles from Recycled Polymers Waste as a Novel Nano-Additive to Grease Lubrication. **2022**, 10, 214 0
- 303 Direct Thermochemical CO₂ Reduction to Reduced Graphene Oxide-like Nanomaterials: Implications for Environmental and Energy Storage and Conversion Applications. 0
- 302 Chitosan/Gelatin Films: Plasticizers/Nanofillers Affect Chain Interactions and Material Properties in Different Ways. **2022**, 14, 3797 0
- 301 Optical Biosensor Based on Graphene and Its Derivatives for Detecting Biomolecules. **2022**, 23, 10838 3
- 300 Polyethylene Glycol-decorated GO Nanosheets as a Well-Organized Nanohybrid to Enhance the Performance of Chitosan Biopolymer. 1
- 299 Synthesis of Ni₂P/Ni₅P₄ on porous N decorated rGO foam for efficiently electrocatalytic hydrogen evolution reaction. **2022**, 0
- 298 Synthesis of Graphene-Based Nanocomposites for Environmental Remediation Applications: A Review. **2022**, 27, 6433 2
- 297 From crumple conformation to gel configuration of reduced graphene oxide: The cation induction engineering. **2022**, 0

296	1-aza-18-crown-6 ether tailored graphene oxide for Cs(I) removal from wastewater. 2022,	0
295	Co/Zn-metal organic frameworks derived functional matrix for highly active amorphous Se stabilization and advanced lithium storage.	0
294	Cost effective production of high quality multilayer graphene in molten Sn bubble column by using CH ₄ as carbon source. 2022, 167495	1
293	A two-step chemical-hydrothermal reduction method to prepare reduced graphene oxide with high electrical conductivity. 2022, 109437	0
292	Few layer graphene nanosheets from kinnow peel waste for high-performance supercapacitors: A comparative study with three different electrolytes. 2022, 55, 105729	1
291	A new double signal on electrochemical aptasensor based on gold nanoparticles/graphene nanoribbons/MOF-808 as enhancing nanocomposite for ultrasensitive and selective detection of carbendazim. 2022, 8, 100086	1
290	Optical properties of reduced graphene oxide sheets. 209-218	0
289	Study on the fabrication of graphene nanoplatelets material for applied orientation in environmental treatment. 2021, 50,	0
288	Recent major advances and challenges in the emerging Graphene based nanomaterials in electrocatalytic Fuel Cell technology.	0
287	Functional groups in graphene oxide.	2
286	Ultrahigh thermoelectric performance of Janus TeTe_2 and SeTe_2 monolayers.	0
285	Graphene Oxide and Nucleic Acids. 2022, 1-31	0
284	Cluster-derived TiO ₂ nanocrystals with multiple carbon coupling for interfacial pseudo-capacitive lithium storage.	0
283	Recent Advances in Modeling and Experimental Prediction of Properties of Graphene Reinforced Natural Rubber Composites: A Review (Part 1). 2022,	0
282	Porous perovskite CaMnO ₃ /rGO hybrid as an efficient electrocatalyst in lithium-oxygen batteries.	0
281	Humidity Sensor Element Based on Porous Silicon-Graphene Nanosystem. 2022, 20,	0
280	Interfacial bonding characteristics of in situ synthesized graphene-coated copper nanocomposite powders using wheat flour precursor.	0
279	Ultrahigh Mechanical Strength and Robust Room-Temperature Self-Healing Properties of a Polyurethane-Graphene Oxide Network Resulting from Multiple Dynamic Bonds. 2022, 16, 16724-16735	5

- 278 A review on recent advancements on removal of harmful metal/metal ions using graphene oxide: Experimental and theoretical approaches. **2022**, 159672 0
- 277 Electrophoretic Deposition of Graphene Oxide and Reduced Graphene Oxide on the Rutile Phase of TiO₂ Nanowires for Rapid Reduction of Cr (VI) under Simulated Sunlight Irradiation. **2022**, 12, 1282 0
- 276 Eco-Friendly Approach for Graphene Oxide Synthesis by Modified Hummers Method. **2022**, 15, 7228 2
- 275 Tailoring functional properties of graphene oxide by defect-assisted surface and interface modifications. 0
- 274 Effect of Low-Temperature Plasma Treatment on Starch-Based Biochar and Its Reinforcement for Three-Dimensional Printed Polypropylene Biocomposites. 0
- 273 Enhancing the hydrogen permeation of alumina composite porous membranes via graphene oxide addition. **2022**, 0
- 272 Three component synthesis of triazolo[1,2-a]indazole-trione and spiro triazolo[1,2-a]indazole-tetraones using GO/SiO₂/Co (II). **2022**, 12, 0
- 271 Improved Forward Osmosis Performance of Thin Film Composite Membranes with Graphene Quantum Dots Derived from Eucalyptus Tree Leaves. **2022**, 12, 3519 0
- 270 Green synthesis of graphene-based metal nanocomposite for electro and photocatalytic activity; recent advancement and future prospective. **2022**, 136982 3
- 269 Novel Co-Catalytic Activities of Solid and Liquid Phase Catalysts in High-Rate Li-Air Batteries. 2201616 0
- 268 Coupled GO/MWCNT Composite Ink for Enhanced Dispersibility and Synthesis of Screen-Printing Electrodes. 0
- 267 Poly(vinyl alcohol)-Assisted Exfoliation of van der Waals Materials. **2022**, 7, 38774-38781 0
- 266 Partial reduction of graphene oxide toward the facile fabrication of desalination membrane. 0
- 265 Wall Latex Paint with Graphene Oxide Incorporation. **2022**, 12, 1652 0
- 264 Graphene-Binding Peptide in Fusion with SARS-CoV-2 Antigen for Electrochemical Immunosensor Construction. **2022**, 12, 885 2
- 263 Review on the preparation of high value-added carbon materials from biomass. **2022**, 168, 105747 2
- 262 Reduced Graphene Oxide Nanoplatelets Functionalized with Nonpolar Aliphatic Groups for High-Performance Coatings against Corrosion. 1
- 261 Graphene-Based Metal-Organic Framework Hybrids for Applications in Catalysis, Environmental, and Energy Technologies. 5

- 260 Single-phase Mn-Fe Interfacial Oxides Nanocomposites Encored on Carbon Nitride Sheets Exhibited Enhance Performance for Electrocatalytic Oxygen Reduction Reactions. **2022**, 116942 ○
- 259 Optimization of electrical performance and stability of fully solution-driven InGaZnO thin-film transistors by graphene quantum dots. **2022**, ○
- 258 Influence of GGBFS on corrosion resistance of cementitious composites containing graphene and graphene oxide. **2022**, 104836 ○
- 257 Influence of the reducing agent on the physicochemical and electrocatalytic properties of graphene-based aerogels. **2022**, 36, 100435 ○
- 256 3D N-doped graphene aerogel sponge-loaded CoS₂ co-catalytic Fenton system for ciprofloxacin degradation. **2022**, 135008 ○
- 255 Fast and simple preparation of a sensor based on electrochemically reduced graphene oxide (rGO) for the determination of zopiclone in pharmaceutical dosage by square wave adsorptive stripping voltammetry (SWAdSV). ○
- 254 Freestanding Vanadium Nitride Nanowire/Nitrogen-doped Graphene Paper with Hierarchical Pore Structure for Asymmetric Supercapacitor Anode. **2022**, 167858 ○
- 253 Water-based chitosan/reduced graphene oxide ink for extrusion printing of a disposable amperometric glucose sensor a. **2022**, 100443 ○
- 252 Cyclohexanone-assisted one-step ball-milling of graphite to graphene composites as cathodes for lithium-ion batteries. **2022**, 436, 141449 ○
- 251 Tailoring surface electronic properties of GO-TiO₂ hybrid nanostructures through interface modifications. **2023**, 609, 155398 ○
- 250 Engineering a hierarchical carbon supported magnetite nanoparticles composite from metal organic framework and graphene oxide for lithium-ion storage. **2023**, 630, 86-98 ○
- 249 Chemically reduced graphene oxide/chitosan hybrid; a nanoscale Fabric Starch **2023**, 609, 155229 ○
- 248 Thermal-needle-triggered cascade reduction of graphene oxide for controllable moving trajectory into conductive patterns. ○
- 247 Development of polybenzimidazole modification with open-edges/porous-reduced graphene oxide composite membranes for excellent stability and improved PEM fuel cell performance. **2023**, 294, 126994 ○
- 246 Silk fibroin-coated polyamide thin-film composite membranes with anti-scaling properties. **2023**, 546, 116195 ○
- 245 Activating the pseudocapacitance of multiple-doped carbon foam via long-term charge-discharge circulation. **2023**, 265, 118232 ○
- 244 Synchronizing charge-carrier capacity and interfacial morphology of green rGO modified ZnO and TiO₂ heterojunctions and study of their photocatalytic behaviour towards UV and visible light active drug and dye. **2023**, 287, 116094 ○
- 243 Green reduction of graphene oxide as a substitute of acidic reducing agents for supercapacitor applications. **2023**, 287, 116128 2

- 242 Recent research progress of carbon-based and their composites for electromagnetic waves absorption. 004051752211362 ○
- 241 Flexible graphene oxide/polyacrylonitrile composite films with efficient ultraviolet shielding and high transparency for the protection of paper-based artifacts. **2022**, ○
- 240 Highly stretchable strain sensors with improved sensitivity enabled by a hybrid of carbon nanotube and graphene. **2022**, 10, ○
- 239 The Role of Oxidation Pattern and Water Content in the Spatial Arrangement and Dynamics of Oxidized Graphene-Based Aqueous Dispersions. **2022**, 23, 13459 ○
- 238 Synthesis of silver-decorated nanocomposite based on reduced graphene oxide and its electrochemical performance. 1-11 2
- 237 Reduced graphene oxide-based nanometal-composite containing copper and silver nanoparticles protect tomato and pepper against *Xanthomonas euvesicatoria* infection. **2022**, 9, ○
- 236 Facile Synthesis and Optimization of CrOOH/rGO-Based Electrode Material for a Highly Efficient Supercapacitor Device. ○
- 235 Graphene oxide-based platforms for wound dressings and drug delivery systems: A 10 year overview. **2022**, 103992 1
- 234 Facile Synthesis of Hafnium Oxide Nanoparticle Decorated on Graphene Nanosheet and Its Photocatalytic Degradation of Organic Pollutants under UV-Light Irradiation. **2022**, 12, 11222 ○
- 233 Structural, optical and electrochemical properties of banana, mango leaves and potato extracts reduced graphene oxide. **2022**, 45, ○
- 232 Preparation and Tribological Properties of a Multilayer Graphene-Reinforced TiO₂ Composite Nanolubricant Additive. ○
- 231 The Influence of Lateral Size and Oxidation of Graphene Oxide on Its Chemical Reduction and Electrical Conductivity of Reduced Graphene Oxide. **2022**, 27, 7840 ○
- 230 Stacking order reduction in multilayer graphene by inserting nanopacers. **2022**, 132, 174305 ○
- 229 Acupuncture Needle-Based Transistor Neuroprobe for In Vivo Monitoring of Neurotransmitter. 2204142 ○
- 228 Staggered nickel/manganese layered double hydroxide nanosheets on reduced graphene oxide via in-situ growth for enhanced supercapacitor performance. **2022**, 168048 ○
- 227 Recent Development of Nano-Carbon Material in Pharmaceutical Application: A Review. **2022**, 27, 7578 1
- 226 Synchronously constructing networked Si₃N₄ nanowires and interconnected graphene inside carbon fiber composites for enhancing mechanical, friction and anti-ablation properties. **2022**, ○
- 225 Nanostructured Graphene Oxide-Based Catalysts for Fischer-Tropsch Synthesis. **2022**, 275-289 ○

224	Investigation of optical and structural properties of synthesized graphene oxide and thermally reduced graphene oxide. 2022 ,	0
223	Photocatalytic Hydrogen Production Using Porous 3D Graphene-Based Aerogels Supporting Pt/TiO ₂ Nanoparticles. 2022 , 8, 719	0
222	Novel graphene oxide derivatives and its effect in broad-band reflectors. 1-9	0
221	Tribological behavior of WC-Al ₂ O ₃ -graphene composite at different temperatures. 1-22	0
220	Efficient capture of airborne PM by membranes based on holey reduced graphene oxide nanosheets. 2022 , 10, 108979	0
219	Deposition of Ni/RGO nanocomposite on conductive cotton fabric as non-enzymatic wearable electrode for electrochemical sensing of uric acid in sweat. 2022 , 130, 109518	2
218	Reduction of graphene oxide by in-situ heating experiments in the transmission electron microscope. 2022 , 35, 102448	0
217	Study on Removal of Methylene Blue by Condensation Self-Assembled Graphene Oxide/Thiourea Composite Adsorbent. 2022 , 14, 15290	1
216	Revisiting the two-dimensional structure and reduction process of graphene oxide with in-plane X-ray diffraction. 2023 , 202, 26-35	0
215	Influence of Nanostructuring Sensors Based on Graphene Oxide and PEDOT:PSS for Methanol Detection. 2022 , 1-1	0
214	Theoretical investigations of functionalization of graphene and ZnO monolayers with mercaptopurine at aqueous media: A dispersion-corrected DFT calculations and molecular dynamic simulations. 2023 , 369, 120865	1
213	High-performance PbS/CdS quantum dot Co-sensitized hierarchical ZnO nanowall photoanodes decorated on electrochemically reduced graphene. 2023 , 438, 141584	0
212	Investigating the critical transitional temperature increase in graphene oxide doped bulk YBCO. 2023 , 44, 106140	1
211	Influence of graphene oxide on the bile salts- β gand interaction: a spectroscopy study.	0
210	Single-arm diagnostic electrocardiography with printed graphene on wearable textiles. 2023 , 349, 114058	0
209	Iron nanoparticles encapsulated in boron-nitrogen Co-doped carbon nanotubes biomimetic enzyme for electrochemical monitoring of dopamine and uric acid in human serum. 2023 , 185, 108184	0
208	Thermo-Viscoelastic residual stress behavior of fluorinated polyimide based on fluid Instability-Driven shear exfoliated graphenic nanosheet. 2023 , 455, 140888	0
207	Crumpled graphene oxide for enhanced room temperature gas sensing: understanding the critical roles of surface morphology and functionalization. 2022 , 11, 447-459	0

- 206 Crystalline multilayer graphene nanoflakes synthesized by catalytic chemical vapor deposition using reduced nanostructured hematite as catalyst precursor and 1,2-dichlorobenzene and benzylamine mixture as carbon source. **2023**, 203, 813-826 ○
- 205 Strategically improving electrical conductivity of reduced graphene oxide through a series of reduction processes. **2023**, 333, 133648 ○
- 204 Designing high efficiency graphite felt electrode via HNO₃ vapor activation towards stable vanadium redox flow battery. **2023**, 440, 141728 ○
- 203 Recent advances in graphene-derived materials for biomedical waste treatment. **2023**, 51, 103440 ○
- 202 Synthesis of porphyrinic metal-organic framework/rGO nanocomposite for electrochemical recognition of copper ions in water. **2023**, 985, 122597 ○
- 201 Synthesis techniques and advances in sensing applications of reduced graphene oxide (rGO) Composites: A review. **2023**, 165, 107373 1
- 200 Effect of CeVO₄/Al₂O₃/rGO nanocomposite on rheological properties and thermal conductivity of water-based drilling fluid. **2023**, 221, 111312 ○
- 199 Wearable nonwoven fabric decorated with Fe₃O₄/rGO/PANI/Ni-P for efficient electromagnetic interference shielding. **2023**, 938, 168454 ○
- 198 Oxygen dissociation on the C₃N monolayer: A first-principles study. **2023**, 613, 155912 ○
- 197 Aluminum as a bi-functional reducing agent for the fabrication of graphene encapsulated silicon microspheres as anodes for high-performance lithium-ion batteries. **2023**, 936, 168205 ○
- 196 Ce-modified CoMn oxide spinel on reduced graphene oxide and carbon black as ethanol tolerant oxygen reduction electrocatalyst in alkaline media. **2022**, 12, 35966-35976 1
- 195 Total exfoliation of graphite in molten salts. ○
- 194 Study of solid carbon source-based graphene growth directly on SiO₂ substrate with Cu or Cu/Ni as the sacrificial catalysts. ○
- 193 Enabling direct H₂O₂ electrosynthesis of 100% selectivity at 100 mA cm⁻² using a continuous flow sulfite/air fuel cell. **2022**, 140695 ○
- 192 Facilely preparing lignin-derived graphene-ferroferric oxide nanocomposites by flash Joule heating method. ○
- 191 Electrochemical exfoliation and characterizations of low-defect, large-scale thermally reduced graphene oxide via pencil core. ○
- 190 Superior HER Activity of rGO@AuNRs@SAC-Pt Promoted by Maximized Electronic Interaction and Plasmonic Hot Carriers. **2022**, 126, 20235-20242 ○
- 189 Antibacterial studies of Ag@HPEI@GO nanocomposites and their effects on fouling and dye rejection in PES UF membranes. **2022**, 8, e11825 ○

- 188 Tunable 0D/2D/2D Nanocomposite Based on Green Zn-Doped CuInS₂ Quantum Dots and MoS₂/rGO as Photoelectrodes for Solar Hydrogen Production. **2022**, 14, 54790-54802 ○
- 187 Progress in Graphene and Magic-angle Graphene Superlattice in the Aspect of Superconductivity. 21, 306-310 ○
- 186 Facile design of flexible Pd nanoclusters sensitized reduced graphene oxide paper film towards hydrogen sensing. **2022**, ○
- 185 Conductive Textiles for Signal Sensing and Technical Applications. **2023**, 4, 1-39 ○
- 184 Design of a facile, green and efficient graphene oxide-based electrochemical sensor for analysis of acetaminophen drug. 1
- 183 Advanced Biomimetic Soybean Meal-Based Adhesive with High Strength and Toughness. **2022**, 10, 17355-17368
- 182 Synthesis and Characterization of Hybrid Materials Derived from Conjugated Copolymers and Reduced Graphene Oxide. **2022**, 14, 5292 ○
- 181 A Simple, Sensitive, and Selective Electrochemical Aptasensor for Cortisol based on rGO-AuNPs. ○
- 180 Tribological behavior of graphene oxide filled melt-processable polytetrafluoroethylene/perfluoroethylene-propylene copolymer blends. **2023**, 30, ○
- 179 Direct Conversion of Liquid Organic Precursor into 3D Laser-induced Graphene Materials. 2209545 ○
- 178 Viscosity-Controllable Graphene Oxide Colloids Using Electrophoretically Deposited Graphene Oxide Sheets. **2022**, 13, 2157 ○
- 177 Corrosion response and biocompatibility of graphene oxide (GO) serotonin (Ser) coatings on Ti6Al7Nb and Ti29Nb13Ta4.6Zr (TNTZ) alloys fabricated by electrophoretic deposition (EPD). **2022**, 105236 ○
- 176 Fabrication of waste paper/graphene oxide three-dimensional aerogel with dual adsorption capacity toward methylene blue and ciprofloxacin. ○
- 175 Assessing the Food Quality Using Carbon Nanomaterial Based Electrodes by Voltammetric Techniques. **2022**, 12, 1173 1
- 174 Study of Molecular-Level Dispersion of Pristine Graphene in Aqueous Media via Polyvinyl Alcohol Coil Physisorption. **2022**, 38, 16046-16054 1
- 173 A 3D Framework with Li₃Ni₂S Solid Electrolyte Interphase and Fast Ion Transfer Channels for a Stabilized Lithium-Metal Anode. 2209028 ○
- 172 PVA-Based Nanofibers Containing Chitosan Modified with Graphene Oxide and Carbon Quantum Dot-Doped TiO₂ Enhance Wound Healing in a Rat Model. **2022**, 13, 300 ○
- 171 Compressive Failure of Polymer Composites Based on Graphene-Coated Particles. ○

- 170 Preparation, properties, applications and outlook of graphene-based materials in biomedical field: a comprehensive review. 1-36 ○
- 169 Plasma Electrochemical Synthesis of Graphene-Phosphorene Composite and Its Catalytic Activity towards Hydrogen Evolution Reaction. **2022**, 8, 79 ○
- 168 A Comprehensive Review on Graphene-based Materials as Biosensors for Cancer Detection. 1
- 167 Review of Inorganic Hole Transport Materials for Perovskite Solar Cells. ○
- 166 Mildly reduced graphene oxide membranes for water purification applications. **2022**, 3, 045003 ○
- 165 Atomistic approach for predicting mechanical properties and creep behavior of graphene reinforced natural rubber composites. **2023**, 98, 015714 ○
- 164 Preparation, characterization, and biological assessment of functionalized reduced graphene oxide/silver nanocomposite. ○
- 163 Effects of underlayer on reduction of graphene oxide through atomic hydrogen annealing and soft X-ray irradiation. ○
- 162 Aramid Nanofibers/Reduced Graphene Oxide Composite Electrodes with High Mechanical Properties. **2023**, 13, 103 ○
- 161 Biomass-derived carbon fibers modified by Ag/rGO for high-performance Li metal composite anode. **2023**, 34, ○
- 160 Constructing central hollow cylindrical reduced graphene oxide foams with vertically and radially orientated porous channels for highly efficient solar-driven water evaporation and purification. ○
- 159 Conductive double-network hydrogel composed of sodium alginate, Polyacrylamide, and reduced graphene oxide. ○
- 158 Copolymerized carbon nitride nanoparticles for near-infrared II photoacoustic-guided synergistic photothermal/radiotherapy. 11, ○
- 157 Recent insights into BCN nanomaterials synthesis, properties and applications. ○
- 156 Designing a dual barrier-self-healable functional epoxy nano-composite using 2D-carbon based nano-flakes functionalized with active corrosion inhibitors. **2023**, 22, 2746-2767 ○
- 155 Sulfonated polythiophene-interfaced graphene for water-redispersible graphene powder with high conductivity and electrocatalytic activity. ○
- 154 Graphene memristors based on humidity-mediated reduction of graphene oxide. ○
- 153 Facile Green Preparation of Reduced Graphene Oxide Using Citrus Limetta-Decorated rGO/TiO₂ Nanostructures for Glucose Sensing. **2023**, 12, 294 ○

- 152 Optical and Electrical Properties of Low-Dimensional Crystalline Materials: A Review. **2023**, 13, 108 ○
- 151 Surface functionalization of carbon materials. **2023**, ○
- 150 The Removal Efficiency of Cadmium (Cd²⁺) and Lead (Pb²⁺) from Aqueous Solution by Graphene Oxide (GO) and Magnetic Graphene Oxide (Fe₂O₃/GO). ○
- 149 Synthesis of reduced graphene oxide quantum dots from graphene oxide via hydrothermal process and their structural, luminescence and magnetic properties. **2023**, 104667 ○
- 148 Graphene-Based Derivatives Heterostructured Catalytic Systems for Sustainable Hydrogen Energy via Overall Water Splitting. **2023**, 13, 109 2
- 147 Preparation of Carbon Dots@r-GO Nanocomposite with an Enhanced Pseudo-Capacitance. **2023**, 28, 541 ○
- 146 Flexible Electrospun PVDF Piezoelectric Nanogenerators with Electro spray-Deposited Graphene Electrodes. ○
- 145 An Analytical Investigation on the Nonlinear Vibration Behavior of a New Hybrid Laminated Nanocomposite Cylindrical Shell Resting on the Three-Parameter Nonlinear Substrate. ○
- 144 Shape Selective Comprehensive Gas Sensing Study of Different Morphological Manganese-Cobalt Oxide based Nanocomposite as Potential Room Temperature Hydrogen Gas Sensor. **2023**, 133348 1
- 143 Efficient One-Pot Solvothermal Synthesis and Characterization of Zirconia Nanoparticle-Decorated Reduced Graphene Oxide Nanocomposites: Evaluation of Their Enhanced Anticancer Activity toward Human Cancer Cell Lines. **2023**, 8, 2406-2420 ○
- 142 Graphene oxide microstructure control of electro sprayed thin films. **2023**, 13, 781-789 ○
- 141 MnFe₂O₄/ rGO/Diatomite composites with excellent wideband, electromagnetic microwave absorption. **2023**, 168851 ○
- 140 Bamboo shoot extract as a novel and efficient reducing agent for graphene oxide and its supercapacitor application. **2023**, 34, ○
- 139 Study of the synergistic influence of zwitterionic interactions and graphene oxide on water diffusion mechanism and mechanical properties in hybrid hydrogel network. **2023**, 314, 137710 ○
- 138 The mechanism insight for improved photocatalysis and interfacial charges transfer of surface-dispersed Ag₀ modified layered graphite-phase carbon nitride nanosheets. **2023**, 34, 103936 ○
- 137 Green synthesis of reduced graphene oxide/chitosan/gold nanoparticles composites and their catalytic activity for reduction of 4-nitrophenol. **2023**, 229, 732-745 ○
- 136 Efficient hydrogen evolution reaction performance using lignin-assisted chestnut shell carbon-loaded molybdenum disulfide. **2023**, 193, 116214 ○
- 135 Self-assembled zinc oxide nanocauliflower and reduced graphene oxide nickel-foam based novel asymmetric supercapacitor for energy storage applications. **2023**, 34, 105362 ○

- 134 Evaluation of Biological Pretreatment of Wormwood Rod Reies with White Rot Fungi for Preparation of Porous Carbon. **2023**, 9, 43 ○
- 133 PEDOT:PSS-Doped Graphene Oxide as an Alternative to Hole Transport Material and Transparent Conducting Electrode. ○
- 132 Promising Nitrogen-Doped Graphene Derivatives; A Case Study for Preparations, Fabrication Mechanisms, and Applications in Perovskite Solar Cells. **2023**, 381, ○
- 131 Thermal degradation of organic/inorganic hybrid materials. **2023**, 227-249 ○
- 130 A 3D Lithiophilic ZIF-8@RGO Free-standing Scaffold with Dendrite-free Behavior Enabling High-performance Li Metal Batteries. ○
- 129 Carbon-based smart nanomaterials. **2023**, 3-24 ○
- 128 A hybrid PEMFC/supercapacitor device with high energy and power densities based on reduced graphene oxide/Nafion/Pt electrode. **2023**, ○
- 127 An Ultrafast, High-Loading, and Durable Poly(p-aminoazobenzene)/Reduced Graphene Oxide Composite Electrode for Supercapacitors. 2211057 ○
- 126 P/N Heterojunction System Eu-Doped ZnO@GO for Photocatalytic Water Splitting. 2200106 ○
- 125 Photocatalytic degradations of antibiotics using graphene-based nanocomposites. **2023**, 389-409 ○
- 124 Robust FDTD Modeling of Graphene-Based Conductive Materials with Transient Features for Advanced Antenna Applications. **2023**, 13, 384 ○
- 123 Graphene and graphene oxide: Application in luminescence and solar cell. **2023**, 107-133 ○
- 122 Phosphorous- and Boron-Doped Graphene-Based Nanomaterials for Energy-Related Applications. **2023**, 16, 1155 1
- 121 Amine-Functionalized Reduced Graphene Oxide/Polyimide Nanocomposite as a Material with High Dielectric Constant and Thermal Resistance. **2023**, 6, 1696-1706 ○
- 120 Bioinspired Graphene Oxide/Magnetite Nanocomposite Coatings as Protective Superhydrophobic Antifouling Surfaces. ○
- 119 Synthesis and applications of carbon-polymer composites and nanocomposite functional materials. **2023**, 71-105 ○
- 118 Fullerene nano-additives in conjugated polymers: Topographies and technical implications. **2023**, 65-85 ○
- 117 From two-dimensional materials to polymer nanocomposites with emerging multifunctional applications: A critical review. 1

- 116 Molecular-level uniform graphene/polyaniline composite film for flexible supercapacitors with high-areal capacitance. ○
- 115 Graphene-based polymer coatings for preventing marine corrosion: a review. ○
- 114 Development of Al-Based Nanocomposites Using Cnt-Gnp-Hbn Ternary Hybrid Reinforcement. ○
- 113 A silicon/carbon/reduced-graphene composite of honeycomb structure for high-performance lithium-ion batteries. **2023**, 944, 169185 ○
- 112 Synergistic surface modulation of Ag/ZnO@ZIF-8 hybrid microspheres for enhanced photocatalytic degradation efficiency of rhodamine B. **2023**, 25, 2064-2074 ○
- 111 Energy storage improvement of graphene based super capacitors. **2023**, 78, 919-923 ○
- 110 Reduced Graphene Oxide/Polyelectrolyte Multilayers for Fast Resistive Humidity Sensing. **2023**, 23, 1977 ○
- 109 Effect of functionalized graphene addition on mechanical and thermal properties of high density polyethylene. **2023**, 43, 343-353 ○
- 108 Graphene Utilization for Efficient Energy Storage and Potential Applications: Challenges and Future Implementations. **2023**, 16, 2927 ○
- 107 Influence of Potassium Metal-Support Interactions on Dendrite Growth. ○
- 106 Controllable synthesis by hydrothermal method and optical properties of 2D MoS₂/rGO nanocomposites. ○
- 105 Synthesis of Graphene Quantum Dot Magnesium Hydroxide Nanocomposites and Investigation of Their Antioxidant and Antimicrobial Activities. **2023**, 80, ○
- 104 Microstructure and properties of graphene oxide reinforced copper-matrix composite foils fabricated by ultrasonic assisted electrodeposition. **2023**, 872, 144995 ○
- 103 Effect of Ni-modified reduced graphene oxide on the mechanical properties of Sn₈₈Bi solder joints. **2023**, 211, 111943 ○
- 102 Adsorption of amphetamine on deep eutectic solvents functionalized graphene oxide/metal-organic framework nanocomposite: Elucidation of hydrogen bonding and DFT studies. **2023**, 323, 138276 ○
- 101 Effective removal of hexavalent chromium by novel modified alginate-based biocomposites: Characterization, kinetics and equilibrium studies. **2023**, 49, 16440-16450 ○
- 100 Effects of sunlight on the fate of graphene oxide and reduced graphene oxide nanomaterials in the natural surface water. **2023**, 874, 162427 ○
- 99 A comprehensive review of heat transfer enhancement of heat exchanger, heat pipe and electronic components using graphene. **2023**, 45, 102874 ○

- 98 High power asymmetric supercapacitor based on activated carbon/reduced graphene oxide electrode system. **2023**, 35, 105653 ○
- 97 One-step biogenic synthesis of bismuth/reduced graphene oxide nanocomposites using lemon juice and their applications as recyclable nanocatalyst for the reduction of 4-nitrophenol. **2023**, 22, 100383 ○
- 96 Raman spectroscopy of carbon materials and their composites: Graphene, nanotubes and fibres. **2023**, 135, 101089 ○
- 95 A three-dimensional interconnected molybdenum disulfide/multi-walled carbon nanotubes cathode with enlarged interlayer spacing for aqueous zinc-ion storage. **2023**, 639, 292-301 ○
- 94 Waste plastic derived reduced graphene oxide as a potential additive for the surfactant polymer flooding: A sustainable solution. **2023**, 11, 109661 ○
- 93 Significance of different dopamine species as reducing agents of graphene oxide: Fundamental aspects. **2023**, 732, 122285 ○
- 92 Large-area ultra-thin GO nanofiltration membranes prepared by a pre-crosslinking rod coating technique. **2023**, 640, 261-269 ○
- 91 Mixed-valence palladium single-atom catalyst induced by hybrid TiO₂-graphene through a photochemical strategy. **2023**, 625, 157115 ○
- 90 Removal of crystal violet from wastewater using synthesized graphene quantum dots as adsorbents: kinetic approach. ○
- 89 Ag@Fe₃O₄ nanoparticles decorated NrGO nanocomposite for supercapacitor application. **2023**, 941, 169024 ○
- 88 Additive manufacturing of three-dimensional graphene-based architectures and its application in environmental treatment: A review. **2023**, 465, 142943 ○
- 87 Strontium titanate perovskite embedded reduced graphene oxide photoanode for dye-sensitized solar cell. **2023**, 136, 113464 ○
- 86 An Overview on Exploitation of Graphene-Based Membranes: From Water Treatment to Medical Industry, Including Recent Fighting against COVID-19. **2023**, 11, 310 ○
- 85 Pulse-reverse electrodeposition of Ni-Co/graphene composite films with high hardness and electrochemical behaviour. **2023**, 133, 109720 ○
- 84 Tunable Interlayer Interactions in Reduced Graphene Oxide Paper. **2023**, 15, 7627-7634 ○
- 83 Chemically grafting Cu(II)-Schiff base complex on magnetic graphene oxide-cobalt ferrite (GO/CoFe₂O₄) nanocomposite for the selective and ultrafast removal of toxic anionic dyes and dichromate-chromate anions from water. **2023**, 47, 4845-4859 ○
- 82 Green synthesis and application of graphene oxide extracted from Punica granatum. **2023**, ○
- 81 Development of bio-inspired cement-based material by magnetically aligning graphene oxide nanosheets in cement paste. **2023**, 369, 130545 ○

- 80 State-of-the-Art Graphene Synthesis Methods and Environmental Concerns. **2023**, 2023, 1-23 ○
- 79 Solution-Processed Functionalized Graphene Film Prepared by Vacuum Filtration for Flexible NO₂ Sensors. **2023**, 23, 1831 ○
- 78 Facile Synthesis of Polyacrylic Acid/Graphene Oxide Composite Hydrogel Electrolyte for High-Performance Flexible Supercapacitors. **2023**, 13, 382 ○
- 77 Graphene in Tissue Engineering and Electronics: Future Prospects and Challenges. **2023**, 211-238 ○
- 76 Diverse Methods to Nanomanufacture Colloidal Dispersions of Polyaniline without Templates. **2023**, 3, 57-90 ○
- 75 Graphene-based catalysts for carbon monoxide oxidation: Experimental and theoretical insights. **2023**, ○
- 74 Physicochemical transformation of graphene oxide during heat treatment at 1100 °C. **2023**, 10, 100251 ○
- 73 Graphene skeletal nanotemplate coordinated with pH-Responsive porous Double-Ligand Metal-Organic frameworks (DL-MOFs) through ligand exchange theory for High-Performance smart coatings. **2023**, 461, 141869 ○
- 72 A comprehensive review on graphene oxide-based nanocarriers: Synthesis, functionalization and biomedical applications. **2023**, 38, 100484 ○
- 71 Lamellar Graphene Oxide-Based Composite Membranes for Efficient Separation of Heavy Metal Ions and Desalination of Water. **2023**, 8, 7648-7656 ○
- 70 Gradient-Reduced Graphene Oxide Aerogel with Ultrabroadband Absorption from Microwave to Terahertz Bands. **2023**, 6, 3893-3902 ○
- 69 Direct Synthesis of Ammonia From Nitrate On Amorphous Graphene With Near 100% Efficiency. 2211856 ○
- 68 Influence of catalyst support type on silver poplar pyrolysis vapors: a Py/GC-MS study. ○
- 67 Room-Temperature acetone gas sensing properties of graphene oxide/zinc oxide nanocomposites synthesized by sol-gel method. **2023**, 34, ○
- 66 Bis(2-hydroxyethyl) Terephthalate-Modified Ti₃C₂T_x/Graphene Nanohybrids as Three-Dimensional Functional Chain Extenders for Polyurethane Composite Films with Strain-Sensing and Conductive Properties. **2023**, 15, 12403-12413 ○
- 65 Effects of graphene, alumina, and their hybrid on dynamic mechanical behavior of epoxy-based nanocomposites. **2023**, 57, 1557-1570 ○
- 64 Graphene Oxide Based Transparent Resins for Accurate 3D Printing of Conductive Materials. 2214954 ○
- 63 Recent trends in graphene-based materials for pharmaceuticals wastewater treatment. **2023**, 53-68 ○

- 62 Mesoporous NiWO₄@rGO nanoparticles as anode material for lithium-ion battery. 1-8 ○
- 61 Controllable assembly of three-dimensional porous graphene-Au dual aerogels and its application for high-efficient bioelectrocatalytic O₂ reduction. **2023**, 1251, 341013 ○
- 60 Production and Patterning of Fluorescent Quantum Dots by Cryogenic Electron-Beam Writing. **2023**, 15, 12154-12160 ○
- 59 Biodegradation of Carbon Nanotubes. **2023**, 643-676 ○
- 58 Organic Bioelectronic Sensors. **2023**, 199-206 ○
- 57 PET/Graphene Nanocomposite Fibers Obtained by Dry-Jet Wet-Spinning for Conductive Textiles. **2023**, 15, 1245 ○
- 56 Biobased Graphene for Synthesis of Nanophotocatalysts in the Treatment of Wastewater: A Review and Future Perspective. **2023**, 203-232 ○
- 55 Efficient strategies to produce Graphene and functionalized graphene materials: A review. **2023**, 14, 100386 ○
- 54 Facile and Tunable Synthesis of Nitrogen-Doped Graphene with Different Microstructures for High-Performance Supercapacitors. **2023**, 5, 944-954 ○
- 53 Engineering of ZnO/rGO towards NO₂ Gas Detection: Ratio Modulated Sensing Type and Heterojunction Determined Response. **2023**, 13, 917 ○
- 52 Role of Graphene-Based Materials in Gas Sensing Applications: From Synthesis to Device Fabrication. **2023**, 493-518 ○
- 51 Influence of Potassium Metal-Support Interactions on Dendrite Growth. ○
- 50 Effects of H₂O₂ase in raw natural rubber on the interface and performance of natural rubber/silica composites via simulation with an outer same protein. **2023**, 140, ○
- 49 Prospective features of functional 2D nanomaterial graphene oxide in the wound healing process. **2023**, 82, 104352 ○
- 48 In-situ prepare graphene/g-C₃N₄ D-EA in-plane heterojunctions for high-performance photocatalytic hydrogen production. **2023**, ○
- 47 Synthesis and electrochemical performance of ultrafine hierarchical S-doped MnNi LDH-MWCNTs as highly efficient hybrid cathode for flexible asymmetric supercapacitors. ○
- 46 Computational studies of MXenes. **2023**, 48, 253-260 ○
- 45 In Situ Fabrication of High Dielectric Constant Composite Films with Good Mechanical and Thermal Properties by Controlled Reduction. **2023**, 28, 2535 ○

- 44 Self-Assembled Construction of Robust and Super Elastic Graphene Aerogel for High-Efficient Formaldehyde Removal and Multifunctional Application. 2300234 1
- 43 Ultrashort pulse generation in erbium-doped fiber lasers in South America: a historical review. **2023**, 40, C148 1
- 42 Potential of graphene-modified nanostructures for multifunctional personal protective clothing. **2023**, 195-218 0
- 41 Assessment of Graphite, Graphene, and Hydrophilic-Treated Graphene Electrodes to Improve Power Generation and Wastewater Treatment in Microbial Fuel Cells. **2023**, 10, 378 0
- 40 Island-Type Graphene-Nanotube Hybrid Structures for Flexible and Stretchable Electronics: In Silico Study. **2023**, 14, 671 0
- 39 Synergistic Effect of Pd Co-Catalyst and rGO@TiO₂ Hybrid Support for Enhanced Photoreforming of Oxygenates. **2023**, 4, 192-209 0
- 38 Unveiling inactive sulfur residue and benzoquinone moiety formation in sulfur-doped carbon for water electrooxidation. **2023**, 47, 129-137 0
- 37 A molecular dynamics study of water confined in between two graphene sheets under compression. **2023**, 25, 0
- 36 Graphene and graphene oxide-based nanocomposites for theranostic applications. **2023**, 103-135 0
- 35 Enhanced adhesion and corrosion resistance of reduced graphene oxide coated-steel with iron oxide nanoparticles. **2023**, 624, 157121 0
- 34 Pedot:PSS/Graphene Oxide (GO) Ternary Nanocomposites for Electrochemical Applications. **2023**, 28, 2963 0
- 33 Synthesis of 1,2-Propanediol by Electro-reduction of Formaldehyde with Oxygen-enriched Graphene. 0
- 32 Recent approach in producing transparent conductive films (TCFs). 0
- 31 Stretchable and Skin-Mountable Temperature Sensor Array Using Reduction-Controlled Graphene Oxide for Dermatological Thermography. 0
- 30 SnOxS₂/GNS nanocomposites for reversible and high-capacity lithium-ion batteries. **2023**, 7, 1839-1845 0
- 29 Electrochemical Sensing of H₂O₂ by Employing a Flexible Fe₃O₄/Graphene/Carbon Cloth as Working Electrode. **2023**, 16, 2770 0
- 28 TiO₂ - graphene dispersed sulfonated polyphenylenesulfide sulfone nanocomposites for medium temperature PEMFCs. 0
- 27 Polymer-Grafted Graphene Oxide/Polybenzimidazole Nanocomposites for Efficient Proton-Conducting Membranes. **2023**, 6, 6365-6379 0

- 26 Reduced graphene oxide synthesis by dry planetary ball milling followed by arc plasma treatment of high pure graphite. **2023**, ○
- 25 Study of Radiotherapy Properties and Antimicrobial Activity of Glyconanoparticles (GNPs) Generated from Imidazolium Salts. **2023**, 8, ○
- 24 Improving Crude Oil Flow Using Graphene Flakes under an Applied Electric Field. **2023**, 19, 2067-2081 ○
- 23 Tribological behaviour of ultra-thin stainless steel in micro deep drawing with graphene nanosheets. **2023**, 204878 ○
- 22 Green and Sustainable Ultrasound-Assisted Anodic Electrochemical Preparation of Graphene Oxide Dispersions and Their Antioxidant Properties. **2023**, 28, 3238 ○
- 21 Synthesis of ultra-thin graphene oxide/ reduced graphene oxide nanocomposites and examine their properties. **2023**, ○
- 20 In Situ S-Doped Graphene Film using NaHSO₃ as Sulfur Source for High-Performance Flexible Supercapacitors. ○
- 19 Molecular Understanding of Adhesion of Epoxy Resin to Graphene and Graphene Oxide Surfaces in Terms of Orbital Interactions. **2023**, 39, 5514-5526 ○
- 18 Preparation and Characterization of Graphene Oxide/Waterborne Polyurethane Composites. ○
- 17 Green and scalable narrow-gap exfoliation of high-quality two-dimensional vermiculite nanosheets as poly (vinyl chloride) thermal stabilizers. **2023**, 24, 3804-3814 ○
- 16 Enhanced lubrication by core-shell TiO₂ nanoparticles modified with PEG-400. ○
- 15 Highly Durable Platinum Catalysts on Nano-SiC Supports with an Epitaxial Graphene Nanosheet Layer Grown from Coffee Grounds for Proton Exchange Membrane Fuel Cells. ○
- 14 Advanced Electrode Coatings Based on Poly-N-Phenylanthranilic Acid Composites with Reduced Graphene Oxide for Supercapacitors. **2023**, 15, 1896 ○
- 13 Experimental investigation on the static and dynamic stability of water-based graphene nanofluids prepared by one-step liquid phase shear exfoliation of graphite. **2023**, 381, 121848 ○
- 12 Magnetic and optical properties of Nd/TiO₂- rGO nanocomposites. **2023**, ○
- 11 Synthesis, characterization, and application of graphene oxide and reduced graphene oxide and its influence on rheology, microstructure, and mechanical strength of cement paste. **2023**, 106586 ○
- 10 More than the interface: synergistic engineering of the interfacial and its subjacent layers followed by self-triggering for high efficient bioelectricity harvesting. **2023**, 143068 ○
- 9 Selective and Sensitive Detection of Formaldehyde at Room Temperature by Tin Oxide Nanoparticles/Reduced Graphene Oxide Composite. ○

- 8 Rearrangement of GO Nanosheets with Inner and Outer Forces Under High-speed Spin for Supercapacitor. **2023**, ○
- 7 Fabrication of ZnO/PDA/GO composite membrane for high efficiency oil/water separation. **2023**, 129, ○
- 6 Microbial reduction of graphene oxide and its application in microbial fuel cells and biophotovoltaics. **2023**, 17, ○
- 5 Bimetallic nanocomposites supported on reduced graphene nanosheets for fuel cell applications. **2023**, 179-198 ○
- 4 Carbon Nanomaterials-Based Drug Delivery Systems: Synthesis, DFT Drug Interactions, and Cancer Therapy. **2023**, 689-727 ○
- 3 Advances and limitations of hybrid nanomaterials for water purification. **2023**, 121-155 ○
- 2 Graphene and Graphene-Like Materials Derived from Biomass for Supercapacitor Applications. **2023**, 223-243 ○
- 1 Synthesis of CoPO₂P on graphene nanosheets for using as an anode material for lithium-ion batteries. **2023**, 34, ○