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	Chemical	methods	for the	production	of grap	henes
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2267	The hobbling of coal: policy and regulatory uncertainties. <b>1978</b> , 200, 153-8		16
2266	New results from Euroball. 1999,		
2265	Low-temperature expanded graphite for preparation of graphene sheets by liquid-phase method. <b>2009</b> , 188, 012040		10
2264	Amino Terminated Polyethylene Glycol Functionalized Graphene and Its Water Solubility. <b>2009</b> , 1205, 20901		1
2263	Graphen, das neue zweidimensionale Nanomaterial. <b>2009</b> , 121, 7890-7916		196
2262	Graphene: the new two-dimensional nanomaterial. <b>2009</b> , 48, 7752-77		3344
2261	Trends in graphene research. <b>2009</b> , 12, 34-37		86
2260	Carbon-based curiosities. <b>2009</b> , 1, 170-1		2
2259	Selling graphene by the ton. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 612-4	28.7	331
2258	Chemical vapour deposition: Making graphene on a large scale. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 212-3	28.7	286
2257	From nanotubes to nanoribbons. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 283-283	28.7	О
2256	Aqueous-phase exfoliation of graphite in the presence of polyvinylpyrrolidone for the production of water-soluble graphenes. <b>2009</b> , 149, 2172-2176		229
2255	A new parameter based on graphene for characterizing transparent, conductive materials. <b>2009</b> , 47, 2936-2939		31
2254	Rapid, Facile Microwave-Solvothermal Synthesis of Graphene Nanosheets and Their Polyaniline Nanocomposites for Energy Strorage. <b>2009</b> , 21, 5004-5006		681
2253	Evolution of graphene growth on Ni and Cu by carbon isotope labeling. <b>2009</b> , 9, 4268-72		1245

### (2009-2009)

2252	Enhanced mechanical properties of nanocomposites at low graphene content. <b>2009</b> , 3, 3884-90	2005
2251	Making graphene luminescent by oxygen plasma treatment. <b>2009</b> , 3, 3963-8	541
2250	Porous graphene as the ultimate membrane for gas separation. <b>2009</b> , 9, 4019-24	733
2249	Ultralow noise field-effect transistor from multilayer graphene. <b>2009</b> , 95, 082105	96
2248	Covalent polymer functionalization of graphene nanosheets and mechanical properties of composites. <b>2009</b> , 19, 7098	1107
2247	Tuning Electronic Properties of Hydro-Boron Carbon Compounds by Hydrogen and Boron Contents: A First Principles Study. <b>2009</b> , 113, 18468-18472	33
2246	Simple method for the covalent immobilization of graphene. <b>2009</b> , 9, 3375-8	104
2245	Insulator to Semimetal Transition in Graphene Oxide. <b>2009</b> , 113, 15768-15771	504
2244	Transfer of large-area graphene films for high-performance transparent conductive electrodes. <b>2009</b> , 9, 4359-63	2532
2243	Transparent self-assembled films of reduced graphene oxide platelets. <b>2009</b> , 95, 103104	155
2242	Synthesis and Characterization of Titania Traphene Nanocomposites. <b>2009</b> , 113, 19812-19823	351
2241	Reduced graphene oxide for room-temperature gas sensors. <b>2009</b> , 20, 445502	556
2240	Oxidation states of graphene: insights from computational spectroscopy. <b>2009</b> , 131, 244505	84
2239	Wettability and surface free energy of graphene films. <b>2009</b> , 25, 11078-81	782
2238	High-contrast visualization of graphene oxide on dye-sensitized glass, quartz, and silicon by fluorescence quenching. <b>2009</b> , 131, 15576-7	267
2237	Graphene Oxide Sheets Chemically Cross-Linked by Polyallylamine. <b>2009</b> , 113, 15801-15804	447
2236	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. <b>2009</b> , 131, 13490-7	455
2235	Stable Nafion-functionalized graphene dispersions for transparent conducting films. <b>2009</b> , 20, 465605	58

2234	Electrical and Spectroscopic Characterizations of Ultra-Large Reduced Graphene Oxide Monolayers. <b>2009</b> , 21, 5674-5680	425
2233	Photoreduction of Graphene Oxide Nanosheet by UV-light Illumination under H2. <b>2010</b> , 39, 750-752	22
2232	DNA translocation through graphene nanopores. <b>2010</b> , 10, 3163-7	782
2231	Toward ubiquitous environmental gas sensors-capitalizing on the promise of graphene. <b>2010</b> , 44, 1167-76	242
2230	Stable dispersions of reduced graphene oxide in ionic liquids. <b>2010</b> , 20, 5401	103
2229	Stable aqueous dispersions of noncovalently functionalized graphene from graphite and their multifunctional high-performance applications. <b>2010</b> , 10, 4295-301	405
2228	Spatially resolved spontaneous reactivity of diazonium salt on edge and basal plane of graphene without surfactant and its doping effect. <b>2010</b> , 26, 12278-84	88
2227	Synthesis of Graphene and Its Applications: A Review. <b>2010</b> , 35, 52-71	1196
2226	Graphene oxide-facilitated electron transfer of metalloproteins at electrode surfaces. <b>2010</b> , 26, 1936-9	194
2225	Reduced graphene oxide by chemical graphitization. <b>2010</b> , 1, 73	1645
2224	Graphene-based materials in electrochemistry. <b>2010</b> , 39, 3157-80	1200
2223	The chemistry of graphene oxide. <b>2010</b> , 39, 228-40	8747
2222	The chemistry of graphene. <b>2010</b> , 20, 2277	1222
2221	Graphene-Based Nanoarchitectures. Anchoring Semiconductor and Metal Nanoparticles on a Two-Dimensional Carbon Support. <b>2010</b> , 1, 520-527	895
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2219	Hydrazine and Thermal Reduction of Graphene Oxide: Reaction Mechanisms, Product Structures, and Reaction Design. <b>2010</b> , 114, 832-842	883
2218	Reduced graphene oxide and porphyrin. An interactive affair in 2-D. <b>2010</b> , 4, 6697-706	177
2217	Nitrene addition to exfoliated graphene: a one-step route to highly functionalized graphene. <b>2010</b> , 46, 4097-9	130

2216	Nitrogen-doped graphene and its electrochemical applications. <b>2010</b> , 20, 7491	934
2215	Functionalized graphene sheet/polyurethane nanocomposites: Effect of particle size on the physical properties. <b>2010</b> ,	1
2214	Enhanced Mechanical Properties of Graphene-Based Poly(vinyl alcohol) Composites. <b>2010</b> , 43, 2357-2363	1173
2213	Organic functionalisation of graphenes. <b>2010</b> , 46, 1766-8	235
2212	Functionalized graphene and graphene oxide solution via polyacrylate coating. <b>2010</b> , 2, 2777-82	62
2211	Graphene Films and Ribbons for Sensing of O2, and 100 ppm of CO and NO2 in Practical Conditions. <b>2010</b> , 114, 6610-6613	186
<b>221</b> 0	Graphene/Polymer Nanocomposites. <b>2010</b> , 43, 6515-6530	2683
2209	pH-Sensitive Highly Dispersed Reduced Graphene Oxide Solution Using Lysozyme via an in Situ Reduction Method. <b>2010</b> , 114, 22085-22091	79
2208	Novel graphene-like electrodes for capacitive deionization. <b>2010</b> , 44, 8692-7	356
2207	Derivitization of pristine graphene with well-defined chemical functionalities. <b>2010</b> , 10, 3754-6	171
2206	Simple photoreduction of graphene oxide nanosheet under mild conditions. <b>2010</b> , 2, 3461-6	190
2205	Wafer-scale synthesis of graphene by chemical vapor deposition and its application in hydrogen sensing. <b>2010</b> , 150, 296-300	202
2204	SnO2/graphene composite with high lithium storage capability for lithium rechargeable batteries. <b>2010</b> , 3, 813-821	171
2203	Recent progresses in application of functionalized graphene sheets. <b>2010</b> , 53, 2311-2319	20
2202	In Situ Synthesis of Reduced Graphene Oxide and Gold Nanocomposites for Nanoelectronics and Biosensing. <b>2011</b> , 6, 60	74
2201	Gold nanoparticlesgraphene hybrids as active catalysts for Suzuki reaction. <b>2010</b> , 45, 1413-1418	131
2200	Synthesis of graphene soluble in organic solvents by simultaneous ether-functionalization with octadecane groups and reduction. <b>2010</b> , 64, 2236-2239	23
2199	An Effective Method for Bulk Obtaining Graphene Oxide Solids. <b>2010</b> , 28, 1935-1940	22

2198	Graphene Based Electrochemical Sensors and Biosensors: A Review. <b>2010</b> , 22, 1027-1036	2430
2197	Graphite Oxide as a Photocatalyst for Hydrogen Production from Water. <b>2010</b> , 20, 2255-2262	663
2196	A Controllable Self-Assembly Method for Large-Scale Synthesis of Graphene Sponges and Free-Standing Graphene Films. <b>2010</b> , 20, 1930-1936	235
2195	Self-Propagating Domino-like Reactions in Oxidized Graphite. <b>2010</b> , 20, 2867-2873	271
2194	Anchoring Hydrous RuO2 on Graphene Sheets for High-Performance Electrochemical Capacitors. <b>2010</b> , 20, 3595-3602	1033
2193	Self-Assembling TiO2 Nanorods on Large Graphene Oxide Sheets at a Two-Phase Interface and Their Anti-Recombination in Photocatalytic Applications. <b>2010</b> , 20, 4175-4181	675
2192	Microstructuring of graphene oxide nanosheets using direct laser writing. 2010, 22, 67-71	278
2191	Blue photoluminescence from chemically derived graphene oxide. <b>2010</b> , 22, 505-9	1643
2190	Electrically conductive "alkylated" graphene paper via chemical reduction of amine-functionalized graphene oxide paper. <b>2010</b> , 22, 892-6	524
2189	Versatile carbon hybrid films composed of vertical carbon nanotubes grown on mechanically compliant graphene films. <b>2010</b> , 22, 1247-52	282
2188	Peptide/graphene hybrid assembly into core/shell nanowires. <b>2010</b> , 22, 2060-4	230
2187	Freestanding graphene by thermal splitting of silicon carbide granules. <b>2010</b> , 22, 2168-71	86
2186	Biocompatible, robust free-standing paper composed of a TWEEN/graphene composite. <b>2010</b> , 22, 1736-40	340
2185	Chemically derived graphene oxide: towards large-area thin-film electronics and optoelectronics. <b>2010</b> , 22, 2392-415	1818
2184	Graphene oxide: surface activity and two-dimensional assembly. <b>2010</b> , 22, 1954-8	537
2183	Making patterns on graphene. <b>2010</b> , 22, 3615-20	91
2182	Specific protein detection using thermally reduced graphene oxide sheet decorated with gold nanoparticle-antibody conjugates. <b>2010</b> , 22, 3521-6	411
2181	Determination of the local chemical structure of graphene oxide and reduced graphene oxide. <b>2010</b> , 22, 4467-72	881

2180	A three-dimensional carbon nanotube/graphene sandwich and its application as electrode in supercapacitors. <b>2010</b> , 22, 3723-8	1092
2179	Graphene and graphene oxide: synthesis, properties, and applications. <b>2010</b> , 22, 3906-24	7620
2178	Nanosheets of oxides and hydroxides: Ultimate 2D charge-bearing functional crystallites. <b>2010</b> , 22, 5082-104	781
2177	Hydrogen sensing using pd-functionalized multi-layer graphene nanoribbon networks. <b>2010</b> , 22, 4877-80	280
2176	Real-time DNA detection using reduced graphene oxide field effect transistors. <b>2010</b> , 22, 5297-300	135
2175	Noncovalent functionalization, exfoliation, and solubilization of graphene in water by employing a fluorescent coronene carboxylate. <b>2010</b> , 16, 2700-4	214
2174	Rapid and direct conversion of graphite crystals into high-yielding, good-quality graphene by supercritical fluid exfoliation. <b>2010</b> , 16, 6488-94	158
2173	Dispersing carbon nanotubes with graphene oxide in water and synergistic effects between graphene derivatives. <b>2010</b> , 16, 10653-8	327
2172	Kohlenstoffnanomaterialien fil Biosensoren: Nanorfiren oder Graphen Iwas eignet sich besser?. <b>2010</b> , 122, 2160-2185	51
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2170	Carbon Spiral Helix: A Nanoarchitecture Derived from Monovacancy Defects in Graphene. <b>2010</b> , 122, 3268-3270	2
2169	Graphene-Based Nanosheets with a Sandwich Structure. <b>2010</b> , 122, 4905-4909	55
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2166	Graphen Ewie eine Laborkuriosit plæzlich Elerst interessant wurde. <b>2010</b> , 122, 9520-9523	13
2165	Three-Dimensional Self-Assembly of Graphene Oxide Platelets into Mechanically Flexible Macroporous Carbon Films. <b>2010</b> , 122, 10282-10286	84
2164	Carbon nanomaterials in biosensors: should you use nanotubes or graphene?. <b>2010</b> , 49, 2114-38	1188
2163	All-organic vapor sensor using inkjet-printed reduced graphene oxide. <b>2010</b> , 49, 2154-7	760

2162	Carbon spiral helix: a nanoarchitecture derived from monovacancy defects in graphene. <b>2010</b> , 49, 3200-2	16
2161	Graphene-based nanosheets with a sandwich structure. <b>2010</b> , 49, 4795-9	434
2160	Interfacial engineering by proteins: exfoliation and functionalization of graphene by hydrophobins. <b>2010</b> , 49, 4946-9	146
2159	From conception to realization: an historial account of graphene and some perspectives for its future. <b>2010</b> , 49, 9336-44	621
2158	Graphenehow a laboratory curiosity suddenly became extremely interesting. <b>2010</b> , 49, 9332-5	85
2157	Three-dimensional self-assembly of graphene oxide platelets into mechanically flexible macroporous carbon films. <b>2010</b> , 49, 10084-8	386
2156	Reduced Graphene Oxide/Poly(3-hexylthiophene) Supramolecular Composites. <b>2010</b> , 31, 380-4	89
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2154	Solvothermal synthesis and characterization of sandwich-like graphene/ZnO nanocomposites. <b>2010</b> , 256, 2826-2830	284
2153	Electrochemical oxidation behavior of guanine and adenine on graphene Mafion composite film modified glassy carbon electrode and the simultaneous determination. <b>2010</b> , 45, 1707-1712	160
2152	Recent advances in graphene based polymer composites. <b>2010</b> , 35, 1350-1375	2609
2151	A facile approach to the fabrication of graphene/polystyrene nanocomposite by in situ microemulsion polymerization. <b>2010</b> , 350, 530-7	153
2150	A coagulation technique for purification of graphene sheets with graphene-reinforced PVA hydrogel as byproduct. <b>2010</b> , 348, 384-7	39
2149	Characteristics of polymers that stabilize colloids for the production of graphene from graphene oxide. <b>2010</b> , 349, 63-9	23
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2147	Highly durable graphene nanoplatelets supported Pt nanocatalysts for oxygen reduction. <b>2010</b> , 195, 4600-4605	345
2146	Facile solvothermal synthesis of graphene MnOOH nanocomposites. <b>2010</b> , 183, 2552-2557	16

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2143	Graphene nanosheets as electrode material for electric double-layer capacitors. <b>2010</b> , 55, 4812-4819	297
2142	Rapid microwave-assisted synthesis of graphene nanosheet/Co3O4 composite for supercapacitors. <b>2010</b> , 55, 6973-6978	423
2141	The origin of the catalysis of hydrogen peroxide reduction by functionalized graphene surfaces: A density functional theory study. <b>2010</b> , 56, 523-530	50
2140	Density functional theory prediction for oxidation and exfoliation of graphite to graphene. <b>2010</b> , 256, 7596-7599	14
2139	Graphene oxide arrays for detecting specific DNA hybridization by fluorescence resonance energy transfer. <b>2010</b> , 25, 2361-5	210
2138	Electron microscopy analyses of natural and highly oriented pyrolytic graphites and the mechanically exfoliated graphenes produced from them. <b>2010</b> , 48, 797-804	37
2137	Porphyrin counter anion in imidazolium-modified graphene-oxide. <b>2010</b> , 48, 854-860	91
2136	Growth and properties of few-layer graphene prepared by chemical vapor deposition. <b>2010</b> , 48, 1088-1094	294
2135	Preparation of graphene by the rapid and mild thermal reduction of graphene oxide induced by microwaves. <b>2010</b> , 48, 1146-1152	816
2134	Production, properties and potential of graphene. <b>2010</b> , 48, 2127-2150	1240
2133	Microwave assisted exfoliation and reduction of graphite oxide for ultracapacitors. <b>2010</b> , 48, 2118-2122	698
2132	Elastomers filled with exfoliated graphite as compliant electrodes. <b>2010</b> , 48, 2409-2417	113
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2130	The attachment of Fe3O4 nanoparticles to graphene oxide by covalent bonding. <b>2010</b> , 48, 3139-3144	387
2129	Graphene oxide as dyestuffs for the creation of electrically conductive fabrics. <b>2010</b> , 48, 3340-3345	72
2128	A graphene oxide-based molecularly imprinted polymer platform for detecting endocrine disrupting chemicals. <b>2010</b> , 48, 3427-3433	143
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2126	Formation of carbon nanoparticles from soluble graphene oxide in an aqueous solution. <b>2010</b> , 48, 4211-4214	20
2125	Effects of functional groups on the mechanical and wrinkling properties of graphene sheets. <b>2010</b> , 48, 4315-4322	181
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2120	Preparation of nano-structured LiFePO4/graphene composites by co-precipitation method. <b>2010</b> , 12, 10-13	289
2119	Enhanced reversible lithium storage in a nanosize silicon/graphene composite. <b>2010</b> , 12, 303-306	361
2118	Seeing graphene-based sheets. <b>2010</b> , 13, 28-38	147
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2115	Graphene fluoride: a stable stoichiometric graphene derivative and its chemical conversion to graphene. <b>2010</b> , 6, 2885-91	337
2114	Fluorographene: a two-dimensional counterpart of Teflon. <b>2010</b> , 6, 2877-84	979
2113	Flexible, transparent, conducting films of randomly stacked graphene from surfactant-stabilized, oxide-free graphene dispersions. <b>2010</b> , 6, 458-64	342
2112	Graphene oxide, highly reduced graphene oxide, and graphene: versatile building blocks for carbon-based materials. <b>2010</b> , 6, 711-23	2103
2111	Production of graphene sheets by direct dispersion with aromatic healing agents. <b>2010</b> , 6, 1100-7	150
2110	High-concentration solvent exfoliation of graphene. <b>2010</b> , 6, 864-71	810
2109	Channel-length-dependent field-effect mobility and carrier concentration of reduced graphene oxide thin-film transistors. <b>2010</b> , 6, 1210-5	71

2108	Graphene oxide as a chemically tunable platform for optical applications. <b>2010</b> , 2, 1015-24	2633
2107 <b>E</b>	Erratum: Chemical methods for the production of graphenes. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 309-309 28.	7 83
2106 (	Graphene nanomesh. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 190-4	7 1155
2105 F	Preparation of Bulk13C-Enriched Graphene Materials. <b>2010</b> , 2010, 1-5	15
2104	On the structure and topography of free-standing chemically modified graphene. <b>2010</b> , 12, 125010	39
	One-Step Process for the Exfoliation and Surface Modification of Graphene by Electrochemical Method. <b>2010</b> , 123-125, 743-746	4
2102 (	Chemical vapor deposition of graphene films. <b>2010</b> , 21, 145604	94
2101 F	Patterning of Two-Dimensional Graphene Oxide on Silicon Substrates. <b>2010</b> , 49, 06GC02	10
	Determination of the Number of Graphene Layers: Discrete Distribution of the Secondary Electron ntensity Stemming from Individual Graphene Layers. <b>2010</b> , 3, 095101	71
	arge-scale graphitic thin films synthesized on Ni and transferred to insulators: Structural and electronic properties. <b>2010</b> , 107, 044310	77
	Tuning the thermal conductivity of graphene nanoribbons by edge passivation and isotope engineering: A molecular dynamics study. <b>2010</b> , 97, 133107	134
2097 E	Ellipsometry of graphene on a substrate. <b>2010</b> , 107, 033525	9
2096 <i>F</i>	A new route towards uniformly functionalized single-layer graphene. <b>2010</b> , 43, 175302	25
2095 [	Dielectrophoretic integration of single- and few-layer graphenes. <b>2010</b> , 107, 034302	21
2094 L	arge scale synthetic method for free standing graphene film and graphene sponges. 2010,	
2093 S	Synthesis. <b>2010,</b> 99-168	
2092 <i>F</i>	Assembly of colloidal semiconductor nanorods in solution by depletion attraction. <b>2010</b> , 10, 743-9	222
2091 (	Outer wall selectively oxidized, water-soluble double-walled carbon nanotubes. <b>2010</b> , 132, 3932-8	69

2090	Defect Functionalization of Hexagonal Boron Nitride Nanosheets. <b>2010</b> , 114, 17434-17439	173
2089	Understanding the stabilization of liquid-phase-exfoliated graphene in polar solvents: molecular dynamics simulations and kinetic theory of colloid aggregation. <b>2010</b> , 132, 14638-48	234
2088	Electrically conductive and mechanically strong biomimetic chitosan/reduced graphene oxide composite films. <b>2010</b> , 20, 9032	211
2087	Polyoxometalate assisted photoreduction of graphene oxide and its nanocomposite formation. <b>2010</b> , 46, 6243-5	154
2086	Facile covalent functionalization of graphene oxide using microwaves: bottom-up development of functional graphitic materials. <b>2010</b> , 20, 9052	74
2085	Structural and electronic properties of epitaxial graphene on SiC(0 0 0 1): a review of growth, characterization, transfer doping and hydrogen intercalation. <b>2010</b> , 43, 374009	371
2084	Preparation of Gold Nanoparticle/Graphene Composites with Controlled Weight Contents and Their Application in Biosensors. <b>2010</b> , 114, 1822-1826	360
2083	Graphene versus carbon nanotubes for chemical sensor and fuel cell applications. <b>2010</b> , 135, 2790-7	138
2082	Facile covalent immobilization of cadmium sulfide quantum dots on graphene oxide nanosheets: preparation, characterization, and optical properties. <b>2010</b> , 21, 465603	76
2081	Preparation and Evaluation of Graphite Oxide Reduced at 220 LC. <b>2010</b> , 22, 5625-5629	184
	Preparation and Evaluation of Graphite Oxide Reduced at 220 LC. 2010, 22, 5625-5629  Some Novel Attributes of Graphene. 2010, 1, 572-580	184 330
	Some Novel Attributes of Graphene. <b>2010</b> , 1, 572-580  Monodisperse chemically modified graphene obtained by density gradient ultracentrifugal rate	
2080	Some Novel Attributes of Graphene. <b>2010</b> , 1, 572-580  Monodisperse chemically modified graphene obtained by density gradient ultracentrifugal rate	330
2080	Some Novel Attributes of Graphene. <b>2010</b> , 1, 572-580  Monodisperse chemically modified graphene obtained by density gradient ultracentrifugal rate separation. <b>2010</b> , 4, 3381-9	330
2080 2079 2078 2077	Some Novel Attributes of Graphene. <b>2010</b> , 1, 572-580  Monodisperse chemically modified graphene obtained by density gradient ultracentrifugal rate separation. <b>2010</b> , 4, 3381-9  Self-assembled graphene hydrogel via a one-step hydrothermal process. <b>2010</b> , 4, 4324-30	330 176 2678
2080 2079 2078 2077 2076	Some Novel Attributes of Graphene. 2010, 1, 572-580  Monodisperse chemically modified graphene obtained by density gradient ultracentrifugal rate separation. 2010, 4, 3381-9  Self-assembled graphene hydrogel via a one-step hydrothermal process. 2010, 4, 4324-30  Emerging Methods for Producing Monodisperse Graphene Dispersions. 2010, 1, 544-549	330 176 2678
2080 2079 2078 2077 2076	Some Novel Attributes of Graphene. 2010, 1, 572-580  Monodisperse chemically modified graphene obtained by density gradient ultracentrifugal rate separation. 2010, 4, 3381-9  Self-assembled graphene hydrogel via a one-step hydrothermal process. 2010, 4, 4324-30  Emerging Methods for Producing Monodisperse Graphene Dispersions. 2010, 1, 544-549  Transferable graphene oxide films with tunable microstructures. 2010, 4, 7367-72	330 176 2678 183

2072	General route toward patterning of graphene oxide by a combination of wettability modulation and spin-coating. <b>2010</b> , 4, 5749-54	50
2071	Dispersion of graphene in ethanol using a simple solvent exchange method. <b>2010</b> , 46, 7539-41	129
2070	One-pot preparation of graphene/Fe3O4 composites by a solvothermal reaction. <b>2010</b> , 34, 2950	144
2069	Towards free-standing graphene/carbon nanotube composite films via acetylene-assisted thermolysis of organocobalt functionalized graphene sheets. <b>2010</b> , 46, 8279-81	83
2068	DirectIgrafting of linear macromolecular WedgesIto the edge of pristine graphite to prepare edge-functionalized graphene-based polymer composites. <b>2010</b> , 20, 10936	37
2067	Noncovalent DNA decorations of graphene oxide and reduced graphene oxide toward water-soluble metalfarbon hybrid nanostructures via self-assembly. <b>2010</b> , 20, 900-906	156
2066	Preparation of graphene by a low-temperature thermal reduction at atmosphere pressure. <b>2010</b> , 2, 559-63	292
2065	Single-layer graphene nanosheets with controlled grafting of polymer chains. <b>2010</b> , 20, 1982	400
2064	In situ controllable growth of Prussian blue nanocubes on reduced graphene oxide: facile synthesis and their application as enhanced nanoelectrocatalyst for H2O2 reduction. <b>2010</b> , 2, 2339-46	207
2063	A roadmap to high quality chemically prepared graphene. <b>2010</b> , 43, 374015	48
2063	Graphene oxide porous paper from amine-functionalized poly(glycidyl methacrylate)/graphene	137
	Graphene oxide porous paper from amine-functionalized poly(glycidyl methacrylate)/graphene	
2062	Graphene oxide porous paper from amine-functionalized poly(glycidyl methacrylate)/graphene oxide core-shell microspheres. <b>2010</b> , 20, 9200  Simultaneous determination of adenine and guanine in DNA based on carboxylic acid	
2062	Graphene oxide porous paper from amine-functionalized poly(glycidyl methacrylate)/graphene oxide core-shell microspheres. <b>2010</b> , 20, 9200  Simultaneous determination of adenine and guanine in DNA based on carboxylic acid functionalized graphene. <b>2010</b> ,	137 7
2062 2061 2060	Graphene oxide porous paper from amine-functionalized poly(glycidyl methacrylate)/graphene oxide core-shell microspheres. 2010, 20, 9200  Simultaneous determination of adenine and guanine in DNA based on carboxylic acid functionalized graphene. 2010,  Graphene oxide as a matrix for enzyme immobilization. 2010, 26, 6083-5	137 7 438
2062 2061 2060 2059	Graphene oxide porous paper from amine-functionalized poly(glycidyl methacrylate)/graphene oxide core-shell microspheres. 2010, 20, 9200  Simultaneous determination of adenine and guanine in DNA based on carboxylic acid functionalized graphene. 2010,  Graphene oxide as a matrix for enzyme immobilization. 2010, 26, 6083-5  Graphene enhances Li storage capacity of porous single-crystalline silicon nanowires. 2010, 2, 3709-13  Supraparamagnetic, conductive, and processable multifunctional graphene nanosheets coated with	137 7 438 101
2062 2061 2060 2059 2058	Graphene oxide porous paper from amine-functionalized poly(glycidyl methacrylate)/graphene oxide core-shell microspheres. 2010, 20, 9200  Simultaneous determination of adenine and guanine in DNA based on carboxylic acid functionalized graphene. 2010,  Graphene oxide as a matrix for enzyme immobilization. 2010, 26, 6083-5  Graphene enhances Li storage capacity of porous single-crystalline silicon nanowires. 2010, 2, 3709-13  Supraparamagnetic, conductive, and processable multifunctional graphene nanosheets coated with high-density Fe3O4 nanoparticles. 2010, 2, 3201-10  Facile and controllable electrochemical reduction of graphene oxide and its applications. 2010, 20, 743-748	137 7 438 101 354
2062 2061 2060 2059 2058	Graphene oxide porous paper from amine-functionalized poly(glycidyl methacrylate)/graphene oxide core-shell microspheres. 2010, 20, 9200  Simultaneous determination of adenine and guanine in DNA based on carboxylic acid functionalized graphene. 2010,  Graphene oxide as a matrix for enzyme immobilization. 2010, 26, 6083-5  Graphene enhances Li storage capacity of porous single-crystalline silicon nanowires. 2010, 2, 3709-13  Supraparamagnetic, conductive, and processable multifunctional graphene nanosheets coated with high-density Fe3O4 nanoparticles. 2010, 2, 3201-10  Facile and controllable electrochemical reduction of graphene oxide and its applications. 2010, 20, 743-748  Constructing hierarchically structured interphases for strong and tough epoxy nanocomposites by amine-rich graphene surfaces. 2010, 20, 9635	137 7 438 101 354 702

2054 Ef	fficient preparation of large-area graphene oxide sheets for transparent conductive films. <b>2010</b> , 4, 5245-52	775
2053 Fi	rst-Principles Study of Field Emission Properties of Graphene-ZnO Nanocomposite. <b>2010</b> , 114, 19284-19288	47
2052 <b>G</b> I	raphene nanoribbon thin films using layer-by-layer assembly. <b>2010</b> , 10, 4356-62	63
	canning tunneling microscopy, spectroscopy, and nanolithography of epitaxial graphene nemically modified with aryl moieties. <b>2010</b> , 132, 15399-403	132
2050 M	odeling Direct Exfoliation of Nanoscale Graphene Platelets. <b>2010</b> , 114, 21083-21087	33
	abrication and evaluation of solution-processed reduced graphene oxide electrodes for p- and channel bottom-contact organic thin-film transistors. <b>2010</b> , 4, 6343-52	65
	lick chemistry approach to functionalize two-dimensional macromolecules of graphene oxide anosheets. <b>2010</b> , 2, 177-183	79
	urface energy modification by spin-cast, large-area graphene film for block copolymer lithography. <b>010</b> , 4, 5464-70	122
	leasurement of multicomponent solubility parameters for graphene facilitates solvent discovery. <b>010</b> , 26, 3208-13	481
	ltra-large single-layer graphene obtained from solution chemical reduction and its electrical roperties. <b>2010</b> , 12, 2164-9	155
2044 <b>S</b> U	upercapacitors based on flexible graphene/polyaniline nanofiber composite films. 2010, 4, 1963-70	1934
2043 At	tomic structure of reduced graphene oxide. <b>2010</b> , 10, 1144-8	943
2042 <b>G</b> I	raphene oxide sheets at interfaces. <b>2010</b> , 132, 8180-6	1380
2041 <b>G</b> r	raphene oxide nanocolloids. <b>2010</b> , 132, 17667-9	320
2040 Pr	reparation of a stable graphene dispersion with high concentration by ultrasound. <b>2010</b> , 114, 10368-73	119
2039 <b>D</b> e	etailed kinetic Monte Carlo simulations of graphene-edge growth. <b>2010</b> , 114, 689-703	106
2038 <b>G</b> I	raphene-based supercapacitor with an ultrahigh energy density. <b>2010</b> , 10, 4863-8	2543
2037 <b>G</b> r	raphene films with large domain size by a two-step chemical vapor deposition process. <b>2010</b> , 10, 4328-34	836

2036	Graphene oxide thin films for flexible nonvolatile memory applications. <b>2010</b> , 10, 4381-6	483
2035	Chemical doping of large-area stacked graphene films for use as transparent, conducting electrodes. <b>2010</b> , 4, 3839-44	295
2034	Dispersion and functionalization of carbon nanotubes for polymer-based nanocomposites: A review. <b>2010</b> , 41, 1345-1367	2320
2033	Edge-carboxylated graphene nanoflakes from nitric acid oxidised arc-discharge material. <b>2010</b> , 20, 314-319	38
2032	High-yield exfoliation of three-dimensional graphite into two-dimensional graphene-like sheets. <b>2010</b> , 46, 6320-2	97
2031	Large, solution-processable graphene quantum dots as light absorbers for photovoltaics. <b>2010</b> , 10, 1869-73	764
2030	General Approach to Individually Dispersed, Highly Soluble, and Conductive Graphene Nanosheets Functionalized by Nitrene Chemistry. <b>2010</b> , 22, 5054-5064	394
2029	Exfoliation of graphite oxide in propylene carbonate and thermal reduction of the resulting graphene oxide platelets. <b>2010</b> , 4, 1227-33	615
2028	Soluble, Exfoliated Hexagonal Boron Nitride Nanosheets. <b>2010</b> , 1, 277-283	557
2027	Unconventional layer-by-layer assembly of graphene multilayer films for enzyme-based glucose and maltose biosensing. <b>2010</b> , 26, 15022-6	164
2026	Colloidal Graphene Quantum Dots. <b>2010</b> , 1, 2572-2576	291
2025	Reduction of graphene oxide via L-ascorbic acid. <b>2010</b> , 46, 1112-4	1848
2024	A pH-sensitive graphene oxide composite hydrogel. <b>2010</b> , 46, 2376-8	552
2023	Solution chemistry of self-assembled graphene nanohybrids for high-performance flexible biosensors. <b>2010</b> , 4, 2910-8	311
2022	A scalable, solution-phase processing route to graphene oxide and graphene ultralarge sheets. <b>2010</b> , 46, 2611-3	216
2021	A Simple Approach for Preparing Transparent Conductive Graphene Films Using the Controlled Chemical Reduction of Exfoliated Graphene Oxide in an Aqueous Suspension. <b>2010</b> , 114, 14433-14440	96
2020	Three-dimensional Pt-on-Pd bimetallic nanodendrites supported on graphene nanosheet: facile synthesis and used as an advanced nanoelectrocatalyst for methanol oxidation. <b>2010</b> , 4, 547-55	1041
2019	Nanoscale tunable reduction of graphene oxide for graphene electronics. <b>2010</b> , 328, 1373-6	584

2018	A new approach to fabricate graphene nanosheets in organic medium: combination of reduction and dispersion. <b>2010</b> , 20, 1722	205
2017	Are there fundamental limitations on the sheet resistance and transmittance of thin graphene films?. <b>2010</b> , 4, 2713-20	462
2016	Two-dimensional carbon nanostructures: Fundamental properties, synthesis, characterization, and potential applications. <b>2010</b> , 108, 071301	216
2015	Pillaring chemically exfoliated graphene oxide with carbon nanotubes for photocatalytic degradation of dyes under visible light irradiation. <b>2010</b> , 4, 7030-6	229
2014	Atomic-scale observation of rotational misorientation in suspended few-layer graphene sheets. <b>2010</b> , 2, 700-8	38
2013	Fluorescence Quenching in Conjugated Polymers Blended with Reduced Graphitic Oxide. <b>2010</b> , 114, 4153-4159	95
2012	Porphyrin Functionalized Graphene Sheets in Aqueous Suspensions: From the Preparation of Graphene Sheets to Highly Conductive Graphene Films. <b>2010</b> , 114, 8227-8234	273
2011	Carbon nanostructure-based field-effect transistors for label-free chemical/biological sensors. <b>2010</b> , 10, 5133-59	129
2010	First principles nuclear magnetic resonance signatures of graphene oxide. <b>2010</b> , 133, 034502	45
2009	Photothermal Deoxygenation of Graphite Oxide with Laser Excitation in Solution and Graphene-Aided Increase in Water Temperature. <b>2010</b> , 1, 2804-2809	243
2008	A dehydration and stabilizer-free approach to production of stable water dispersions of graphene nanosheets. <b>2010</b> , 20, 4328	114
2007	Tunable assembly of graphene oxide surfactant sheets: wrinkles, overlaps and impacts on thin film properties. <b>2010</b> , 6, 6096	189
2006	Visualizing graphene based sheets by fluorescence quenching microscopy. <b>2010</b> , 132, 260-7	461
2005	DNA cleavage system of nanosized graphene oxide sheets and copper ions. <b>2010</b> , 4, 7169-74	132
2004	Hollow graphene oxide spheres self-assembled by W/O emulsion. <b>2010</b> , 20, 4867	156
2003	Direct exfoliation of natural graphite into micrometre size few layers graphene sheets using ionic liquids. <b>2010</b> , 46, 4487-9	264
2002	Environment-Friendly Method To Produce Graphene That Employs Vitamin C and Amino Acid. <b>2010</b> , 22, 2213-2218	621
2001	Vitamin C Is an Ideal Substitute for Hydrazine in the Reduction of Graphene Oxide Suspensions. <b>2010</b> , 114, 6426-6432	1065

2000	Mechanical properties of monolayer graphene oxide. <b>2010</b> , 4, 6557-64	831
1999	Fabrication of High-Concentration and Stable Aqueous Suspensions of Graphene Nanosheets by Noncovalent Functionalization with Lignin and Cellulose Derivatives. <b>2010</b> , 114, 3811-3816	186
1998	Preparation of graphene relying on porphyrin exfoliation of graphite. <b>2010</b> , 46, 5091-3	140
1997	Highly efficient restoration of graphitic structure in graphene oxide using alcohol vapors. <b>2010</b> , 4, 5285-92	227
1996	Graphene/Polyaniline Nanocomposite for Hydrogen Sensing. <b>2010</b> , 114, 16168-16173	387
1995	Individual nanocomposite sheets of chemically reduced graphene oxide and poly(N-vinyl pyrrolidone): preparation and humidity sensing characteristics. <b>2010</b> , 20, 10824	70
1994	The role of intercalated water in multilayered graphene oxide. <b>2010</b> , 4, 5861-8	303
1993	Graphene oxidepolyelectrolyte nanomembranes. <b>2010</b> , 4, 4667-76	237
1992	Microwave-assisted synthesis of highly water-soluble graphene towards electrical DNA sensor. <b>2010</b> , 2, 2692-7	53
1991	Ligand-Controlled Microwave Synthesis of Cubic and Hexagonal CdSe Nanocrystals Supported on Graphene. Photoluminescence Quenching by Graphene. <b>2010</b> , 114, 19920-19927	78
1990	NMR-based structural modeling of graphite oxide using multidimensional 13C solid-state NMR and ab initio chemical shift calculations. <b>2010</b> , 132, 5672-6	198
1989	Dramatic increase in fatigue life in hierarchical graphene composites. <b>2010</b> , 2, 2738-43	201
1988	Highly exfoliated graphite as a precursor for graphene materials. 2010,	
1987	Modeling of hydrogen and hydroxyl group migration on graphene. <b>2010</b> , 12, 15367-71	49
1986	A simple and scalable route to wafer-size patterned graphene. <b>2010</b> , 20, 5041-5046	76
1985	Preparation of poly(vinyl chloride)-solvothermally reduced graphene composite by latex tecnology. <b>2010</b> ,	
1984	Facile synthesis of organo-soluble surface-grafted all-single-layer graphene oxide as hole-injecting buffer material in organic light-emitting diodes. <b>2011</b> , 21, 6040	32
1983	Programmable peptide-directed two dimensional arrays of various nanoparticles on graphene sheets. <b>2011</b> , 3, 3208-13	20

1982	Micro-patterns of reduced graphene oxide (RG-O) platelets crafted by a self-assembled template. <b>2011</b> , 7, 6811	7
1981	Nano-scale chemical imaging of a single sheet of reduced graphene oxide. <b>2011</b> , 21, 14622	57
1980	Ionic liquid modified graphene nanosheets anchoring manganese oxide nanoparticles as efficient electrocatalysts for ZnBir batteries. <b>2011</b> , 4, 4148	170
1979	Global and Local Oxidation Behavior of Reduced Graphene Oxide. <b>2011</b> , 115, 7956-7966	34
1978	Large scale production of high aspect ratio graphite nanoplatelets with tunable oxygen functionality. <b>2011</b> , 21, 5142	14
1977	Flexible field emission devices using transparent ZnO nanowires on reduced graphene films. 2011,	
1976	Functionalization of PNIPAAm microgels using magnetic graphene and their application in microreactors as switch materials. <b>2011</b> , 21, 10512	23
1975	Salt-controlled assembly of stacked-graphene for capturing fluorescence and its application in chemical genotoxicity screening. <b>2011</b> , 21, 15266	5
1974	Morphology-controllable graphenelliO2 nanorod hybrid nanostructures for polymer composites with high dielectric performance. <b>2011</b> , 21, 17729	114
1973	Adsorption of double-stranded DNA to graphene oxide preventing enzymatic digestion. <b>2011</b> , 3, 3888-92	90
1972	Highly conductive and flexible mesoporous graphitic films prepared by graphitizing the composites of graphene oxide and nanodiamond. <b>2011</b> , 21, 7154	78
1971	X-Ray Photoelectron Spectroscopy Study on Reduction of Graphene Oxide with Hydrazine Hydrate. <b>2011</b> , 287-290, 539-543	5
1970	Schottky diode via dielectrophoretic assembly of reduced graphene oxide sheets between dissimilar metal contacts. <b>2011</b> , 13, 035021	32
1969	Thermodynamic and Kinetic Analysis of Lowtemperature Thermal Reduction of Graphene Oxide. <b>2011</b> , 3, 51-55	70
1968	A Facile Route for the Large Scale Fabrication of Graphene Oxide Papers and Their Mechanical Enhancement by Cross-linking with Glutaraldehyde. <b>2011</b> , 3, 215-222	51
1967	One-step molybdate ion assisted electrochemical synthesis of <code>BMoO3-decorated</code> graphene sheets and its potential applications. <b>2011</b> , 21, 15009	44
1966	Self-assembled graphene/azo polyelectrolyte multilayer film and its application in electrochemical energy storage device. <b>2011</b> , 27, 2007-13	63
1965	Graphene nucleation on transition metal surface: structure transformation and role of the metal step edge. <b>2011</b> , 133, 5009-15	273

196.	Polymer-based photocoupling agent for the efficient immobilization of nanomaterials and small molecules. <b>2011</b> , 27, 9372-8	36
196	In Situ Reduction of Graphene Oxide in Polymers. <b>2011</b> , 44, 9821-9829	87
196:	Hybrid gold nanoparticle-reduced graphene oxide nanosheets as active catalysts for highly efficient reduction of nitroarenes. <b>2011</b> , 21, 15431	194
196:	Graphene growth using a solid carbon feedstock and hydrogen. <b>2011</b> , 5, 7656-61	84
196	Electronic Structures of Porous Graphene, BN, and BC2N Sheets with One- and Two-Hydrogen Passivations from First Principles. <b>2011</b> , 115, 5334-5343	47
1959	Vacuum-assisted synthesis of graphene from thermal exfoliation and reduction of graphite oxide. <b>2011</b> , 21, 5392	177
1958	Photocatalytically Reduced Graphite Oxide Electrode for Electrochemical Capacitors. <b>2011</b> , 115, 20689-20695	32
1957	One-step synthesis of low defect density carbon nanotube-doped Ni(OH)2 nanosheets with improved electrochemical performances. <b>2011</b> , 1, 484	64
1950	Graphene nanopatterns with crystallographic orientation control for nanoelectronic applications. <b>2011</b> , 20, 1212-1217	9
195	Fabrication of Transparent and Flexible Organic Field-Effect Transistors with Solution-Processed Graphene Source <b>D</b> rain and Gate Electrodes. <b>2011</b> , 4, 021603	28
1954	The 2010 Nobel Prize in physicsground-breaking experiments on graphene. <b>2011</b> , 44, 473001	41
1953	Graphene-Based Hybrid Electrode Material for High-Power Lithium-Ion Batteries. <b>2011</b> , 158, A930	43
1952	Hybrid nanostructure heterojunction solar cells fabricated using vertically aligned ZnO nanotubes grown on reduced graphene oxide. <b>2011</b> , 22, 405401	24
195:	One-Pot Synthesis of Platinum Nanoparticles Embedded on Reduced Graphene Oxide for Oxygen Reduction in Methanol Fuel Cells. <b>2011</b> , 14, B70	71
1950	Effect of hydrogen on the UV Raman intensities of diamond-like carbon. <b>2011</b> , 20, 120-122	15
194	9 Facile synthesis of graphene nanosheets via Fe reduction of exfoliated graphite oxide. <b>2011</b> , 5, 191-8	742
194	Graphene transistors via in situ voltage-induced reduction of graphene-oxide under ambient conditions. <b>2011</b> , 133, 14320-6	50
194	Optical and sensing properties of 1-pyrenecarboxylic Acid-functionalized graphene films laminated on polydimethylsiloxane membranes. <b>2011</b> , 5, 1003-11	66

1946	Direct preparation of 1-PSA modified graphene nanosheets by supercritical fluidic exfoliation and its electrochemical properties. <b>2011</b> , 21, 3462-3466	74
1945	Graphite Oxide with Different Oxygenated Levels for Hydrogen and Oxygen Production from Water under Illumination: The Band Positions of Graphite Oxide. <b>2011</b> , 115, 22587-22597	232
1944	Catalytic oxidation and determination of ENADH using self-assembly hybrid of gold nanoparticles and graphene. <b>2011</b> , 136, 2735-40	56
1943	Reversible adsorption of conjugated amphiphilic dendrimers onto reduced graphene oxide (rGO) for fluorescence sensing. <b>2011</b> , 7, 8352	16
1942	Nanomaterials for Alternative Energy. <b>2011</b> , 199-246	
1941	Synergistic effect of Cu2+-coordinated carbon nanotube/graphene network on the electrical and mechanical properties of polymer nanocomposites. <b>2011</b> , 21, 18723	49
1940	Low-temperature exfoliation of multilayer-graphene material from FeCl3 and CH3NO2 co-intercalated graphite compound. <b>2011</b> , 47, 5265-7	34
1939	Charge transport in graphenepolythiophene blends as studied by Kelvin Probe Force Microscopy and transistor characterization. <b>2011</b> , 21, 2924	122
1938	An effective strategy for small-sized and highly-dispersed palladium nanoparticles supported on graphene with excellent performance for formic acid oxidation. <b>2011</b> , 21, 3384	220
1937	Muons probe strong hydrogen interactions with defective graphene. <b>2011</b> , 11, 4919-22	54
1936	Graphene solutions. <b>2011</b> , 47, 5470-2	73
1935	One-step electrochemical deposition of a graphene-ZrO2 nanocomposite: Preparation, characterization and application for detection of organophosphorus agents. <b>2011</b> , 21, 8032	150
1934	Highly conductive chemically converted graphene prepared from mildly oxidized graphene oxide. <b>2011</b> , 21, 7376	164
1933	Carbon-based liquid crystals: art and science. <b>2011</b> , 38, 1427-1449	58
1932	Mechanically strong and highly conductive graphene aerogel and its use as electrodes for electrochemical power sources. <b>2011</b> , 21, 6494	818
1931	Controllable Deposition of Platinum Nanoparticles on Graphene As an Electrocatalyst for Direct Methanol Fuel Cells. <b>2011</b> , 115, 15639-15645	360
1930	Self-Assembly of Octadecyltrichlorosilane on Graphene Oxide and the Tribological Performances of the Resultant Film. <b>2011</b> , 115, 10080-10086	73
1929	Graphene oxides dispersing and hosting graphene sheets for unique nanocomposite materials. <b>2011</b> , 5, 3052-8	82

1928	Graphene: fabrication methods and thermophysical properties. <b>2011</b> , 181, 233	31
1927	A graphene oxide/hemoglobin composite hydrogel for enzymatic catalysis in organic solvents. <b>2011</b> , 47, 4962-4	211
1926	Graphene: preparation and structural perfection. <b>2011</b> , 21, 3280-3294	114
1925	Steam etched porous graphene oxide network for chemical sensing. <b>2011</b> , 133, 15264-7	267
1924	Langmuir-Blodgett Assembly of Soft Carbon Sheets. <b>2011</b> , 1344, 1	
1923	Temperature dependence of graphene oxide reduced by hydrazine hydrate. <b>2011</b> , 22, 055705	495
1922	Self-aligned Graphene Sheets-Polyurethane Nanocomposites. <b>2011</b> , 1344, 1	1
1921	New role of graphene oxide as active hydrogen donor in the recyclable palladium nanoparticles catalyzed ullmann reaction in environmental friendly ionic liquid/supercritical carbon dioxide system. <b>2011</b> , 21, 3485	45
1920	Functionalized graphene reinforced thermoplastic nanocomposites as strain sensors in structural health monitoring. <b>2011</b> , 21, 12626	155
1919	Engineered graphite oxide materials for application in water purification. <b>2011</b> , 3, 1821-6	290
1918	Graphene-encapsulated iron microspheres on the graphene nanosheets. <b>2011</b> , 13, 17818-24	12
1917	Molecular insights into the surface morphology, layering structure, and aggregation kinetics of surfactant-stabilized graphene dispersions. <b>2011</b> , 133, 12810-23	128
1916	Polyphenol-Reduced Graphene Oxide: Mechanism and Derivatization. 2011, 115, 20740-20746	91
1915	Scanning tunneling microscopy and X-ray photoelectron spectroscopy studies of graphene films prepared by sonication-assisted dispersion. <b>2011</b> , 5, 6102-8	49
1914	Controlled assembly of Fe3O4 magnetic nanoparticles on graphene oxide. <b>2011</b> , 3, 1446-50	200
1913	A green approach to the synthesis of reduced graphene oxide nanosheets under UV irradiation. <b>2011</b> , 22, 215601	196
1912	General Avenue to Individually Dispersed Graphene Oxide-Based Two-Dimensional Molecular Brushes by Free Radical Polymerization. <b>2011</b> , 44, 444-452	180
1911	Large-scale integration of single-walled carbon nanotubes and graphene into sensors and devices using dielectrophoresis: A review. <b>2011</b> , 26, 1561-1571	20

1910	Size fractionation of graphene oxide sheets by pH-assisted selective sedimentation. <b>2011</b> , 133, 6338-42	264
1909	Superior conductive polystyrene Ehemically converted graphene nanocomposite. <b>2011</b> , 21, 11312	79
1908	Iodine doping in solid precursor-based CVD growth graphene film. <b>2011</b> , 21, 15209	94
1907	Facile synthesis of reduced graphene oxide in supercritical alcohols and its lithium storage capacity. <b>2011</b> , 13, 2714	69
1906	Transparent carbon nanotube patterns templated by inkjet-printed graphene oxide nanosheets. <b>2011</b> , 1, 44	14
1905	Fabrication of uniform graphene discs via transversal cutting of carbon nanofibers. <b>2011</b> , 5, 6254-61	23
1904	Synthesis and strong optical limiting response of graphite oxide covalently functionalized with gallium phthalocyanine. <b>2011</b> , 22, 205704	32
1903	Cu2O@reduced graphene oxide composite for removal of contaminants from water and supercapacitors. <b>2011</b> , 21, 10645	183
1902	Aqueous Dispersions of Few-Layered and Monolayered Hexagonal Boron Nitride Nanosheets from Sonication-Assisted Hydrolysis: Critical Role of Water. <b>2011</b> , 115, 2679-2685	429
1901	Flexible energy storage devices based on graphene paper. <b>2011</b> , 4, 1277	497
1900	Preparation and Enhanced Visible-Light Photocatalytic H2-Production Activity of Graphene/C3N4 Composites. <b>2011</b> , 115, 7355-7363	1511
1899	Chemically-modified graphenes for oxidation of DNA bases: analytical parameters. <b>2011</b> , 136, 4738-44	38
1898	Synthesis and enhanced photocatalytic performance of graphene-Bi2WO6 composite. <b>2011</b> , 13, 2887-93	412
1897	Microwave-assisted, environmentally friendly, one-pot preparation of Pd nanoparticles/graphene nanocomposites and their application in electrocatalytic oxidation of methanol. <b>2011</b> , 1, 1636	53
1896	Poly(3,4-ethylenedioxythiophene)-ionic liquid functionalized graphene/reduced graphene oxide nanostructures: improved conduction and electrochromism. <b>2011</b> , 3, 1115-26	96
1895	Poly(3,4-Ethylenedioxypyrrole) Enwrapped by Reduced Graphene Oxide: How Conduction Behavior at Nanolevel Leads to Increased Electrochemical Activity. <b>2011</b> , 115, 18354-18365	41
1894	Graphene oxide as an electrophile for carbon nucleophiles. <b>2011</b> , 47, 8790-2	42
1893	Effect of Oxygen Content on Structures of Graphite Oxides. <b>2011</b> , 50, 6132-6137	99

1892	A novel strategy for making soluble reduced graphene oxide sheets cheaply by adopting an endogenous reducing agent. <b>2011</b> , 21, 3365-3370	193
1891	Chemically active reduced graphene oxide with tunable C/O ratios. <b>2011</b> , 5, 4380-91	295
1890	Formation of Large-Area Nitrogen-Doped Graphene Film Prepared from Simple Solution Casting of Edge-Selectively Functionalized Graphite and Its Electrocatalytic Activity. <b>2011</b> , 23, 3987-3992	161
1889	Microwave-assisted covalent modification of graphene nanosheets with hydroxypropyl-Ecyclodextrin and its electrochemical detection of phenolic organic pollutants. <b>2011</b> , 21, 10463	107
1888	Graphene chiral liquid crystals and macroscopic assembled fibres. <b>2011</b> , 2, 571	833
1887	Graphite Oxide and Graphene Nanoribbons Reduction with Hydrogen Iodide. <b>2011</b> , 19, 461-468	27
1886	Reduced graphene oxide as capturer of dyes and electrons during photocatalysis: surface wrapping and capture promoted efficiency. <b>2011</b> , 13, 13216-21	89
1885	An environment-friendly preparation of reduced graphene oxide nanosheets via amino acid. <b>2011</b> , 22, 325601	251
1884	Graphene based new energy materials. <b>2011</b> , 4, 1113	1637
1883	One step hydrothermal synthesis of TiO2-reduced graphene oxide sheets. <b>2011</b> , 21, 3415	419
1882	Graphene oxide with covalently linked porphyrin antennae: Synthesis, characterization and photophysical properties. <b>2011</b> , 21, 109-117	207
1881	Electronic Properties of Bilayer Zigzag Graphene Nanoribbons: First Principles Study. <b>2011</b> , 28, 047304	6
1880	Strongly green-photoluminescent graphene quantum dots for bioimaging applications. <b>2011</b> , 47, 6858-60	1295
1879	Graphene: materials in the Flatland. <b>2011</b> , 181, 1299	32
1878	Sonochemical preparation of functionalized graphenes. <b>2011</b> , 133, 9148-51	137
1877	Photoreaction of Graphene Oxide Nanosheets in Water. <b>2011</b> , 115, 19280-19286	212
1876	Single step synthesis of graphene nanoribbons by catalyst particle size dependent cutting of multiwalled carbon nanotubes. <b>2011</b> , 3, 3876-82	42
1875	Controllable corrugation of chemically converted graphene sheets in water and potential application for nanofiltration. <b>2011</b> , 47, 5810-2	277

1874	Self assembly of graphene oxide at the liquid interface: A new route to the fabrication of graphene based composites. <b>2011</b> , 7, 3432	177
1873	Synthesis of polymer-protected graphene by solvent-assisted thermal reduction process. <b>2011</b> , 22, 345601	27
1872	Fabrication of hybrids based on graphene and metal nanoparticles by in situ and self-assembled methods. <b>2011</b> , 3, 1182-8	90
1871	Highly qualified reduced graphene oxides: the best chemical reduction. <b>2011</b> , 47, 9681-3	55
1870	Graphene supported Au-Pd bimetallic nanoparticles with core-shell structures and superior peroxidase-like activities. <b>2011</b> , 21, 17658	152
1869	Compression and aggregation-resistant particles of crumpled soft sheets. <b>2011</b> , 5, 8943-9	424
1868	Theoretical Study of the Electron Transport in Graphene with Vacancy and Residual Oxygen Defects after High-Temperature Reduction. <b>2011</b> , 115, 9719-9725	26
1867	Preparation of Tunable 3D Pillared Carbon Nanotube@raphene Networks for High-Performance Capacitance. <b>2011</b> , 23, 4810-4816	342
1866	Synthesis of 3D Hierarchical Fe3O4/Graphene Composites with High Lithium Storage Capacity and for Controlled Drug Delivery. <b>2011</b> , 115, 21567-21573	272
1865	Transformative two-dimensional layered nanocrystals. <b>2011</b> , 133, 14500-3	49
1864	Strain mapping in a graphene monolayer nanocomposite. <b>2011</b> , 5, 3079-84	127
1863	Nanostructured Materials for Engineering Applications. 2011,	19
1862	Wrapping bacteria by graphene nanosheets for isolation from environment, reactivation by sonication, and inactivation by near-infrared irradiation. <b>2011</b> , 115, 6279-88	454
1861	Protein-directed reduction of graphene oxide and intracellular imaging. <b>2011</b> , 47, 12658-60	54
1860	Peptide-functionalized colloidal graphene via interdigited bilayer coating and fluorescence turn-on detection of enzyme. <b>2011</b> , 3, 3335-41	56
1859	Nanofillers. <b>2011</b> , 1	
1858	Charge transfer interactions between conjugated block copolymers and reduced graphene oxides. <b>2011</b> , 47, 10293-5	19
1857	Transport behavior and negative magnetoresistance in chemically reduced graphene oxide nanofilms. <b>2011</b> , 22, 335701	25

1856	Optical bifunctionality of europium-complexed luminescent graphene nanosheets. <b>2011</b> , 11, 5227-33	79
1855	Nanoreinforcements for Nanocomposite Materials. <b>2011</b> , 119-131	5
1854	Electrochemical deposition of polyaniline nanosheets mediated by sulfonated polyaniline functionalized graphenes. <b>2011</b> , 21, 13978	50
1853	. 2011,	2
1852	Electrical transport properties of graphene nanoribbons produced from sonicating graphite in solution. <b>2011</b> , 22, 325201	8
1851	Tuning the Electronic Transport Properties of Zigzag Graphene Nanoribbons via Hydrogenation Separators. <b>2011</b> , 115, 24366-24372	9
1850	Chemically modified graphene sheets by functionalization of highly exfoliated graphite. <b>2011</b> , 21, 3410-3414	49
1849	Ethanol-assisted graphene oxide-based thin film formation at pentane-water interface. <b>2011</b> , 27, 9174-81	66
1848	Enhanced thermopower of graphene films with oxygen plasma treatment. <b>2011</b> , 5, 2749-55	162
1847	Flexible solid state lithium batteries based on graphene inks. <b>2011</b> , 21, 9762	46
1846	Graphene-Based Solid-Phase Extraction for a Sensitive Determination of Trace Amounts of Lead in Water Samples. <b>2011</b> , 1, 337-348	
1845	Synergistic antibacterial brilliant blue/reduced graphene oxide/quaternary phosphonium salt composite with excellent water solubility and specific targeting capability. <b>2011</b> , 27, 7828-35	125
1844	Graphene oxide for electrochemical sensing applications. <b>2011</b> , 21, 14725	85
1843	The electromagnetic property of chemically reduced graphene oxide and its application as microwave absorbing material. <b>2011</b> , 98, 072906	520
1842	Atomic-scale characterization of graphene grown on copper (100) single crystals. <b>2011</b> , 133, 12536-43	136
1841	Graphenes Converted from Polymers. <b>2011</b> , 2, 493-497	140
1840	Large-area graphene films by simple solution casting of edge-selectively functionalized graphite. <b>2011</b> , 5, 4974-80	85
1839	Viscoelasticity of Graphite Oxide-Based Suspensions in PDMS. <b>2011</b> , 44, 3893-3900	55

1838	Flexible graphene/MnO2 composite papers for supercapacitor electrodes. <b>2011</b> , 21, 14706	344
1837	Graphene Composites. <b>2011</b> ,	4
1836	Band Gap Opening of Graphene after UV/Ozone and Oxygen Plasma Treatments. <b>2011</b> , 1284, 117	1
1835	Single Layer Graphene Oxide Sheets-Epoxy Nanocomposites with Greatly Improved Mechanical and Thermal Properties. <b>2011</b> , 391-392, 175-179	2
1834	Single-unit-cell thick Mn3O4 nanosheets. <b>2011</b> , 47, 12831-3	40
1833	Top down method for synthesis of highly conducting graphene by exfoliation of graphite oxide using focused solar radiation. <b>2011</b> , 21, 6800	139
1832	Electrical current mediated interconversion between graphene oxide to reduced grapene oxide. <b>2011</b> , 98, 173105	32
1831	Anchoring Ceria Nanoparticles on Reduced Graphene Oxide and Their Electronic Transport Properties. <b>2011</b> , 115, 24494-24500	110
1830	Graphene fixed-end beam arrays based on mechanical exfoliation. <b>2011</b> , 98, 253105	41
1829	High-performance supercapacitor electrodes based on graphene hydrogels modified with 2-aminoanthraquinone moieties. <b>2011</b> , 13, 11193-8	151
1828	Decorating graphene sheets with Pt nanoparticles using sodium citrate as reductant. <b>2011</b> , 257, 10758-10762	44
1827	Surface adhesion properties of graphene and graphene oxide studied by colloid-probe atomic force microscopy. <b>2011</b> , 258, 1077-1081	30
1826	Graphene-assisted matrix solid-phase dispersion for extraction of polybrominated diphenyl ethers and their methoxylated and hydroxylated analogs from environmental samples. <b>2011</b> , 708, 61-8	78
1825	Potassium influence in the adsorption of hydrogen on graphene: A density functional theory study. <b>2011</b> , 50, 2427-2432	28
1824	Graphene-based nanomaterials for energy storage. <b>2011</b> , 4, 668-674	1042
1823	Site-specific immobilization of gold binding polypeptide on gold nanoparticle-coated graphene sheet for biosensor application. <b>2011</b> , 3, 2950-6	46
1822	A simple and efficient method to prepare graphene by reduction of graphite oxide with sodium hydrosulfite. <b>2011</b> , 22, 045704	167
1821	Nobel Lecture: Graphene: Materials in the Flatland*. <b>2011</b> , 83, 837-849	584

1820	Graphene surface-enabled lithium ion-exchanging cells: next-generation high-power energy storage devices. <b>2011</b> , 11, 3785-91	212
1819	Graphene-based photocatalytic composites. <b>2011</b> , 1, 1426	453
1818	On the Gelation of Graphene Oxide. <b>2011</b> , 115, 5545-5551	544
1817	Microwave-assisted rapid synthesis of water-soluble graphene. <b>2011</b> , 21, 10421	37
1816	Click Chemistry on Solution-Dispersed Graphene and Monolayer CVD Graphene. <b>2011</b> , 23, 3362-3370	156
1815	High concentration few-layer graphene sheets obtained by liquid phase exfoliation of graphite in ionic liquid. <b>2011</b> , 21, 3428-3431	317
1814	Straightforward synthesis of conductive graphene/polymer nanocomposites from graphite oxide. <b>2011</b> , 47, 2544-6	74
1813	Modulating optical properties of graphene oxide: role of prominent functional groups. <b>2011</b> , 5, 7640-7	173
1812	Novel PEG functionalized graphene nanosheets: enhancement of dispersibility and thermal stability. <b>2011</b> , 3, 2169-74	117
1811	Graphene-based electrochemical energy conversion and storage: fuel cells, supercapacitors and lithium ion batteries. <b>2011</b> , 13, 15384-402	432
1810	Synthesis and characterization of graphene paper with controllable properties via chemical reduction. <b>2011</b> , 21, 14631	80
1809	Wedging graphite into graphene and graphene-like platelets by dendritic macromolecules. <b>2011</b> , 21, 7820	24
1808	Target recycling amplification for sensitive and label-free impedimetric genosensing based on hairpin DNA and graphene/Au nanocomposites. <b>2011</b> , 47, 12798-800	71
1807	Microwave-Exfoliated Graphite Oxide/Polycarbonate Composites. <b>2011</b> , 44, 6488-6495	90
1806	Functionalization of graphene with electrodeposited Prussian blue towards amperometric sensing application. <b>2011</b> , 85, 76-81	72
1805	A novel lable-free electrochemical immunosensor for carcinoembryonic antigen based on gold nanoparticles-thionine-reduced graphene oxide nanocomposite film modified glassy carbon electrode. <b>2011</b> , 85, 2620-5	98
1804	Application of chitosan/FeDImicrosphere-graphene composite modified carbon ionic liquid electrode for the electrochemical detection of the PCR product of soybean Lectin gene sequence. <b>2011</b> , 87, 106-12	40
1803	In vitro toxicity evaluation of graphene oxide on A549 cells. <b>2011</b> , 200, 201-10	1026

1802	High-performance self-assembled graphene hydrogels prepared by chemical reduction of graphene oxide. <b>2011</b> , 26, 9-15	249
1801	Reduced graphene oxide electrically contacted graphene sensor for highly sensitive nitric oxide detection. <b>2011</b> , 5, 6955-61	321
1800	Conversion of carbon dioxide to few-layer graphene. <b>2011</b> , 21, 9491	213
1799	Comparison of GO, GO/MWCNTs composite and MWCNTs as potential electrode materials for supercapacitors. <b>2011</b> , 4, 1855	348
1798	Intercalation of mesoporous carbon spheres between reduced graphene oxide sheets for preparing high-rate supercapacitor electrodes. <b>2011</b> , 4, 1866	394
1797	Layer-by-layer assembly and UV photoreduction of graphene-polyoxometalate composite films for electronics. <b>2011</b> , 133, 9423-9	278
1796	Mg(OH)2@reduced graphene oxide composite for removal of dyes from water. <b>2011</b> , 21, 13765	119
1795	Butterfly-shaped conjugated oligoelectrolyte/graphene oxide integrated assay for light-up visual detection of heparin. <b>2011</b> , 83, 7849-55	95
1794	Stable aqueous dispersion of reduced graphene nanosheets via non-covalent functionalization with conducting polymers and application in transparent electrodes. <b>2011</b> , 27, 2014-8	143
1793	Fabrication of a palladium nanoparticle/graphene nanosheet hybrid via sacrifice of a copper template and its application in catalytic oxidation of formic acid. <b>2011</b> , 47, 2014-6	119
1792	High-yield dielectrophoretic deposition and ion sensitivity of graphene. 2011,	1
1791	Doped graphene sheets as anode materials with superhigh rate and large capacity for lithium ion batteries. <b>2011</b> , 5, 5463-71	1700
1790	Selective organic functionalization of graphene bulk or graphene edges. <b>2011</b> , 47, 9330-2	108
1789	Growth of single crystal graphene arrays by locally controlling nucleation on polycrystalline Cu using chemical vapor deposition. <b>2011</b> , 23, 4898-903	154
1788	Evaluation Criteria for Reduced Graphene Oxide. <b>2011</b> , 115, 11327-11335	409
1787	Harvesting energy from water flow over graphene. <b>2011</b> , 11, 3123-7	166
1786	On the nature and importance of the transition between molecules and nanocrystals: towards a chemistry of "nanoscale perfection". <b>2011</b> , 3, 3435-46	33
1785	Electrocatalytic Activity and Stability of Pt clusters on State-of-the-Art Supports: A Review. <b>2011</b> , 53, 256-336	103

1784	Solar exfoliated graphenedarbon nanotube hybrid nano composites as efficient catalyst supports for proton exchange membrane fuel cells. <b>2011</b> , 21, 18199	47
1783	Aqueous liquid crystals of graphene oxide. <b>2011</b> , 5, 2908-15	482
1782	Advanced mechanical properties of graphene paper. <b>2011</b> , 109, 014306	132
1781	Electric field-induced nanopatterning of reduced graphene oxide on Si and a pB diode junction. <b>2011</b> , 21, 5805	10
1780	GRAPHENE: SYNTHESIS, FUNCTIONALIZATION AND PROPERTIES. <b>2011</b> , 25, 4107-4143	18
1779	Preparation of grapheneliO2 composites with enhanced photocatalytic activity. <b>2011</b> , 35, 353-359	482
1778	Surface plasmon resonance-induced visible light photocatalytic reduction of graphene oxide: using Ag nanoparticles as a plasmonic photocatalyst. <b>2011</b> , 3, 2142-4	127
1777	Graphene Oxide as a Two-dimensional Surfactant. <b>2011</b> , 1344, 1	2
1776	Assembly of graphene sheets into hierarchical structures for high-performance energy storage. <b>2011</b> , 5, 3831-8	364
1775	Assembly of chemically modified graphene: methods and applications. <b>2011</b> , 21, 3311-3323	231
1774	From graphite oxide to highly water dispersible functionalized graphene by single step plant extract-induced deoxygenation. <b>2011</b> , 13, 1990	129
1773	Hydrolysable tannin as environmentally friendly reducer and stabilizer for graphene oxide. <b>2011</b> , 13, 1655	200
1772	Graphene dispersion and graphene paper from highly exfoliated graphite. 2011,	
1771	Partially oxidized graphene as a precursor to graphene. <b>2011</b> , 21, 11217	66
1770	Morphology, Crystallization Behavior, and Dynamic Mechanical Properties of Biodegradable Poly(Etaprolactone)/Thermally Reduced Graphene Nanocomposites. <b>2011</b> , 50, 13885-13891	85
1769	Sticky interconnect for solution-processed tandem solar cells. <b>2011</b> , 133, 9262-5	162
1768	Facile synthesis of soluble graphene via a green reduction of graphene oxide in tea solution and its biocomposites. <b>2011</b> , 3, 1127-33	459
1767	High-yield synthesis of few-layer graphene flakes through electrochemical expansion of graphite in propylene carbonate electrolyte. <b>2011</b> , 133, 8888-91	483

1766	Vertical ZnO nanowires/graphene hybrids for transparent and flexible field emission. <b>2011</b> , 21, 3432-3437	216
1765	Facile synthesis of 3D boron nitride nanoflowers composed of vertically aligned nanoflakes and fabrication of graphene-like BN by exfoliation. <b>2011</b> , 21, 9201	76
1764	The enzymatic oxidation of graphene oxide. <b>2011</b> , 5, 2098-108	313
1763	High-throughput production of pristine graphene in an aqueous dispersion assisted by non-ionic surfactants. <b>2011</b> , 49, 1653-1662	403
1762	Functionalized Graphene Oxide as a New Highly Proton Conductive Composite Membrane for High Temperature PEMFCs. <b>2011</b> ,	
1761	Structural Analysis and Direct Imaging of Rotational Stacking Faults in Few-Layer Graphene Synthesized from Solid Botanical Precursor. <b>2011</b> , 50, 070106	3
1760	. 2011,	14
1759	Trends and Frontiers in Graphene-Based Polymer Nanocomposites. <b>2011</b> , 67, 32-42	92
1758	Graphene Nano-Flakes and Nano-Dots: Theory, Experiment and Applications. <b>2011</b> ,	4
1757	Graphene Nanoplatelets via Exfoliation of Platelet Carbon Nanofibers and Its Electric Double Layer Capacitance. <b>2011</b> , 40, 44-45	9
1756	Oxygen Reduction Reaction Activity of Pt/Graphene Composites with Various Graphene Size. <b>2011</b> , 79, 337-339	25
1755	Synthetic Aspects and Selected Properties of Graphene. <b>2011</b> , 1, 5	7
1754	Covalent bulk functionalization of graphene. <b>2011</b> , 3, 279-86	525
1753	Three-dimensional flexible and conductive interconnected graphene networks grown by chemical vapour deposition. <b>2011</b> , 10, 424-8	3105
1752	Nanomaterials: Exfoliating the inorganics. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 200-1 28.7	21
1751	Graphene and graphene oxide: biofunctionalization and applications in biotechnology. <b>2011</b> , 29, 205-12	1150
1750	Controlled release of drug from folate-decorated and graphene mediated drug delivery system: Synthesis, loading efficiency, and drug release response. <b>2011</b> , 31, 1305-1312	324
1749	Electrochemical performances of graphene nanosheets prepared through microwave radiation. <b>2011</b> , 196, 10249-10253	23

1748	Hemin functionalized graphene nanosheets-based dual biosensor platforms for hydrogen peroxide and glucose. <b>2011</b> , 160, 295-300	121
1747	Poly(ionic liquid)-stabilized graphene sheets and their hybrid with poly(3,4-ethylenedioxythiophene). <b>2011</b> , 12, 2215-2224	72
1746	Hydrothermal synthesis of magnetic reduced graphene oxide sheets. <b>2011</b> , 46, 2077-2083	39
1745	One-step synthesis of reduced graphite oxideBilver nanocomposite. <b>2011</b> , 46, 2004-2008	17
1744	Conductive methyl blue-functionalized reduced graphene oxide with excellent stability and solubility in water. <b>2011</b> , 46, 2353-2358	24
1743	Femtosecond laser induced micropatterning of graphene film. <b>2011</b> , 65, 1569-1572	58
1742	One-pot solvothermal synthesis of sandwich-like graphene nanosheets/Fe3O4 hybrid material and its microwave electromagnetic properties. <b>2011</b> , 65, 1737-1740	75
1741	Flower-like zinc oxide deposited on the film of graphene oxide and its photoluminescence. <b>2011</b> , 65, 1885-1888	9
1740	A study on the preparation of highly conductive graphene. <b>2011</b> , 65, 2582-2584	27
1739	Preparation of graphene and TiO2 layer by layer composite with highly photocatalytic efficiency. <b>2011</b> , 21, 467-471	47
1738	Tuning the electronic transport properties of grapheme through functionalisation with fluorine. <b>2011</b> , 6, 526	90
1737	Microwave-assisted synthesis of palladium nanoparticles supported on graphene: A highly active and recyclable catalyst for carbon arbon cross-coupling reactions. <b>2011</b> , 279, 1-11	329
1736	Synthesis and electrochemical applications of the composites of conducting polymers and chemically converted graphene. <b>2011</b> , 56, 10737-10743	52
1735	Flow-injection amperometric glucose biosensors based on graphene/Nafion hybrid electrodes. <b>2011</b> , 56, 9721-9726	53
1734	Nitrogen-rich copolymeric microsheets supporting copper nanoparticles for catalyzing arylation of N-heterocycles. <b>2011</b> , 403, 104-111	25
1733	Recent advances in graphene-based biosensors. <b>2011</b> , 26, 4637-48	1025
1732	The comparison of different gold nanoparticles/graphene nanosheets hybrid nanocomposites in electrochemical performance and the construction of a sensitive uric acid electrochemical sensor with novel hybrid nanocomposites. <b>2011</b> , 29, 102-8	86
1731	Simulations for the formation dynamics and electronic states of carbon nano materials: Diffusion and alignment of oxygen atoms on graphene. <b>2011</b> , 11, S50-S54	5

1730	Thermal conductivity and structure of non-covalent functionalized graphene/epoxy composites. <b>2011</b> , 49, 5107-5116	572
1729	Graphene-modified carbon fiber mats used to improve the activity and stability of Pt catalyst for methanol electrochemical oxidation. <b>2011</b> , 49, 5158-5165	62
1728	Interaction between graphite oxide and Congo red in aqueous media. <b>2011</b> , 49, 5373-5381	37
1727	Ultrasonication-assisted ultrafast reduction of graphene oxide by zinc powder at room temperature. <b>2011</b> , 49, 5389-5397	296
1726	Adsorption characteristics of acrylonitrile, p-toluenesulfonic acid, 1-naphthalenesulfonic acid and methyl blue on graphene in aqueous solutions. <b>2011</b> , 173, 144-149	285
1725	Synthesis and surface engineering of nanomaterials by atmospheric-pressure microplasmas. <b>2011</b> , 56, 24020	29
1724	A biosensor based on graphene nanoribbon with nanopores: a first-principles devices-design. <b>2011</b> , 20, 058504	32
1723	Direct electro-deposition of graphene from aqueous suspensions. <b>2011</b> , 13, 9187-93	172
1722	High-quality thin graphene films from fast electrochemical exfoliation. <b>2011</b> , 5, 2332-9	765
1721	Photoluminescence from chemically exfoliated MoS2. <b>2011</b> , 11, 5111-6	2897
1721 1720	Photoluminescence from chemically exfoliated MoS2. <b>2011</b> , 11, 5111-6  Reparameterization of the REBO-CHO potential for graphene oxide molecular dynamics simulations. <b>2011</b> , 84,	2897
1720	Reparameterization of the REBO-CHO potential for graphene oxide molecular dynamics	
1720	Reparameterization of the REBO-CHO potential for graphene oxide molecular dynamics simulations. <b>2011</b> , 84,  One-pot reduction of graphene oxide at subzero temperatures. <b>2011</b> , 47, 12370-2	29
1720 1719	Reparameterization of the REBO-CHO potential for graphene oxide molecular dynamics simulations. <b>2011</b> , 84,  One-pot reduction of graphene oxide at subzero temperatures. <b>2011</b> , 47, 12370-2	29
1720 1719 1718	Reparameterization of the REBO-CHO potential for graphene oxide molecular dynamics simulations. <b>2011</b> , 84,  One-pot reduction of graphene oxide at subzero temperatures. <b>2011</b> , 47, 12370-2  Graphene filled polymer nanocomposites. <b>2011</b> , 21, 3301-3310	29 373 596
1720 1719 1718	Reparameterization of the REBO-CHO potential for graphene oxide molecular dynamics simulations. <b>2011</b> , 84,  One-pot reduction of graphene oxide at subzero temperatures. <b>2011</b> , 47, 12370-2  Graphene filled polymer nanocomposites. <b>2011</b> , 21, 3301-3310  Large-scale production of graphene by microwave synthesis and rapid cooling. <b>2011</b> , 47, 1166-8  Graphene nanosheet: synthesis, molecular engineering, thin film, hybrids, and energy and analytical	<ul><li>29</li><li>373</li><li>596</li><li>56</li></ul>
1720 1719 1718 1717 1716	Reparameterization of the REBO-CHO potential for graphene oxide molecular dynamics simulations. 2011, 84,  One-pot reduction of graphene oxide at subzero temperatures. 2011, 47, 12370-2  Graphene filled polymer nanocomposites. 2011, 21, 3301-3310  Large-scale production of graphene by microwave synthesis and rapid cooling. 2011, 47, 1166-8  Graphene nanosheet: synthesis, molecular engineering, thin film, hybrids, and energy and analytical applications. 2011, 40, 2644-72	<ul><li>29</li><li>373</li><li>596</li><li>56</li><li>1085</li></ul>

1712	Dual path mechanism in the thermal reduction of graphene oxide. <b>2011</b> , 133, 17315-21	356
1711	Preparation of polyester/reduced graphene oxide composites via in situ melt polycondensation and simultaneous thermo-reduction of graphene oxide. <b>2011</b> , 21, 8612	128
1710	Chemical functionalization of graphene sheets by solvothermal reduction of a graphene oxide suspension in N-methyl-2-pyrrolidone. <b>2011</b> , 21, 3371-3377	313
1709	One-step in situball milling synthesis of polymer-functionalized graphene nanocomposites. <b>2011</b> , 21, 8626	145
1708	Graphene-polymer composite: extraction of polycyclic aromatic hydrocarbons from samples by stir rod sorptive extraction. <b>2011</b> , 3, 92-98	97
1707	Reduction of graphite oxide using alcohols. <b>2011</b> , 21, 3443-3447	342
1706	Nanotube and Graphene Polymer Composites for Photonics and Optoelectronics. 2011, 279-354	5
1705	Chemical doping of graphene. <b>2011</b> , 21, 3335-3345	1227
1704	Ultrafast Relaxation Dynamics in Graphene Oxide: Evidence of Electron Trapping. <b>2011</b> , 115, 19110-19116	81
1703	Controlling graphite oxide bandgap width by reduction in hydrogen. <b>2011</b> , 37, 942-945	15
1702	Direct exfoliation of graphene in methanesulfonic acid and facile synthesis of graphene/polybenzimidazole nanocomposites. <b>2011</b> , 21, 505-512	69
1701	One-step electrochemical synthesis of PtNi nanoparticle-graphene nanocomposites for nonenzymatic amperometric glucose detection. <b>2011</b> , 3, 3049-57	323
1700	Graphene growth by a metal-catalyzed solid-state transformation of amorphous carbon. <b>2011</b> , 5, 1529-34	127
1699	Few-layer graphenes from ball-milling of graphite with melamine. <b>2011</b> , 47, 10936-8	265
1698	Thermal properties of graphene and nanostructured carbon materials. <b>2011</b> , 10, 569-81	4185
1697	GRAPHENE: SYNTHESIS, FUNCTIONALIZATION AND PROPERTIES. <b>2011</b> , 25, 427-451	36
1696	Laser assisted photocatalytic reduction of metal ions by graphene oxide. <b>2011</b> , 21, 9608	89
1695	Materials and transducers toward selective wireless gas sensing. <b>2011</b> , 111, 7315-54	219

1694	Toward practical gas sensing with highly reduced graphene oxide: a new signal processing method to circumvent run-to-run and device-to-device variations. <b>2011</b> , 5, 1154-64	312
1693	Bi- and trilayer graphene solutions. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 439-45 28.7	304
1692	Environmentally friendly approaches toward the mass production of processable graphene from graphite oxide. <b>2011</b> , 21, 298-306	154
1691	Stimuli-Responsive Polymer Covalent Functionalization of Graphene Oxide by Ce(IV)-Induced Redox Polymerization. <b>2011</b> , 115, 24636-24641	44
1690	Antibacterial activity of graphite, graphite oxide, graphene oxide, and reduced graphene oxide: membrane and oxidative stress. <b>2011</b> , 5, 6971-80	1900
1689	Reducing Graphene Oxide via Hydroxylamine: A Simple and Efficient Route to Graphene. <b>2011</b> , 115, 11957-11	9 <b>66</b> 6
1688	Graphene-based hybrid materials and devices for biosensing. <b>2011</b> , 63, 1352-60	230
1687	Review on polymer/graphite nanoplatelet nanocomposites. <b>2011</b> , 46, 5595-5614	340
1686	Synthesis, mechanical, and barrier properties of LDPE/graphene nanocomposites using vinyl triethoxysilane as a coupling agent. <b>2011</b> , 13, 869-878	73
1685	Modification of Graphene Platelets and their Tribological Properties as a Lubricant Additive. <b>2011</b> , 41, 209-215	347
1684	Direct electrochemistry and enhanced electrocatalytic activity of hemoglobin entrapped in graphene and ZnO nanosphere composite film. <b>2011</b> , 172, 425-430	41
1683	Voltammetric sensor for caffeine based on a glassy carbon electrode modified with Nafion and graphene oxide. <b>2011</b> , 174, 383-390	51
1682	Enhanced interfacial interaction for effective reinforcement of poly(vinyl alcohol) nanocomposites at low loading of graphene. <b>2011</b> , 67, 1785-1797	38
1681	Electrochemical detection of dioxygen and hydrogen peroxide by hemin immobilized on chemically converted graphene. <b>2011</b> , 657, 34-38	50
1680	Green fabrication of chitosan films reinforced with parallel aligned graphene oxide. <b>2011</b> , 83, 1908-1915	216
1679	The role of graphene oxide content on the adsorption-enhanced photocatalysis of titanium dioxide/graphene oxide composites. <b>2011</b> , 170, 226-232	339
1678	Preparation, characterization, and electrocatalytic performance of graphene-methylene blue thin films. <b>2011</b> , 4, 124-130	34
1677	High temperature stability of platinum nanoparticles on few-layer graphene investigated by In Situ high resolution transmission electron microscopy. <b>2011</b> , 4, 511-521	24

	1676	Sodium citrate: A universal reducing agent for reduction / decoration of graphene oxide with au nanoparticles. <b>2011</b> , 4, 599-611	137
	1675	One-step electrochemical approach to the synthesis of Graphene/MnO2 nanowall hybrids. <b>2011</b> , 4, 648-657	107
	1674	Highly sensitive protein sensor based on thermally-reduced graphene oxide field-effect transistor. <b>2011</b> , 4, 921-930	76
	1673	The properties of functionalized graphene sheet/poly(ethyl methacrylate) nanocomposites: The effects of preparation method. <b>2011</b> , 19, 379-384	15
;	1672	Synthesis of PEO-based block copolymers bearing cyclic hydrazide or carboxylic acid moieties and their applications as stabilizers for Fe3O4 nanoparticles. <b>2011</b> , 19, 716-721	3
:	1671	Functionalized graphene sheet/polyurethane nanocomposites: Effect of particle size on physical properties. <b>2011</b> , 19, 809-814	92
	1670	Graphene nanosheets decorated with Pd, Pt, Au, and Ag nanoparticles: Synthesis, characterization, and catalysis applications. <b>2011</b> , 54, 397-404	100
	1669	Effect of feeding ratios on the structure and electrochemical performance of graphite oxide/polypyrrole nanocomposites. <b>2011</b> , 56, 2846-2852	14
	1668	High-quality reduced graphene oxide-nanocrystalline platinum hybrid materials prepared by simultaneous co-reduction of graphene oxide and chloroplatinic acid. <b>2011</b> , 6, 241	75
:	1667	Influences of graphene oxide support on the electrochemical performances of graphene oxide-MnO2 nanocomposites. <b>2011</b> , 6, 531	89
	1666	Preparation of Pt Ag alloy nanoisland/graphene hybrid composites and its high stability and catalytic activity in methanol electro-oxidation. <b>2011</b> , 6, 551	95
	1665	A novel mechanical cleavage method for synthesizing few-layer graphenes. <b>2011</b> , 6, 95	166
	1664	Functionalization of graphene oxide towards thermo-sensitive nanocomposites via moderate in situ SET-LRP. <b>2011</b> , 49, 4747-4755	73
	1663	Preparation of graphene/poly(vinyl alcohol) nanocomposites with enhanced mechanical properties and water resistance. <b>2011</b> , 60, 816-822	242
	1662	Simple preparation of high-quality graphene flakes without oxidation using potassium salts. <b>2011</b> , 7, 864-8	65
	1661	Delamination of layered covalent organic frameworks. <b>2011</b> , 7, 1207-11	199
	1660	Chitosan-functionalized graphene oxide as a nanocarrier for drug and gene delivery. <b>2011</b> , 7, 1569-78	694
	1659	Wrapping graphene sheets around organic wires for making memory devices. <b>2011</b> , 7, 2372-8	13

1658	Physical vapor deposition of metal nanoparticles on chemically modified graphene: observations on metal-graphene interactions. <b>2011</b> , 7, 3202-10	89
1657	Films of Highly Disperse Electrodeposited Poly(N-vinylcarbazole)©raphene Oxide Nanocomposites. <b>2011</b> , 212, 2371-2377	12
1656	Dispersion and Exfoliation of Graphene in Rubber by an Ultrasonically-Assisted Latex Mixing and In situ Reduction Process. <b>2011</b> , 296, 590-602	199
1655	Transparent and Conductive Graphene Oxide/Poly(ethylene glycol) diacrylate Coatings Obtained by Photopolymerization. <b>2011</b> , 296, 401-407	38
1654	Recent advances in the covalent modification of graphene with polymers. <b>2011</b> , 32, 1771-89	252
1653	Spark Plasma Sintered Hydroxyapatite/Graphite Nanosheet and Hydroxyapatite/Multiwalled Carbon Nanotube Composites: Mechanical and in Vitro Cellular Properties. <b>2011</b> , 13, 336-341	54
1652	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Mussel-Inspired Chemistry. <b>2011</b> , 21, 108-112	368
1651	Synthesis, Characterization, and Ammonia Adsorption Properties of Mesoporous Metal©rganic Framework (MIL(Fe))©raphite Oxide Composites: Exploring the Limits of Materials Fabrication. <b>2011</b> , 21, 2108-2117	262
1650	Spontaneous Formation of Liquid Crystals in Ultralarge Graphene Oxide Dispersions. <b>2011</b> , 21, 2978-2988	314
1649	Emerging transparent electrodes based on thin films of carbon nanotubes, graphene, and metallic nanostructures. <b>2011</b> , 23, 1482-513	1737
1648	Functional composite materials based on chemically converted graphene. <b>2011</b> , 23, 1089-115	859
1647	An electrochemical avenue to green-luminescent graphene quantum dots as potential electron-acceptors for photovoltaics. <b>2011</b> , 23, 776-80	1330
1646	Graphene-biomineral hybrid materials. <b>2011</b> , 23, 2009-14	151
1645	Bioinspired effective prevention of restacking in multilayered graphene films: towards the next generation of high-performance supercapacitors. <b>2011</b> , 23, 2833-8	888
1644	Self-organized graphene patterns. <b>2011</b> , 23, 2734-8	42
1643	Room-temperature compression-induced diamondization of few-layer graphene. <b>2011</b> , 23, 3014-7	89
1642	Supported graphene from natural resources: easy preparation and applications. <b>2011</b> , 23, 5250-5	122
1641	Interphases in graphene polymer-based nanocomposites: achievements and challenges. <b>2011</b> , 23, 5302-10	228

1640	A graphene-conjugated oligomer hybrid probe for light-up sensing of lectin and Escherichia coli. <b>2011</b> , 23, 4386-91	132
1639	Graphene - a promising material for organic photovoltaic cells. <b>2011</b> , 23, 5342-58	218
1638	Graphene Based Materials: Enhancing Solar Energy Harvesting. <b>2011</b> , 1, 448-452	136
1637	Water Processable Graphene Oxide:Single Walled Carbon Nanotube Composite as Anode Modifier for Polymer Solar Cells. <b>2011</b> , 1, 1052-1057	83
1636	Functionalized Graphene for Biosensing Applications. <b>2011</b> , 221-235	
1635	Graphene and Related Materials in Electrochemical Sensing. <b>2011</b> , 23, 803-826	225
1634	Palladium Nanoparticles on Graphite Oxide as Catalyst for Suzuki?Miyaura, Mizoroki?Heck, and Sonogashira Reactions. <b>2011</b> , 94, 966-976	49
1633	Improved properties of highly oriented graphene/polymer nanocomposites. <b>2011</b> , 121, 3167-3174	57
1632	Preparation and mechanical and electrical properties of graphene nanosheetspoly(methyl methacrylate) nanocomposites via in situ suspension polymerization. <b>2011</b> , 122, 1866-1871	69
1631	Graphenoxid als Katalysator: Kohlenstoffmaterialien in Anwendungen jenseits der Nanotechnologie. <b>2011</b> , 123, 46-48	31
1630	Graphene Oxide Liquid Crystals. <b>2011</b> , 123, 3099-3103	39
1629	The Real Graphene Oxide Revealed: Stripping the Oxidative Debris from the Graphene-like Sheets. <b>2011</b> , 123, 3231-3235	106
1628	Surface Energy-Level Tuning of Silver Nanoparticles for Facilitated Olefin Transport. <b>2011</b> , 123, 3038-3041	20
1627	Asymmetrically Functionalized Graphene for Photodependent Diode Rectifying Behavior. <b>2011</b> , 123, 6705-6708	8
1626	Claisen Rearrangement of Graphite Oxide: A Route to Covalently Functionalized Graphenes. <b>2011</b> , 123, 9010-9014	21
1625	Graphen: Materialien im Flachland (Nobel- Aufsatz). <b>2011</b> , 123, 7123-7141	22
1624	LiMn1NFexPO4 Nanorods Grown on Graphene Sheets for Ultrahigh-Rate-Performance Lithium Ion Batteries. <b>2011</b> , 123, 7502-7506	86
1623	Graphene oxide as catalyst: application of carbon materials beyond nanotechnology. <b>2011</b> , 50, 46-8	336

1622	Graphene oxide liquid crystals. <b>2011</b> , 50, 3043-7	453
1621	The real graphene oxide revealed: stripping the oxidative debris from the graphene-like sheets. <b>2011</b> , 50, 3173-7	485
1620	Surface energy-level tuning of silver nanoparticles for facilitated olefin transport. <b>2011</b> , 50, 2982-5	44
1619	Asymmetrically functionalized graphene for photodependent diode rectifying behavior. <b>2011</b> , 50, 6575-8	42
1618	Claisen rearrangement of graphite oxide: a route to covalently functionalized graphenes. <b>2011</b> , 50, 8848-52	77
1617	Graphene: materials in the Flatland (Nobel lecture). <b>2011</b> , 50, 6986-7002	133
1616	LiMn(1-x)Fe(x)PO4 nanorods grown on graphene sheets for ultrahigh-rate-performance lithium ion batteries. <b>2011</b> , 50, 7364-8	248
1615	Charm-bracelet-type poly(N-vinylcarbazole) functionalized with reduced graphene oxide for broadband optical limiting. <b>2011</b> , 17, 780-5	63
1614	Interfacing colloidal graphene oxide sheets with gold nanoparticles. <b>2011</b> , 17, 5958-64	61
1613	Synthesis and characterization of red-luminescent graphene oxide functionalized with silica-coated Eu3+ complex nanoparticles. <b>2011</b> , 17, 7007-12	23
1612	In situ growth of TiO2 in interlayers of expanded graphite for the fabrication of TiO2-graphene with enhanced photocatalytic activity. <b>2011</b> , 17, 8379-87	128
1611	Nonvolatile rewritable memory effects in graphene oxide functionalized by conjugated polymer containing fluorene and carbazole units. <b>2011</b> , 17, 10304-11	62
1610	Electrochemistry at chemically modified graphenes. <b>2011</b> , 17, 10763-70	272
1609	Evaluation of graphene as an advantageous adsorbent for solid-phase extraction with chlorophenols as model analytes. <b>2011</b> , 1218, 197-204	278
1608	Amplified electrochemiluminescence of quantum dots by electrochemically reduced graphene oxide for nanobiosensing of acetylcholine. <b>2011</b> , 26, 4552-8	80
1607	Quencher-free molecular beacon: Enhancement of the signal-to-background ratio with graphene oxide. <b>2011</b> , 21, 704-6	32
1606	One-step synthesis of magnetically-functionalized reduced graphite sheets and their use in hydrogels. <b>2011</b> , 49, 47-53	98
1605	Microwave extraction of graphene from carbon fibers. <b>2011</b> , 49, 222-226	30

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1604	Size distribution analysis and physical/fluorescence characterization of graphene oxide sheets by flow cytometry. <b>2011</b> , 49, 684-692	36
1603	Exfoliated graphene sheets decorated with metal/metal oxide nanoparticles: Simple preparation from cation exchanged graphite oxide. <b>2011</b> , 49, 1118-1125	97
1602	Graphene oxide/polybenzimidazole composites fabricated by a solvent-exchange method. <b>2011</b> , 49, 1199-1207	149
1601	Reinforcement of hydrogenated carboxylated nitrile <b>B</b> utadiene rubber with exfoliated graphene oxide. <b>2011</b> , 49, 1608-1613	142
1600	Pulsed laser assisted reduction of graphene oxide. <b>2011</b> , 49, 2431-2436	166
1599	Thermomechanical properties of chemically modified graphene/poly(methyl methacrylate) composites made by in situ polymerization. <b>2011</b> , 49, 2615-2623	187
1598	Hydrazine-reduction of graphite- and graphene oxide. <b>2011</b> , 49, 3019-3023	1190
1597	One-step synthesis of NH2-graphene from in situ graphene-oxide reduction and its improved electrochemical properties. <b>2011</b> , 49, 3250-3257	322
1596	A simple one-pot strategy for the synthesis of ternary reduced graphite oxide/SnO2/Au hybrid nanomaterials. <b>2011</b> , 49, 3538-3543	31
1595	Reinforcing effects of adding alkylated graphene oxide to polypropylene. <b>2011</b> , 49, 3553-3559	115
1594	Electrical conductivity maps in graphene nanoplatelet/silicon nitride composites using conducting scanning force microscopy. <b>2011</b> , 49, 3873-3880	74
1593	Solvothermal synthesis of homogeneous graphene dispersion with high concentration. <b>2011</b> , 49, 3920-3927	109
1592	Reversible phase transfer of graphene oxide and its use in the synthesis of graphene-based hybrid materials. <b>2011</b> , 49, 4563-4570	39
1591	Novel electrochemical sensor based on functionalized graphene for simultaneous determination of adenine and guanine in DNA. <b>2011</b> , 82, 543-9	219
1590	Synthesis of silver nanoparticles in an aqueous suspension of graphene oxide sheets and its antimicrobial activity. <b>2011</b> , 83, 16-22	354
1589	Hydrothermal preparation and electrochemical sensing properties of TiO(2)-graphene nanocomposite. <b>2011</b> , 83, 78-82	147
1588	Gram-scale production of graphene oxideIIiO2 nanorod composites: Towards high-activity photocatalytic materials. <b>2011</b> ,	15
1587	Repair of magnetism in oxidized graphene nanoribbons. <b>2011</b> , 501, 396-399	7

1586	Laser synthesis of Pt, Pd, CoO and PdtoO nanoparticle catalysts supported on graphene. <b>2011</b> , 510, 179-184	86
1585	Structural evolution of graphite oxide during heat treatment. <b>2011</b> , 511, 110-115	34
1584	TiO2-graphene nanocomposite for electrochemical sensing of adenine and guanine. <b>2011</b> , 56, 4685-4690	167
1583	Electrochemical reduction of graphene oxide in organic solvents. <b>2011</b> , 56, 5363-5368	80
1582	Electro-active graphene <b>N</b> afion actuators. <b>2011</b> , 49, 1279-1289	162
1581	Graphene oxide covalently functionalized with zinc phthalocyanine for broadband optical limiting. <b>2011</b> , 49, 1900-1905	231
1580	Microwave-assisted synthesis of graphene-supported Pd1Pt3 nanostructures and their electrocatalytic activity for methanol oxidation. <b>2011</b> , 56, 7064-7070	80
1579	First principles study of structural, vibrational and electronic properties of graphene-like MX2 (M=Mo, Nb, W, Ta; X=S, Se, Te) monolayers. <b>2011</b> , 406, 2254-2260	495
1578	In situ synthesis of graphene/cobalt nanocomposites and their magnetic properties. <b>2011</b> , 176, 711-715	77
1577	Electron transfer between methyl viologen radicals and graphene oxide: Reduction, electron storage and discharge. <b>2011</b> , 221, 214-219	41
1576	Carbon materials in composite bipolar plates for polymer electrolyte membrane fuel cells: A review of the main challenges to improve electrical performance. <b>2011</b> , 196, 2945-2961	189
1575	An in situ oxidation route to fabricate graphene nanoplatefhetal oxide composites. <b>2011</b> , 184, 1393-1399	22
1574	Novel gold cantilever for nano-Raman spectroscopy of graphene. <b>2011</b> , 88, 2759-2762	51
1573	Experimental study on the reducibility of graphene oxide by hydrazine hydrate. <b>2011</b> , 406, 498-502	41
1572	Stable aqueous dispersions of graphene prepared with hexamethylenetetramine as a reductant. <b>2011</b> , 354, 493-7	67
1571	A molecular simulation of interactions between graphene nanosheets and supercritical CO2. <b>2011</b> , 361, 1-8	41
1570	A review on the mechanical and electrical properties of graphite and modified graphite reinforced polymer composites. <b>2011</b> , 36, 638-670	894
1569	Monolayer graphene from a green solid precursor. <b>2011</b> , 43, 1490-1493	32

1568	Significant thermal conductivity enhancement for nanofluids containing graphene nanosheets. <b>2011</b> , 375, 1323-1328	263
1567	Graphene based materials: Past, present and future. <b>2011</b> , 56, 1178-1271	2607
1566	Graphene-based polymer nanocomposites. <b>2011</b> , 52, 5-25	2439
1565	Kevlar oligomer functionalized graphene for polymer composites. <b>2011</b> , 52, 3661-3670	53
1564	Sonochemical synthesis of TiO(2 nanoparticles on graphene for use as photocatalyst. <b>2011</b> , 18, 1082-90	193
1563	Preparation, characterization, and supercritical carbon dioxide foaming of polystyrene/graphene oxide composites. <b>2011</b> , 56, 201-207	128
1562	Preparation of Functionalized Graphene Sheets. <b>2011</b> , 15, 1133-1150	36
1561	Application of cetyltrimethylammonium bromide lyraphene modified electrode for sensitive determination of caffeine. <b>2011</b> , 89, 697-702	16
1560	High quality, transferrable graphene grown on single crystal Cu(111) thin films on basal-plane sapphire. <b>2011</b> , 98, 113117	103
1559	Hydrofluorinated graphene: Two-dimensional analog of polyvinylidene fluoride. <b>2011</b> , 84,	36
1558	A study of graphene films synthesized on nickel substrates: existence and origin of small-base-area peaks. <b>2011</b> , 22, 045706	24
1557	Solution-chemistry approach to graphene nanostructures. <b>2011</b> , 21, 3295	59
1556	Doping of fluorographene by surface adsorbates. <b>2011</b> , 84,	24
1555	Polymer-ultrathin graphite sheet-polymer composite structured flexible nonvolatile bistable organic memory devices. <b>2011</b> , 22, 295203	29
1554	Electric field assisted thermal annealing reorganization of graphene oxide/polystyrene latex films. <b>2011</b> , 5, 819-824	5
1553	Synthesis of Large-Area and Monolayer of Graphene: Role of Transition Metal Support and Growth Time by CVD Method. <b>2011</b> , 306-307, 331-335	
1552	Transfer Layers: A Comparison across SWNTs, DWNTs, Graphite, and an Ionic Fluid. <b>2011</b> , 2011, 1-6	3
1551	Reduced Graphite Oxide-Indium Tin Oxide Hybrid Materials for use as a Transparent Electrode. <b>2011</b> , 158, J231	18

1550	Growth of Graphene Nanoribbons and Carbon Onions from Polymer. <b>2011</b> , 28, 076803	О
1549	Epitaxial growth of graphene thin films on single crystal metal surfaces. <b>2011</b> , 228-255	3
1548	GRAPHENE: MATERIALS IN THE FLATLAND. <b>2011</b> , 25, 4081-4106	19
1547	On the Way to Graphene: The Bottom-Up Approach to Very Large PAHs Using the Scholl Reaction. <b>2011</b> , 19, 713-725	30
1546	IMPROVED CHEMICAL SYNTHESIS OF GRAPHENE USING A SAFER SOLVOTHERMAL ROUTE. <b>2011</b> , 10, 39-42	14
1545	Temperature Dependent Structural Evolution of Graphene Layers on 4H-SiC(0001). <b>2011</b> , 679-680, 797-800	2
1544	Synthesis of FeC2O4-Graphene Composites and their Application in Removal Dyes. <b>2012</b> , 463-464, 533-537	1
1543	Universal magnetic properties of sp3-type defects in covalently functionalized graphene. <b>2012</b> , 14, 043022	76
1542	Light-weight nanocomposite materials with enhanced thermal transport properties. <b>2012</b> , 1, 363-376	20
1541	Graphene-based functional materials for organic solar cells [Invited]. <b>2012</b> , 2, 814	31
1540	Encyclopedia of Nanotechnology. <b>2012</b> , 2459-2459	
1539	Synthesis, electromechanical characterization, and applications of graphene nanostructures. <b>2012</b> , 6, 064501	9
1538	Direct laser-enabled graphene oxide <b>R</b> educed graphene oxide layered structures with micropatterning. <b>2012</b> , 112, 064309	36
1537	Ab initio transport fingerprints for resonant scattering in graphene. <b>2012</b> , 86,	10
1536	Bioinspired design of functionalised graphene. <b>2012</b> , 38, 695-703	14
1535	In situ near-edge x-ray absorption fine structure spectroscopy investigation of the thermal defunctionalization of graphene oxide. <b>2012</b> , 30, 061206	24
1534	Graphene quilts for thermal management of high-power GaN transistors. <b>2012</b> , 3, 827	369
1533	In Situ Polymerization Approach to Poly(Laprolactone)-Graphene Oxide Composites. <b>2012</b> , 15, 303-310	25

1532	Graphene: A Rising Star on the Horizon of Materials Science. <b>2012</b> , 2012, 1-12	96
1531	Combined AFM-SEM testing for mechanical property determination of graphene oxide paper. <b>2012</b> , 1407, 68	
1530	Role of atomic terraces and steps in the electron transport properties of epitaxial graphene grown on SiC. <b>2012</b> , 2, 012115	19
1529	Synthesis and electrochemical properties of graphite oxide/MnO2/conducting polymer ternary composite for supercapacitors. <b>2012</b> , 7, 778	9
1528	Thiourea Dioxide as a Green Reductant for the Mass Production of Solution-Based Graphene. <b>2012</b> , 85, 1339-1344	18
1527	Arrangement and Dispersion of Rh and Pt Atoms on Graphene Oxide Sheets. <b>2012</b> , 41, 680-682	5
1526	Different Characterization Techniques to Evaluate Graphene and Its Properties. 2012, 118-161	
1525	An Improved Method to Increase the Concentration of Graphene in Organic Solvent. <b>2012</b> , 41, 747-749	8
1524	Immobilization of Trypsin on Graphene Oxide Nanosheets for Increased Proteolytic Stability. <b>2012</b> , 41, 1625-1627	8
1523	Patterning of graphene. <b>2012</b> , 4, 4883-99	93
1523 1522	Patterning of graphene. <b>2012</b> , 4, 4883-99  Interfacial rheology and structure of tiled graphene oxide sheets. <b>2012</b> , 28, 7990-8000	93 86
	Interfacial rheology and structure of tiled graphene oxide sheets. <b>2012</b> , 28, 7990-8000	
1522	Interfacial rheology and structure of tiled graphene oxide sheets. <b>2012</b> , 28, 7990-8000	86
1522 1521	Interfacial rheology and structure of tiled graphene oxide sheets. <b>2012</b> , 28, 7990-8000  Graphene-based materials for biosensing and bioimaging. <b>2012</b> , 37, 1290-1296  Graphene from electrochemical exfoliation and its direct applications in enhanced energy storage	86
1522 1521 1520	Interfacial rheology and structure of tiled graphene oxide sheets. <b>2012</b> , 28, 7990-8000  Graphene-based materials for biosensing and bioimaging. <b>2012</b> , 37, 1290-1296  Graphene from electrochemical exfoliation and its direct applications in enhanced energy storage devices. <b>2012</b> , 48, 1239-41  Antibacterial Efficiency of Graphene Nanosheets against Pathogenic Bacteria via Lipid	86 43 122
1522 1521 1520 1519	Interfacial rheology and structure of tiled graphene oxide sheets. 2012, 28, 7990-8000  Graphene-based materials for biosensing and bioimaging. 2012, 37, 1290-1296  Graphene from electrochemical exfoliation and its direct applications in enhanced energy storage devices. 2012, 48, 1239-41  Antibacterial Efficiency of Graphene Nanosheets against Pathogenic Bacteria via Lipid Peroxidation. 2012, 116, 17280-17287  Electrochemical reduction of graphene oxide films: Preparation, characterization and their	86 43 122 315
1522 1521 1520 1519	Interfacial rheology and structure of tiled graphene oxide sheets. 2012, 28, 7990-8000  Graphene-based materials for biosensing and bioimaging. 2012, 37, 1290-1296  Graphene from electrochemical exfoliation and its direct applications in enhanced energy storage devices. 2012, 48, 1239-41  Antibacterial Efficiency of Graphene Nanosheets against Pathogenic Bacteria via Lipid Peroxidation. 2012, 116, 17280-17287  Electrochemical reduction of graphene oxide films: Preparation, characterization and their electrochemical properties. 2012, 57, 3045-3050	86 43 122 315 77

1514	Graphene for energy conversion and storage in fuel cells and supercapacitors. <b>2012</b> , 1, 534-551	548
1513	Design of Nanostructured Hybrid Materials Based on Carbon and Metal Oxides for Li Ion Batteries. <b>2012</b> , 116, 26685-26693	73
1512	Preparation of graphene with few defects using expanded graphite and rose bengal. 2012, 22, 4806	34
1511	Application of graphene as a sorbent for preconcentration and determination of trace amounts of chromium(III) in water samples by flame atomic absorption spectrometry. <b>2012</b> , 4, 1110	57
1510	Facile method to functionalize graphene oxide and its application to poly(ethylene terephthalate)/graphene composite. <b>2012</b> , 4, 4184-91	127
1509	Functionalized graphene for high performance lithium ion capacitors. <b>2012</b> , 5, 2328-33	107
1508	Adsorption behavior of EDTA-graphene oxide for Pb (II) removal. <b>2012</b> , 4, 1186-93	606
1507	Graphenes in chemical sensors and biosensors. <b>2012</b> , 39, 87-113	170
1506	Investigation of graphene-based nanoscale radiation sensitive materials. 2012,	
1505	Flexible free-standing graphene/SnO[hanocomposites paper for Li-ion battery. <b>2012</b> , 4, 5742-8	133
1505 1504		133
1504	Chapter 2:Gelation of Graphene Oxide. 2012, 52-63  Chapter 3:Electrically Conductive Polymer@raphene Composites Prepared Using Latex	
1504 1503	Chapter 2:Gelation of Graphene Oxide. 2012, 52-63  Chapter 3:Electrically Conductive Polymer@raphene Composites Prepared Using Latex Technology. 2012, 66-85	
1504 1503 1502	Chapter 2:Gelation of Graphene Oxide. 2012, 52-63  Chapter 3:Electrically Conductive Polymer@raphene Composites Prepared Using Latex Technology. 2012, 66-85  Encyclopedia of Nanotechnology. 2012, 2429-2429	0 2
1504 1503 1502	Chapter 2:Gelation of Graphene Oxide. 2012, 52-63  Chapter 3:Electrically Conductive Polymer@raphene Composites Prepared Using Latex Technology. 2012, 66-85  Encyclopedia of Nanotechnology. 2012, 2429-2429  Covalent Functionalization of Graphene with Polysaccharides. 2012, 51, 310-317  Reviving rechargeable lithium metal batteries: enabling next-generation high-energy and	O 2 71
1504 1503 1502 1501 1500	Chapter 2:Gelation of Graphene Oxide. 2012, 52-63  Chapter 3:Electrically Conductive Polymer@raphene Composites Prepared Using Latex Technology. 2012, 66-85  Encyclopedia of Nanotechnology. 2012, 2429-2429  Covalent Functionalization of Graphene with Polysaccharides. 2012, 51, 310-317  Reviving rechargeable lithium metal batteries: enabling next-generation high-energy and high-power cells. 2012, 5, 5701-5707	O 2 71 242

1496	Chapter 8:Dispersible Graphene Oxide Polymer Nanocomposites. 2012, 179-210	2
1495	Reduced graphene oxide/nickel nanocomposites: facile synthesis, magnetic and catalytic properties. <b>2012</b> , 22, 3471	237
1494	Synthesis of graphene-based nanomaterials and their application in energy-related and environmental-related areas. <b>2012</b> , 2, 9286	203
1493	Oil absorbing graphene capsules by capillary molding. <b>2012</b> , 48, 5968-70	125
1492	Thickness identification of two-dimensional materials by optical imaging. <b>2012</b> , 23, 495713	77
1491	Anatase TiO2 nanocrystals with exposed {001} facets on graphene sheets via molecular grafting for enhanced photocatalytic activity. <b>2012</b> , 4, 613-20	188
1490	Synthesis of acid-soluble graphene and its use in producing a reduced graphene oxidepoly(benzobisoxazole) composite. <b>2012</b> , 22, 12381	19
1489	Biomimetic superelastic graphene-based cellular monoliths. <b>2012</b> , 3, 1241	933
1488	Graphene-Based Composite Anodes for Lithium-Ion Batteries. <b>2012</b> , 117-162	2
1487	Synthesis of adenine-modified reduced graphene oxide nanosheets. <b>2012</b> , 51, 2954-60	47
1486	Gold Nanospacers Greatly Enhance the Capacitance of Electrochemically Reduced Graphene. <b>2012</b> , 77, 71-73	22
1485	Recent Advances in Fabrication and Characterization of Graphene-Polymer Nanocomposites. <b>2012</b> , 01, 30-49	172
1484	A new voltammetric sensor based on poly(L-arginine)/grapheneNafion composite film modified electrode for sensitive determination of Terbutaline sulfate. <b>2012</b> , 687, 51-57	32
1483	Bioinspired approaches for optimizing the strength and toughness of graphene-based polymer nanocomposites. <b>2012</b> , 22, 16182	39
1482	Three-dimensional graphene architectures. <b>2012</b> , 4, 5549-63	689
1481	Hemin-functionalized reduced graphene oxide nanosheets reveal peroxynitrite reduction and isomerization activity. <b>2012</b> , 18, 15122-32	28
1480	Visible-light photocatalytic hydrogen generation by using dye-sensitized graphene oxide as a photocatalyst. <b>2012</b> , 18, 16774-83	57
1479	A 3D hexaporous carbon assembled from single-layer graphene as high performance supercapacitor. <b>2012</b> , 5, 2159-64	68

1478 Fast and efficient combustion synthesis route to produce novel nanocarbons. <b>2012</b> , 249, 237	3-2377 19
Large-scale preparation of graphene sheets and their easy incorporation with other nanomat <b>2012</b> , 69, 899-910	cerials.
1476 One-step synthesis of Fe3O4 nanorods/graphene nanocomposites. <b>2012</b> , 109, 261-265	7
Enhanced solvothermal reduction of graphene oxide in a mixed solution of sulfuric acid and c solvent. <b>2012</b> , 211-212, 97-103	organic 36
Oleic acid-assisted exfoliated few layer graphene films as counter electrode in dye-sensitized cell. <b>2012</b> , 545, 99-104	d solar
1473 Supercritical fluid conversion of graphene oxides. <b>2012</b> , 61, 206-211	38
1472 Structured epitaxial graphene: growth and properties. <b>2012</b> , 45, 154010	27
Immobilization of Co-Al layered double hydroxides on graphene oxide nanosheets: growth mechanism and supercapacitor studies. <b>2012</b> , 4, 2242-9	171
1470 Graphene quantum resistive sensing skin for the detection of alteration biomarkers. <b>2012</b> , 22	2, 21754 109
Preparation, characterization and fundamental studies on graphenes by liquid-phase process graphite. <b>2012</b> , 536, S450-S455	ing of
1468 A method for joining individual graphene sheets. <b>2012</b> , 50, 4965-4972	19
$_{1467}$ Multilayer graphene growth by a metal-catalyzed crystallization of diamond-like carbon. <b>201</b> $_{2}$	2,
1466 Hydrothermal synthesis of CdS microparticlesBraphene hybrid and its optical properties. <b>201</b>	<b>2</b> , 14, 1881 28
$_{1465}$ Photochemically active reduced graphene oxide with controllable oxidation level. <b>2012</b> , 2, 11	258 19
1464 Self-assembly of metallopolymer guided by graphene nanoribbons. <b>2012</b> , 22, 15689	12
$_{1463}$ Relationship between intrinsic capacitance and thickness of graphene nanosheets. <b>2012</b> , 22,	13091 8
First-principles study of the triwing graphene nanoribbons: junction-dependent electronic structures and electric field modulations. <b>2012</b> , 14, 2040-9	3
$_{1461}$ Self-assembly of natural tripeptide glutathione triggered by graphene oxide. <b>2012</b> , 8, 9855	23

1460	Analysis of an Ultrathin Graphite-Based Compact Heat Exchanger. <b>2012</b> , 33, 947-956	9
1459	Self-healing electrodes for dielectric elastomer actuators. <b>2012</b> , 22, 20736	43
1458	Chemical-free growth of metal nanoparticles on graphene oxide sheets under visible light irradiation. <b>2012</b> , 2, 2205	27
1457	Gold nanoparticle-doped graphene nanosheets: sub-nanosized gold clusters nucleate and grow at the nitrogen-induced defects on graphene surfaces. <b>2012</b> , 22, 7130	24
1456	Covalent binding of Si nanoparticles to graphene sheets and its influence on lithium storage properties of Si negative electrode. <b>2012</b> , 22, 3420	87
1455	Spectroscopic understanding of ultra-high rate performance for LiMn(0.75)Fe(0.25)PO4 nanorods-graphene hybrid in lithium ion battery. <b>2012</b> , 14, 9578-81	43
1454	Reduced graphene oxides by microwave-assisted ionothermal treatment. <b>2012</b> , 36, 1684	13
1453	Self-assembly of a ZnFe2O4/graphene hybrid and its application as a high-performance anode material for Li-ion batteries. <b>2012</b> , 36, 2236	58
1452	Deposition of amino-functionalized polyhedral oligomeric silsesquioxanes on graphene oxide sheets immobilized onto an amino-silane modified silicon surface. <b>2012</b> , 22, 6213	71
1451	A graphene-based composite material noncovalently functionalized with a chemiluminescence reagent: synthesis and intrinsic chemiluminescence activity. <b>2012</b> , 48, 2894-6	45
1450	Strain-induced delamination of edge-grafted graphite. <b>2012</b> , 48, 11109-11	4
1449	Intrinsic energy dissipation in CVD-grown graphene nanoresonators. <b>2012</b> , 4, 3460-5	26
1448	Spontaneous reduction and dispersion of graphene nano-platelets with in situ synthesized hydrazine assisted by hexamethyldisilazane. <b>2012</b> , 22, 20477	8
1447	Self-assembly of reduced graphene oxide at liquid ir interface for organic field-effect transistors. <b>2012</b> , 22, 6171	11
1446	A nanohybrid of graphene oxidefluorescein derived silyl ether for photocurrent generation triggered by Filons. <b>2012</b> , 2, 4623	6
1445	High-density amine-terminated monolayers formed on fluorinated CVD-grown graphene. <b>2012</b> , 28, 7957-61	63
1444	Supramolecular graphene oxide-alkylamine hybrid materials: variation of dispersibility and improvement of thermal stability. <b>2012</b> , 36, 1733	39
1443	The Prospective Two-Dimensional Graphene Nanosheets: Preparation, Functionalization and Applications. <b>2012</b> , 4, 1-9	113

1442	Charge-Driven Selective Adsorption of Sodium Dodecyl Sulfate on Graphene Oxide Visualized by Atomic Force Microscopy. <b>2012</b> , 116, 20080-20085	21
1441	Microlitre scale solution processing for controlled, rapid fabrication of chemically derived graphene thin films. <b>2012</b> , 22, 3606	46
1440	Reconstructed Ribbon Edges in Thermally Reduced Graphene Nanoribbons. <b>2012</b> , 116, 24006-24015	16
1439	Nano-sized biosensors for medical applications. <b>2012</b> , 65-102	5
1438	Multifunctional, supramolecular, continuous artificial nacre fibres. <b>2012</b> , 2, 767	96
1437	Impact of Antidot Structure on the Multiradical Characters, Aromaticities, and Third-Order Nonlinear Optical Properties of Hexagonal Graphene Nanoflakes. <b>2012</b> , 116, 17787-17795	58
1436	Simultaneous transfer and doping of CVD-grown graphene by fluoropolymer for transparent conductive films on plastic. <b>2012</b> , 6, 1284-90	103
1435	The transport properties of the molecular-scale B2C and BC3 electronic devices. <b>2012</b> , 407, 3419-3422	3
1434	Monitoring influence of chemical preparation procedure on the structure of graphene nanosheets. <b>2012</b> , 44, 1420-1424	32
1433	Enhanced dispersion of carbon nanotube in silicone rubber assisted by graphene. <b>2012</b> , 53, 3378-3385	122
1432	Large-area graphene synthesis and its application to interface-engineered field effect transistors. <b>2012</b> , 152, 1350-1358	26
1431	A graphene oxide oxygen barrier film deposited via a self-assembly coating method. <b>2012</b> , 162, 710-714	46
1430	A high concentration graphene dispersion stabilized by polyaniline nanofibers. <b>2012</b> , 162, 1107-1113	23
1429	Graphene for impedimetric biosensing. <b>2012</b> , 37, 12-21	125
1428	Application of graphene in analytical sample preparation. <b>2012</b> , 37, 1-11	242
1427	Strong, conductive, lightweight, neat graphene aerogel fibers with aligned pores. <b>2012</b> , 6, 7103-13	520
1426	Enhanced ultraviolet response using graphene electrodes in organic solar cells. <b>2012</b> , 101, 063305	7
1425	High-Yield Fabrication of Graphene Chemiresistors With Dielectrophoresis. <b>2012</b> , 11, 751-759	15

1424	Layer-dependent fluorination and doping of graphene via plasma treatment. <b>2012</b> , 23, 115706	49
1423	Graphene oxide: preparation, functionalization, and electrochemical applications. <b>2012</b> , 112, 6027-53	2515
1422	Graphene-based materials for catalysis. <b>2012</b> , 2, 54-75	791
1421	Chemically homogeneous and thermally reversible oxidation of epitaxial graphene. 2012, 4, 305-9	260
1420	Photothermally reduced graphene as high-power anodes for lithium-ion batteries. 2012, 6, 7867-78	275
1419	Floral-clustered few-layer graphene nanosheet array as high performance field emitter. <b>2012</b> , 4, 6383-8	17
1418	Advances in 2D boron nitride nanostructures: nanosheets, nanoribbons, nanomeshes, and hybrids with graphene. <b>2012</b> , 4, 6908-39	611
1417	Highly conductive and porous activated reduced graphene oxide films for high-power supercapacitors. <b>2012</b> , 12, 1806-12	782
1416	Photo-responsive carbon nanomaterials functionalized by azobenzene moieties: structures, properties and application. <b>2012</b> , 4, 6118-34	80
1415	A critical review of glucose biosensors based on carbon nanomaterials: carbon nanotubes and graphene. <b>2012</b> , 12, 5996-6022	368
1414	Transfer-free electrical insulation of epitaxial graphene from its metal substrate. <b>2012</b> , 12, 4503-7	105
1413	Electrochemistry of nucleic acids. <b>2012</b> , 112, 3427-81	521
1412	Edge-carboxylated graphene nanosheets via ball milling. <b>2012</b> , 109, 5588-93	496
1411	Oxygen density dependent band gap of reduced graphene oxide. <b>2012</b> , 111, 054317	121
1410	Chemical structures of hydrazine-treated graphene oxide and generation of aromatic nitrogen doping. <b>2012</b> , 3, 638	302
1409	Incorporation of MnO2-coated carbon nanotubes between graphene sheets as supercapacitor electrode. <b>2012</b> , 4, 1058-64	299
1408	Production of graphite chloride and bromide using microwave sparks. <b>2012</b> , 2, 662	110
1407	How graphene is exfoliated from graphitic materials: synergistic effect of oxidation and intercalation processes in open, semi-closed, and closed carbon systems. <b>2012</b> , 22, 22150	40

1406	Dispersion of alkylated graphene in organic solvents and its potential for lubrication applications. <b>2012</b> , 22, 21032	193
1405	Three-dimensional porous graphene-based composite materials: electrochemical synthesis and application. <b>2012</b> , 22, 20968	187
1404	Photoluminescent Nanostructures from Graphite Oxidation. <b>2012</b> , 116, 20015-20022	37
1403	Nanoscale graphene oxide (nGO) as artificial receptors: implications for biomolecular interactions and sensing. <b>2012</b> , 134, 16725-33	171
1402	Low-temperature aluminum reduction of graphene oxide, electrical properties, surface wettability, and energy storage applications. <b>2012</b> , 6, 9068-78	81
1401	High-rate lithium-sulfur batteries promoted by reduced graphene oxide coating. <b>2012</b> , 48, 4106-8	299
1400	Enhanced Cathodic Electrogenerated Chemiluminescence of Luminol at a Graphene Modified Electrode in Neutral Solution. <b>2012</b> , 159, H692-H696	16
1399	Oxidized graphene in ionic liquids for assembling chemically modified electrodes: a structural and electrochemical characterization study. <b>2012</b> , 84, 5823-31	36
1398	Tailored graphene materials by chemical reduction of graphene oxides of different atomic structure. <b>2012</b> , 2, 9643	46
1397	Hybridization of graphene sheets and carbon-coated Fe3O4 nanoparticles as a synergistic adsorbent of organic dyes. <b>2012</b> , 22, 25108	195
1396	Graphene-based solid-phase extraction combined with flame atomic absorption spectrometry for a sensitive determination of trace amounts of lead in environmental water and vegetable samples. <b>2012</b> , 716, 112-8	209
1395	Diverse nanowires activated self-scrolling of graphene nanoribbons. <b>2012</b> , 258, 1964-1970	20
1394	Scanning transmission X-ray microscopy, X-ray photoelectron spectroscopy, and cyclic voltammetry study on the enhanced visible photocatalytic mechanism of carbon IIIO2 nanohybrids. <b>2012</b> , 258, 3846-3853	23
1393	Synthesis of free standing carbon nanosheet using electron cyclotron resonance plasma enhanced chemical vapor deposition. <b>2012</b> , 258, 4877-4880	9
1392	Synthesis, characterization and optical property of graphene oxide films. <b>2012</b> , 258, 5056-5060	35
1391	A facile and efficient approach to decoration of graphene nanosheets with gold nanoparticles. <b>2012</b> , 258, 5348-5353	39
1390	Reduced graphene oxide paper by supercritical ethanol treatment and its electrochemical properties. <b>2012</b> , 258, 5299-5303	44
1389	Hydrothermal preparation of ZnO-reduced graphene oxide hybrid with high performance in photocatalytic degradation. <b>2012</b> , 258, 6204-6211	227

1388	Piezoelectric Polymorph formation and properties enhancement in graphene oxide PVDF nanocomposite films. <b>2012</b> , 258, 7668-7677	293
1387	Preparation of Ni-reduced graphene oxide nanocomposites by Pd-activated electroless deposition and their magnetic properties. <b>2012</b> , 258, 8603-8608	34
1386	One-pot hydrothermal synthesis of a mesoporous SiO2graphene hybrid with tunable surface area and pore size. <b>2012</b> , 259, 566-573	51
1385	Glass carbon electrode modified with horseradish peroxidase immobilized on partially reduced graphene oxide for detecting phenolic compounds. <b>2012</b> , 681, 49-55	55
1384	Fabrication of magnetic Ni nanoparticles functionalized water-soluble graphene sheets nanocomposites as sorbent for aromatic compounds removal. <b>2012</b> , 229-230, 42-7	40
1383	Clean and effective catalytic reduction of graphene oxide using atomic hydrogen spillover on Pt/FAl2O3 catalyst. <b>2012</b> , 86, 161-164	15
1382	Reduced graphene oxide/hydroxylated styreneButadieneBtyrene tri-block copolymer electroconductive nanocomposites: Preparation and properties. <b>2012</b> , 177, 1163-1169	27
1381	Polyelectrolyte-assisted one-step hydrothermal synthesis of Ag-reduced graphene oxide composite and its antibacterial properties. <b>2012</b> , 32, 2042-2047	54
1380	Graphene/metal oxide composite electrode materials for energy storage. 2012, 1, 107-131	1507
1379	A facile route to fabricate stable reduced graphene oxide dispersions in various media and their transparent conductive thin films. <b>2012</b> , 383, 36-42	53
1378	Flexible glucose sensor using CVD-grown graphene-based field effect transistor. <b>2012</b> , 37, 82-7	213
1377	The mechanics of graphene nanocomposites: A review. <b>2012</b> , 72, 1459-1476	893
1376	Few-layer graphene supporting palladium nanoparticles with a fully accessible effective surface for liquid-phase hydrogenation reaction. <b>2012</b> , 189, 77-82	34
1375	Dual-frequency ultrasound for designing two dimensional catalyst surface: Reduced graphene oxide <b>P</b> t composite. <b>2012</b> , 409, 81-87	28
1374	Graphene prepared via a novel pyridinethermal strategy for capacitive deionization. <b>2012</b> , 22, 23745	132
1373	Tailoring the characteristics of graphite oxide nanosheets for the production of high-performance poly(vinyl alcohol) composites. <b>2012</b> , 50, 5525-5536	33
1372	Patterns of Solution-Processed Graphene Oxide Produced by a Transfer Printing Method. <b>2012</b> , 159, H605-H609	11
1371	Transfer printing techniques for materials assembly and micro/nanodevice fabrication. <b>2012</b> , 24, 5284-318	572

1370	Graphene-based electrodes. <b>2012</b> , 24, 5979-6004	756
1369	New routes to graphene, graphene oxide and their related applications. <b>2012</b> , 24, 4924-55	282
1368	Synthese von PatchworkEGraphen aus Glucose. 2012, 124, 9827-9830	40
1367	Graphene and Graphene Oxide Can Ilubricatellonic Liquids based on Specific Surface Interactions Leading to Improved Low-Temperature Hypergolic Performance. <b>2012</b> , 124, 9922-9925	10
1366	Synthesis of monolayer-patched graphene from glucose. <b>2012</b> , 51, 9689-92	332
1365	Graphene and graphene oxide can "lubricate" ionic liquids based on specific surface interactions leading to improved low-temperature hypergolic performance. <b>2012</b> , 51, 9784-7	45
1364	Atomic dopants involved in the structural evolution of thermally graphitized graphene. <b>2012</b> , 18, 13466-72	20
1363	Graphite oxides: effects of permanganate and chlorate oxidants on the oxygen composition. <b>2012</b> , 18, 13453-9	138
1362	Functionalization of reduced graphite oxide sheets with a zwitterionic surfactant. <b>2012</b> , 13, 3682-90	32
1361	Synthesis of a MnO2 Nanosheet/Graphene Flake Composite and Its Application as a Supercapacitor having High Rate Capability. <b>2012</b> , 77, 872-876	16
1360	Synthesis and applications of graphene-based TiO(2) photocatalysts. <b>2012</b> , 5, 1868-82	<b>2</b> 00
1359	Sensitive Electrochemical Determination of Catechol with a Graphene Modified Carbon Ionic Liquid Electrode. <b>2012</b> , 59, 1584-1590	3
1358	A novel octadecylsilane functionalized graphene oxide/silica composite stationary phase for high performance liquid chromatography. <b>2012</b> , 35, 2003-9	35
1357	Fabrication of microcellular polymer/graphene nanocomposite foams. <b>2012</b> , 61, 1693-1702	23
1356	Nanostructured metal-free electrochemical catalysts for highly efficient oxygen reduction. <b>2012</b> , 8, 3550-66	518
1355	Growing suspended graphene on C60 molecules. <b>2012</b> , 8, 3728-32	8
1354	Evidence for formation of multi-quantum dots in hydrogenated graphene. <b>2012</b> , 7, 459	9
1353	The production of concentrated dispersions of few-layer graphene by the direct exfoliation of graphite in organosilanes. <b>2012</b> , 7, 674	27

1352	pKa Measurements. <b>2012</b> , 3, 867-72	578
1351	Laser induced non-thermal deposition of ultrathin graphite. <b>2012</b> , 100, 151606	14
1350	One-pot synthesis of large scale graphene nanosheets from graphitellquid crystal composite via thermal treatment. <b>2012</b> , 22, 3825	56
1349	Enhancement of dispersion and bonding of graphene-polymer through wet transfer of functionalized graphene oxide. <b>2012</b> , 6, 1017-1031	146
1348	Pd-Partially Reduced Graphene Oxide Catalysts (Pd/PRGO): Laser Synthesis of Pd Nanoparticles Supported on PRGO Nanosheets for Carbon@arbon Cross Coupling Reactions. <b>2012</b> , 2, 145-154	253
1347	Highly efficient electrolytic exfoliation of graphite into graphene sheets based on Li ions intercalation Expansion Enicroexplosion mechanism. <b>2012</b> , 22, 10452	92
1346	Graphene based catalysts. <b>2012</b> , 5, 8848	642
1345	Mechanical and electrical properties of carbon nanotubes and graphene layers functionalized with amines. <b>2012</b> , 23, 167-171	30
1344	Transparent, Conductive, and Flexible Multiwalled Carbon Nanotube/Graphene Hybrid Electrodes with Two Three-Dimensional Microstructures. <b>2012</b> , 116, 4970-4978	97
1343	Multiple-bilayered RGOporphyrin films: from preparation to application in photoelectrochemical cells. <b>2012</b> , 22, 18879	40
1342	Energetics and dynamics of a new type of extended line defects in graphene. 2012, 4, 2580-3	15
1341	Pseudonegative thermal expansion and the state of water in graphene oxide layered assemblies. <b>2012</b> , 6, 8357-65	119
1340	A water-dielectric capacitor using hydrated graphene oxide film. <b>2012</b> , 22, 21085	66
1339	Synthesis of boron doped graphene for oxygen reduction reaction in fuel cells. <b>2012</b> , 22, 390-395	708
1338	Graphene and Its Synthesis. <b>2012</b> , 415-438	5
1337	Clusters of carbon nanospheres derived from graphene oxide. <b>2012</b> , 4, 6808-15	16
1336	Heterogeneous Catalysis by Metal Nanoparticles Supported on Graphene. <b>2012</b> , 303-338	
1335	Synthesis of Perylene-Containing Polyimides for Non-Covalent Functionalization of Graphene by Self-Assembly. <b>2012</b> , 534, 118-121	2

1334	Self-alignment and high electrical conductivity of ultralarge graphene oxidepolyurethane nanocomposites. <b>2012</b> , 22, 12709	234
1333	Graphene exfoliation in organic solvents and switching solubility in aqueous media with the aid of amphiphilic block copolymers. <b>2012</b> , 22, 21507	70
1332	Electrospray deposition of a graphene-oxide thin film, its characterization and investigation of its resistive switching performance. <b>2012</b> , 61, 470-475	23
1331	Solar Photoconversion Using Graphene/TiO2 Composites: Nanographene Shell on TiO2 Core versus TiO2 Nanoparticles on Graphene Sheet. <b>2012</b> , 116, 1535-1543	272
1330	Interfacial electron transfer dynamics in dye-modified graphene oxide nanosheets studied by single-molecule fluorescence spectroscopy. <b>2012</b> , 14, 4244-9	15
1329	Functionalization of graphene: covalent and non-covalent approaches, derivatives and applications. <b>2012</b> , 112, 6156-214	3041
1328	Synthesis and In Situ X-ray Diffraction Characterization of Two-Dimensional Perovskite-Type Oxide Colloids with a Controlled Molecular Thickness. <b>2012</b> , 24, 4201-4208	63
1327	Graphene oxide based conductive glue as a binder for ultracapacitor electrodes. <b>2012</b> , 22, 12993	36
1326	Rational synthesis of graphenethetal coordination polymer composite nanosheet as enhanced materials for electrochemical biosensing. <b>2012</b> , 22, 13166	42
1325	Graphene enriched with pyrrolic coordination of the doped nitrogen as an efficient metal-free electrocatalyst for oxygen reduction. <b>2012</b> , 22, 23506	143
1324	Facile one-step microwave-assisted route towards Ni nanospheres/reduced graphene oxide hybrids for non-enzymatic glucose sensing. <b>2012</b> , 12, 4860-9	69
1323	Electronic properties of graphene: a perspective from scanning tunneling microscopy and magnetotransport. <b>2012</b> , 75, 056501	180
1322	Understanding the pH-dependent behavior of graphene oxide aqueous solutions: a comparative experimental and molecular dynamics simulation study. <b>2012</b> , 28, 235-41	442
1321	Encyclopedia of Nanotechnology. <b>2012</b> , 2437-2437	
1320	Two dimensional graphene®nS2 hybrids with superior rate capability for lithium ion storage. <b>2012</b> , 5, 5226-5230	357
1319	Faster response of NOIsensing in graphene-WOIhanocomposites. <b>2012</b> , 23, 205501	200
1318	Synthesis and Characterization of Graphene Oxide/Poly (2-ethyl-2-oxazoline) Composites. <b>2012</b> , 564, 206-212	7
1317	Covalently linked, water-dispersible, cyclodextrin: reduced-graphene oxide sheets. <b>2012</b> , 28, 12432-7	82

1316 Nanomaterials-Based (Bio)Sensing Systems for Safety and Security Applications. **2012**, 43-61

1315	Inherently electroactive graphene oxide nanoplatelets as labels for single nucleotide polymorphism detection. <b>2012</b> , 6, 8546-51	105
1314	A facile method to observe graphene growth on copper foil. <b>2012</b> , 23, 475705	30
1313	Introduction. <b>2012</b> , 1-52	
1312	Precise unzipping of flattened carbon nanotubes to regular graphene nanoribbons by acid cutting along the folded edges. <b>2012</b> , 22, 16283	25
1311	Oxidative stress-mediated antibacterial activity of graphene oxide and reduced graphene oxide in Pseudomonas aeruginosa. <b>2012</b> , 7, 5901-14	499
1310	Covalent decoration of graphene oxide with dendrimer-encapsulated nanoparticles for universal attachment of multiple nanoparticles on chemically converted graphene. <b>2012</b> , 48, 9233-5	31
1309	Properties of Graphene/Waterborne Polyurethane Nanocomposites Cast from Colloidal Dispersion Mixtures. <b>2012</b> , 51, 197-207	257
1308	Thermal stability of multilayer graphene films synthesized by chemical vapor deposition and stained by metallic impurities. <b>2012</b> , 23, 075702	45
1307	The nature of strength enhancement and weakening by pentagon-heptagon defects in graphene. <b>2012</b> , 11, 759-63	461
1306	Cellular imaging using biocompatible dendrimer-functionalized graphene oxide-based fluorescent probe anchored with magnetic nanoparticles. <b>2012</b> , 23, 415101	66
1305	Graphene Oxide-Polythiophene Hybrid with Broad-Band Absorption and Photocatalytic Properties. <b>2012</b> , 3, 2332-6	53
1304	Self-assembled multilayer of alkyl graphene oxide for highly selective detection of copper(II) based on anodic stripping voltammetry. <b>2012</b> , 22, 22631	45
1303	Dispersions of non-covalently functionalized graphene with minimal stabilizer. <b>2012</b> , 6, 8857-67	291
1302	Aqueous dispersion of graphene sheets stabilized by ionic liquid-based polyether. <b>2012</b> , 290, 1785-1791	19
1301	In situ growth of Ni(x)Co(100-x) nanoparticles on reduced graphene oxide nanosheets and their magnetic and catalytic properties. <b>2012</b> , 4, 2378-86	136
1300	Chemoselective photodeoxidization of graphene oxide using sterically hindered amines as catalyst: synthesis and applications. <b>2012</b> , 6, 3027-33	73
1299	Highly conductive poly(methyl methacrylate) (PMMA)-reduced graphene oxide composite prepared by self-assembly of PMMA latex and graphene oxide through electrostatic interaction. <b>2012</b> , 4, 2630-6	213

1298	Hydrazine chemical sensing by modified electrode based on in situ electrochemically synthesized polyaniline/graphene composite thin film. <b>2012</b> , 173, 177-183	90
1297	Recent progress on graphene-based photocatalysts: current status and future perspectives. <b>2012</b> , 4, 5792-813	820
1296	Singlet Oxygen Involved Luminol Chemiluminescence Catalyzed by Graphene Oxide. <b>2012</b> , 116, 21622-21628	74
1295	Preparation of graphene-supported Pt-Co nanoparticles and their use in oxygen reduction reactions. <b>2012</b> , 27, 250-257	21
1294	Electrochemical DNA biosensor with chitosan-Co(3)O(4) nanorod-graphene composite for the sensitive detection of Staphylococcus aureus nuc gene sequence. <b>2012</b> , 88, 42-7	71
1293	Electrochemical immunosensor for the milk allergen Elactoglobulin based on electrografting of organic film on graphene modified screen-printed carbon electrodes. <b>2012</b> , 38, 308-13	113
1292	Aqueous dispersion of submicron-sized diamond particles for thermally conductive polyurethane coating. <b>2012</b> , 415, 255-261	7
1291	Graphene electrochemical responses sense surroundings. <b>2012</b> , 81, 49-57	23
1290	Electrochemical DNA biosensor for the detection of Listeria monocytogenes with dendritic nanogold and electrochemical reduced graphene modified carbon ionic liquid electrode. <b>2012</b> , 85, 145-151	54
1289	A novel fluoride-selective electrode based on metalloporphyrin grafted-grapheneoxide. <b>2012</b> , 101, 128-34	13
1288	Chemically modified graphene oxide/polybenzimidazobenzophenanthroline nanocomposites with improved electrical conductivity. <b>2012</b> , 53, 3937-3945	21
1287	Polymeric nanocomposites with graphene sheets [Materials and device for superior thermal transport properties. <b>2012</b> , 53, 3910-3916	39
1286	Solvent exfoliated graphene for reinforcement of PMMA composites prepared by in situ polymerization. <b>2012</b> , 136, 43-50	45
1285	Graphene-based multilayers: Critical evaluation of materials assembly techniques. <b>2012</b> , 7, 430-447	112
1284	Workfunction-tunable, N-doped reduced graphene transparent electrodes for high-performance polymer light-emitting diodes. <b>2012</b> , 6, 159-67	275
1283	Deposition of FeNi nanoparticles on polyethyleneimine-decorated graphene oxide and application in catalytic dehydrogenation of ammonia borane. <b>2012</b> , 22, 13506	88
1282	Synthesis and separation of dyes via Ni@reduced graphene oxide nanostructures. <b>2012</b> , 22, 1876-1883	76
1281	Extraction of neonicotinoid insecticides from environmental water samples with magnetic graphene nanoparticles as adsorbent followed by determination with HPLC. <b>2012</b> , 4, 766	99

1280	RECENT ADVANCES IN GRAPHENE-BASED NANOMATERIALS FOR BIOMEDICAL APPLICATIONS. <b>2012</b> , 02, 1230001	34
1279	Graphene oxide modified g-C3N4 hybrid with enhanced photocatalytic capability under visible light irradiation. <b>2012</b> , 22, 2721-2726	619
1278	A new approach to reduced graphite oxide with tetrathiafulvalene in the presence of metal ions. <b>2012</b> , 22, 4391	16
1277	Water-soluble graphene sheets with large optical limiting response via non-covalent functionalization with polyacetylenes. <b>2012</b> , 22, 22624	31
1276	Oxygen radical functionalization of boron nitride nanosheets. <b>2012</b> , 134, 18758-71	362
1275	Encyclopedia of Nanotechnology. <b>2012</b> , 2420-2420	
1274	Rapid and efficient synthesis of soluble graphene nanosheets using N-methyl-p-aminophenol sulfate as a reducing agent. <b>2012</b> , 23, 485604	8
1273	Protein-decorated reduced oxide graphene composite and its application to SERS. 2012, 4, 3278-84	38
1272	Evolution of the Composition and Suspension Performance of Nitrogen-Doped Graphene. <b>2012</b> , 116, 6530-6536	56
1271	Cross-linkable nitrile functionalized graphene oxide/poly(arylene ether nitrile) nanocomposite films with high mechanical strength and thermal stability. <b>2012</b> , 22, 5602	100
1270	Graphene oxide modified light addressable potentiometric sensor and its application for ssDNA monitoring. <b>2012</b> , 137, 5866-73	33
1269	Nitrogen-Functionalized Graphene Nanoflakes (GNFs:N): Tunable Photoluminescence and Electronic Structures. <b>2012</b> , 116, 16251-16258	43
1268	A mussel-inspired polydopamine coating as a versatile platform for the in situ synthesis of graphene-based nanocomposites. <b>2012</b> , 4, 5864-7	246
1267	ProcessingMorphologyBroperty Relationships and Composite Theory Analysis of Reduced Graphene Oxide/Natural Rubber Nanocomposites. <b>2012</b> , 45, 6045-6055	286
1266	In situ growth of FeNi alloy nanoflowers on reduced graphene oxide nanosheets and their magnetic properties. <b>2012</b> , 14, 1432-1438	30
1265	Photochemical Engineering of Graphene Oxide Nanosheets. <b>2012</b> , 116, 19822-19827	104
1264	Mechanical properties of graphene oxides. <b>2012</b> , 4, 5910-6	191
1263	Synthesis and Stereocomplex Crystallization of Poly(lactide) Traphene Oxide Nanocomposites. <b>2012</b> , 1, 709-713	145

1262	Two dimensional soft material: new faces of graphene oxide. <b>2012</b> , 45, 1356-64	502
1261	Controlling vertical alignment of phthalocyanine nanofibers on transparent graphene-coated ITO electrodes for organic field emitters. <b>2012</b> , 22, 7837	9
1260	Encyclopedia of Nanotechnology. <b>2012</b> , 2639-2648	
1259	Superhydrophobic Graphene/Nafion Nanohybrid Films with Hierarchical Roughness. <b>2012</b> , 116, 3207-3211	61
1258	Analysis of flavonoids by graphene-based surface-assisted laser desorption/ionization time-of-flight mass spectrometry. <b>2012</b> , 137, 5809-16	39
1257	Encyclopedia of Nanotechnology. <b>2012</b> , 2583-2591	
1256	Reduced graphene oxide and activated carbon composites for capacitive deionization. <b>2012</b> , 22, 15556	191
1255	Simultaneous catalyzing and reinforcing effects of imidazole-functionalized graphene in anhydride-cured epoxies. <b>2012</b> , 22, 18395	80
1254	Flame-annealing assisted synthesis of graphene films from adamantane. <b>2012</b> , 22, 15031	11
1253	Computational Investigation on the Effect of Graphene Oxide Sheets as Nanofillers in Poly(vinyl alcohol)/Graphene Oxide Composites. <b>2012</b> , 116, 22532-22538	28
1252	Toxicity of graphene oxide and multi-walled carbon nanotubes against human cells and zebrafish. <b>2012</b> , 55, 2209-2216	124
1251	CuO/TiO2 nanocrystals grown on graphene as visible-light responsive photocatalytic hybrid materials. <b>2012</b> , 35, 495-499	39
1250	Straightforward synthesis of hyperbranched polymer/graphene nanocomposites from graphite oxide via in situ grafting from approach. <b>2012</b> , 35, 795-800	8
1249	Charge separation and ultraviolet photovoltaic conversion of ZnO quantum dots conjugated with graphene nanoshells. <b>2012</b> , 5, 747-761	37
1248	The formation of a peroxoantimonate thin film coating on graphene oxide (GO) and the influence of the GO on its transformation to antimony oxides and elemental antimony. <b>2012</b> , 50, 5463-5471	39
1247	A one-pot method for the preparation of graphene <b>B</b> i2MoO6 hybrid photocatalysts that are responsive to visible-light and have excellent photocatalytic activity in the degradation of organic pollutants. <b>2012</b> , 50, 5256-5264	116
1246	Synthesis of graphene and derivatives. <b>2012</b> , 2, 105-127	3
1245	Encyclopedia of Nanotechnology. <b>2012</b> , 2471-2487	2

1244	Influence of parent graphite particle size on the electrochemistry of thermally reduced graphene oxide. <b>2012</b> , 14, 12794-9	22
1243	Enhanced epoxy/silica composites mechanical properties by introducing graphene oxide to the interface. <b>2012</b> , 4, 4398-404	240
1242	A general approach to one-pot fabrication of crumpled graphene-based nanohybrids for energy applications. <b>2012</b> , 6, 7505-13	186
1241	Highly concentrated aqueous suspensions of graphene through ultrasonic exfoliation with continuous surfactant addition. <b>2012</b> , 28, 14110-3	147
1240	Facile synthesis of surfactant-free Au cluster/graphene hybrids for high-performance oxygen reduction reaction. <b>2012</b> , 6, 8288-97	537
1239	Unique synthesis of graphene-based materials for clean energy and biological sensing applications. <b>2012</b> , 57, 3000-3009	18
1238	Electrochemical properties of carbon nanodiscs. <b>2012</b> , 2, 1565-1568	9
1237	Lateral dimension-dependent antibacterial activity of graphene oxide sheets. <b>2012</b> , 28, 12364-72	409
1236	Synthesis and investigation of mechanism of platinum@raphene electrocatalysts by novel co-reduction techniques for proton exchange membrane fuel cell applications. <b>2012</b> , 22, 25325	64
1235	Dendronized graphenes: remarkable dendrimer size effect on solvent dispersity and bulk electrical conductivity. <b>2012</b> , 22, 3082	20
1234	Hydrogen flame synthesis of few-layer graphene from a solid carbon source on hexagonal boron nitride. <b>2012</b> , 22, 2859	27
1233	Insight into the effects of graphene oxide sheets on the conformation and activity of glucose oxidase: towards developing a nanomaterial-based protein conformation assay. <b>2012</b> , 14, 9076-85	45
1232	Chemically Reduced Graphite Oxide with Improved Shape Anisotropy. <b>2012</b> , 116, 24809-24813	59
1231	Fabrication and electrochemical performances of hierarchical porous Ni(OH)2 nanoflakes anchored on graphene sheets. <b>2012</b> , 22, 11494	<b>2</b> 40
1230	Effect of Low Thermally Reduced Graphene Loadings on the Crystallization Kinetics and Morphology of Biodegradable Poly(3-hydroxybutyrate). <b>2012</b> , 51, 13686-13691	45
1229	Improved dielectric properties of nanocomposites based on poly(vinylidene fluoride) and poly(vinyl alcohol)-functionalized graphene. <b>2012</b> , 4, 6273-9	<b>2</b> 40
1228	Improved electronic and magnetic properties of reduced graphene oxide films. 2012, 97, 38001	35
1227	Computational studies for reduced graphene oxide in hydrogen-rich environment. <b>2012</b> , 116, 1820-7	12

1226	One-pot, low-temperature synthesis of branched platinum nanowires/reduced graphene oxide (BPtNW/RGO) hybrids for fuel cells. <b>2012</b> , 22, 7791	73
1225	Water-dispersible, sulfonated hyperbranched poly(ether-ketone) grafted multiwalled carbon nanotubes as oxygen reduction catalysts. <b>2012</b> , 6, 6345-55	48
1224	Polyaniline/Graphene Composite as Supercapacitor Electrode. <b>2012</b> , 476-478, 1446-1449	2
1223	Transformation of polymer to graphene films at partially low temperature. <b>2012</b> , 3, 2712	10
1222	Highly efficient polymer light-emitting diodes using graphene oxide-modified flexible single-walled carbon nanotube electrodes. <b>2012</b> , 22, 21481	21
1221	Encyclopedia of Nanotechnology. <b>2012</b> , 2451-2451	
1220	Impedimetric immunoglobulin G immunosensor based on chemically modified graphenes. 2012, 4, 921-5	50
1219	A cathodic electrogenerated chemiluminescence biosensor based on luminol and hemin-graphene nanosheets for cholesterol detection. <b>2012</b> , 2, 4639	34
1218	Experimental Investigation of the Machinability of Epoxy Reinforced With Graphene Platelets. <b>2012</b> ,	2
1217	Chemical approaches toward graphene-based nanomaterials and their applications in energy-related areas. <b>2012</b> , 8, 630-46	335
1216	Flexible field emission from thermally welded chemically doped graphene thin films. 2012, 8, 272-80	28
1215	Flexible pillared graphene-paper electrodes for high-performance electrochemical supercapacitors. <b>2012</b> , 8, 452-9	276
1214	Voltammetry of carbon nanotubes and graphenes: excitement, disappointment, and reality. <b>2012</b> , 12, 201-13	98
1213	Soluble reduced graphene oxide functionalized with conjugated polymer for heterojunction solar cells. <b>2012</b> , 50, 1663-1671	17
1212	Thermoresponsive graphene oxide-PNIPAM nanocomposites with controllable grafting polymer chains via moderate in situ SETERP. <b>2012</b> , 50, 4451-4458	69
1211	Graphene oxide/PEDOT:PSS and reduced graphene oxide/PEDOT:PSS hole extraction layers in organic photovoltaic cells. <b>2012</b> , 209, 1363-1368	46
<b>121</b> 0	High-efficiency and room-temperature reduction of graphene oxide: a facile green approach towards flexible graphene films. <b>2012</b> , 8, 1180-4, 1124	35
1209	Assembly of graphene sheets into 3D macroscopic structures. <b>2012</b> , 8, 2458-63	152

1208	Graphene as a quencher of electronic excited states of photochemical probes. <b>2012</b> , 28, 2849-57	51
1207	Graphene-based high-efficiency surface-enhanced Raman scattering-active platform for sensitive and multiplex DNA detection. <b>2012</b> , 84, 4622-7	169
1206	Advancement in multifunctional nanoparticles for the effective treatment of cancer. <b>2012</b> , 9, 367-81	73
1205	Chemical reduction of an aqueous suspension of graphene oxide by nascent hydrogen. <b>2012</b> , 22, 10530	189
1204	Structure and morphology of charged graphene platelets in solution by small-angle neutron scattering. <b>2012</b> , 134, 8302-5	53
1203	Biodegradable nanocomposites of amyloid fibrils and graphene with shape-memory and enzyme-sensing properties. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 421-7	361
1202	Towards nano-organic chemistry: perspectives for a bottom-up approach to the synthesis of low-dimensional carbon nanostructures. <b>2012</b> , 4, 369-79	23
1201	A stimuli-sensitive injectable graphene oxide composite hydrogel. <b>2012</b> , 48, 5820-2	134
1200	Control the size and surface chemistry of graphene for the rising fluorescent materials. <b>2012</b> , 48, 4527-39	356
1199	Preparation of graphene oxide by solvent-free mechanochemical oxidation of graphite. <b>2012</b> , 22, 12465	66
1198	The electrochemistry of CVD graphene: progress and prospects. <b>2012</b> , 14, 8264-81	121
1197	One-pot synthesis of conducting graphene-polymer composites and their strain sensing application. <b>2012</b> , 4, 1258-62	104
1196	Graphenelhorganic nanocomposites. <b>2012</b> , 2, 64-98	507
1195	Facile photoreduction of graphene oxide by an NAD(P)H model: Hantzsch 1,4-dihydropyridine. <b>2012</b> , 28, 8224-9	29
1194	Hydrothermal Synthesis of Graphene-TiO2 Nanotube Composites with Enhanced Photocatalytic Activity. <b>2012</b> , 2, 949-956	754
1193	Chemical Techniques. 2012, 35-204	2
1192	Carboxyl-functionalized graphene oxidepolyaniline composite as a promising supercapacitor material. <b>2012</b> , 22, 13619	223
1191	Impedimetric thrombin aptasensor based on chemically modified graphenes. <b>2012</b> , 4, 143-7	65

1190	Carbon-based nanostructured materials and their composites as supercapacitor electrodes. <b>2012</b> , 22, 767-784	579
1189	Selective-area fluorination of graphene with fluoropolymer and laser irradiation. <b>2012</b> , 12, 2374-8	201
1188	Photochemical reduction of graphene oxide in colloidal solution. <b>2012</b> , 48, 2-13	29
1187	Graphitization of Graphene Oxide with Ethanol during Thermal Reduction. <b>2012</b> , 116, 9969-9979	50
1186	Graphene-based transparent flexible electrodes for polymer solar cells. <b>2012</b> , 22, 24254	90
1185	Derivitization of pristine graphene for bulk heterojunction polymeric photovoltaic devices. <b>2012</b> , 22, 16723	15
1184	From carbon nanotubes and silicate layers to graphene platelets for polymer nanocomposites. <b>2012</b> , 4, 4578-86	159
1183	Ultrasonication-assisted direct functionalization of graphene with macromolecules. <b>2012</b> , 2, 4713	53
1182	Three-dimensional graphene oxide nanostructure for fast and efficient water-soluble dye removal. <b>2012</b> , 4, 922-7	521
1181	Photo-Fenton reaction of graphene oxide: a new strategy to prepare graphene quantum dots for DNA cleavage. <b>2012</b> , 6, 6592-9	420
1180	Chemically reduced graphene contains inherent metallic impurities present in parent natural and synthetic graphite. <b>2012</b> , 109, 12899-904	173
1179	Promoting Effect of Graphene on Dye-Sensitized Solar Cells. <b>2012</b> , 51, 10613-10620	84
1178	Graphene oxide-iron oxide and reduced graphene oxide-iron oxide hybrid materials for the removal of organic and inorganic pollutants. <b>2012</b> , 2, 8821	259
1177	#Ee2O3 nanoparticles anchored on graphene with 3D quasi-laminated architecture: in situ wet chemistry synthesis and enhanced electrochemical performance for lithium ion batteries. <b>2012</b> , 36, 1589	84
1176	The application of graphene as electrodes in electrical and optical devices. <b>2012</b> , 23, 112001	265
1175	Enhanced nanoscale friction on fluorinated graphene. <b>2012</b> , 12, 6043-8	222
1174	A LiF Nanoparticle-Modified Graphene Electrode for High-Power and High-Energy Lithium Ion Batteries. <b>2012</b> , 22, 3290-3297	60
1173	Carbon Modifications and Surfaces for Catalytic Organic Transformations. <b>2012</b> , 2, 1267-1284	152

1172	Functionalization of Graphene Oxide by Two-Step Alkylation. <b>2012</b> , 213, 1101-1106	17
1171	The Fabrication, Properties, and Uses of Graphene/Polymer Composites. <b>2012</b> , 213, 1060-1077	454
1170	Dispersing Graphene in Hydroxypropyl Cellulose by Utilizing its LCST Behavior. <b>2012</b> , 213, 1370-1377	16
1169	Mechanical, thermal, and rheological properties of graphene-based polypropylene nanocomposites prepared by melt mixing. <b>2012</b> , 33, 733-744	225
1168	Sensitive and Selective Sensing of Hydrogen Peroxide with Iron-Tetrasulfophthalocyanine-Graphene-Nafion Modified Screen-Printed Electrode. <b>2012</b> , 24, 1212-1219	14
1167	Structural Characterization of Graphene Nanosheets for Miniaturization of Potentiometric Urea Lipid Film Based Biosensors. <b>2012</b> , 24, 1285-1295	44
1166	Unexpectedly strong anion-linteractions on the graphene flakes. <b>2012</b> , 33, 1328-37	71
1165	Electrochemical supercapacitors based on a novel graphene/conjugated polymer composite system. <b>2012</b> , 22, 12268	55
1164	Flexible gigahertz transistors derived from solution-based single-layer graphene. <b>2012</b> , 12, 1184-8	117
1163	The electrocapacitive properties of graphene oxide reduced by urea. <b>2012</b> , 5, 6391-6399	410
1162	Graphene oxide and its reduction: modeling and experimental progress. <b>2012</b> , 2, 2643	418
1161	Understanding surfactant/graphene interactions using a graphene field effect transistor: relating molecular structure to hysteresis and carrier mobility. <b>2012</b> , 28, 8579-86	46
1160	Constructing sacrificial bonds and hidden lengths for ductile graphene/polyurethane elastomers with improved strength and toughness. <b>2012</b> , 22, 12479	136
1159	Graphene-based semiconductor photocatalysts. <b>2012</b> , 41, 782-96	2274
1158	Enhancing electrical conductivity of rubber composites by constructing interconnected network of self-assembled graphene with latex mixing. <b>2012</b> , 22, 10464	230
1157	Towards solution processed all-carbon solar cells: a perspective. <b>2012</b> , 5, 7810	81
1156	Graphene electrochemistry: fundamental concepts through to prominent applications. <b>2012</b> , 41, 6944-76	497
1155	Graphene-based composite materials beneficial to wound healing. <b>2012</b> , 4, 2978-82	207

1154	Layer-by-layer self-assembled multilayer films composed of graphene/polyaniline bilayers: high-energy electrode materials for supercapacitors. <b>2012</b> , 28, 12637-46	126
1153	Rolling up graphene oxide sheets into micro/nanoscrolls by nanoparticle aggregation. <b>2012</b> , 22, 17441	63
1152	Greener Electrochemical Synthesis of High Quality Graphene Nanosheets Directly from Pencil and its SPR Sensing Application. <b>2012</b> , 22, 2352-2362	116
1151	Advanced Asymmetric Supercapacitors Based on Ni(OH)2/Graphene and Porous Graphene Electrodes with High Energy Density. <b>2012</b> , 22, 2632-2641	1668
1150	Revisiting the Structure of Graphene Oxide for Preparing New-Style Graphene-Based Ultraviolet Absorbers. <b>2012</b> , 22, 2542-2549	37
1149	A Facile Approach to Chemically Modified Graphene and its Polymer Nanocomposites. <b>2012</b> , 22, 2735-2743	211
1148	Highly Concentrated and Conductive Reduced Graphene Oxide Nanosheets by Monovalent Cation Interaction: Toward Printed Electronics. <b>2012</b> , 22, 3307-3314	59
1147	Spongy Graphene as a Highly Efficient and Recyclable Sorbent for Oils and Organic Solvents. <b>2012</b> , 22, 4421-4425	833
1146	Graphene-based materials for energy conversion. <b>2012</b> , 24, 4203-10	265
1145	Two-dimensional nanoarchitectures for lithium storage. <b>2012</b> , 24, 4097-111	444
1144	Graphene oxide as an optical biosensing platform. <b>2012</b> , 24, 3298-308	398
1143	Spontaneous and fast growth of large-area graphene nanofilms facilitated by oil/water interfaces. <b>2012</b> , 24, 3958-64	58
1143	Spontaneous and fast growth of large-area graphene nanofilms facilitated by oil/water interfaces. 2012, 24, 3958-64  Functionalized graphene sheets as molecular templates for controlled nucleation and self-assembly of metal oxide-graphene nanocomposites. 2012, 24, 5136-41	58 89
	Functionalized graphene sheets as molecular templates for controlled nucleation and self-assembly of metal oxide-graphene nanocomposites. 2012, 24, 5136-41	
1142	<b>2012</b> , 24, 3958-64  Functionalized graphene sheets as molecular templates for controlled nucleation and self-assembly of metal oxide-graphene nanocomposites. <b>2012</b> , 24, 5136-41	89
1142 1141	Functionalized graphene sheets as molecular templates for controlled nucleation and self-assembly of metal oxide-graphene nanocomposites. 2012, 24, 5136-41  Macroscopic 3D nanographene with dynamically tunable bulk properties. 2012, 24, 5083-7, 5017	89
1142 1141 1140	Functionalized graphene sheets as molecular templates for controlled nucleation and self-assembly of metal oxide-graphene nanocomposites. 2012, 24, 5136-41  Macroscopic 3D nanographene with dynamically tunable bulk properties. 2012, 24, 5083-7, 5017  Graphene-Supported Hemin as a Highly Active Biomimetic Oxidation Catalyst. 2012, 124, 3888-3891  Die chemische Synthese von Nanographen, Graphen-Nanobūdern und Graphen-Schichten. 2012,	89 101 71

1136	From nanographene and graphene nanoribbons to graphene sheets: chemical synthesis. <b>2012</b> , 51, 7640-54	614
1135	Photoluminescent graphene oxide ink to print sensors onto microporous membranes for versatile visualization bioassays. <b>2012</b> , 51, 5602-6	176
1134	Interfacial enhancement of maleated polypropylene/silica composites using graphene oxide. <b>2012</b> , 125, E348	30
1133	Effect of the graphite nanoplatelet size on the mechanical, thermal, and electrical properties of polypropylene/exfoliated graphite nanocomposites. <b>2012</b> , 128, n/a-n/a	12
1132	Inherent electrochemistry and activation of chemically modified graphenes for electrochemical applications. <b>2012</b> , 7, 759-70	34
1131	Ternary Nanocomposites of Porphyrin, Angular Au Nanoparticles and Reduced Graphene Oxide: Photocatalytic Synthesis and Enhanced Photocurrent Generation. <b>2012</b> , 4, 1079-1083	25
1130	A Computational Investigation of the Catalytic Properties of Graphene Oxide: Exploring Mechanisms by using DFT Methods. <b>2012</b> , 4, 1844-1849	112
1129	Selectively deposited noble metal nanoparticles on Fe3O4/graphene composites: stable, recyclable, and magnetically separable catalysts. <b>2012</b> , 18, 7601-7	119
1128	Preparation and photophysical and photoelectrochemical properties of a covalently fixed porphyrin-chemically converted graphene composite. <b>2012</b> , 18, 4250-7	50
1127	Covalently functionalized hexagonal boron nitride nanosheets by nitrene addition. <b>2012</b> , 18, 10808-12	64
1126	Effect of Vacancy Defects on the Young's Modulus and Fracture Strength of Graphene: A Molecular Dynamics Study. <b>2012</b> , 30, 1399-1404	25
1125	Covalent functionalization of strained graphene. <b>2012</b> , 13, 1463-9	36
1124	Contrast in electron-transfer mediation between graphene oxide and reduced graphene oxide. <b>2012</b> , 13, 2956-63	2
1123	Single-Stranded DNA-Mediated Immobilization of Graphene on a Gold Electrode for Sensitive and Selective Determination of Dopamine. <b>2012</b> , 77, 19-22	15
1122	Environmentally Friendly Photocatalytic Synthesis of Porphyrin/Ag Nanoparticles/Reduced Graphene Oxide Ternary Nanohybrids Having Superior Catalytic Activity. <b>2012</b> , 77, 545-550	20
1121	A green chemistry of graphene: photochemical reduction towards monolayer graphene sheets and the role of water adlayers. <b>2012</b> , 5, 642-6	51
1120	One-step functionalization of graphene with cyclopentadienyl-capped macromolecules via DielsAlder ElickEhemistry. <b>2012</b> , 22, 7929	45
1119	Influence of the pH on the synthesis of reduced graphene oxide under hydrothermal conditions. <b>2012</b> , 4, 3977-82	109

1118	Chemistry, physics and biology of graphene-based nanomaterials: new horizons for sensing, imaging and medicine. <b>2012</b> , 22, 14313	105
1117	Graphene and its derivatives: switching ON and OFF. <b>2012</b> , 41, 4688-707	219
1116	Helium Tunneling through Nitrogen-Functionalized Graphene Pores: Pressure- and Temperature-Driven Approaches to Isotope Separation. <b>2012</b> , 116, 10819-10827	93
1115	Nanoporous Graphene Membranes for Efficient 3He/4He Separation. <b>2012</b> , 3, 209-213	139
1114	Cuprous oxide nanoparticles dispersed on reduced graphene oxide as an efficient electrocatalyst for oxygen reduction reaction. <b>2012</b> , 48, 1892-4	171
1113	Low temperature growth of highly nitrogen-doped single crystal graphene arrays by chemical vapor deposition. <b>2012</b> , 134, 11060-3	262
1112	Enhanced hydrogen generation by cocatalytic Ni and NiO nanoparticles loaded on graphene oxide sheets. <b>2012</b> , 22, 13849	116
1111	Lithium Aluminum Hydride as Reducing Agent for Chemically Reduced Graphene Oxides. <b>2012</b> , 24, 2292-2298	155
1110	Ultrafast reduction of graphene oxide with Zn powder in neutral and alkaline solutions at room temperature promoted by the formation of metal complexes. <b>2012</b> , 22, 9109	51
1109	Graphene-Based Chemical Sensors. <b>2012</b> , 3, 1746-53	433
1108	Trigol based reduction of graphite oxide to graphene with enhanced charge storage activity. <b>2012</b> , 22, 11140	30
1107	Ferromagnetic hematite@graphene nanocomposites for removal of rhodamine B dye molecules from water. <b>2012</b> , 14, 5140	40
1106		
1100	Restructuring of Graphene Oxide Sheets into Monodisperse Nanospheres. <b>2012</b> , 24, 2554-2557	28
1105		28
	In situ reduction of graphene oxide dispersed in a polymer matrix. <b>2012</b> , 14, 1  Using glucosamine as a reductant to prepare reduced graphene oxide and its nanocomposites with	
1105	In situ reduction of graphene oxide dispersed in a polymer matrix. <b>2012</b> , 14, 1  Using glucosamine as a reductant to prepare reduced graphene oxide and its nanocomposites with metal nanoparticles. <b>2012</b> , 14, 1  Investigation on microstructure and thermal properties of graphene-nanoplatelet/palmitic acid	27
1105	In situ reduction of graphene oxide dispersed in a polymer matrix. 2012, 14, 1  Using glucosamine as a reductant to prepare reduced graphene oxide and its nanocomposites with metal nanoparticles. 2012, 14, 1  Investigation on microstructure and thermal properties of graphene-nanoplatelet/palmitic acid composites. 2012, 14, 1	27 19

Synthesis of highly concentrated suspension of chemically converted graphene in organic solvents: Effect of temperature on the extent of reduction and dispersibility. <b>2012</b> , 29, 680-685	28
1099 A molecular understanding of the gas-phase reduction and doping of graphene oxide. <b>2012</b> , 5, 361-368	15
Microwave absorption studies of polyaniline nanocomposites encapsulating gold nanoparticles on the surface of reduced graphene oxide in the presence of 2-naphthalene sulfonic acid. <b>2012</b> , 290, 829-838	23
RETRACTED ARTICLE: Application of graphene as a sorbent for the preconcentration and determination of trace amounts of lead in water samples prior to flame atomic absorption spectrometry. <b>2012</b> , 177, 497-497	1
1096 Direct formation of graphene layers on top of SiC during the carburization of Si substrate. <b>2012</b> , 12, 1088-10	91 <sub>7</sub>
The effect of growth parameters on the intrinsic properties of large-area single layer graphene grown by chemical vapor deposition on Cu. <b>2012</b> , 50, 134-141	77
The preparation of graphene hybrid films decorated with poly[2-methoxy-5-(2?-ethyl-hexyloxy)-1,4-phenylene vinylene] particles prepared by non-solvent induced precipitation. <b>2012</b> , 50, 216-224	26
Fabrication of semiconducting graphene oxide/polyaniline composite particles and their electrorheological response under an applied electric field. <b>2012</b> , 50, 290-296	82
1092 Influence of chemisorption on the thermal conductivity of graphene nanoribbons. <b>2012</b> , 50, 421-428	43
1091 Size selection of dispersed, exfoliated graphene flakes by controlled centrifugation. <b>2012</b> , 50, 470-475	240
1090 A green approach for the reduction of graphene oxide by wild carrot root. <b>2012</b> , 50, 914-921	286
UV light exposure of aqueous graphene oxide suspensions to promote their direct reduction, formation of graphenethetal nanoparticle hybrids and dye degradation. <b>2012</b> , 50, 1014-1024	153
1088 The production of chemically converted graphenes from graphite fluoride. <b>2012</b> , 50, 1425-1428	59
$_{ m 1087}$ Templated patterning of graphene oxide using self-assembled monolayers. <b>2012</b> , 50, 1083-1089	28
Investigating the influence of surfactants on the stabilization of aqueous reduced graphene oxide dispersions and the characteristics of their composite films. <b>2012</b> , 50, 3184-3194	81
1085 Residual acetone produces explosives during the production of graphite oxide. <b>2012</b> , 50, 1442-1444	12
1084 The reduction of graphene oxide. <b>2012</b> , 50, 3210-3228	3551
1083 Simple and cost-effective reduction of graphite oxide by sulfuric acid. <b>2012</b> , 50, 3229-3232	62

1082	Stability of multi-walled carbon nanotubes in commonly used acidic media. <b>2012</b> , 50, 1465-1476	45
1081	Amorphous structural models for graphene oxides. <b>2012</b> , 50, 1690-1698	93
1080	Graphene layers produced from carbon nanotubes by friction. <b>2012</b> , 50, 1934-1941	13
1079	One-step solid state preparation of reduced graphene oxide. <b>2012</b> , 50, 2134-2140	134
1078	Chemically tailoring graphene oxides into fluorescent nanosheets for Fe3+ ion detection. <b>2012</b> , 50, 2147-2154	l 177
1077	One-pot solvothermal preparation of magnetic reduced graphene oxide-ferrite hybrids for organic dye removal. <b>2012</b> , 50, 2337-2346	295
1076	One pot preparation of reduced graphene oxide (RGO) or Au (Ag) nanoparticle-RGO hybrids using chitosan as a reducing and stabilizing agent and their use in methanol electrooxidation. <b>2012</b> , 50, 2513-2523	271
1075	Synthesis of electrochemiluminescent graphene oxide functionalized with a ruthenium(II) complex and its use in the detection of tripropylamine. <b>2012</b> , 50, 2539-2545	47
1074	Negative differential resistance and improved optoelectronic properties in Ag nanoparticles-decorated graphene oxideliboflavin hybrids. <b>2012</b> , 50, 3422-3434	17
1073	In situ transmission electron microscopy of electrochemical lithiation, delithiation and deformation of individual graphene nanoribbons. <b>2012</b> , 50, 3836-3844	86
1072	Preparation and characterization of graphene and Ni-decorated graphene using flower petals as the precursor material. <b>2012</b> , 50, 4123-4129	56
1071	The effect of concentration of graphene nanoplatelets on mechanical and electrical properties of reduced graphene oxide papers. <b>2012</b> , 50, 4573-4578	77
1070	Preparation and electrical conductivity of graphene/ultrahigh molecular weight polyethylene composites with a segregated structure. <b>2012</b> , 50, 4596-4599	99
1069	Simultaneous bio-functionalization and reduction of graphene oxide by baker's yeast. <b>2012</b> , 183, 526-533	210
1068	TiO2graphene nanocomposites for photocatalytic hydrogen production from splitting water. <b>2012</b> , 37, 2224-2230	182
1067	Enhanced photocatalytic degradation of methylene blue under visible irradiation on graphene@TiO2 dyade structure. <b>2012</b> , 111-112, 303-308	333
1066	Co3O4 nanocrystals on graphene oxide as a synergistic catalyst for degradation of Orange II in water by advanced oxidation technology based on sulfate radicals. <b>2012</b> , 123-124, 265-272	174
1065	Preparation and swelling properties of graphene oxide/poly(acrylic acid-co-acrylamide) super-absorbent hydrogel nanocomposites. <b>2012</b> , 401, 97-106	237

1064	High performance polyurethane/functionalized graphene nanocomposites with improved mechanical and thermal properties. <b>2012</b> , 72, 702-707	147
1063	Interaction of reduced graphene oxide with free radicals and silver clusters. <b>2012</b> , 529, 54-58	15
1062	Superior dispersion of highly reduced graphene oxide in N,N-dimethylformamide. <b>2012</b> , 376, 91-6	66
1061	Peculiar reduction of graphene oxide into graphene after diffusion in exponentially growing polyelectrolyte multilayers. <b>2012</b> , 377, 489-96	4
1060	Graphene materials preparation methods have dramatic influence upon their capacitance. <b>2012</b> , 14, 5-8	88
1059	Enhanced electrocatalytic activity of nitrogen-doped graphene for the reduction of nitro explosives. <b>2012</b> , 16, 30-33	33
1058	Differentiation between graphene oxide and reduced graphene by electrochemical impedance spectroscopy (EIS). <b>2012</b> , 20, 63-66	135
1057	Comparison of the electroanalytical performance of chemically modified graphenes (CMGs) using uric acid. <b>2012</b> , 20, 141-144	11
1056	Graphene oxide nanoribbon and polyhedral oligomeric silsesquioxane assembled composite frameworks for pre-concentrating and electrochemical sensing of 1-hydroxypyrene. <b>2012</b> , 59, 91-99	36
1055	Synthesis of a graphenellarbon nanotube composite and its electrochemical sensing of hydrogen peroxide. <b>2012</b> , 59, 509-514	166
1054	A novel LiFePO4/graphene/carbon composite as a performance-improved cathode material for lithium-ion batteries. <b>2012</b> , 64, 190-195	125
1053	Nanographene derived from carbon nanofiber and its application to electric double-layer capacitors. <b>2012</b> , 68, 146-152	21
1052	Decorating graphene sheets with gold nanoparticles for the detection of sequence-specific DNA. <b>2012</b> , 71, 239-245	63
1051	Excellent electrochemical performance of graphene-silver nanoparticle hybrids prepared using a microwave spark assistance process. <b>2012</b> , 74, 207-214	35
1050	Electrochemistry of horseradish peroxidase entrapped in graphene and dsDNA composite modified carbon ionic liquid electrode. <b>2012</b> , 75, 381-386	23
1049	Development of effective nanobiocatalytic systems through the immobilization of hydrolases on functionalized carbon-based nanomaterials. <b>2012</b> , 115, 164-71	125
1048	Enhanced electrochemiluminescence of CdSe quantum dots composited with graphene oxide and chitosan for sensitive sensor. <b>2012</b> , 31, 369-75	100
1047	The synthesis and properties of ZnOgraphene nano hybrid for photodegradation of organic pollutant in water. <b>2012</b> , 132, 673-681	205

1046	One-step solvothermal synthesis of graphene/Mn3O4 nanocomposites and their electrochemical properties for supercapacitors. <b>2012</b> , 68, 336-339	79
1045	Freestanding graphene in large quantity prepared by Nickel catalyzed decomposition of SiC powder. <b>2012</b> , 74, 19-21	5
1044	Reinforcement with graphene nanosheets in aluminum matrix composites. <b>2012</b> , 66, 594-597	607
1043	Fracture toughness and toughening mechanisms in graphene platelet reinforced Si3N4 composites. <b>2012</b> , 66, 793-796	167
1042	Enhanced photocatalytic performance of Bi2WO6 by graphene supporter as charge transfer channel. <b>2012</b> , 86, 98-105	72
1041	Synthesis and properties of thermally reduced graphene oxide/polyacrylonitrile composites. <b>2012</b> , 73, 741-743	37
1040	Spectroscopic and electrochemical characteristics of a carboxylated graphene <b>2</b> nO composites. <b>2012</b> , 199, 379-385	67
1039	Self-assembly of CoSb-nanocrystal/graphene hybrid nanostructure with improved Li-storage properties via a facile in situ solvothermal route. <b>2012</b> , 202, 276-283	15
1038	Reduced graphene oxidelickel oxide composite as high performance electrode materials for supercapacitors. <b>2012</b> , 203, 243-249	103
1037	Crumpled graphene particles for microbial fuel cell electrodes. <b>2012</b> , 208, 187-192	238
1036	Influence of pH condition on colloidal suspension of exfoliated graphene oxide by electrostatic repulsion. <b>2012</b> , 186, 99-103	8
1035	Energetic graphene oxide: Challenges and opportunities. <b>2012</b> , 7, 137-152	235
1034	Gas sensor based on p-phenylenediamine reduced graphene oxide. <b>2012</b> , 163, 107-114	201
1033	The surface science of graphene: Metal interfaces, CVD synthesis, nanoribbons, chemical modifications, and defects. <b>2012</b> , 67, 83-115	660
1032	Crystallization kinetics and morphology of biodegradable poly(l-lactic acid)/graphene oxide nanocomposites: Influences of graphene oxide loading and crystallization temperature. <b>2012</b> , 527, 40-46	122
1031	Electrochemically reduced graphene modified carbon ionic liquid electrode for the sensitive sensing of rutin. <b>2012</b> , 520, 5064-5069	44
1030	Electrochemical actuator based on polypyrrole/sulfonated graphene/graphene tri-layer film. <b>2012</b> , 520, 6307-6312	21
1029	White photoluminescence from a grown ZnO nanorods/graphene hybrid nanostructure. <b>2012</b> , 34, 1320-1326	76

1028	Chemical functionalization of graphene and its applications. <b>2012</b> , 57, 1061-1105	1351
1027	Functionalized-graphene/ethylene vinyl acetate co-polymer composites for improved mechanical and thermal properties. <b>2012</b> , 31, 282-289	102
1026	P25-graphene hydrogels: room-temperature synthesis and application for removal of methylene blue from aqueous solution. <b>2012</b> , 205-206, 229-35	160
1025	Reduction of graphene oxide by an in-situ photoelectrochemical method in a dye-sensitized solar cell assembly. <b>2012</b> , 7, 101	52
1024	Role of hydrocarbon radicals CH(x) ( $x=1, 2, 3$ ) in graphene growth: a theoretical perspective. <b>2012</b> , 13, 774-9	13
1023	CO2-Laser-Induced Growth of Epitaxial Graphene on 6H-SiC(0001). 2012, 22, 113-120	56
1022	Nanomaterial engineering and property studies in a transmission electron microscope. <b>2012</b> , 24, 177-94	41
1021	Reduced graphene oxide-mediated growth of uniform tin-core/carbon-sheath coaxial nanocables with enhanced lithium ion storage properties. <b>2012</b> , 24, 1405-9	175
1020	Thermal, dynamic-mechanical, and dielectric properties of surfactant intercalated graphite oxide filled maleated polypropylene nanocomposites. <b>2012</b> , 123, 3154-3163	7
1019	Metallic Impurities in Graphenes Prepared from Graphite Can Dramatically Influence Their Properties. <b>2012</b> , 124, 515-518	19
1018	Metallic impurities in graphenes prepared from graphite can dramatically influence their properties. <b>2012</b> , 51, 500-3	149
1017	Synthesis of polypyrrole-reduced graphene oxide composites by in-situ photopolymerization and its application as a supercapacitor electrode. <b>2012</b> , 29, 125-129	20
1016	Fabrication of a low defect density graphene-nickel hydroxide nanosheet hybrid with enhanced electrochemical performance. <b>2012</b> , 5, 11-19	84
1015	Investigation of Raman and photoluminescence studies of reduced graphene oxide sheets. <b>2012</b> , 106, 501-506	211
1014	Preparation and tribological properties of graphene oxide/nitrile rubber nanocomposites. <b>2012</b> , 47, 730-738	128
1013	New Insights into Fatigue Crack Growth in Graphene-Filled Natural Rubber Composites by Microfocus Hard-X-Ray Beamline Radiation. <b>2013</b> , 298, 38-44	28
1012	Fabrication and characterization of poly(vinyl alcohol)/graphene oxide nanofibrous biocomposite scaffolds. <b>2013</b> , 127, 1885-1894	113
1011	Retracted: PP/PP-g-MAH/layered expanded graphite oxide nanocomposites prepared via masterbatch process. <b>2013</b> , 128, 600-610	6

1010	Deviation of phase transition process in surface-tethered thermotropic liquid crystalline polymer nanocomposites with graphene oxide: a spectroscopic study. <b>2013</b> , 4, 5768	5
1009	Viscoelastic properties of graphene/PVA nanocomposite. 2013,	2
1008	Annealing effect on the optoelectronic properties of graphene oxide thin films. 2013, 3, 477-483	14
1007	One-pot synthesis of hematite@graphene core@shell nanostructures for superior lithium storage. <b>2013</b> , 5, 9684-9	26
1006	Advances in Elastomers II. <b>2013</b> ,	9
1005	Controllable functionalization and wettability transition of graphene-based films by an atomic oxygen strategy. <b>2013</b> , 15, 1811	17
1004	Preparation, characterization, and electrochemical performances of graphene/Ni(OH)2 hybrid nanomaterials. <b>2013</b> , 15, 1	6
1003	Graphene reinforced alumina nano-composites. <b>2013</b> , 64, 359-369	221
1002	Influence of Graphite Source on Chemical Oxidative Reactivity. 2013, 25, 2944-2949	18
1001	Preparation of water-soluble and biocompatible graphene. <b>2013</b> , 8, 277-279	10
1000	Ammonia Gas Sensor Based on Aniline Reduced Graphene Oxide. <b>2013</b> , 669, 79-84	19
999	Fabrication and characteristics of solution-processed graphene oxideBilicon heterojunction. <b>2013</b> , 7, 340-343	12
998	Chemically Modified Graphenes as Detectors in Lab-on-Chip Device. <b>2013</b> , 25, 945-950	25
997	Prospects for graphene-nanoparticle-based hybrid sensors. <b>2013</b> , 15, 12785-99	132
996	Synthesis of reduced graphene oxide by an ionothermal method and electrochemical performance. <b>2013</b> , 3, 11807	24
995	Tailor-made Au@Ag core-shell nanoparticle 2D arrays on protein-coated graphene oxide with assembly enhanced antibacterial activity. <b>2013</b> , 24, 205102	41
994	Synthesis and characterization of the in situ bulk polymerization of PMMA containing graphene sheets using microwave irradiation. <b>2013</b> , 18, 3152-67	69
993	Amine-assisted solvothermal approach for the in situ synthesis of metal telluride/reduced graphene oxide. <b>2013</b> , 63, 157-164	7

992 Strainology of Raman phonons in bended, periodically buckled, and rippled graphene. **2013**, 86, 1

991	Facile preparation of poly(Etaprolactone)/Fe3O4@graphene oxide superparamagnetic nanocomposites. <b>2013</b> , 70, 2359-2371	21
990	Synthesis of highly dispersed titanium dioxide nanoclusters on reduced graphene oxide for increased glucose sensing. <b>2013</b> , 57, 470-476	34
989	A single-stage functionalization and exfoliation method for the production of graphene in water: stepwise construction of 2D-nanostructured composites with iron oxide nanoparticles. <b>2013</b> , 5, 9073-80	14
988	Silicon nanowires for Li-based battery anodes: a review. <b>2013</b> , 1, 9566	262
987	Biodegradable amylose films reinforced by graphene oxide and polyvinyl alcohol. <b>2013</b> , 142, 1-11	23
986	Van der Waals heterostructures. <b>2013</b> , 499, 419-25	6627
985	A rational design of cosolvent exfoliation of layered materials by directly probing liquid-solid interaction. <b>2013</b> , 4, 2213	204
984	Fabrication and characterization of highly efficient flexible energy harvesters using PVDFgraphene nanocomposites. <b>2013</b> , 22, 085017	86
983	Nitroxide-Functionalized Graphene Oxide from Graphite Oxide. <b>2013</b> , 63, 376-376	40
982	Poly[3-(2-hydroxyethyl)-2,5-thienylene] grafted reduced graphene oxide: an efficient alternate material of TiO2 in dye sensitized solar cells. <b>2013</b> , 49, 4646-8	19
981	Effects of covalent surface modifications on the electrical and electrochemical properties of graphene using sodium 4-aminoazobenzene-4?-sulfonate. <b>2013</b> , 54, 310-322	54
980	Pickering emulsion polymerization of graphene oxide-stabilized styrene. <b>2013</b> , 291, 1631-1639	51
979	X-ray photoelectron spectroscopy (XPS) and diffraction (XPD) study of a few layers of graphene on 6H-SiC(0001). <b>2013</b> , 615, 47-56	34
978	Electrical and mechanical properties of PMMA/reduced graphene oxide nanocomposites prepared via in situ polymerization. <b>2013</b> , 48, 6223-6232	124
977	Ultrasonic preparation of hierarchical graphene-oxide/TiO2 composite microspheres for efficient photocatalytic hydrogen production. <b>2013</b> , 8, 2779-86	26
976	Temperature and pH-tunable fluorescence nanoplatform with graphene oxide and BODIPY-conjugated polymer for cell imaging and therapy. <b>2013</b> , 34, 1408-15	30
975	3D graphene-Fe3O4 nanocomposites with high-performance microwave absorption. <b>2013</b> , 15, 13038-43	281

974	Combustion synthesis of graphene materials. <b>2013</b> , 62, 302-311	30
973	Enhanced interfacial interaction between polycarbonate and thermally reduced graphene induced by melt blending. <b>2013</b> , 86, 109-116	70
972	The realistic domain structure of as-synthesized graphene oxide from ultrafast spectroscopy. <b>2013</b> , 135, 12468-74	58
971	DNA Nanotechnology. <b>2013</b> ,	4
970	Boron-doped graphene and boron-doped diamond electrodes: detection of biomarkers and resistance to fouling. <b>2013</b> , 138, 4885-91	53
969	Role of deoxy group on the high concentration of graphene in surfactant/water media. 2013, 3, 2369	44
968	A tough graphene nanosheet/hydroxyapatite composite with improved in vitro biocompatibility. <b>2013</b> , 61, 105-115	197
967	Preparation and characterization of Pt nanoparticles supported on modified graphite nanoplatelet using solution blending method. <b>2013</b> , 38, 8909-8913	10
966	Facile method for the environmentally friendly fabrication of reduced graphene oxide films assisted by a metal substrate and saline solution. <b>2013</b> , 3, 14286	3
965	Reduced Graphene Oxide: Control of Water Miscibility, Conductivity, and Defects by Photocatalysis. <b>2013</b> , 5, 3060-3067	21
964	Applications of Nanomaterials in Sensors and Diagnostics. 2013,	24
963	One-pot synthesis of gold nanoparticle/molybdenum cluster/graphene oxide nanocomposite and its photocatalytic activity. <b>2013</b> , 130-131, 270-276	69
962	Room temperature ionic liquids for epoxy nanocomposite synthesis: Direct dispersion and cure. <b>2013</b> , 86, 38-44	37
961	Ultra-fast synthesis of graphene by melt spinning. <b>2013</b> , 61, 299-304	2
960	Structure and dynamics of poly(methyl methacrylate)/graphene systems through atomistic molecular dynamics simulations. <b>2013</b> , 15, 1	57
959	Controlled synthesis of porous Fe3O4-decorated graphene with extraordinary electromagnetic wave absorption properties. <b>2013</b> , 61, 5829-5834	159
958	Graphene-based nanoprobes and a prototype optical biosensing platform. <b>2013</b> , 50, 251-5	33
957	Shear thickening behavior of nanoparticle suspensions with carbon nanofillers. <b>2013</b> , 15, 1	45

956	Defluoridation from aqueous solution by manganese oxide coated graphene oxide. <b>2013</b> , 148, 67-73	44
955	Origin of Visible Light Photoactivity of Reduced Graphene Oxide/TiO2 by in Situ Hydrothermal Growth of Undergrown TiO2 with Graphene Oxide. <b>2013</b> , 117, 16734-16741	105
954	Recent progress in the development of anode and cathode catalysts for direct methanol fuel cells. <b>2013</b> , 2, 553-578	348
953	Transition metal (Mn, Fe, Co, Ni)-doped graphene hybrids for electrocatalysis. <b>2013</b> , 8, 1295-300	72
952	Poly(methyl methacrylate)/graphene oxide layered films as generators for mechanical energy harvesting. <b>2013</b> , 5, 3770-5	8
951	Electrical and spectroscopic investigations on the reduction mechanism of graphene oxide. <b>2013</b> , 55, 126-132	43
950	Reduction of free-standing graphene oxide papers by a hydrothermal process at the solid/gas interface. <b>2013</b> , 3, 2971	24
949	l-Lactic acid biosensor based on multi-layered graphene. <b>2013</b> , 43, 985-994	11
948	Graphene-Supported Pt, Ir, and Pt-Ir Nanoparticles as Electrocatalysts for the Oxidation of Ammonia. <b>2013</b> , 4, 61-69	29
947	Modification of graphene oxide via photo-initiated grafting polymerization. <b>2013</b> , 48, 5750-5755	14
946	Characterization of multilayer graphene prepared from short-time processed graphite oxide flake. <b>2013</b> , 24, 1282-1286	14
945	Delivery of a therapeutic protein for bone regeneration from a substrate coated with graphene oxide. <b>2013</b> , 9, 4051-60	147
944	Nanomaterials for bio-functionalized electrodes: recent trends. <b>2013</b> , 1, 4878-4908	260
943	Identifying efficient natural bioreductants for the preparation of graphene and graphene-metal nanoparticle hybrids with enhanced catalytic activity from graphite oxide. <b>2013</b> , 63, 30-44	38
942	Rapid synthesis of free-standing MoO3/Graphene films by the microwave hydrothermal method as cathode for bendable lithium batteries. <b>2013</b> , 228, 198-205	104
941	Competitive binding of natural amphiphiles with graphene derivatives. <b>2013</b> , 3, 2273	56
940	Direct exfoliation of graphite using a non-ionic polymer surfactant for fabrication of transparent and conductive graphene films. <b>2013</b> , 1, 1870	57
939	Balancing light absorptivity and carrier conductivity of graphene quantum dots for high-efficiency bulk heterojunction solar cells. <b>2013</b> , 7, 7207-12	152

938	Efficient synthesis of graphene-based powder via in situ spray pyrolysis and its application in lithium ion batteries. <b>2013</b> , 3, 16449	19
937	Reversible oxidation states of single layer graphene tuned by electrostatic potential. <b>2013</b> , 612, 37-41	6
936	Combustion synthesis of graphene and ultracapacitor performance. <b>2013</b> , 36, 667-672	6
935	Laser scribing on HOPG for graphene stamp printing on silicon wafer. <b>2013</b> , 11,	
934	Direct production of graphene nanosheets for near infrared photoacoustic imaging. <b>2013</b> , 7, 8147-57	85
933	Dual functionalized graphene oxide serves as a carrier for delivering oligohistidine- and biotin-tagged biomolecules into cells. <b>2013</b> , 13, 1478-84	20
932	(Fe3O4)-graphene oxide as a novel magnetic nanomaterial for non-enzymatic determination of phenylalanine. <b>2013</b> , 33, 4624-32	47
931	A Self-Assembly Route to an Iron Phthalocyanine/Reduced Graphene Oxide Hybrid Electrocatalyst Affording an Ultrafast Oxygen Reduction Reaction. <b>2013</b> , 30, 1063-1070	39
930	Inside and Outside: X-ray Absorption Spectroscopy Mapping of Chemical Domains in Graphene Oxide. <b>2013</b> , 4, 3144-51	45
929	Electrocatalysis in Fuel Cells. <b>2013</b> ,	63
929 928	Electrocatalysis in Fuel Cells. 2013,  Interconnected Pt-nanodendrite/DNA/reduced-graphene-oxide hybrid showing remarkable oxygen reduction activity and stability. 2013, 7, 9223-31	63 71
	Interconnected Pt-nanodendrite/DNA/reduced-graphene-oxide hybrid showing remarkable oxygen	
928	Interconnected Pt-nanodendrite/DNA/reduced-graphene-oxide hybrid showing remarkable oxygen reduction activity and stability. <b>2013</b> , 7, 9223-31  Superhydrophobic graphene-based materials: surface construction and functional applications.	71
928 927	Interconnected Pt-nanodendrite/DNA/reduced-graphene-oxide hybrid showing remarkable oxygen reduction activity and stability. <b>2013</b> , 7, 9223-31  Superhydrophobic graphene-based materials: surface construction and functional applications. <b>2013</b> , 25, 5352-9  Effects of nano carbon black and single-layer graphene oxide on settlement, survival and swimming	71 56
928 927 926	Interconnected Pt-nanodendrite/DNA/reduced-graphene-oxide hybrid showing remarkable oxygen reduction activity and stability. 2013, 7, 9223-31  Superhydrophobic graphene-based materials: surface construction and functional applications. 2013, 25, 5352-9  Effects of nano carbon black and single-layer graphene oxide on settlement, survival and swimming behaviour of Amphibalanus amphitrite larvae. 2013, 29, 643-652  Enhancing the catalytic activity of Pt nanoparticles using poly sodium styrene sulfonate stabilized	71 56 41
928 927 926 925	Interconnected Pt-nanodendrite/DNA/reduced-graphene-oxide hybrid showing remarkable oxygen reduction activity and stability. 2013, 7, 9223-31  Superhydrophobic graphene-based materials: surface construction and functional applications. 2013, 25, 5352-9  Effects of nano carbon black and single-layer graphene oxide on settlement, survival and swimming behaviour of Amphibalanus amphitrite larvae. 2013, 29, 643-652  Enhancing the catalytic activity of Pt nanoparticles using poly sodium styrene sulfonate stabilized graphene supports for methanol oxidation. 2013, 1, 3489	71 56 41
928 927 926 925	Interconnected Pt-nanodendrite/DNA/reduced-graphene-oxide hybrid showing remarkable oxygen reduction activity and stability. 2013, 7, 9223-31  Superhydrophobic graphene-based materials: surface construction and functional applications. 2013, 25, 5352-9  Effects of nano carbon black and single-layer graphene oxide on settlement, survival and swimming behaviour of Amphibalanus amphitrite larvae. 2013, 29, 643-652  Enhancing the catalytic activity of Pt nanoparticles using poly sodium styrene sulfonate stabilized graphene supports for methanol oxidation. 2013, 1, 3489  Hybrid graphene electrodes for supercapacitors of high energy density. 2013, 584, 124-129	71 56 41 70 40

920	Efficient and reusable graphene-Fe2O3 magnetic nano-composite for selective oxidation and one-pot synthesis of 1,2,3-triazole using a green solvent. <b>2013</b> , 3, 18087	11
919	Preparation and tribological performance of chemically-modified reduced graphene oxide/polyacrylonitrile composites. <b>2013</b> , 54, 153-158	37
918	Solution-processable conductive micro-hydrogels of nanoparticle/graphene platelets produced by reversible self-assembly and aqueous exfoliation. <b>2013</b> , 1, 12900	15
917	New counter electrode of hot filament chemical vapor deposited graphene thin film for dye sensitized solar cell. <b>2013</b> , 222, 464-471	35
916	Nonenzymatic electrochemical detection of glucose based on Pd1Pt3graphene nanomaterials. <b>2013</b> , 690, 19-24	35
915	Novel fluorescent carbonic nanomaterials for sensing and imaging. <b>2013</b> , 1, 042001	111
914	Preparation of highly stacked graphene papers via site-selective functionalization of graphene oxide. <b>2013</b> , 1, 12893	43
913	From graphite to graphene: direct liquid-phase exfoliation of graphite to produce single- and few-layered pristine graphene. <b>2013</b> , 1, 10592	222
912	Surface Functionalization of Graphene. <b>2013</b> , 233-253	2
911	From Graphene to Graphene Oxide and Back. <b>2013</b> , 291-317	2
910	Carbon nanotube and graphene multiple-thread yarns. <b>2013</b> , 5, 1183-7	15
909	High-yield production of highly fluorinated graphene by direct heating fluorination of graphene-oxide. <b>2013</b> , 5, 8294-9	112
908	Nanotribological Properties of Fluorinated, Hydrogenated, and Oxidized Graphenes. 2013, 50, 137-144	104
907	Bifunctional composite catalysts using Co3O4 nanofibers immobilized on nonoxidized graphene nanoflakes for high-capacity and long-cycle Li-O2 batteries. <b>2013</b> , 13, 4190-7	306
906	Effect of molecular interactions on the performance of poly(isobutylene-co-isoprene)/graphene and clay nanocomposites. <b>2013</b> , 291, 1729-1740	63
905	Glass transition improvement in epoxy/graphene composites. <b>2013</b> , 48, 7883-7892	40
904	Solution-based production of graphene nano-platelets containing extremely low amounts of heteroatoms. <b>2013</b> , 25, 1-5	9
903	In situ exfoliation of graphite oxide nanosheets in polymer nanocomposites using miniemulsion polymerization. <b>2013</b> , 54, 6078-6088	14

902	Benzoin derived reduced graphene oxide (rGO) and its nanocomposite: application in dye removal and peroxidase-like activity. <b>2013</b> , 3, 21475	30
901	Graphene modified carbon nanosheets for electrochemical detection of Pb(II) in water. <b>2013</b> , 1, 13139	52
900	Synthesis of a multifunctional graphenellarbon nanotube aerogel and its strong adsorption of lead from aqueous solution. <b>2013</b> , 3, 21099	60
899	Synergistic effect of multi walled carbon nanotubes and reduced graphene oxides in natural rubber for sensing application. <b>2013</b> , 9, 10343	129
898	Controlled and Selective Area Growth of Monolayer Graphene on 4H-SiC Substrate by Electron-Beam-Assisted Rapid Heating. <b>2013</b> , 117, 19195-19202	17
897	Reduced graphene oxide-based hydrogels for the efficient capture of dye pollutants from aqueous solutions. <b>2013</b> , 56, 173-182	349
896	Understanding the adsorptive and photoactivity properties of Ag-graphene oxide nanocomposites. <b>2013</b> , 263 Pt 1, 52-60	51
895	Evidencing the mask effect of graphene oxide: a comparative study on primary human and murine phagocytic cells. <b>2013</b> , 5, 11234-47	146
894	A novel impedimetric biosensor based on graphene oxide/gold nanoplatform for detection of DNA arrays. <b>2013</b> , 188, 1201-1211	112
893	The Preparation of Hierarchical Flowerlike NiO/Reduced Graphene Oxide Composites for High Performance Supercapacitor Applications. <b>2013</b> , 27, 6304-6310	90
892	Graphene for energy solutions and its industrialization. <b>2013</b> , 5, 10108-26	71
891	Sensitive sugar detection using 4-aminophenylboronic acid modified graphene. <b>2013</b> , 50, 331-7	58
890	Process intensification of uniform loading of SnO2 nanoparticles on graphene oxide nanosheets using a novel ultrasound assisted in situ chemical precipitation method. <b>2013</b> , 70, 48-54	50
889	Enhanced room temperature sensing of Co3O4-intercalated reduced graphene oxide based gas sensors. <b>2013</b> , 188, 902-908	160
888	Synthesis and Characterization of Ionic Graphene Oxides (GO) for the Generation of New Multilayered Structures and Hybrid GO/Polymer Nanocomposites. <b>2013</b> , 325-326, 141-146	4
887	Low percolation threshold of graphene/polymer composites prepared by solvothermal reduction of graphene oxide in the polymer solution. <b>2013</b> , 8, 132	88
886	High peroxidase catalytic activity of exfoliated few-layer graphene. <b>2013</b> , 62, 51-60	40
885	Synthesis and properties of an atomically thin carbon nanosheet similar to graphene and its promising use as an organic thin film transistor. <b>2013</b> , 55, 299-304	34

884	(001) Facet-exposed anatase-phase TiO2 nanotube hybrid reduced graphene oxide composite: Synthesis, characterization and application in photocatalytic degradation. <b>2013</b> , 287, 359-368	49
883	Efficient surfactant-free and chemical reductant-free solvothermal deoxidation of solution-processable sub-stoichiometric graphene oxide. <b>2013</b> , 1, 7246	3
882	Synthesis, characterization and catalytic application of Au NPs-reduced graphene oxide composites material: an eco-friendly approach. <b>2013</b> , 40, 139-144	50
881	Sensitization of CdS nanoparticles onto reduced graphene oxide (RGO) fabricated by chemical bath deposition method for effective removal of Cr(VI). <b>2013</b> , 141, 686-693	45
880	Ultraporous Palladium Supported on Graphene-Coated Carbon Fiber Paper as a Highly Active Catalyst Electrode for the Oxidation of Methanol. <b>2013</b> , 13, n/a-n/a	4
879	Dynamic electrosorption analysis as an effective means to characterise the structure of bulk graphene assemblies. <b>2013</b> , 19, 3082-9	16
878	Graphene oxide as carboelectrocatalyst for in situ electrochemical oxidation and sensing of chemical warfare agent simulant. <b>2013</b> , 188, 1218-1224	13
877	Electrochemically reduced graphene oxidefickel nanocomposites for urea electrolysis. <b>2013</b> , 89, 732-736	133
876	Large-scale production of high-quality reduced graphene oxide. 2013, 233, 297-304	44
875	Sulfuric acid intercalated graphite oxide for graphene preparation. <b>2013</b> , 3, 3439	79
874	A rapid and efficient self-healing thermo-reversible elastomer crosslinked with graphene oxide. <b>2013</b> , 25, 5785-90	193
873	Magnetic Graphene Oxide Anchored Sulfonic Acid as a Novel Nanocatalyst for the Synthesis of N-aryl-2-amino-1,6-naphthyridines. <b>2013</b> , 60, n/a-n/a	6
872	Electrochemically exfoliated graphene for electrode films: effect of graphene flake thickness on the sheet resistance and capacitive properties. <b>2013</b> , 29, 13307-14	83
871	High strength polyimide fibers with functionalized graphene. <b>2013</b> , 54, 6415-6424	76
870	Ultrasonication Induces Oxygenated Species and Defects onto Exfoliated Graphene. <b>2013</b> , 117, 23272-23278	103
869	Leaf-like Graphene Oxide with a Carbon Nanotube Midrib and Its Application in Energy Storage Devices. <b>2013</b> , 23, n/a-n/a	2
868	Surface fractal evolution induced rubbing for rapid room temperature and transfer-free fabrication of graphene on flexible polymer substrate. <b>2013</b> , 103, 011601	13
867	Electrical conductivity and optical properties of thin carbon films grown by pyrolysis of ethanolWater mixture vapor. <b>2013</b> , 275, 278-281	5

866	Interlayer catalytic exfoliation realizing scalable production of large-size pristine few-layer graphene. <b>2013</b> , 3, 1134	67
865	Plasma Nanoscience and Nanotechnology. <b>2013</b> , 287-357	2
864	Propagative Exfoliation of High Quality Graphene. <b>2013</b> , 25, 4487-4496	25
863	Large scale production of highly-qualified graphene by ultrasonic exfoliation of expanded graphite under the promotion of (NH4)2CO3 decomposition. <b>2013</b> , 24, 475602	8
862	Controlling the formation of rodlike V2O5 nanocrystals on reduced graphene oxide for high-performance supercapacitors. <b>2013</b> , 5, 11462-70	154
861	Properties and applications of chemically functionalized graphene. <b>2013</b> , 25, 423201	75
860	Preparation and thermal properties of graphene oxide/main chain benzoxazine polymer. <b>2013</b> , 49, 3825-3833	35
859	DNA analysis based on toehold-mediated strand displacement on graphene oxide. <b>2013</b> , 49, 10139-41	25
858	Eu(III)-coupled graphene oxide as a luminescent material. <b>2013</b> , 37, 3861	9
857	Fluorographene nanosheets with broad solvent dispersibility and their applications as a modified layer in organic field-effect transistors. <b>2013</b> , 15, 20992-1000	36
856	Microstructural and electrochemical impedance characterization of bio-functionalized ultrafine ZnS nanocrystals-reduced graphene oxide hybrid for immunosensor applications. <b>2013</b> , 5, 10494-503	27
855	High yield of graphene by dispersant-free liquid exfoliation of mechanochemically delaminated graphite. <b>2013</b> , 15, 1	42
854	Photovoltaic Performance of Flexible Graphene-Electrodes Prepared by a Simple Chemical Vapor Graphitization. <b>2013</b> , 581, 7-12	2
853	DNA and graphene as a new efficient platform for entrapment of methylene blue (MB): Studies of the electrocatalytic oxidation of Enicotinamide adenine dinucleotide. <b>2013</b> , 111, 543-551	14
852	Graphene oxide nanocomposites and their electrorheology. <b>2013</b> , 48, 4997-5002	11
851	Few-layer graphene shells and nonmagnetic encapsulates: a versatile and nontoxic carbon nanomaterial. <b>2013</b> , 7, 10552-62	40
850	Fabrication and tribological properties of a multiply-alkylated cyclopentane/reduced graphene oxide composite ultrathin film. <b>2013</b> , 65, 261-268	21
849	Effective indium-doped zinc oxide buffer layer on silver nanowires for electrically highly stable, flexible, transparent, and conductive composite electrodes. <b>2013</b> , 5, 10397-403	49

848	Deposition SnO(2)/nitrogen-doped graphene nanocomposites on the separator: a new type of flexible electrode for energy storage devices. <b>2013</b> , 5, 12148-55	60
847	Electrochemical sensing of nitric oxide with functionalized graphene electrodes. <b>2013</b> , 5, 12624-30	33
846	Enhanced conductivity and thermal stability of conductive polyaniline/graphene composite synthesized by in situ chemical oxidation polymerization with sodium dodecyl sulfate. <b>2013</b> , 184, 29-34	38
845	Controlled functionalization of graphene oxide with sodium azide. <b>2013</b> , 5, 12136-9	45
844	A computational infrared spectroscopic study of graphene oxide. <b>2013</b> , 139, 084704	6
843	Graphite oxide/metal-organic framework (MIL-101): remarkable performance in the adsorptive denitrogenation of model fuels. <b>2013</b> , 52, 14155-61	173
842	Evidence for Nonradiative Energy Transfer in Graphene-Oxide-Based Hybrid Structures. <b>2013</b> , 117, 25298-25.	30 <b>4</b> 7
841	Dielectric behavior of graphene/BaTiO3/polyvinylidene fluoride nanocomposite under high electric field. <b>2013</b> , 103, 072906	34
840	Field-effect transistors based on two-dimensional materials for logic applications. 2013, 22, 098505	20
839	Direct growth of graphene film on germanium substrate. <b>2013</b> , 3, 2465	157
838	Superhydrophilic graphite surfaces and water-dispersible graphite colloids by electrochemical exfoliation. <b>2013</b> , 139, 064703	9
837	Multifunctional Hybrid Materials Based on Carbon Nanotube Chemically Bonded to Reduced Graphene Oxide. <b>2013</b> , 117, 25865-25875	64
836	Room temperature rubbing for few-layer two-dimensional thin flakes directly on flexible polymer substrates. <b>2013</b> , 3, 2697	20
835	Curly Graphene with Specious Interlayers Displaying Superior Capacity for Hydrogen Storage. <b>2013</b> , 117, 25845-25851	43
834	Liquid Exfoliation of Layered Materials. 2013, 340, 1226419-1226419	2604
833	An insight into the hybridization mechanism of hairpin DNA physically immobilized on chemically modified graphenes. <b>2013</b> , 138, 467-71	10
832	Direct observation of spatially heterogeneous single-layer graphene oxide reduction kinetics. <b>2013</b> , 13, 5777-84	37
831	Topological Modelling of Nanostructures and Extended Systems. 2013,	9

830	Carbon nanomaterials for high-performance supercapacitors. <b>2013</b> , 16, 272-280	476
829	Toxicity analysis of graphene nanoflakes by cell-based electrochemical sensing using an electrode modified with nanocomposite of graphene and Nafion. <b>2013</b> , 188, 454-461	20
828	Self-assembled free-standing graphene oxide fibers. <b>2013</b> , 5, 1489-93	33
827	Hybrid film of chemically modified graphene and vapor-phase-polymerized PEDOT for electronic nose applications. <b>2013</b> , 14, 2789-2794	28
826	Effects of loading mode and orientation on deformation mechanism of graphene nano-ribbons. <b>2013</b> , 103, 191906	5
825	Ecofriendly Route for the Synthesis of Highly Conductive Graphene Using Extremophiles for Green Electronics and Bioscience. <b>2013</b> , 30, 573-578	21
824	Layer-by-layer self-assembly of ultrathin multilayer films composed of magnetite/reduced graphene oxide bilayers for supercapacitor application. <b>2013</b> , 436, 104-112	51
823	Synthesis of a hydrophilic poly-l-lysine/graphene hybrid through multiple non-covalent interactions for biosensors. <b>2013</b> , 1, 1406-1413	50
822	Synthesis, Characterization and Functionalization of Carbon Nanotubes and Graphene: A Glimpse of Their Application. <b>2013</b> , 1-34	1
821	Supramolecular attachment of metalloporphyrins to graphene oxide and its pyridine-containing derivative. <b>2013</b> , 19, 10463-7	6
820	A Molecular Dynamics Study of Polymer/Graphene Nanocomposites. 2013, 331-332, 43-49	21
819	The microwave-assisted ionic liquid nanocomposite synthesis: platinum nanoparticles on graphene and the application on hydrogenation of styrene. <b>2013</b> , 8, 414	11
818	Intrinsic structure and friction properties of graphene and graphene oxide nanosheets studied by scanning probe microscopy. <b>2013</b> , 36, 1073-1077	8
817	Single-layer graphene oxide films on a silicon surface. <b>2013</b> , 58, 1614-1618	17
816	Graphene [Properties and Characterization. 2013, 39-82	5
815	Graphene/poly(3,4-ethylenedioxythiophene) hydrogel with excellent mechanical performance and high conductivity. <b>2013</b> , 59, 495-502	103
814	Basic aluminum sulfate@graphene hydrogel composites: preparation and application for removal of fluoride. <b>2013</b> , 1, 13101	59
813	Graphene oxide sheets as a template for dye assembly: graphene oxide sheets induce H-aggregates of pyronin (Y) dye. <b>2013</b> , 3, 11832	57

	812	Graphene oxide and base-washed graphene oxide as reinforcements in PMMA nanocomposites. <b>2013</b> , 88, 158-164	63
}	811	A novel sensitive Cu(II) and Cd(II) nanosensor platform: Graphene oxide terminated p-aminophenyl modified glassy carbon surface. <b>2013</b> , 112, 541-548	104
;	810	A novel monolithic Pd catalyst supported on cordierite with graphene coating. <b>2013</b> , 40, 98-102	35
ł	809	Synthesis of carboxylate-functionalized graphene nanosheets for high dispersion of platinum nanoparticles based on the reduction of graphene oxide via 1-pyrenecarboxaldehyde. <b>2013</b> , 24, 395604	8
į	808	A facile approach for in situ synthesis of graphene-branched-Pt hybrid nanostructures with excellent electrochemical performance. <b>2013</b> , 5, 11265-74	46
}	807	In situ synthesis of LiV3O8 nanorods on graphene as high rate-performance cathode materials for rechargeable lithium batteries. <b>2013</b> , 49, 9143-5	29
;	806	Synthesis and Characterization of Single and Few Layer Graphene for Field Effect Transistor. 2013, 159-164	
	805	Preparation, decoration and characterization of graphene sheets for methyl green adsorption. <b>2013</b> , 555, 193-200	92
;	804	Cholesteryl hyaluronic acid-coated, reduced graphene oxide nanosheets for anti-cancer drug delivery. <b>2013</b> , 34, 9638-47	149
	803	High-density three-dimension graphene macroscopic objects for high-capacity removal of heavy metal ions. <b>2013</b> , 3, 2125	115
;	802	Multifunctional nanostructured membrane for clean water reclamation from wastewater with various pH conditions. <b>2013</b> , 3, 15202	15
	801	Self-organization of Zr(IV) porphyrinoids on graphene oxide surfaces by axial metal coordination. <b>2013</b> , 52, 10576-82	15
į	800	Contactless surface conductivity mapping of graphene oxide thin films deposited on glass with scanning electrochemical microscopy. <b>2013</b> , 85, 1812-8	18
	799	Thermally reduced graphite and graphene oxides in VRFBs. <b>2013</b> , 2, 1322-1328	33
,	798	Hydrothermal synthesis of reduced graphene sheets/Fe2O3 nanorods composites and their enhanced electrochemical performance for supercapacitors. <b>2013</b> , 20, 46-53	59
	797	Contributions of altered permeability of intestinal barrier and defecation behavior to toxicity formation from graphene oxide in nematode Caenorhabditis elegans. <b>2013</b> , 5, 9934-43	151
,	796	Synthesis of amino-functionalized graphene as metal-free catalyst and exploration of the roles of various nitrogen states in oxygen reduction reaction. <b>2013</b> , 2, 88-97	377
	795	Biomedical Applications of Nanomaterials: An Overview. <b>2013</b> , 1-32	11

794	Assembly of Ag3PO4 nanocrystals on graphene-based nanosheets with enhanced photocatalytic performance. <b>2013</b> , 405, 1-9	57
793	Sulfonated graphene oxide/Nafion composite membranes for high-performance direct methanol fuel cells. <b>2013</b> , 38, 13792-13801	182
792	Hydrogen-Terminated Graphene by Laser Vaporization-Controlled Condensation of Graphite Oxide. Observation of Hydrogen-Capped Carbon Chains CnHICnH+, and CnH2+ (n = 2B0) in the Gas Phase. <b>2013</b> , 117, 9485-9495	8
791	Three-Dimensional Graphene Nano-Networks with High Quality and Mass Production Capability via Precursor-Assisted Chemical Vapor Deposition. <b>2013</b> , 3,	115
790	Photocatalytic and antibacterial properties of Au-TiO2 nanocomposite on monolayer graphene: From experiment to theory. <b>2013</b> , 114, 204701	34
789	Atomically thin two-dimensional materials for functional electrodes of electrochemical devices. <b>2013</b> , 19, 825-865	30
788	Graphene oxide based device for flexible RRAM application. 2013,	1
787	Can closed shell graphitic materials be exfoliated? Defect induced porphyra-like graphene from the cooperation of activation and oxidation. <b>2013</b> , 1, 14103	17
786	Moderating black powder chemistry for the synthesis of doped and highly porous graphene nanoplatelets and their use in electrocatalysis. <b>2013</b> , 25, 6284-90	209
785	Graphene chemical sensors for heliophysics applications. <b>2013</b> , 168, 805-811	1
784	The Synthesis of Graphene Sheets Using Sodium Dodecyl Sulfate (SDS) as a Surfactant; An Electrochemical Process. <b>2013</b> , 829, 456-460	3
783	Super-Hydrophobic Film Prepared with Reduced Graphene Sheets and its Application as Corrosion Barrier to Copper. <b>2013</b> , 365-366, 1100-1105	5
782	Graphene-Based Carbon Materials for Electrochemical Energy Storage. 2013, 2013, 1-11	18
781	Flexible and transferrable self-assembled nanopatterning on chemically modified graphene. <b>2013</b> , 25, 1331-5	84
780	Synthesis of carbon nanotubes and graphene for photonic applications. 2013, 26-56	
779	BSA-rGO nanocomposite hydrogel formed by UV polymerization and in situ reduction applied as biosensor electrode. <b>2013</b> , 1, 5393-5397	19
778	Interaction of Cy3 dye with CCG and its application for BSA detection. 2013, 1, 693-697	16
777	Functional group-guided variable frequency characteristics of a graphene resonator. <b>2013</b> , 3, 16095	5

## (2020-2013)

776	Mesoporous carbon decorated graphene as an efficient electrode material for supercapacitors. <b>2013</b> , 1, 7469	51
775	Facile preparation of a cobalt hybrid/graphene nanocomposite by in situ chemical reduction: high lithium storage capacity and highly efficient removal of Congo red. <b>2013</b> , 42, 8070-7	21
774	A high power density electrode with ultralow carbon via direct growth of particles on graphene sheets. <b>2013</b> , 1, 6183	20
773	Tunability by alkali metal cations of photoinduced charge separation in azacrown functionalized graphene. <b>2013</b> , 49, 3236-8	23
772	Resolving the dilemma of gaining conductivity but losing environmental friendliness in producing polystyrene/graphene composites via optimizing the matrix-filler structure. <b>2013</b> , 15, 821	54
771	Mesoporous anatase TiO2 submicrospheres embedded in self-assembled three-dimensional reduced graphene oxide networks for enhanced lithium storage. <b>2013</b> , 1, 12750	64
770	Hollow palladium nanospheres with porous shells supported on graphene as enhanced electrocatalysts for formic acid oxidation. <b>2013</b> , 15, 19353-9	16
769	PHOTOCATALYTIC ACTIVITY AND WETTABILITY OF RGO/TIO2 NANOCOMPOSITES PREPARED BY ELECTROPHORETIC CO-DEPOSITION. <b>2020</b> , 27, 1950111	2
768	High dispersivity and excellent tribological performance of titanate coupling agent modified graphene oxide in hydraulic oil. <b>2020</b> , 165, 238-250	18
767	Water Promotes the Oxidation of SO by O over Carbonaceous Aerosols. <b>2020</b> , 54, 7070-7077	9
766	Development of graphene-based enzymatic biofuel cells: A minireview. <b>2020</b> , 134, 107537	24
765	Revealing the erosion-corrosion performance of sphere-shaped morphology of nickel matrix nanocomposite strengthened with reduced graphene oxide nanoplatelets. <b>2020</b> , 104, 107763	58
764	Contribution of resonance energy transfer to the luminescence quenching of upconversion nanoparticles with graphene oxide. <b>2020</b> , 575, 119-129	8
763	Tuning the Physicochemical Structure of Graphene Oxide by Thermal Reduction Temperature for Improved Stabilization Ability toward Polymer Degradation. <b>2020</b> , 124, 8999-9008	6
762	Nanostructured graphene materials utilization in fuel cells and batteries: A review. <b>2020</b> , 29, 101386	22
761	The low-temperature specific heat of thermal reduced graphene oxide. <b>2020</b> , 46, 301-305	1
760	Experimental investigation on micromachining of epoxy/graphene nano platelet nanocomposites. <b>2020</b> , 107, 3169-3183	9
759	Nanofiber-reinforced nanocomposites for structural applications. <b>2020</b> , 559-567	1

758	Photothermal bactericidal surfaces: killing bacteria using light instead of biocides. <b>2021</b> , 9, 10-22	42
757	Effect of graphene oxide on the mechanical and thermal properties of graphene oxide/hytrel nanocomposites. <b>2021</b> , 34, 55-67	10
756	Preparation of graphene oxide/poly(o-phenylenediamine) hybrid composite via facile in situ assembly and post-polymerization technology for the anode material of lithium ion battery. <b>2021</b> , 25, 535-544	2
755	A Green Method toward Graphene Oxide Reduction by Extracellular Polymeric Substances Assisted with NH4+. <b>2021</b> , 46, 485-494	О
754	Recent progress in copper sulfide based nanomaterials for high energy supercapacitor applications. <b>2021</b> , 880, 114825	15
753	Thermal oxidation of graphite as the first step for graphene preparation: effect of heating temperature and time. <b>2021</b> , 56, 3675-3691	2
752	Study on the physico-chemical properties of reduced graphene oxide with different degrees of reduction temperature. <b>2021</b> , 18, 201-211	2
751	VOx/VSx@Graphene nanocomposites for electrochemical energy storage. <b>2021</b> , 404, 126310	3
750	Boosting lithium storage by facile functionalization of graphene oxide nanosheets via 2-aminoanthraquinone. <b>2021</b> , 171, 104-110	5
749	Selective reduction of epoxy groups in graphene oxide membrane for ultrahigh water permeation. <b>2021</b> , 172, 228-235	14
749 748		39
	2021, 172, 228-235  Ultrasensitive detection of dopamine via electrochemical route on spindle-like 于e2O3	
748	Ultrasensitive detection of dopamine via electrochemical route on spindle-like ⊞e2O3 Mesocrystals/rGO modified GCE. 2021, 133, 111050  Defect reconstructions in graphene for excellent broadband absorption properties with enhanced	39
748 747	Ultrasensitive detection of dopamine via electrochemical route on spindle-like Fe2O3 Mesocrystals/rGO modified GCE. 2021, 133, 111050  Defect reconstructions in graphene for excellent broadband absorption properties with enhanced bandwidth. 2021, 537, 147840  Investigation of the usability of nitric acid electrolyte in graphene production by electrochemical	39
748 747 746	Ultrasensitive detection of dopamine via electrochemical route on spindle-like Fe2O3 Mesocrystals/rGO modified GCE. 2021, 133, 111050  Defect reconstructions in graphene for excellent broadband absorption properties with enhanced bandwidth. 2021, 537, 147840  Investigation of the usability of nitric acid electrolyte in graphene production by electrochemical method. 2021, 29, 175-182  Graphite-polystyrene composite with enhanced electrochemical and electroanalytical performance.	39 8 0
748 747 746 745	Ultrasensitive detection of dopamine via electrochemical route on spindle-like Fe2O3 Mesocrystals/rGO modified GCE. 2021, 133, 111050  Defect reconstructions in graphene for excellent broadband absorption properties with enhanced bandwidth. 2021, 537, 147840  Investigation of the usability of nitric acid electrolyte in graphene production by electrochemical method. 2021, 29, 175-182  Graphite-polystyrene composite with enhanced electrochemical and electroanalytical performance. 2021, 223, 121780  Synergistic enhancement of gas barrier and aging resistance for biodegradable films with aligned	39 8 0
748 747 746 745	Ultrasensitive detection of dopamine via electrochemical route on spindle-like Fe2O3 Mesocrystals/rGO modified GCE. 2021, 133, 111050  Defect reconstructions in graphene for excellent broadband absorption properties with enhanced bandwidth. 2021, 537, 147840  Investigation of the usability of nitric acid electrolyte in graphene production by electrochemical method. 2021, 29, 175-182  Graphite-polystyrene composite with enhanced electrochemical and electroanalytical performance. 2021, 223, 121780  Synergistic enhancement of gas barrier and aging resistance for biodegradable films with aligned graphene nanosheets. 2021, 172, 31-40  Highly Efficient Remediation of Chloridazon and Its Metabolites: The Case of Graphene Oxide	39 8 0 4

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740	Computational study of elastic, structural stability and dynamics properties of penta-graphene membrane. <b>2021</b> , 542, 111052	9
739	Fluorescence probing of binding sites on graphene oxide nanosheets with Oxazine 1 dye. <b>2021</b> , 541, 148451	2
738	Temperature-dependent rheological behavior of nanofluids rich in carbon-based nanoparticles. <b>2021</b> , 325, 114659	4
737	Coagulation-flocculation of turbid water using graphene oxide: simulation through response surface methodology and process characterization. <b>2021</b> , 28, 14812-14827	3
736	Enhanced synthesis method of graphene oxide. <b>2021</b> , 3, 223-230	7
735	Rheological and tribological characterization of novel modified graphene/oil-based nanofluids using force microscopy. <b>2021</b> , 84, 814-827	O
734	Ways to eliminate PMMA residues on graphene Buperclean graphene. <b>2021</b> , 173, 609-636	14
733	Catalytic ozonation of norfloxacin using CoO/C composite derived from ZIF-67 as catalyst. <b>2021</b> , 265, 129047	17
732	Recent advancements of copper oxide based nanomaterials for supercapacitor applications. <b>2021</b> , 34, 101995	19
731	Fast high-shear exfoliation of natural flake graphite with temperature control and high yield. <b>2021</b> , 174, 123-131	10
730	Mechanically strong, thermally conductive and flexible graphene composite paper for exceptional electromagnetic interference shielding. <b>2021</b> , 263, 114893	7
729	The effect of equal-channel angular pressing (ECAP) on the properties of graphene reinforced aluminium matrix composites. <b>2021</b> , 55, 1749-1768	1
728	Organic solar cells: Current perspectives on graphene-based materials for electrodes, electron acceptors and interfacial layers. <b>2021</b> , 45, 6518-6549	7
727	Fabrication of Graphitic Carbon Nitride-Based Film: An Emerged Highly Efficient Catalyst for Direct CH Arylation under Solar Light. <b>2021</b> , 39, 633-639	5
726	Interface evolution and mechanical properties of nickel coated graphene nanoflakes/pure titanium matrix composites. <b>2021</b> , 853, 157157	2
725	Improving air barrier, water vapor permeability properties of cellulose paper by layer-by-layer assembly of graphene oxide. <b>2021</b> , 253, 117227	9
724	Harnessing the biocatalytic attributes and applied perspectives of nanoengineered laccases-A review. <b>2021</b> , 166, 352-373	21
723	Nanostructured Materials and their Applications. 2021,	

722	Sensing Applications of Atomically Thin Group IV Carbon Siblings Xenes: Progress, Challenges, and Prospects. <b>2021</b> , 31, 2005957	21
721	Efficient and inexpensive preparation of graphene laminated film with ultrahigh thermal conductivity. <b>2021</b> , 171, 639-645	15
720	Graphene Oxide Functionalized Organic-Inorganic Hybrid (GOBiNH2PMo): An Efficient and Green Catalyst for the Synthesis of Tetrahydrobenzo[b]pyran Derivatives. <b>2021</b> , 41, 781-794	9
719	Effect of graphene filler structure on electrical, thermal, mechanical, and fire retardant properties of epoxy-graphene nanocomposites - a review. <b>2021</b> , 46, 152-187	14
718	Efficiency of different methods of oxidation of graphite: a key route of graphene preparation. <b>2021</b> , 6, 1-11	0
717	Graphene Nanocomposite: Concept and Applications. <b>2021</b> , 1147-1159	
716	Novel Graphene-Based Polymer Nanocomposites. <b>2021</b> , 1013-1033	
715	Synthesis of Advanced Materials by Electrochemical Methods. <b>2021</b> , 435-466	
714	Carbon-based materials approach for environmental sensing. <b>2021</b> , 77-106	O
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709	Reduced graphene oxide-based calcium alginate hydrogel as highly efficient solar steam generation membrane for desalination. <b>2021</b> , 15, 138-146	5
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695 694	Heterostructures of titanium-based MXenes in energy conversion and storage devices. <b>2021</b> , 9, 8395-8465  Progress towards nanoengineered energetic materials. <b>2021</b> , 38, 57-81	10
694	Progress towards nanoengineered energetic materials. <b>2021</b> , 38, 57-81	10
694	Progress towards nanoengineered energetic materials. 2021, 38, 57-81  The rise of carbon materials for field emission. 2021, 9, 2620-2659  Mimicking the graphene oxide structure in solutions by interaction of Fe(III) and Gd(III) with model	10
694 693 692	Progress towards nanoengineered energetic materials. 2021, 38, 57-81  The rise of carbon materials for field emission. 2021, 9, 2620-2659  Mimicking the graphene oxide structure in solutions by interaction of Fe(III) and Gd(III) with model small-size ligands. The NMR relaxation study. 2021, 321, 114344	10 6 0
694 693 692	Progress towards nanoengineered energetic materials. 2021, 38, 57-81  The rise of carbon materials for field emission. 2021, 9, 2620-2659  Mimicking the graphene oxide structure in solutions by interaction of Fe(III) and Gd(III) with model small-size ligands. The NMR relaxation study. 2021, 321, 114344  A Review of Graphene-Based Materials for Marine Corrosion Protection. 2021, 7, 1  Olivine LiMnxFe1  PO4 cathode materials for lithium ion batteries: restricted factors of rate	10 6 0
694 693 692 691	Progress towards nanoengineered energetic materials. 2021, 38, 57-81  The rise of carbon materials for field emission. 2021, 9, 2620-2659  Mimicking the graphene oxide structure in solutions by interaction of Fe(III) and Gd(III) with model small-size ligands. The NMR relaxation study. 2021, 321, 114344  A Review of Graphene-Based Materials for Marine Corrosion Protection. 2021, 7, 1  Olivine LiMnxFe1BPO4 cathode materials for lithium ion batteries: restricted factors of rate performances. 2021, 9, 14214-14232	10 6 0

686	Single-layer carbon nitride: synthesis, structure, photophysical/photochemical properties, and applications. <b>2021</b> , 23, 20745-20764	1
685	Etching-induced highly porous polymeric carbon nitride with enhanced photocatalytic hydrogen evolution. <b>2021</b> , 57, 4138-4141	Ο
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683	Graphene synthesis, characterization and its applications: A review. <b>2021</b> , 3, 100163	13
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681	Graphene-Based Photocatalytic Materials: An Overview. <b>2021</b> , 433-454	
680	Fabrication and application of composite adsorbents made by one-pot electrochemical exfoliation of graphite in surfactant ionic liquid/nanocellulose mixtures. <b>2021</b> , 23, 19313-19328	О
679	Graphene-based nanocomposite for hydrogen storage application. <b>2021</b> , 57-78	3
678	Engineering SnO nanorods/ethylenediamine-modified graphene heterojunctions with selective adsorption and electronic structure modulation for ultrasensitive room-temperature NO detection. <b>2021</b> , 32, 155505	10
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675	Study on preparation of graphene oxide thin film layers: the electrical and dielectric characteristics of Au/GO/n-type Si junction structures. <b>2021</b> , 32, 7913-7925	6
674	Synthesis of three-dimensional graphene architectures from chicken feather and its unusual dimensional crossover in electronic conductivity. <b>2021</b> , 25, 100665	О
673	Significantly enhanced the properties of PE/GO composites with segregated structures via two-step compound. <b>2021</b> , 138, 50518	О
672	Visible-Light-Induced C-P-Bond Formation Using Reduced Graphene Oxide Decorated with Copper Oxide/Zinc Oxide (rGO/CuO/ZnO) as Ternary Recyclable Nanophotocatalyst. <b>2021</b> , 6, 1764-1771	О
671	Comprehensive performance characterization of conductive fabric made of reduced graphene oxide (rGO). <b>2021</b> , 138, 50524	2
670	Highly Efficient Preparation of Graphite Oxide without Water Enhanced Oxidation. 2021, 33, 1731-1739	7
669	Biomass-derived Graphene-like Catalyst Material for Oxygen Reduction Reaction. <b>2021</b> , 7, 307-313	7

668	Graphene-semiconductor nanocomposites for cancer phototherapy. <b>2021</b> , 16, 022007	4
667	Molecularly imprinted polymers by the surface imprinting technique. <b>2021</b> , 145, 110231	34
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665	An experimental study on the electrical and thermal performance of reduced graphene oxide coated cotton fabric. <b>2021</b> , 45, 12915-12927	1
664	Planar Graphene-Based Microsupercapacitors. <b>2021</b> , 17, e2006827	7
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661	Nanocellulose-Graphene Hybrids: Advanced Functional Materials as Multifunctional Sensing Platform. <b>2021</b> , 13, 94	7
660	Investigation of the usability of extreme temperature changes in pristine graphene production. <b>2021</b> , 26, 100223	0
659	Combinational reduction of graphene oxide via coherent and incoherent light irradiation for flexible supercapacitors. <b>2021</b> , 113, 108237	5
658	Fabrication, Functionalization, and Application of Carbon Nanotube-Reinforced Polymer Composite: An Overview. <b>2021</b> , 13,	83
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655	Preparation and optimization of novel graphene oxide and adsorption isotherm study of methylene blue. <b>2021</b> , 14, 103003	12
654	Graphene oxide/epoxy acrylate nanocomposite production via SLA and importance of graphene oxide surface modification for mechanical properties. <b>2021</b> , 27, 682-691	7
653	Enhanced photocatalytic activity and stability of TiO2/graphene oxide composites coatings by electrophoresis deposition. <b>2021</b> , 286, 129258	8
652	Tuning the Oxygen Content of Reduced Graphene Oxide and Effects on Its Properties. <b>2021</b> , 6, 6195-6205	16
651	Unzipping chemical bonds of non-layered bulk structures to form ultrathin nanocrystals. <b>2021</b> , 4, 955-968	3

650	Hydrophobic behaviour of reduced graphene oxide thin film fabricated via electrostatic spray deposition. <b>2021</b> , 44, 1	1
649	Photolithographically-patterned C-MEMS graphene by carbon diffusion through nickel. 2021,	1
648	Two-dimensional oxide derived from high-temperature liquid metals via bubble templating. 1	3
647	Superior wear resistance of epoxy composite with highly dispersed graphene spheres. 1	5
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644	Thermal conductivity of graphene/graphane/graphene heterostructure nanoribbons: Non-equilibrium molecular dynamics simulations. <b>2021</b> , 328, 114249	4
643	Graphene Oxide for Electronics. <b>2021</b> , 1-19	О
642	Ultrahigh specific capacitance of ⊞e2O3 nanorods-incorporated defect-free graphene nanolayers. <b>2021</b> , 221, 119743	5
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640	Structure-dependent re-dispersibility of graphene oxide powders prepared by fast spray drying. <b>2021</b> , 32, 485-492	2
639	Two-dimensional nanomaterials with engineered bandgap: Synthesis, properties, applications. <b>2021</b> , 37, 101059	24
638	An exploration on the form factors of turbulence kinetic energy transfer for shear exfoliation of graphene. <b>2021</b> ,	1
637	Carbon textiles electrodes modified with RGO and Pt nanoparticles used for electrochemical treatment of azo dye. <b>2021</b> , 887, 115154	4
636	Gram-Scale Synthesis of Porous Graphene via Printing Paper Pyrolysis as Supercapacitor Electrodes. <b>2021</b> , 9, 2001025	1
635	Chitosan/Silver Nanoparticle/Graphene Oxide Nanocomposites with Multi-Drug Release, Antimicrobial, and Photothermal Conversion Functions. <b>2021</b> , 14,	8
634	Multilayer Reduced Graphene Oxide Deposited on Carbon Sheet as Electrodes for Supercapacitor Device. 1028, 157-161	
633	Geometry-Dependent Thermal Reduction of Graphene Oxide Solid. <b>2021</b> , 3, 511-515	9

632	Advances in Carbon Nanostructures and Nanocellulose as Additives for Efficient Drilling Fluids: Trends and Future Perspective Review. <b>2021</b> , 35, 7319-7339	10
631	Time-intended effect on electrochemical performance of hydrothermally reduced graphene oxide nanosheets: Design and study of solid-state symmetric supercapacitor. <b>2021</b> , 32, 14901	
630	The Structure-Properties-Cytotoxicity Interplay: A Crucial Pathway to Determining Graphene Oxide Biocompatibility. <b>2021</b> , 22,	5
629	Efficacy of graphene nanosheets on the plasma sprayed hydroxyapatite coating: Improved strength, toughness and in-vitro bioperformance with osteoblast. <b>2021</b> , 203, 109585	3
628	Preparation and Performance of Chemotherapy Drug-Loaded Graphene Oxide-Based Nanosheets That Target Ovarian Cancer Cells via Folate Receptor Mediation. <b>2021</b> , 17, 960-970	3
627	Al2O3/GO cellulose based 3D-hydrogel for efficient fluoride removal from water. <b>2021</b> , 15, 100444	1
626	Facile synthesis of W18O49/Graphene nanocomposites for highly sensitive ethanol gas sensors. <b>2021</b> , 616, 126300	4
625	Progress in modifications of 3D graphene-based adsorbents for environmental applications. <b>2021</b> , 270, 129420	11
624	Comparative cytotoxicity of kaolinite, halloysite, multiwalled carbon nanotubes and graphene oxide. <b>2021</b> , 205, 106041	38
623	Magnetic-Field-Driven Electron Dynamics in Graphene. <b>2021</b> , 12, 4749-4754	Ο
622	New perspectives on Graphene/Graphene oxide based polymer nanocomposites for corrosion applications: The relevance of the Graphene/Polymer barrier coatings. <b>2021</b> , 154, 106215	14
621	Quantum mechanical studies of the adsorption of Remdesivir, as an effective drug for treatment of COVID-19, on the surface of pristine, COOH-functionalized and S-, Si- and Al- doped carbon nanotubes. <b>2021</b> , 129, 114668	5
620	Graphene oxide crosslinker for the enhancement of mechanical properties of polylactic acid. <b>2021</b> , 59, 1043-1054	6
619	Probing the prediction of effective properties for composite materials. <b>2021</b> , 87, 104228	6
618	Efficient electrocatalytic oxidation of NADH by highly dispersible in situ N-doped ionic liquid-functionalized graphene nanosheets. e2100050	
617	Redox Mediation in Ionic Liquid-Functionalized Graphene for Facilitation of ENicotinamide Adenine Dinucleotide Electrooxidation. <b>2021</b> , 60, 8035-8042	
616	Platinum Group Metal-based Nanosheets: Synthesis and Application towards Electrochemical Energy Storage and Conversion. <b>2021</b> , 50, 1304-1312	2
615	Molding fabrication of copper azide/porous graphene with high electrostatic safety by self-assembly of graphene oxide. <b>2021</b> , 32,	O

614	Multistep Fractionation of Coal and Application for Graphene Synthesis. <b>2021</b> , 6, 16573-16583	1
613	New Insights into the Microstructural Analysis of Graphene Oxide. 2021, 18, 388-398	1
612	Fabrication of Reduced Graphene Oxide-Silver/Polyvinyl Alcohol Nanocomposite Film for Reduction of 4-Nitrophenol and Methyl Orange Dye. <b>2021</b> , 6, 6071-6076	1
611	A review on carbon nanotube: An overview of synthesis, properties, functionalization, characterization, and the application. <b>2021</b> , 268, 115095	64
610	Graphene preparation and graphite exfoliation. <b>2021</b> , 45, 493-519	3
609	Scalable activated carbon/graphene based supercapacitors with improved capacitance retention at high current densities. <b>2021</b> , 45, 927-941	2
608	Optimization of Substrate Temperature for Uniform Graphene Synthesis by Numerical Simulation and Machine Learning. <b>2021</b> , 56, 2100006	O
607	Effect of counter ion valence and pH on the aggregation and charging of oxidized carbon nanohorn (CNHox) in aqueous solution. <b>2021</b> , 619, 126552	2
606	Change in the Electrical Conductivity of Graphene Oxide Film after Treatment with Supercritical Fluids (iso-日本 2021, 66, 950-955	1
605	Selective localization of rice husk derived graphene in reactive compatibilized PP/PA6 blends: Influence on morphology, interface and mechanical properties. 1-16	1
604	Functionalized Nanomaterials for Catalytic Application: Trends and Developments. 2021, 355-415	О
603	Synthesis and Toxicity of Graphene Oxide Nanoparticles: A Literature Review of and Studies. <b>2021</b> , 2021, 5518999	24
602	On the incorporation of the various reduced graphene oxide into poly(vinyl alcohol) nano-compositions: comparative study of the optical, structural properties and magnetodielectric effect. <b>2021</b> , 32, 19157-19178	2
601	Scalable One-Step Electrochemical Synthesis of a Graphene-Based Material with Controlled Morphology. <b>2021</b> , 498, 61-66	3
600	A review on synthesis, functionalization, processing and applications of graphene based high performance polymer nanocomposites. <b>2021</b> , 17,	1
599	Nanocomposites based on biocompatible polymers and graphene oxide for antibacterial coatings. 096739112	110206
598	Graphene nanocomposites: A review on processes, properties, and applications. 152808372110242	5
597	Electrically Controlled Thermal Radiation from Reduced Graphene Oxide Membranes. <b>2021</b> , 13, 27278-27283	4

596	Comparison of the chronic toxicities of graphene and graphene oxide toward adult zebrafish by using biochemical and phenomic approaches. <b>2021</b> , 278, 116907	8
595	Lateral dimension and amino-functionalization on the balance to assess the single-cell toxicity of graphene on fifteen immune cell types <b>2021</b> , 23, 100330	1
594	Energy Harvesting Techniques for Self-sustainable Energy Systems. <b>2022</b> , 609-620	
593	Effects of interactions with metal ions on the thermal reduction of graphene oxide. <b>2021</b> , 154, 110090	1
592	Performance evaluation of graphene oxideMnO2 nanocomposite for alkaline membrane fuel cell. e2100085	
591	Noble-Metal-Free Multicomponent Nanointegration for Sustainable Energy Conversion. <b>2021</b> , 121, 10271-103	36 <u>6</u> 1
590	Graphene oxide based semiconductor photocatalysts for degradation of organic dye in waste water: A review on fabrication, performance enhancement and challenges. <b>2021</b> , 129, 108630	22
589	Highly Conductive Carbon-Based Thin Films Produced by Low-Energy Electron Irradiation. <b>2021</b> , 50, 5529-554	11
588	Graphene-Based Heterostructure Composite Sensing Materials for Detection of Nitrogen-Containing Harmful Gases. <b>2021</b> , 31, 2104058	16
587	Graphene-based nanomaterials for breast cancer treatment: promising therapeutic strategies. <b>2021</b> , 19, 211	6
586	Electrochemically Exfoliated Graphite Nanosheet Films for Electromagnetic Interference Shields. <b>2021</b> , 4, 7221-7233	3
585	Molding preparation and research on performance of low-electrostatic-sensitivity, high-output carbon-based copper azide based on metal@rganic framework/graphene oxide. 2021, 56, 15268-15277	3
584	Modeling of Laser Assisted Thermal Reduction of Graphene Oxide. 2021,	
583	Interactions between Reduced Graphene Oxide with Monomers of (Calcium) Silicate Hydrates: A First-Principles Study. <b>2021</b> , 11,	6
582	Polypyrrole-based emerging and futuristic hybrid nanocomposites. 1	1
581	Metal Cation-Modified Graphene Oxide as Precursor for Advanced Materials: Thin Films of Graphene/Prussian Blue Analogues. <b>2021</b> , 2021, 3373-3384	1
580	Synthesis, characterisation and thermo-physical properties of highly stable graphene oxide-based aqueous nanofluids for potential low-temperature direct absorption solar applications. <b>2021</b> , 11, 16549	3
579	High-concentration graphene dispersions prepared via exfoliation of graphite in PVA/H2O green solvent system using high-shear forces. <b>2021</b> , 23, 1	2

578	Colloidal chemistry as a guide to design intended dispersions of carbon nanomaterials. <b>2021</b> , 21, 100526	1
577	Multifunctional oil-produced reduced graphene oxide - Silver oxide composites with photocatalytic, antioxidant, and antibacterial activities. <b>2022</b> , 608, 294-305	6
576	Chemical Functionalization of Graphene Nanoplatelets with Hydroxyl, Amino, and Carboxylic Terminal Groups. <b>2021</b> , 3, 873-888	5
575	Micromechanical analysis of effective mechanical properties of graphene/ZrO2-hybrid poly (methyl methacrylate) nanocomposites. 251659842110388	O
574	Cu2O/rGO as an efficient photocatalyst for transferring of nitro group to amine group under visible light irradiation. <b>2021</b> , 130, 105838	5
573	Green Synthesis of Cu Nanoparticles in Modulating the Reactivity of Amine-Functionalized Composite Materials towards Cross-Coupling Reactions. <b>2021</b> , 11,	O
572	Monolayered graphene oxide as a protective barrier on polycrystalline copper substrate against thermal oxidation for a long duration. <b>2021</b> , 895, 115526	2
571	Synthesis of nickel cobalt manganese metal organic framework@high quality graphene composites as novel electrode materials for high performance supercapacitors. <b>2021</b> , 895, 115452	1
570	Synthesis and characterization of 2D structure of graphene oxide by using Phyllanthus Emblica: its photocatalytic activity on cationic dyes. 1-10	
569	Reduced Graphene Oxide Supported Cobalt-Calcium Phosphate Composite for Electrochemical Water Oxidation. <b>2021</b> , 11, 960	O
568	Graphene saturable absorbers applications in fiber lasers. <b>2021</b> , 17,	9
567	Application of Monolayer Graphene and Its Derivative in Cryo-EM Sample Preparation. <b>2021</b> , 22,	1
566	Mechanistic insights of the adsorption of Eriochrome Black T by the formulated MgAl LDH-graphene oxide composite. 1	1
565	A comprehensive review of anticorrosive graphene-composite coatings. <b>2021</b> , 157, 106321	3
564	Graphene oxide-MnO2-goethite microsphere impregnated alginate: A novel hybrid nanosorbent for As (III) and As (V) removal from groundwater. <b>2021</b> , 42, 102129	11
563	Controllable synthesis of Sb/reduced graphene oxide nanocomposite by oxygen-containing groups for ultra-stable lithium/sodium storage. <b>2021</b> , 270, 124873	1
562	In situ-Electrochemically reduced graphene oxide integrated with cross-linked supramolecular polymeric network for electrocatalytic hydrogen evaluation reaction. <b>2021</b> , 231, 124140	О
561	Biomass- or Biowaste-Derived Carbon Nanoparticles as Promising Materials for Electrochemical Sensing Applications. <b>2021</b> , 53-86	O

560	Nanocellulose-Graphene Derivative Hybrids: Advanced Structure-Based Functionality from Top-down Synthesis to Bottom-up Assembly <b>2021</b> , 4, 7366-7401	2
559	Modulation of Conductivity of Alginate Hydrogels Containing Reduced Graphene Oxide through the Addition of Proteins. <b>2021</b> , 13,	1
558	Dependence of Graphene Oxide (GO) Toxicity on Oxidation Level, Elemental Composition, and Size. <b>2021</b> , 22,	1
557	Preparation and performance characteristics of reduced graphene oxide modified asphalt. <b>2021</b> , 11, 1579-1586	
556	The role of oxygenated species in the growth of graphene, fullerenes and carbonaceous particles. <b>2021</b> , 182, 203-213	7
555	Geometric model of 3D curved graphene with chemical dopants. <b>2021</b> , 182, 223-232	3
554	Bifunctional RAFT Agent Directed Preparation of Polymer/Graphene Oxide Composites. <b>2021</b> , 42, e2100460	О
553	A review on 3D graphenelarbon nanotube hybrid polymer nanocomposites. <b>2021</b> , 56, 17411-17456	3
552	Graphene-Based Nanocomposites for Photocatalytic Applications: Emphasis on Environmental Remediation. <b>2022</b> , 77-110	
551	Fabrication of High Yield Photoluminescent Quantized Graphene Nanodiscs for Supercapacitor Devices. <b>2021</b> , 6, 23090-23099	6
550	Interfacial heat transfer behavior of graphene-based filler and calcium-silicate-hydrate in cement composites. <b>2021</b> , 176, 121165	3
549	A review of gas sensors based on carbon nanomaterial. 1	9
548	Role of graphene-based materials (GO) in improving physicochemical properties of cementitious nano-composites: a review. <b>2021</b> , 56, 19329	2
547	Wastewater treatment nexus: Carbon nanomaterials towards potential aquatic ecotoxicity. <b>2021</b> , 417, 125959	9
546	Simple and green route for fabrication of a nanostructured of the graphene-Fe3O4@PANI for the photovoltaic activity. <b>2021</b> , 139327	1
545	Loading dependency of 2D MoS2 nanosheets in the capacitance of 3D hybrid microfibre-based energy storage devices. <b>2021</b> , 5, 100097	3
544	Selective liquid chemicals on CO2 reduction by energy level tuned rGO/TiO2 dark cathode with BiVO4 photoanode. <b>2021</b> , 295, 120267	4
543	Bond behavior between graphene modified epoxy coated steel bars and concrete. <b>2021</b> , 42, 102481	3

542	Theoretical insights into origin of graphene oxide acidity and relating behavior of oxygen-containing groups in water. <b>2021</b> , 183, 355-361	7
541	Mechanistic actions and contributing factors affecting the antibacterial property and cytotoxicity of graphene oxide. <b>2021</b> , 281, 130739	12
540	Synthesis and fluorescence quenching mechanism of novel naphthalimide derivative by nanographene oxide. <b>2021</b> , 780, 138895	1
539	Study on the structure of reduced graphene oxide prepared by different reduction methods. 1	О
538	3D Graphene Oxide Hydrogel Derived from Waste Toner as Adsorbent. <b>2021</b> , 21, 5275-5281	3
537	Advancing the boundaries of the covalent functionalization of graphene oxide. <b>2021</b> , 26, 101320	3
536	New perspectives 2Ds to 3Ds MXenes and graphene functionalized systems as high performance energy storage materials. <b>2021</b> , 42, 102993	3
535	Facile and scalable synthesis of high-quality few-layer graphene from biomass by a universal solvent-free approach. <b>2021</b> , 562, 150203	4
534	The role of graphene and its derivatives in modifying different phases of geopolymer composites: A review. <b>2021</b> , 306, 124774	6
533	Enhanced adsorption efficiency of graphene oxide by electrostatic field for Hg(II) removal from water. <b>2021</b> , 341, 117410	1
532	Theoretical investigation on the adsorption orientation of DNA on two-dimensional MoSe2. <b>2021</b> , 551, 111329	1
531	Semi-transparent reduced graphene oxide temperature sensor on organic light-emitting diodes for fingerprint liveness detection of smartphone authentication. <b>2021</b> , 331, 112876	2
530	Reduced graphene oxide (rGO) decorated ZnO-SnO2: A ternary nanocomposite towards improved low concentration VOC sensing performance. <b>2021</b> , 881, 160406	8
529	Reduced graphene oxide impregnated in TiO2 for photodegradation of dyes monitored in UV-LED mini-reactor. <b>2021</b> , 272, 125020	2
528	Environment friendly dual-frequency ultrasonic exfoliation of few-layer graphene. <b>2021</b> , 185, 536-545	2
527	Enhanced heat transfer characteristics of water based hybrid nanofluids with graphene nanoplatelets and multi walled carbon nanotubes. <b>2021</b> , 394, 1141-1157	9
526	Advanced opportunities and insights on the influence of nitrogen incorporation on the physico-/electro-chemical properties of robust electrocatalysts for electrocatalytic energy conversion. <b>2021</b> , 449, 214209	7
525	Electrochemical manufacture of graphene oxide/polyaniline conductive membrane for antibacterial application and electrically enhanced water permeability. <b>2021</b> , 640, 119844	1

524	Graphene oxide-reinforced poly (ether-ether-ketone)/silica composites with improved mechanical performance and surface bioactivity. <b>2021</b> , 124, 104811	3
523	Polymer-graphene composite in aerospace engineering. <b>2022</b> , 683-711	
522	Green synthesis approaches for metallic and carbon nanostructures. <b>2022</b> , 83-127	
521	Electrical and electronic applications of polymer-graphene composites. <b>2022</b> , 343-377	O
520	Oxidation of phthalate acid esters using hydrogen peroxide and polyoxometalate/graphene hybrids. <b>2022</b> , 422, 126867	2
519	Plasma-assisted in-situ preparation of graphene-Ag nanofiltration membranes for efficient removal of heavy metal ions. <b>2022</b> , 423, 127012	4
518	Conductometric Gas Sensors. 2021,	1
517	Chapter 4:Graphite Nanoplatelet©arbon Nanotube Hybrids for Electrical Conducting Polymer Composites. <b>2021</b> , 129-203	
516	Removal of Methylene Blue from Water by Peach Gum Based Composite Aerogels. <b>2021</b> , 29, 1752-1762	2
515	Applications of porous frameworks in solid-phase microextraction. <b>2021</b> , 44, 1231-1263	4
514	Applications of Graphene-Based Nanomaterials. <b>2021</b> , 1069-1093	
513	A novel graphene-based Fe3O4 nanocomposite for magnetic particle inspection. <b>2021</b> , 63, 92-96	1
512	Molecular mechanism of direct electron transfer in the robust cytochrome-functionalised graphene nanosystem <b>2021</b> , 11, 18860-18869	1
511	Nanostructures: categories, formation procedures, and synthesis. <b>2021</b> , 105-145	
510	The role of graphene/graphene oxide in cement hydration. <b>2021</b> , 10, 768-778	2
509	Functionalized graphene-based nanocomposites for smart optoelectronic applications. <b>2021</b> , 10, 605-635	7
508	Carbon-Based Nanomaterial for Emerging Desalination Technologies: Electrodialysis and Capacitive Deionization. <b>2021</b> , 411-411	О
507	Transmission electron microscopy characterization of graphene. <b>2021</b> , 317-343	

506	Alkyl Titanate-Modified Graphene Oxide as Friction and Wear Reduction Additives in PAO Oil. <b>2021</b> , 6, 3840-3846	4
505	Nontraditional Luminescent and Quenching Materials for Nucleic Acid-Based Molecular Photonic Logic. <b>2021</b> , 155-183	
504	Efficient Synthesis of Multiply Substituted Triazines Using GO@N-Ligand-Cu Nano-Composite as a Novel Catalyst. <b>2021</b> , 31, 1801-1810	
503	Flexible pressure sensors with high pressure sensitivity and low detection limit using a unique honeycomb-designed polyimide/reduced graphene oxide composite aerogel <b>2021</b> , 11, 11760-11770	7
502	Production of C, N Alternating 2D Materials Using Covalent Modification and Their Electroluminescence Performance. <b>2021</b> , 1, 2000042	4
501	Graphene: The magic material. <b>2021</b> , 517-549	1
500	Flexible Nano Smart sensors. <b>2021</b> , 199-230	0
499	Graphene and its derivatives for environmental applications. <b>2021</b> , 219-259	
498	Facile hydrothermal synthesis and enhanced electrochemical properties of a layered NiSiO/RGO nanocomposite with an interesting dandelion-like structure. <b>2021</b> , 50, 13756-13767	1
497	Emerging investigator series: 3D printed graphene-biopolymer aerogels for water contaminant removal: a proof of concept. <b>2021</b> , 8, 399-414	5
496	Large-Area Graphene and Carbon Nanosheets for Organic Electronics: Synthesis and Growth Mechanism. 81-120	3
495	Synthesis and Characterization of Graphene. 85-131	9
494	Graphene for Energy Solutions and its Printable Applications. 191-236	1
493	Graphene: Synthesis, Properties and Application. 139-193	1
492	Droplet-based Continuous Flow Synthesis of Palladium Supported on Reduced Graphene Oxide. <b>2020</b> , 41, 374-377	3
491	Fabrication of Non-enzymatic Electrochemical Glucose Sensor Based on PdMn Alloy Nanoparticles Supported on Reduced Graphene Oxide. <b>2020</b> , 32, 1226-1236	12
490	3D Vertically Aligned CNT/Graphene Hybrids from Layer-by-Layer Transfer for Supercapacitors. <b>2017</b> , 34, 1700131	10
489	Chloride Corrosion Resistant Nitrogen doped Reduced Graphene Oxide/Platinum Electrocatalyst for Hydrogen Evolution Reaction in an Acidic Medium. <b>2020</b> , 5, 1739-1750	2

488	Graphene and Its Modifications for Supercapacitor Applications. <b>2019</b> , 113-138	4
487	Characteristics of Graphene/Reduced Graphene Oxide. <b>2020</b> , 155-177	24
486	Graphene/Reduced Graphene Oxide as Electrode Materials for Supercapacitors. <b>2020</b> , 271-296	13
485	Transition Metal Oxide/Graphene/Reduced Graphene Oxide Composites as Electrode Materials for Supercapacitors. <b>2020</b> , 297-331	14
484	Thick Film Polymer Composites with Graphene Nanoplatelets for Use in Printed Electronics. <b>2014</b> , 73-78	5
483	Optimization of Graphene Oxide Synthesis and Its Reduction. <b>2015</b> , 467-484	3
482	Halophiles in Nanotechnology. <b>2016</b> , 53-88	7
481	New Carbon Nanomaterials for Water Purification from Heavy Metals. <b>2019</b> , 393-412	1
480	Carbon in Polymer. <b>2013</b> , 695-728	1
479	Transmission Electron Microscopy Study of Graphene Solutions. <b>2012</b> , 157-163	2
478	Mechanical Characterization of Graphene. <b>2014</b> , 121-135	4
477	DNA-Directed Assembly of Nanophase Materials: An Updated Review. <b>2013</b> , 157-183	1
476	Electrically Conducting Fiber. <b>2015</b> , 7-38	1
475	Understanding the Energy Storage Principles of Nanomaterials in Lithium-Ion Battery. <b>2019</b> , 61-104	2
474	Noble Metal Nanoparticles. <b>2017</b> , 125-210	5
473	Graphene: 2D-Building Block for Functional Nanocomposites. <b>2011</b> , 143-148	2
472	Encyclopedia of Nanotechnology. <b>2015</b> , 1-11	1
471	Electrochemical Exfoliation Synthesis of Graphene. <b>2017</b> , 39-50	6

470	Graphene Oxide: Synthesis and Characterization. <b>2017</b> , 1-28	2
469	Graphene Oxide <b>B</b> olymer Gels. <b>2018</b> , 377-412	1
468	Graphene Oxide (GO) Nanocomposite Based Room Temperature Gas Sensor. <b>2020</b> , 303-328	0
467	Graphene Functionalization and Nanopolymers. <b>2019</b> , 157-178	3
466	Preparation of polymer brushes grafted graphene oxide by atom transfer radical polymerization as a new support for trypsin immobilization and efficient proteome digestion. <b>2017</b> , 409, 4741-4749	5
465	Stabilising Cobalt Sulphide Nanocapsules with Nitrogen-Doped Carbon for High-Performance Sodium-Ion Storage. <b>2020</b> , 12, 48	13
464	Functionalized nanographene for catalysis. <b>2020</b> , 111-129	5
463	Biosensor platforms for rapid HIV detection. <b>2020</b> , 98, 1-34	8
462	Future of analytical chemistry with graphene. 2020, 91, 355-389	2
461	High-quality graphene films and nitrogen-doped organogels prepared from the organic dispersions of graphene oxide. <b>2018</b> , 129, 15-20	11
460	The good, the bad and the porous: A review of carbonaceous materials for flexible supercapacitor applications. <b>2020</b> , 6, 148-156	35
459	Facile green reduction of graphene oxide using Ocimum sanctum hydroalcoholic extract and evaluation of its cellular toxicity. <b>2017</b> , 198, 66-72	16
458	A novel electrochemical sensing platform based on mono-dispersed gold nanorods modified graphene for the sensitive determination of topotecan. <b>2020</b> , 320, 128320	8
457	CHAPTER 1:Fabrication Techniques of Graphene Nanostructures. <b>2014</b> , 1-30	7
456	CHAPTER 14:Graphene-Based Biosensors for Food Analysis. <b>2016</b> , 327-353	1
455	Chapter 1:Carbon-based Nanomaterials in Analytical Chemistry. <b>2018</b> , 1-36	5
454	Synthesis and application of magnetic reduced graphene oxide composites for the removal of bisphenol A in aqueous solution mechanistic study. <b>2016</b> , 6, 102348-102358	19
453	A chemically bonded NaTi2(PO4)3/rGO microsphere composite as a high-rate insertion anode for sodium-ion capacitors. <b>2017</b> , 5, 17506-17516	64

452	3D structured polypyrrole/reduced graphene oxide (PPy/rGO)-based electrode ionic soft actuators with improved actuation performance. <b>2018</b> , 42, 12104-12118	19
451	Synthesis and characterization of N-[4-(chlorocarbonyl)phenyl]maleimide functionalized graphene oxide and reduced graphene oxide. <b>2017</b> , 25, 442-448	3
450	Recent progress in graphene based polymer nanocomposites. <b>2020</b> , 6, 1833476	29
449	In silico design, building and gas adsorption of nano-porous graphene scaffolds. <b>2021</b> , 32, 045704	3
448	Air-stable alucone thin films deposited by molecular layer deposition using a 4-mercaptophenol organic reactant. <b>2020</b> , 38, 022411	4
447	Review <b>B</b> rogress of Research on the Preparation of Graphene Oxide via Electrochemical Approaches. <b>2020</b> , 167, 155519	16
446	Simultaneous Enhancement of Energy and Power Density of Reduced Graphene Oxide by the Effect of Dispersed Metal Oxide Nanoparticles in the Electrolyte. <b>2020</b> , 167, 140524	1
445	Research Progress in Preparation Technology of Graphene. <b>2016</b> , 06, 346-360	1
444	Structural and Electronic Properties of Functionalized Graphene. <b>2011</b> , 120, 842-844	10
443	High-efficiency tunable plasmonically induced transparency-like effect in metasurfaces composed of graphene nano-rings and ribbon arrays and its application. <b>2019</b> , 58, 3664-3670	16
442	A theoretical and experimental study of the adsorptive removal of hexavalent chromium ions using graphene oxide as an adsorbent. <b>2020</b> , 18, 936-942	11
441	Enhanced flexural properties of aramid fiber/epoxy composites by graphene oxide. <b>2019</b> , 8, 484-492	11
440	Review on the research progress of cement-based and geopolymer materials modified by graphene and graphene oxide. <b>2020</b> , 9, 155-169	116
439	Preparation and properties of composite materials containing graphene structures and their applicability in personal protective equipment: A Review. <b>2020</b> , 59, 215-242	22
438	Performance and Characterization of Two-Dimensional Material Graphene Conductivity Review. <b>2019</b> , 8, 20180144	1
437	Semiconductor Nanocrystals and Graphene Oxide as Visible-Light-Sensitive Photoinitiators of Acrylamide Polymerization in Water. <b>2015</b> , 6, 67-84	4
436	Graphene Systems: Methods of Fabrication and Treatment, Structure Formation, and Functional Properties. <b>2010</b> , 11, 95-138	11
435	A New Sensor Based on Reduced Graphene Oxide/Au Nanoparticles for Glycerol Detection. <b>2020</b> , 23,	2

434	A Review of Theranostics Applications and Toxicities of Carbon Nanomaterials. <b>2019</b> , 20, 506-532	19
433	Polymer-Graphene Nanoassemblies and their Applications in Cancer Theranostics. <b>2020</b> , 20, 1340-1351	2
432	Synthesis, Characterization and Cytotoxic Evaluation of Graphene Oxide Nanosheets: In Vitro Liver Cancer Model. <b>2017</b> , 18, 955-961	15
431	Thermo-resonance analysis of an excited graphene sheet using a new approach. <b>2018</b> , 10, 190-206	1
430	At& Însan SaBB Grafenoksit Olarak DeBrlendirilmesi ve Baz&arakteristik Zelliklerinin Încelenmesi.	О
429	Fabrication of Graphene by Chemical Methods and Its Application to Organic Semiconductor Devices. <b>2010</b> , 53, 73-79	3
428	Microwave Irradiation Synthesis and Characterization of Reduced-(Graphene Oxide-(Polystyrene-Polymethyl Methacrylate))/Silver Nanoparticle Nanocomposites and their Anti-Microbial Activity. <b>2020</b> , 12,	3
427	Progress in Preparation of Graphene. <b>2011</b> , 26, 561-570	14
426	Synthesis of Graphene with Microwave Irradiation in Liquid Phase. 2012, 27, 769-774	4
425	Thermodynamic and Kinetic Analysis of Lowtemperature Thermal Reduction of Graphene Oxide. <b>2011</b> , 3, 51	1
424	The Prospective Two-Dimensional Graphene Nanosheets: Preparation, Functionalization and Applications. <b>2012</b> , 4, 1	11
423	Recent trends in the graphene-based sensors for the detection of hydrogen peroxide. <b>2018</b> , 5, 422-466	11
422	Carbon-Based Nanomaterials for Desulfurization. <b>2016</b> , 154-179	3
421	An Overview of Nanomaterials for Water Technology. 1-12	3
420	Direct Growth of Graphene at Low Temperature for Future Device Applications. 2018, 55, 203-223	6
419	Free-Green Synthesis and Dynamics of Reduced Graphene Sheets via Sun Light Irradiation. <b>2015</b> , 04, 54-61	23
418	Development of Cu-Exfoliated Graphite Nanoplatelets (xGnP) Metal Matrix Composite by Powder Metallurgy Route. <b>2015</b> , 04, 91-111	8
417	Graphene Oxide (GO) Supported Palladium (Pd) Nanocomposites for Enhanced Hydrogenation. <b>2019</b> , 08, 33-51	7

416	A Review Paper on Graphene Coated Fibres. <b>2019</b> , 08, 53-74	3
415	Performance Comparison of CVD Grown Carbon Nanofiber Based on Single- and Multi-Layer Graphene Oxides in Melt-Compounded PA6.6 Nanocomposites. <b>2019</b> , 09, 99-123	2
414	Synthesis and Fabrication of Graphene and Graphene Oxide: A Review. <b>2019</b> , 09, 207-229	34
413	Continuous Reduced Graphene Oxide Film Prepared by Stitching of Nanosheets at the Interface of Two Immiscible Solutions. <b>2011</b> , 32, 713-715	2
412	Click chemistry approach to functionalize two-dimensional macromolecules of graphene oxide nanosheets. <b>2010</b> , 2, 177	3
411	Carbon nanomaterials in organic photovoltaic cells. <b>2011</b> , 12, 194-206	6
410	Synthesis and applications of graphene electrodes. <b>2012</b> , 13, 1-16	32
409	Facile mass production of thermally reduced graphene oxide. <b>2012</b> , 13, 48-50	11
408	Synthesis and Properties of Polyimide Composites Containing Graphene Oxide Via In-Situ Polymerization. <b>2012</b> , 13, 230-235	20
407	Size sorting of chemically modified graphene nanoplatelets. <b>2013</b> , 14, 89-93	6
406	Electrochemical synthesis of nanosized hydroxyapatite/graphene composite powder. 2015, 16, 233-240	10
405	Comparative study on various sponges as substrates for reduced graphene oxide-based supercapacitor. <b>2016</b> , 18, 71-75	6
404	Folic Acid-conjugated Graphene Oxide loaded with Photosensitizers for Targeting Photodynamic Therapy. <b>2011</b> , 1, 240-50	438
403	Fabrication of Hybrid Nanocomposites of PAA-grafted Graphene and Pd Nanoparticles having POSS (Pd-POSS). <b>2012</b> , 36, 656-661	3
402	Physical Properties of Functionalized Graphene Sheet/Poly(ethylene-co-vinyl acetate) Composites. <b>2014</b> , 38, 307-313	1
401	Structural Analysis and Direct Imaging of Rotational Stacking Faults in Few-Layer Graphene Synthesized from Solid Botanical Precursor. <b>2011</b> , 50, 070106	1
400	Configuration Dependency of Attached Epoxy Groups on Graphene Oxide Reduction: A Molecular Dynamics Simulation. <b>2012</b> , 51, 06FD14	1
399	Atomic Resolution Imaging of Rotated Bilayer Graphene Sheets Using a Low kV Aberration-corrected Transmission Electron Microscope. <b>2012</b> , 42, 218-222	6

398	Reduced graphene oxide for the development of wearable mechanical energy-harvesters: A review. <b>2021</b> , 1-1	3
397	Biocomposites from Food Waste. <b>2021</b> , 287-310	
396	Study of structural, optical and electrochemical properties of GO/TiO2 nanostructures prepared by microwave-assisted technique for its application as a glucose sensor. <b>2021</b> , 12, 035015	
395	Construction of biocomputing systems based on switchable bioelectrocatalysis and stimulus-responsive film electrodes. <b>2021</b> , 3, 100054	2
394	New cobalt phthalocyanine graphene oxide hybrid nanomaterial prepared by strong $\ensuremath{\mathbb{I}}$ interactions. 1	1
393	Organic Bioelectronic Devices for Metabolite Sensing. 2021,	9
392	Structural, dielectric, and magnetic properties of reduced graphene oxide-wrapped MnFe2O4 composites synthesized by in-situ sol-gel autocombustion method. <b>2021</b> ,	О
391	Electrical, thermal and electrochemical properties of Fray-reduced graphene oxide. 2021, 28, 1726-1734	4
390	Elevating kinetics of passivated Fe anodes with NH4Cl regulator: Toward low-cost, long-cyclic and green cathode-free Fe-ion aqueous batteries. 1	1
389	Bending Properties of the Flexible BMNO (Bi2Mg2/3Nb4/3O7) Capacitor Using Graphene Electrode. <b>2012</b> , 25, 387-391	
388	High-k gate oxides integration of graphene based infrared detector. <b>2012</b> , 31, 118-121	0
387	Process in preparation of metal-catalyzed graphene. <b>2013</b> , 62, 028201	5
386	Structural Defects on the Electronic Transport Properties of Carbon-Based Nanostructures. <b>2013</b> , 77-103	
385	Carbon-Based Nanostructures. <b>2014</b> , 3-31	
384	Graphene. <b>2013</b> , 1-30	
383	Effect of Drying Methods on the Production of Graphenes Oxide Powder Prepared by Chemical Exfoliation. <b>2013</b> , 23, 592-598	
382	How to Achieve High Quality Large Area Monolayer Graphene with Field Effect Mobility of 20,000 cm2/Vs. <b>2014</b> , 523-526	
381	MWI Synthesis and Characterization of RGO-AgNPs/Polymethyl Methacrylate Nanocomposites. <b>2014</b> , 11-17	

380	Epitaxial growth of graphene on silicon carbide (SiC). <b>2014</b> , 177-198	2
379	The Effect of Mechanically Exfoliated Graphene Dispersion on the Mechanical Properties of Aluminum/Graphene Composites. <b>2014</b> , 1441-1442	
378	Encyclopedia of Applied Electrochemistry. <b>2014</b> , 954-963	
377	Electronic Structure of Graphene and Related Materials Studied by ARPES. <b>2014</b> , 57, 416-422	О
376	CHAPTER 9:Hierarchical Nanostructures: Application to Supercapacitors. <b>2014</b> , 204-229	
375	Process parameters of large single crystal graphene prepared by chemical vapor deposition. <b>2014</b> , 63, 248103	1
374	Carrier Type Reversal of Graphene Multilayered Thin Films. <b>2014</b> , 59, 426-432	
373	The Versatile Roles of Graphene in Organic Photovoltaic Device Technology. <b>2015</b> , 223-251	1
372	Functionalized Graphenes. 36-68	
371	Fabrication and Mechanical Properties of Graphene/PVA Nano-Composites. <b>2015</b> , 05, 103-110	
370	Fabrication of Organic/inorganic Hybrid CMOS Devices using Solution-processed Graphene Electrodes. <b>2015</b> , 135, 156-159	
369	Synthesis, Modification and Characterization of Nanocarbon Electrodes for Determination of Nucleic Acids. <b>2015</b> , 1-35	
368	Architecture and Applications of Functional Three-Dimensional Graphene Networks. 67-99	О
367	The Functionalization of Graphene and Its Assembled Macrostructures. 19-44	
366	References. 257-276	
365	Thermally Adjusted Graphene Oxide as the Hole Transport Layer for Organic Light-Emitting Diodes. <b>2015</b> , 24, 363-367	
364	Synthesis, Modification, and Characterization of Nanocarbon Electrodes for Determination of Nucleic Acids. <b>2016</b> , 241-281	
363	Encyclopedia of Nanotechnology. <b>2016</b> , 4027-4037	1

362	Graphene: Polymer-Assisted Water Soluble. 3665-3671	
361	Otrzymywanie grafenu <b>2016</b> ,	
360	Nanolif Yap⊞oli (Akrilonitril-Vinil Asetat)/ Grafen Oksit Yap⊞r⊞ Karakterizasyonu. <b>2016</b> , 23, 89-92	
359	Biosynthesis of Metal Nanoparticles and Graphene. 241-295	
358	Poly(arylene ether ketone) block copolymer prepared through sulfonation process for polymer electrolyte membrane fuel cell. <b>2016</b> , 25, 66-72	
357	Nanotechnology Applications. <b>2016</b> , 105-143	
356	Synthesis of Graphene-Metal Nanocomposite Anode Materials for Lithium Ion Batteries. <b>2016</b> , 1,	
355	Development and Modification of Natural Rubber for Advanced Application. <b>2017</b> , 44-76	1
354	The effect of graphene on the intermetallic and joint strength of Sn-3.5Ag lead-free solder. <b>2017</b> ,	1
353	Facile Synthesis of Large Surface Area Graphene and Its Applications. <b>2017</b> , 159-175	
352	Challenge - Nanotechnology in Engineering. <b>2017</b> , 2,	
351	Silicon nanowires for Li-based battery anode applications. <b>2017</b> , 455-474	
350	Two-dimensional graphene electronics: current status and prospects. <b>2018</b> , 188, 1249-1287	1
349	New Carbon Nanomaterials for Water Purification from Heavy Metals. <b>2018</b> , 1-20	1
348	Coverage measurement of graphene film on metallic substrate using scanning electron microscopy. <b>2018</b> , 67, 076802	
347	ZnO-Grafen Nanokompozitinin Sol-Jel Yfitemiyle fetimi ve Fotokatalizfi Olarak Kullanfmasfi <b>2018</b> , 33, 1-216	
346	Pell-Shear-Exfoliation of few-layer graphene nanoflakes as an electrode in supercapacitors. <b>2018</b> , 6, 1-10	
345	Functionalized Graphene/Polymer Nanofiber Composites and Their Functional Applications. <b>2019</b> , 127-156	O

344	Molecular Basis for Reduced Lifespan Induced by Environmental Toxicants or Stresses. <b>2019</b> , 31-58	
343	Nanotechnology-Based Stem Cell Tissue Engineering with a Focus on Regeneration of Cardiovascular Systems. <b>2019</b> , 1-67	O
342	Carbon-Based Materials for Advanced Potassium-Ion Batteries Anode. 2019, 347-368	
341	Influence of graphene oxide on <b>I</b> h situlpreparation of nanocomposites with polyvinyl butyral. <b>2019</b> , 24,	
340	Graphene and Its Derivatives for Secondary Battery Application. 2019, 53-80	2
339	Adsorption of NO2 by hydrazine hydrate-reduced graphene oxide. <b>2019</b> , 68, 118102	1
338	Graphene Functionalizations on Copper by Spectroscopic Techniques. <b>2019</b> , 313-333	
337	Investigation of Electrochemical Behavior of Amide Substituted Thienyl Pyrrole Carbon Nanomaterial Composite Structure. 177-186	
336	Titania-Based Heterojunctions for Hydrogen Generation by Water Photolysis. 2020, 57-86	
335	Novel Graphene-Based Polymer Nanocomposites. <b>2020</b> , 1-21	
335	Novel Graphene-Based Polymer Nanocomposites. 2020, 1-21  Graphene and Its Derivatives for Supercapacitor Application. 2020,	O
		0
334	Graphene and Its Derivatives for Supercapacitor Application. 2020,  Computational methods towards increased efficiency design of graphene membranes for gas	0
334	Graphene and Its Derivatives for Supercapacitor Application. 2020,  Computational methods towards increased efficiency design of graphene membranes for gas separation and water desalination. 2019,	0
334 333 332	Graphene and Its Derivatives for Supercapacitor Application. 2020,  Computational methods towards increased efficiency design of graphene membranes for gas separation and water desalination. 2019,  Nanocomposite Polymer Adhesives. 2020, 93-167  Photo-induced synthesis of ternary Pt/rGO/COF photocatalyst with Pt nanoparticles precisely	
334 333 332 331	Graphene and Its Derivatives for Supercapacitor Application. 2020,  Computational methods towards increased efficiency design of graphene membranes for gas separation and water desalination. 2019,  Nanocomposite Polymer Adhesives. 2020, 93-167  Photo-induced synthesis of ternary Pt/rGO/COF photocatalyst with Pt nanoparticles precisely anchored on rGO for efficient visible-light-driven H evolution. 2021,  Grafen oksitin modifiye Hummers y\( \text{0}\) temi ile sentezi ve film olarak Al/GO/n-InP diyot	1
334 333 332 331 330	Graphene and Its Derivatives for Supercapacitor Application. 2020,  Computational methods towards increased efficiency design of graphene membranes for gas separation and water desalination. 2019,  Nanocomposite Polymer Adhesives. 2020, 93-167  Photo-induced synthesis of ternary Pt/rGO/COF photocatalyst with Pt nanoparticles precisely anchored on rGO for efficient visible-light-driven H evolution. 2021,  Grafen oksitin modifiye Hummers yfitemi ile sentezi ve film olarak Al/GO/n-InP diyot performansfia etkileri.  The effect of catalytic copper pretreatments on CVD graphene growth at different stages. 2021,	1

326	Evaporation of nanoscale water on solid surfaces. <b>2020</b> , 29, 126601	1
325	Synthesis of eco-friendly graphene from agricultural wastes. <b>2022</b> , 215-230	2
324	Ultrathin freestanding PDA-Doped rGO/MWCNT composite paper for electromagnetic interference shielding applications. <b>2022</b> , 430, 132808	O
323	Harmonic dual-wavelength and multi-soliton pattern fiber laser based on GO-Sb2Se3 saturable absorbers. <b>2022</b> , 146, 107590	8
322	Nanoionic Devices for Physical Property Tuning and Enhancement. 2020, 161-174	1
321	Conductive Nanostructured Scaffolds for Guiding Tissue Regeneration. <b>2020</b> , 39-90	
320	Fluorescent Inorganic Particles in Nanoscale World. <b>2020</b> , 267-306	
319	Fiber Electrodes. <b>2020</b> , 15-52	
318	Laser-Induced Synthesis and Processing of Nanoparticles in the Liquid Phase for Biosensing and Catalysis. <b>2020</b> , 133-162	
317	Preparation of Graphene Based Nanocomposite Based on TPE. <b>2020</b> , 101-126	
316	Defect free monolayer and bilayer graphene exfoliated by solvent with low dielectric constant. <b>2020</b> ,	
315	Effect of graphite particle size on oxidation of graphene oxide prepared by Modified Hummers method. <b>2020</b> ,	1
314	Advances in Carbon-Based Nanocomposites for Deep Adsorptive Desulfurization. 2020, 63-91	
313	Quasi-two-dimensional NaCl crystals encapsulated between graphene sheets and their decomposition under an electron beam. <b>2021</b> , 13, 19626-19633	1
312	Synthesis of Graphene-based Polymeric Nanocomposites using Emulsion Techniques. <b>2021</b> , 125, 101476	7
311	Recent Advances on 2D Materials towards 3D Printing. <b>2021</b> , 3, 1314-1343	3
310	Study the electron field emission properties of plasma-based reduction of graphene oxide (GO): An ex-situ plasma approach. <b>2021</b> , 5, 100127	1
309	Ab initio simulations of black and blue phosphorene functionalised with chemical groups for biomolecule anchoring. <b>2021</b> , 27, 349	

308	Integrating Photovoltaic (PV) Solar Cells and Supercapacitors for Sustainable Energy Devices: A Review. <b>2021</b> , 14, 7211	1
307	Nanotechnology for Photovoltaic Energy. 163-191	
306	Nanotechnology for Photovoltaic Energy. 319-346	
305	Investigation of Metal-Oxide/Reduced Graphene-Oxide Nanocomposites for Gas Sensor Applications. <b>2021</b> , 211-227	2
304	Fabrication of field-effect transistors with transfer-free nanostructured carbon as the semiconducting channel material. <b>2020</b> , 31, 485203	1
303	Efficient Carbon Nanocomposites as a Sustainable Adsorbents/Photocatalyst for Water Purification. <b>2021</b> , 175-202	1
302	Development of a Novel Nanocomposite Based on Reduced Graphene Oxide/Chitosan/Au/ZnO and Electrochemical Sensor for Determination of Losartan. <b>2020</b> , 16, 996-1009	0
301	Abnormal-Stoichiometric K xCl Crystal Decoration : A New Strategy to Improve K-Ion Storage Performance of Graphene Paper.	
300	Cutting-edge polymer/graphene nanocomposites for biomedical applications. 2022, 245-268	
299	Rapid effective reduction by microwave-irradiated thermal reaction for large-scale production of high-quality reduced graphene oxide. <b>2022</b> , 187, 330-337	О
298	Ultra-sensitive, lightweight, and flexible composite sponges for stress sensors based combining of Ehrough-hole[polyimide sponge and pleated stacked[reduced graphene oxide. <b>2022</b> , 218, 109179	2
297	High surface area micro-mesoporous graphene for electrochemical applications. <b>2021</b> , 11, 22054	5
296	Synthesis, Characterization and Photodegradation Studies of Copper Oxidell raphene Nanocomposites. <b>2021</b> , 11, 1452	0
295	INVESTIGATION OF MECHANICAL AND PHYSICAL PROPERTIES OF GRAPHENE WITH EPOXY MATRIX. <b>2021</b> , 22, 112-119	1
294	Graphene Synthesis and Its Recent Advances in Applications Review. 2021, 7, 76	2
293	Graphene oxide hybrid with amine-terminated poly(amidoamine) dendrimers encapsulating Pt nanoparticles for electrochemical oxygen reduction reaction.	O
292	Role of carbon-based nanomaterials in improving the performance of microbial fuel cells. <b>2021</b> , 240, 122478	4
291	Through-Plane and In-Plane Thermal Diffusivity Determination of Graphene Nanoplatelets by Photothermal Beam Deflection Spectrometry. <b>2021</b> , 14,	4

290	Two-dimensional quantum-sheet films with sub-1.2 nm channels for ultrahigh-rate electrochemical capacitance. <i>Nature Nanotechnology</i> , <b>2021</b> ,	6
289	Effect of synthesis conditions on the properties of graphene doped with nitrogen atoms. 1-5	
288	ReviewBensor Evaluation for Thiamethoxam Detection in Different Matrices. 2021, 168, 116508	1
287	Recent advances of the graphite exfoliation processes and structural modification of graphene: a review. <b>2021</b> , 23, 1	O
286	A comprehensive review on the recent advancements in natural rubber nanocomposites. 2021,	2
285	Green Fabrication of High-Performance, Lignosulfonate-Functionalized, and Reduced-Graphene Oxide Styrene <b>B</b> utadiene Rubber Composites.	O
284	Novel nanocarbons via facile one-pot combustion synthesis. <b>2021</b> , 108746	0
283	A photo-Fenton graphene oxide membrane with improved perm-selectivity and self-cleaning ability for efficient dye removal under visible light irradiation. <b>2021</b> , 44, 102443	2
282	Biosynthesis of Graphene and Investigation of Antibacterial Activity of Graphene-parthenium hysterophorous Nanocomposite. 64,	
281	Graphene dispersed by pyrene-terminated polyethylene glycol for reinforced epoxy composites. 52110	1
280	Preparation and electrical properties of conductive asphalt concretes containing graphene and carbon fibers. <b>2022</b> , 318, 125875	2
279	Protonation of graphene oxide electrolyte during electrophoresis and effects on deposited film properties. <b>2022</b> , 277, 125577	1
278	Development of carbon-based copper sulfide nanocomposites for high energy supercapacitor applications: A comprehensive review. <b>2022</b> , 46, 103886	3
277	Functionalisation of graphene as a tool for developing nanomaterials with predefined properties. <b>2022</b> , 348, 118368	3
276	Recent developments in natural rubber nanocomposites containing graphene derivatives and its hybrids. <b>2022</b> , 177, 114529	2
275	Graphene : An Out Standing Material. 6,	
274	Role of Functional Groups in the Monomer Molecule on the Radical Polymerization in the Presence of Graphene Oxide. Polymerization of Hydroxyethyl Acrylate under Isothermal and Non-Isothermal Conditions <b>2022</b> , 27,	О
273	Recent progress in the graphene functionalized nanomaterial-based electrochemical sensors. <b>2022</b> , 27-38	

272	Electrospun PEO/rGO Scaffolds: The Influence of the Concentration of rGO on Overall Properties and Cytotoxicity <b>2022</b> , 23,	0
271	Recent Advances in Graphene-Based Polymer Nanocomposites and Foams for Electromagnetic Interference Shielding Applications. <b>2022</b> , 61, 1545-1568	1
270	Cobalt nanocrystals doped on CeO2/RGO nanocomposite for supercapacitor applications. <b>2022</b> , 138, 109232	1
269	Revisiting the Roles of Natural Graphite in Ongoing Lithium-ion Batteries <b>2022</b> , e2106704	10
268	ZnO and reduced graphene oxide electrodes for all-in-one supercapacitor devices 2022,	6
267	Experimental determination of the compressive piezoresistive response of a free-standing film with application to reduced graphene oxide. <b>2022</b> , 131, 035105	1
266	Steady-state stability improvement of reduced graphene oxide thermo behavior via polymer film encapsulation. <b>2022</b> , 121, 108792	1
265	Applications of heteropoly acids in industry. <b>2022</b> , 305-373	
264	Effect of Grain BoundariesDoping on the Mechanical Properties of Nitrogen-Doped Bicrystalline Graphene. <b>2022</b> , 121, 108771	2
263	Non-covalent interactions of graphene surface: Mechanisms and applications. <b>2022</b> ,	1
262	Response behavior of graphene oxide and graphene oxide doped blue phase liquid crystal composites in external fields. <b>2022</b> , 124, 111977	O
261	Effects of graphene oxide nanosheets in the polychaete Hediste diversicolor: Behavioural, physiological and biochemical responses <b>2022</b> , 118869	O
260	Applications of graphene-based electrochemical and optical biosensors in early detection of cancer biomarkers <b>2022</b> , 212, 112356	3
259	Effect of carbon nanotube and graphite nanoplatelet on composition, structure, and nano-mechanical properties of C-S-H in UHPC. <b>2022</b> , 154, 106713	2
258	Highly flexible, high-performance radio-frequency antenna based on free-standing graphene/polymer nanocomposite film. <b>2022</b> , 582, 152455	2
257	Graphene-derived antibacterial nanocomposites for water disinfection: Current and future perspectives <b>2022</b> , 118836	3
256	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges <b>2022</b> ,	28
255	Regulation of Neural Differentiation of ADMSCs using Graphene-Mediated Wireless-Localized Electrical Signals Driven by Electromagnetic Induction <b>2022</b> , e2104424	4

254	The Synergistic Properties and Gas Sensing Performance of Functionalized Graphene-Based Sensors <b>2022</b> , 15,	2
253	Amino-functionalized graphene oxide supported in charcoal from the gasification of furniture scraps: from one-pot synthesis to wastewater remediation. <b>2022</b> ,	2
252	Broadband terahertz characterization of graphene oxide films fabricated on flexible substrates. <b>2022</b> , 125, 112045	О
251	Graphene-Based Nanomaterials as Drug Delivery Carriers <b>2022</b> , 1351, 109-124	1
250	Metal oxidedarbon composites for supercapacitor applications. 2022, 133-177	О
249	An overview on the reproductive toxicity of graphene derivatives: Highlighting the importance. <b>2022</b> , 11, 1076-1100	1
248	Evolution of graphene oxide (GO)-based nanohybrid materials with diverse compositions: an overview <b>2022</b> , 12, 5686-5719	1
247	Graphene and Its Nanocomposites Derivatives: Synthesis, Properties, and Their Applications in Water Treatment, Gas Sensor, and Solar Cell Fields. <b>2022</b> , 95-128	O
246	Nanomaterials for soft wearable electronics. 2022,	О
245	Surface-Confined Biomolecules for Application in Bioelectronics. <b>2022</b> , 53-70	
245 244	Surface-Confined Biomolecules for Application in Bioelectronics. 2022, 53-70  Photocatalytic Aspect of Rgo/Mnfe2o4 as an Efficient Magnetically Retrievable Catalyst for Reduction of Nitroaromatic Compounds Under Visible-Light Irradiation.	
	Photocatalytic Aspect of Rgo/Mnfe2o4 as an Efficient Magnetically Retrievable Catalyst for	1
244	Photocatalytic Aspect of Rgo/Mnfe2o4 as an Efficient Magnetically Retrievable Catalyst for Reduction of Nitroaromatic Compounds Under Visible-Light Irradiation.  Surface Modification of Sulfur-Assisted Reduced Graphene Oxide with Poly(phenylene sulfide) for	1
244	Photocatalytic Aspect of Rgo/Mnfe2o4 as an Efficient Magnetically Retrievable Catalyst for Reduction of Nitroaromatic Compounds Under Visible-Light Irradiation.  Surface Modification of Sulfur-Assisted Reduced Graphene Oxide with Poly(phenylene sulfide) for Multifunctional Nanocomposites 2022, 14,  Optoelectronic properties of Ag2S/graphene and FeS2/graphene nanostructures and interfaces: A	
244 243 242	Photocatalytic Aspect of Rgo/Mnfe2o4 as an Efficient Magnetically Retrievable Catalyst for Reduction of Nitroaromatic Compounds Under Visible-Light Irradiation.  Surface Modification of Sulfur-Assisted Reduced Graphene Oxide with Poly(phenylene sulfide) for Multifunctional Nanocomposites 2022, 14,  Optoelectronic properties of Ag2S/graphene and FeS2/graphene nanostructures and interfaces: A density functional study including dispersion forces. 2022, 37, 1047-1058  Graphene-Based Nanomaterials for Dental Applications: Principles, Current Advances, and Future	0
244 243 242 241	Photocatalytic Aspect of Rgo/Mnfe2o4 as an Efficient Magnetically Retrievable Catalyst for Reduction of Nitroaromatic Compounds Under Visible-Light Irradiation.  Surface Modification of Sulfur-Assisted Reduced Graphene Oxide with Poly(phenylene sulfide) for Multifunctional Nanocomposites 2022, 14,  Optoelectronic properties of Ag2S/graphene and FeS2/graphene nanostructures and interfaces: A density functional study including dispersion forces. 2022, 37, 1047-1058  Graphene-Based Nanomaterials for Dental Applications: Principles, Current Advances, and Future Outlook 2022, 10, 804201  Recent Trends in Graphene/Polymer Nanocomposites for Sensing Devices: Synthesis and	0
244 243 242 241 240	Photocatalytic Aspect of Rgo/Mnfe2o4 as an Efficient Magnetically Retrievable Catalyst for Reduction of Nitroaromatic Compounds Under Visible-Light Irradiation.  Surface Modification of Sulfur-Assisted Reduced Graphene Oxide with Poly(phenylene sulfide) for Multifunctional Nanocomposites 2022, 14,  Optoelectronic properties of Ag2S/graphene and FeS2/graphene nanostructures and interfaces: A density functional study including dispersion forces. 2022, 37, 1047-1058  Graphene-Based Nanomaterials for Dental Applications: Principles, Current Advances, and Future Outlook 2022, 10, 804201  Recent Trends in Graphene/Polymer Nanocomposites for Sensing Devices: Synthesis and Applications in Environmental and Human Health Monitoring 2022, 14,  Defect-Engineered Thermal Transport in Wrinkled Graphene: A Comprehensive Molecular	2

236 Synthesis and properties of polypropylene-graphene nanocomposite. 2022,

235	Synthesis of 3D graphene/MnO2 nanocomposites with hierarchically porous structure for water purification. 1	1
234	Effect of graphene quantum dot on sodium alginate with ammonium formate (NH4HCO2) biopolymer electrolytes for the application of electrochemical devices. 1	O
233	Preparation of Ti3+-TiO2 Supported Petroleum Pitch-Based Three-Dimensional Graphene Oxide Composite Photocatalysts for Photocatalysis of N2/H2O into Ammonia. <b>2022</b> , 126, 4762-4773	
232	Solvent-Free Thermomechanical Exfoliation of Graphite into Graphene Nanoplatelet Flakes: Implications for Conductive Composites.	1
231	Advances in micro-supercapacitors (MSCs) with high energy density and fast charge-discharge capabilities for flexible bioelectronic devices a review.	1
230	A Comparative Investigation of Chemically Reduced Graphene Oxide Thin Films Deposited via Spray Pyrolysis <b>2022</b> , 7, 11973-11979	O
229	Strong and conductive reduced graphene oxide-MXene porous films for efficient electromagnetic interference shielding. 1	5
228	Fabrication, characterization and properties of silane functionalized graphene oxide/silicone rubber nanocomposites. 52299	О
227	Enhanced Performance of Graphene Oxide Photodetectors by Reduction with Vitamin C. 1	
226	Graphene Oxide and Biomolecules for the Production of Functional 3D Graphene-Based Materials <b>2022</b> , 9, 774097	1
225	A Review on Printed Electronics with Digital 3D Printing: Fabrication Techniques, Materials, Challenges and Future Opportunities. 1	2
224	For the improvement of mechanical and microstructural properties of UHPC with fiber alignment using carbon nanotube and graphite nanoplatelet. <b>2022</b> , 129, 104462	O
223	Effective regeneration of mixed composition of spent lithium-ion batteries electrodes towards building supercapacitor. <b>2022</b> , 430, 128496	4
222	Unnatural Nucleotide-Based rkDNA Probe Combined with Graphene Oxide for Detection of Alkaline Phosphatase Activity <b>2022</b> , 128694	0
221	Tuned synthesis and designed characterization of graphene oxide thin film. <b>2022</b> , 139, 109356	1
220	Engineered graphene-based mixed matrix membranes to boost CO2 separation performance: Latest developments and future prospects. <b>2022</b> , 160, 112294	0
219	Abnormal-stoichiometric KxCl crystal decoration: A new strategy to improve K-lon storage performance of graphene paper. <b>2022</b> , 192, 93-100	O

218	Recent advances in carbon-based nanomaterials for combating bacterial biofilm-associated infections <b>2022</b> , 431, 128597	3
217	Styrene-based ternary composite elastomers functionalized with graphene oxide-polypyrrole under iron(III)-alkyl benzenesulfonate oxidants for supercapacitor integrated strain sensor system. <b>2022</b> , 51, 104543	O
216	Pickering nanoemulsions and their mechanisms in enhancing oil recovery: A comprehensive review. <b>2022</b> , 319, 123667	1
215	Doping level and environment dependence of structural stability and magnetic properties in Mn-doped WS2 bilayer in first principles. <b>2022</b> , 39, 1-7	
214	Suppressing water decomposition for controllable exfoliation of graphite in water-in-salt electrolyte. <b>2022</b> , 591, 153109	0
213	Mechanical Properties of Graphene Oxide Doped Woven Carbon Fibers/Epoxy Composites in Tension. <b>2021</b> , 63, 942-950	
212	Opportunities Offered by Graphene Nanoparticles for MicroRNAs Delivery for Amyotrophic Lateral Sclerosis Treatment <b>2021</b> , 15,	1
211	An overview on chemical processes for synthesis of graphene from waste carbon resources. 1	O
210	Synthesis of turbostratic nanoscale graphene via chamber detonation of oxygen/acetylene mixtures.	1
209	Short-Process Multiscale CoreBhell Structure Buffer Control of a Ni/N Codoped Si@C Composite Using Waste Silicon Powder for Lithium-Ion Batteries. <b>2022</b> , 5, 178-185	2
208	Improving TC drill bit's efficiency and resistance to wear by graphene coating. 2021,	1
207	Synthesis of Graphene Oxide Via Microwave Assisted Eco-Friendly Method Versus Modified Hummer Method. 138-143	O
206	Graphene Oxide-Based Nanocomposite and Their Biomedical Applications. <b>2022</b> , 427-456	О
205	Graphene-based biosensors for disease theranostics: Development, applications, and recent advancements. <b>2021</b> , 11, 96-116	6
204	Phase change characteristics machanism of graphene nanosheets@sodium nitrate. 2022,	
203	Fabrication and prospective applications of graphene oxide-modified nanocomposites for wastewater remediation <b>2022</b> , 12, 11750-11768	5
202	Vitamin C-Reduced Graphene Oxide Coatings Improve the Performance and Stability of Multimodal Microelectrodes for Neural Recording, Stimulation, and Dopamine Sensing.	
201	Scalable production of high-quality exfoliated graphene using mechanical milling in conjugation with supercritical CO2. <b>2022</b> , 100374	1

200	Effects of graphene nanoplatelets and montmorillonite nanoclay reinforcement on dental polymethyl methacrylate.	O
199	High-temperature pyrolysis behavior and structural evolution mechanism of graphene oxide: a ReaxFF Molecular Dynamics Simulation. <b>2022</b> , 153451	o
198	Fabrication of reduced graphene oxide with high electrical conductivity by thermal-assisted photoreduction of electrochemically-exfoliated graphene oxide.	
197	Data_Sheet_1.docx. <b>2020</b> ,	
196	Presentation_1.pdf. <b>2018</b> ,	
195	Presentation_1.pdf. <b>2019</b> ,	
194	Carbon nanomaterial-based sensors: An efficient tool in the environmental sectors. 2022, 149-165	
193	Polyacrylamide/Graphene Oxide/Clove Essential Oil Composite Synthesized Via Physical Adsorption Method for Potential Antibacterial Packaging Applications.	
192	Microwave heating followed by solvothermal method to synthesize nickel-cobalt selenide/rGO for high-performance supercapacitors.	2
191	Facile assembly of amorphous Fe2O3 nanoparticle@dry graphene oxide composites for lithium-ion storage.	
190	Recent advances in graphene-based polymer composite scaffolds for bone/cartilage tissue engineering. <b>2022</b> , 103360	1
189	A mini review on paraffin-graphene and related hybrid phase change materials for building energy applications.	
188	A Selective Electrochemical Sensor Based on Titanium Dioxide-Reduced Graphene Oxide Nanocomposite (TiO2- RGO/GCE) for the Efficient Determination of Nitrite. 1-12	
187	Tuning the Thermal Transport of Hexagonal Boron Nitride/Reduced Graphene Oxide Heterostructures <b>2022</b> ,	o
186	Revisiting Solution-Based Processing of van der Waals Layered Materials for Electronics.	0
185	Ionic liquid dispersed highly conducting polymer electrolyte for supercapacitor application: Current scenario and prospects ICSEM 2021II095400832210994	1
184	Preparation of graphene⊠nO composite with enhanced photocatalytic performance. 1	1
183	Microscopic investigation of Cu-induced crystallization of amorphous carbon at low temperatures. <b>2022</b> , 595, 153507	

182	Research Progress of Nano-combustion Catalyst Based on Graphene Loading Technology and Its Application. <b>2022</b> , 187-199	
181	Recent advances in experimental and molecular dynamics study of graphene-oxide/natural rubber composites: A review. 073168442211029	1
180	Aspect ratio dependent viscoelastic properties of graphene oxide liquid crystals. 2022, 287, 126305	
179	Fabrication of a solid-state symmetrical supercapacitor based on polyaniline grafted multiwalled carbon nanotube deposit onto Created Vertically Oriented Graphene Nanosheets on graphite sheet. <b>2022</b> , 52, 104775	1
178	Recent Trends in Synthesis and Applicability of GO-Based Nanomaterials in Environmental Remediation. <b>2022</b> , 151-170	
177	Tailored electromagnetic and microwave absorbing properties of multiscale composites by coating reduced graphene oxide over glass fiber. 1-15	2
176	Investigation of NB-based graphene quantum dot on sodium alginate with ammonium thiocyanate (NH4SCN) biopolymer electrolyte for the application of electrochemical devices.	0
175	Effective hole conductivity in nitrogen-doped CVD-graphene by singlet oxygen treatment under photoactivation conditions. <b>2022</b> , 12,	2
174	Electrochemical Synthesis of Coatings Based on Polydiphenylamine-2-carboxylic Acid on Anodized Graphite Foil Modified by Graphene Nanosheets and Manganese Oxides. <b>2022</b> , 58, 398-410	
173	Terminology for graphene to graphite and for graphene oxide to graphite oxide. <b>2022</b> , 1, 59-69	О
172	Graphene nano-platelet (GNP)doped poly (methyl methacrylate) (PMMA) spray-coated piezoresistive-based 2D strain sensor under temperature environment on aluminium alloy 2024-T351. <b>2022</b> , 24,	0
171	Tunable decorated flake interlayers of functionalized graphene oxide for energy storage devices. <b>2022</b> , 128,	
170	Environmentally friendly low-cost graphene oxide-cellulose nanocomposite filter for dye removal from water. <b>2022</b> , 34, 102122	0
169	Introduction to graphene-based materials and their composites. 2022, 1-47	
168	3D printing of graphene-based composites and their applications in medicine and health care. <b>2022</b> , 463-485	
167	Determination of the Highly Sensitive Carboxyl-Graphene Oxide-Based Planar Optical Waveguide Localized Surface Plasmon Resonance Biosensor. <b>2022</b> , 12, 2146	O
166	Redispersible Reduced Graphene Oxide Prepared in a Gradient Solvent System. <b>2022</b> , 12, 1982	
165	Nanoarchitectonics of graphene based sensors for food safety monitoring. 1-29	O

164	A review on graphene and its derivatives as the forerunner of the two-dimensional material family for the future.	1
163	Vitamin C-reduced graphene oxide improves the performance and stability of multimodal neural microelectrodes. <b>2022</b> , 104652	1
162	Band gap formation of 2D materialin graphene: Future prospect and challenges. 2022, 100474	1
161	Prototyping and Evaluation of Graphene-Based Piezoresistive Sensors. <b>2022</b> , 3, 218-226	O
160	Advances in polymeric nanocomposites for automotive applications: A review.	1
159	An integrated method for massive production of graphene from bituminous coal via ultrasonication-assisted emulsion formation. 1-12	
158	Injectable conductive nanocomposite hydrogels for cardiac tissue engineering: Focusing on carbon and metal-based nanostructures. <b>2022</b> , 174, 111336	1
157	Eco-friendly, non-toxic and super adsorbent hydrogels based on graphene. <b>2022</b> , 288, 126408	О
156	Advanced protective layer design on the surface of Mg-based metal and application in batteries: Challenges and progress. <b>2022</b> , 542, 231755	O
155	Thermo-physical properties and heat transfer potential of novel silica-ethylene glycol mono nanofluid: Experiments and multi-layer perceptron (MLP) modelling. <b>2022</b> , 648, 129412	1
154	Petal-Like Hierarchical Co3o4/N-Doped Porous Carbon Derived from Co-Mof for Enhanced Peroxymonosulfate Activation to Remove Tetracycline Hydrochloride.	
153	High-Quality Monocrystal Graphene for Sound Pressure Sensing.	
152	Na Intercalation Chemistry in Graphite. <b>2022</b> , 9-27	
151	Manufacturable biosensors based on graphene films. <b>2022</b> , 243-307	
150	Structural, photocatalytic and magnetic characteristics of aerogel graphene/bismuth ferrite nanocomposite. <b>2022</b> , 30, 343-356	
149	Heat transfer characteristics in discontinuous silicon carbide-reinforced aluminum multiphase composites containing nano-graphene additives: a micromechanics-based multistep technique. <b>2022</b> , 44,	
148	Design of Cube-like MnO2/r-GO Nanocomposite as a Superior Electrode Material for an Asymmetric Supercapacitor.	
147	Amide salt pyrolysis fabrication of graphene nanosheets with multi-excitation single color emission. <b>2022</b> ,	o

146	Carbon Nanomaterials: Fullerene to Graphene.	1
145	Boosting the hydrophobicity and mechanical properties of fluoroalkylsilane hydrolyzed 3-glycidyloxypropyl/graphene oxide-based nanocomposite coating for enhanced corrosion resistance. <b>2022</b> , 756, 139373	O
144	Enhanced thermal energy storage of sodium nitrate by graphene nanosheets: Experimental study and mechanisms. <b>2022</b> , 54, 105294	1
143	New insights into the structure and chemical reduction of graphene oxide membranes for use in isotopic water separations. <b>2022</b> , 659, 120785	O
142	Highly Responsive and Room-Temperature Operable Ethanol Gas Sensor Based on Thermally Reduced Graphene Oxide.	0
141	Advanced graphene nanosheets approaches to efficient solar thermal water purification system.	
140	Nanotechnology in Honey. <b>2022</b> , 87-101	
139	Graphene and carbon structures and nanomaterials for energy storage. <b>2022</b> , 128,	3
138	CationInteraction assisted facile preparation of graphene/epoxy nanocomposites with superior strength and toughness.	
137	Immunotoxicity of Carbon-Based Nanomaterials, Starring Phagocytes. <b>2022</b> , 23, 8889	
137 136	Immunotoxicity of Carbon-Based Nanomaterials, Starring Phagocytes. 2022, 23, 8889  The Effect of Oxygen Functional Groups on TiO2/RGO Composites for the Degradation of Unsymmetrical Dimethylhydrazine. 2022,	
	The Effect of Oxygen Functional Groups on TiO2/RGO Composites for the Degradation of	
136	The Effect of Oxygen Functional Groups on TiO2/RGO Composites for the Degradation of Unsymmetrical Dimethylhydrazine. <b>2022</b> ,	1
136 135	The Effect of Oxygen Functional Groups on TiO2/RGO Composites for the Degradation of Unsymmetrical Dimethylhydrazine. 2022,  Advances in Zinc and Magnesium Battery Polymer Cathode Materials.  Graphene Oxide Liquid Crystals Aligned in a Confined Configuration: Implications for Optical	1 4
136 135 134	The Effect of Oxygen Functional Groups on TiO2/RGO Composites for the Degradation of Unsymmetrical Dimethylhydrazine. 2022,  Advances in Zinc and Magnesium Battery Polymer Cathode Materials.  Graphene Oxide Liquid Crystals Aligned in a Confined Configuration: Implications for Optical Materials. 2022, 5, 11506-11518  Carbonaceous nanomaterials incorporated biomaterials: The present and future of the flourishing	,
136 135 134	The Effect of Oxygen Functional Groups on TiO2/RGO Composites for the Degradation of Unsymmetrical Dimethylhydrazine. 2022,  Advances in Zinc and Magnesium Battery Polymer Cathode Materials.  Graphene Oxide Liquid Crystals Aligned in a Confined Configuration: Implications for Optical Materials. 2022, 5, 11506-11518  Carbonaceous nanomaterials incorporated biomaterials: The present and future of the flourishing field. 2022, 243, 110150	4
136 135 134 133	The Effect of Oxygen Functional Groups on TiO2/RGO Composites for the Degradation of Unsymmetrical Dimethylhydrazine. 2022,  Advances in Zinc and Magnesium Battery Polymer Cathode Materials.  Graphene Oxide Liquid Crystals Aligned in a Confined Configuration: Implications for Optical Materials. 2022, 5, 11506-11518  Carbonaceous nanomaterials incorporated biomaterials: The present and future of the flourishing field. 2022, 243, 110150  Grafting of Pd on Covalently and Noncovalently Modified N-Doped Graphene for Electrocatalysis. 2102317	4

128	Photocatalytic aspect of rGO/MnFe2O4 as an efficient magnetically retrievable catalyst for reduction of nitroaromatic compounds under visible-light irradiation. <b>2022</b> , 10, 108368	О
127	Shear exfoliated few-layer graphene and cellulose nanocrystal composite as biocompatible anode with efficient charge transfer. <b>2022</b> , 9, 100210	1
126	Structural and electrochemical properties of NiCo2S4@N-doped graphene oxide/carboxy methyl cellulose interface composite for supercapacitor electrode materials. <b>2022</b> , 55, 105728	1
125	Mechanical properties of polymer nanocomposites with randomly dispersed and cross-linked two-dimensional diamond. <b>2022</b> , 230, 109722	O
124	Polymer nanocomposites based on Graphite Nanoplatelets and amphiphilic graphene platelets. <b>2022</b> , 246, 110223	1
123	Facile and scalable synthesis of reduced-graphene oxide using different green reducing agents and its characterizations. <b>2022</b> , 129, 109361	1
122	Targeted chitosan nanoparticles embedded into graphene oxide functionalized with caffeic acid as a potential drug delivery system: New insight into cancer therapy. <b>2022</b> , 222, 295-304	1
121	A Review on Potential of Graphene Reinforced Geopolymer Composites. <b>2022</b> , 43-60	O
120	Evaluation and optimization of thermal conductivity enhancement of water based GO nanosheet/Au NPs hybrid nanofluid: Box-Behnken design.	О
119	Photocatalytic hydrogen generation from methanol-water mixture in presence of g-C3N4 and graphene/g-C3N4.	O
118	Recent advances in novel graphene: new horizons in renewable energy storage technologies. <b>2022</b> , 10, 11472-11531	1
117	An In-Situ Synthesis of Polyaniline/Reduced Graphene Oxide Nanocomposite Flexible Thin Film on Pet for the Room Temperature Detection of Trace Level Ammonia at Ppb Level.	O
116	Effect of terephthalic acid functionalized graphene oxide on the molecular interaction, and mechanical and thermal properties of Hytrel polymer. <b>2022</b> , 18, 7112-7122	О
115	Formulation of conductive inks printable on textiles for electronic applications: a review. <b>2022</b> , 54, 103-200	O
114	The effect of chitosan-assembled graphene oxide on the microstructure and mechanical properties of the biodegradable polycaprolactone nanocomposites.	O
113	Evolution of Heterogeneity and Chemical Functionality during the Oxidation of Graphite. 2022, 6, 44	O
112	The effect of chitosan-assembled graphene oxide on the microstructure and mechanical properties of polycaprolactone nanocomposites.	O
111	New Frontiers of Graphene Based Nanohybrids for Energy Harvesting Applications. 2022, 78-103	O

110	Biomass valorization by thermal treatments: Graphene-based materials and their application on glyphosate adsorption. 3,	Ο
109	The Anticancer Efficacy of Thiourea-Mediated Reduced Graphene Oxide Nanosheets against Human Colon Cancer Cells (HT-29). <b>2022</b> , 13, 130	O
108	Identification of Graphene Dispersion Agents through Molecular Fingerprints.	O
107	Graphene: A Path-Breaking Discovery for Energy Storage and Sustainability. 2022, 15, 6241	O
106	Co2FeO4@rGO composite: Towards trifunctional water splitting in alkaline media. <b>2022</b> , 47, 33919-33937	1
105	Realizing the Application Potential of Graphene-Modified Bionanocomposites for Prosthesis and Implant Applications. <b>2023</b> , 323-336	O
104	Adsorption behaviour of Al atoms on the surface of perfect and defective graphene: a first principle study.	O
103	Carbon nanomaterials for drug delivery and tissue engineering. 10,	1
102	Graphene/carbon-based materials for advanced energy conversion applications. 2022, 13, 033005	O
101	A Review of the Effect of Porous Media on Gas Hydrate Formation. <b>2022</b> , 7, 33666-33679	O
100	The effect of chitosan-assembled graphene oxide on the microstructure and mechanical properties of the biodegradable polycaprolactone nanocomposites.	O
99	Wear behavior of metal matrix nanocomposites. 2022,	1
98	Facile preparation of graphite nanosheets with excellent adsorption property.	O
97	Petal-like hierarchical Co3O4/N-doped porous carbon derived from Co-MOF for enhanced peroxymonosulfate activation to remove tetracycline hydrochloride. <b>2022</b> , 139545	4
96	The effect of different rates of ultra-thin gossamer-like rGO coatings on photocatalytic performance in ZnO core-shell structures for optoelectronic applications. <b>2022</b> , 109435	O
95	Optical properties of reduced graphene oxide sheets. 209-218	O
94	Recent major advances and challenges in the emerging Graphene based nanomaterials in electrocatalytic Fuel Cell technology.	O
93	How are Hydroxyl Groups Localized on a Graphene Sheet?. <b>2022</b> , 7, 37221-37228	O

92	Graphene-Based Materials, Their Composites, and Potential Applications. 2022, 15, 7184	О
91	Graphene Properties, Synthesis and Applications: A Review.	О
90	Futuristic Advancements in Biomass-Derived Graphene Nanoassemblies: Versatile Biosensors for Point-of-Care Devices. <b>2022</b> , 7,	О
89	Nanocellulose-Based Nanocomposites for Sustainable Applications: A Review. <b>2022</b> , 12, 3483	4
88	Two-dimensional carbon-based heterostructures as bifunctional electrocatalysts for water splitting and metalBir batteries. <b>2022</b> ,	О
87	Alginate-based bio-nanohybrids with unique properties for multifunctional biomedical applications. 2200100	1
86	Graphene-Based Metal Drganic Framework Hybrids for Applications in Catalysis, Environmental, and Energy Technologies.	5
85	The Influence of Graphene Oxide Composition on Properties of Surface-Modified Metal Electrodes. <b>2022</b> , 15, 7684	O
84	2D Materials towards sensing technology: From fundamentals to applications. <b>2022</b> , 38, 100540	1
83	Fused filament fabrication of polyamide 6 nanographene composite for electrostatic discharge applications. <b>2023</b> , 287, 116086	О
82	Single process of pulsed wire discharge for defect healing and reduction of graphene oxide. <b>2023</b> , 201, 1184-1192	O
81	Cascading electron transfer and photophysics in a donor-Eacceptor graphene nanoconjugate.	О
80	Thermal-needle-triggered cascade reduction of graphene oxide for controllable moving trajectory into conductive patterns.	O
79	Graphene Reinforced Polymer Matrix Nanocomposites: Fabrication Method, Properties and Applications.	O
78	Novel Approach for Synthesis of Graphene-like Phases by Pulsed Laser Ablation in a Flow-Mode Suspension. <b>2022</b> , 15, 7870	О
77	The Influence of Lateral Size and Oxidation of Graphene Oxide on Its Chemical Reduction and Electrical Conductivity of Reduced Graphene Oxide. <b>2022</b> , 27, 7840	O
76	Review on effects of graphene oxide on mechanical and microstructure of cement-based materials. <b>2022</b> , 360, 129609	О
75	Study on sodium nitrate doped with graphene nanosheets: Heat transport characteristics and mechanism. <b>2022</b> ,	Ο

74	Graphene/Polyaniline nanocomposite as efficient electrocatalyst for oxygen reduction reaction for fuel cells. <b>2022</b> , 110192	Ο
73	Effect of concentration GO and diamond wax and method of introducing additives on morphology and properties of epoxy powder coating. <b>2023</b> , 117, 107866	O
72	A Review of Graphene Oxide Crosslinking as Enhanced Corrosion Shield Application. 2023, 1-26	0
71	Sub-acute toxicity of graphene oxide (GO) nanoparticles in male mice after intraperitoneal injection: Behavioral study and histopathological evaluation. <b>2023</b> , 171, 113553	1
70	Highly conductive quasi-defect-free reduced graphene oxide for qualitative scalable production. <b>2023</b> , 203, 221-229	0
69	Fresh, mechanical and microstructural properties of alkali-activated composites incorporating nanomaterials: A comprehensive review. <b>2023</b> , 384, 135390	5
68	Ab initio investigation of spin $B$ rbit coupling on structural, electronic, and optical properties for quaternary chalcogenide 2D-layered ACu2BS3 (A = K, Na; B = Bi, Sb) compounds.	0
67	Innovations in the synthesis of graphene nanostructures for bio and gas sensors. 2023, 145, 213234	2
66	Production of graphene-derivatives using organic molecules for supercapacitors and beyond. <b>2023</b> , 658, 130693	0
65	Nano-cementitious composites modified with Graphene Oxide 🖟 review. <b>2023</b> , 183, 110326	O
64	Electrochemical detection of tyrosine with casting electrode with carbon black and graphene oxide co-doped. <b>2023</b> , 185, 108238	0
63	Nanopore graphene-tungsten composite with enhanced irradiated helium atoms storage capacity. <b>2023</b> , 574, 154174	O
62	Next generation 2D materials for anodes in battery applications. <b>2023</b> , 556, 232256	0
61	Grafting macromolecular chains on the surface of graphene oxide through crosslinker for antistatic and thermally stable polyethylene terephthalate nanocomposites. <b>2022</b> , 12, 33329-33339	0
60	A review on few-layer graphene flakes deposition by kinetic spray process for energy storage devices. <b>2022</b> ,	0
59	Silver Nanoparticle-Decorated Reduced Graphene Oxide Nanomaterials Exert Membrane Stress and Induce Immune Response to Inhibit the Early Phase of HIV-1 Infection. 2201996	O
58	Inhomogeneous copper matrix composites reinforced by RGO/Cu composite foams with high electrical conductivity, tensile strength and fracture elongation. <b>2022</b> , 144500	О
57	Advanced 2D Nanomaterials for Additive Manufacturing. <b>2023</b> , 335-368	O

56	One-Step Acid-Induced Confined Conversion of Highly Oriented and Well-Defined Graphitized Cellulose Nanocrystals: Potential Advanced Energy Materials. <b>2022</b> , 10, 16760-16769	0
55	Surface modification of thin film composite forward osmosis membrane using graphene nanosheets for water desalination. <b>2022</b> , 12,	O
54	Graphene-Based Important Carbon Structures and Nanomaterials for Energy Storage Applications as Chemical Capacitors and Supercapacitor Electrodes: a Review.	0
53	Insights into the Stability of Graphene Oxide Aqueous Dispersions. <b>2022</b> , 12, 4489	O
52	Synthesis and Applications of Optical Materials. <b>2023</b> , 13, 297	0
51	Ultrafast L Band Soliton Pulse Generation in Erbium-Doped Fiber Laser Based on Graphene Oxide Saturable Absorber. <b>2023</b> , 13, 141	Ο
50	Evaluation of a biosensor-based graphene oxide-DNA nanohybrid for lung cancer. <b>2023</b> , 13, 2487-2500	0
49	Optical and Electrical Properties of Low-Dimensional Crystalline Materials: A Review. <b>2023</b> , 13, 108	O
48	Highly Sensitive Humidity Sensor Based on Freestanding Graphene Oxide Sheets for Respiration and Moisture Detection.	O
47	Sustainable electromagnetic shielding graphene/nanocellulose thin films with excellent joule heating and mechanical properties via in-situ mechanical exfoliation and crosslinking with cations. <b>2023</b> , 233, 109913	1
46	Graphene oxides and derivatives for biomedical applications: drug delivery/gene delivery, bioimaging, and therapeutics. <b>2023</b> , 131-166	0
45	A review: studying the effect of graphene nanoparticles on mechanical, physical and thermal properties of polylactic acid polymer. <b>2023</b> , 13, 3976-4006	O
44	Emerging Trends and Future Direction of Graphene Family of Materials as Potential Antimicrobials: A Critical Review. 673-693	0
43	Screening and Evaluation of Thiamethoxam Aptamer Based on Pressurized GO-SELEX and Its Sensor Application. <b>2023</b> , 13, 155	1
42	Binder-Free Supercapacitors Based on Thin Films of MWCNT/GO Nanohybrids: Computational and Experimental Analysis. <b>2023</b> , 13, 235	0
41	Carbon Nanostructure Embedded Novel Sensor Implementation for Detection of Aromatic Volatile Organic Compounds: An Organized Review. <b>2023</b> , 8, 4436-4452	O
40	3D printing of 2D nano-inks for multifarious applications. <b>2023</b> , 91-124	O
39	Carbon-based gas sensing materials. <b>2023</b> , 51-79	O

38	Electrochemically Versatile Graphite Nanoplatelets Prepared by a Straightforward, Highly Efficient, and Scalable Route.	О
37	Preparation and multilayer transfer of high-quality monocrystalline graphene grown on centimeter-Cu (111) substrate. <b>2023</b> , 210, 111855	O
36	2D/2D porous Co3O4/rGO nanosheets act as an electrochemical sensor for voltammetric tryptophan detection. <b>2023</b> , 135, 109811	О
35	Influence of graphite geography on the yield of mechanically exfoliated few-layer graphene. <b>2023</b> , 208, 355-364	O
34	Laser direct writing of graphene photodetector with a wide spectral detection from the visible to the infrared. <b>2023</b> , 11, 100255	0
33	Photocatalytic performances of manganese oxide nanorods decorated graphene oxide nanocomposites. <b>2023</b> , 135, 109820	O
32	Facile synthesis of Ag/GO SERS composite with highly sensitive and stable performance. <b>2023</b> , 662, 131008	О
31	Tunable Interlayer Interactions in Reduced Graphene Oxide Paper. <b>2023</b> , 15, 7627-7634	O
30	Hybrid pseudocapacitive sodium titanate/rGO and MXene/rGO nanocomposite electrodes in capacitive deionization. <b>2023</b> , 551, 116435	О
29	Green synthesis and application of graphene oxide extracted from Punica granatum. 2023,	O
28	Synergetic role of Ni and GOns to improve the microstructure and mechanical creep rate of Sn-5.0Sb-0.7Cu solder alloy. <b>2023</b> , 98, 035712	0
27	State-of-the-Art Graphene Synthesis Methods and Environmental Concerns. <b>2023</b> , 2023, 1-23	O
26	Oxidative stress induced by berberine-based mitochondria-targeted low temperature photothermal therapy. 11,	О
25	An in situ synthesis of polyaniline/reduced graphene oxide nanocomposite flexible thin film on PET for the room temperature detection of trace level ammonia at ppb level. <b>2023</b> , 58, 3147-3170	O
24	Graphene in Tissue Engineering and Electronics: Future Prospects and Challenges. 2023, 211-238	0
23	Influence of thermally shocked GO_CuO and GO_Al2O3 nanofillers on the optical and dielectric properties of PVA-based nanocomposites. <b>2023</b> , 34,	O
22	Use of Response Surface Methodology to Optimize the crystalline size of rice husk derived graphene produced by microwave process. <b>2023</b> , 1110, 012069	О
21	Electrocatalytic evaluation of EsnWO4/rGO nanostructure for low-level urea detection. 2023, 34,	1

20	Supramolecular framework membrane for precise sieving of small molecules, nanoparticles and proteins. <b>2023</b> , 14,	1
19	A review of low-cost approaches to synthesize graphene and its functional composites. <b>2023</b> , 58, 4359-4383	Ο
18	Conductive Additives for Improving the Rate Capability of Cathode Materials in Secondary Lithium Batteries. <b>2023</b> , 6, 2855-2862	0
17	Templated Synthesis of Exfoliated Porous Carbon with Dominant Graphitic Nitrogen.	Ο
16	Current Research Trends of Graphene Nanotechnology. <b>2023</b> , 106-123	0
15	Use of Graphene and Its Derivatives for the Detection of Dengue Virus. <b>2023</b> , 13, 349	O
14	Impingement of graphene nanoparticles for abrasion resistance and capillary action in alkali activated concrete. <b>2023</b> ,	0
13	Investigating the effect of chitosan functionalized graphene oxide on the performance of biodegradable polycaprolactone. 073168442311639	0
12	Graphene/ZnO nanocomposite based optical biosensors. 2023,	0
11	Superelastic Carbon Aerogels: An Emerging Material for Advanced Thermal Protection in Extreme Environments.	O
10	Synthesis of MRGO@ZIF-7-Based Molecular Imprinted Polymer by Surface Polymerization for the Fast and Selective Removal of Phenolic Endocrine-Disrupting Chemicals from Aqueous Environments. <b>2023</b> , 11, 1000	0
9	Host <b>G</b> uest Recognition Boosts Biomimetic Mono/Multivalent Cation Separation. <b>2023</b> , 57, 5861-5871	Ο
8	Furan-Based Bionanocomposites Reinforced with a Hybrid System of Carbon Nanofillers.	0
7	Functionalized Graphene from Electrochemical Exfoliation of Graphite toward Improving Lubrication Function of Base Oil. <b>2023</b> , 11, 166	O
6	Green and scalable narrow-gap exfoliation of high-quality two-dimensional vermiculite nanosheets as poly (vinyl chloride) thermal stabilizers. <b>2023</b> , 24, 3804-3814	0
5	Growth of graphene from solid amorphous carbon: A new geometry for control carbon diffusion barrier. <b>2023</b> , 213, 112106	O
4	Biodegradable polymer nanocomposites as electrode materials for electrochemical double-layer capacitors and hybrid supercapacitor applications. <b>2023</b> , 311-352	О
3	Single-atom Cu anchored on N-doped graphene/carbon nitride heterojunction for enhanced photocatalytic H2O2 production. <b>2023</b> , 161, 192-200	O

A novel and sustainable pipette-tip solid-phase microextraction testing of six carbon-based nanomaterials as proof of concept for the determination of sixteen emerging pollutants from active veterinary principles. **2023**, 5, 100060

Ο

The potential of functionalized graphene-based composites for removing heavy metals and organic pollutants. **2023**, 53, 103809

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