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2229	New results from Euroball. 1999 ,		
2228	Optical Transitions in a Self-Assembled Ge Quantum Dot/Si Superlattice Measured by Photoreflectance Spectroscopy. 2005 , 44, L1045-L1047		
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2226	Notizen. 2006 , 54, 842-846		
2225	Materials science: carbon sheet solutions. <i>Nature</i> , 2006 , 442, 254-5	50.4	223
2224	Structural biology: proteins downhill all the way. <i>Nature</i> , 2006 , 442, 255-6		10
		50.4	
2223	50 & 100 years ago. <i>Nature</i> , 2006 , 442, 255-255	50.4	7
2223			<i>7 55</i>
	50 & 100 years ago. <i>Nature</i> , 2006 , 442, 255-255 Flexible high-loading particle-reinforced polyurethane magnetic nanocomposite fabrication		7 55 90
2222	50 & 100 years ago. <i>Nature</i> , 2006 , 442, 255-255 Flexible high-loading particle-reinforced polyurethane magnetic nanocomposite fabrication through particle-surface-initiated polymerization. 2007 , 18, 335704	50.4	
2222	50 & 100 years ago. <i>Nature</i> , 2006 , 442, 255-255 Flexible high-loading particle-reinforced polyurethane magnetic nanocomposite fabrication through particle-surface-initiated polymerization. 2007 , 18, 335704 Prediction of the hydrogen storage capacity of carbon nanoscrolls. 2007 , 75,	50.4	90
2222 2221 2220	50 & 100 years ago. <i>Nature</i> , 2006 , 442, 255-255 Flexible high-loading particle-reinforced polyurethane magnetic nanocomposite fabrication through particle-surface-initiated polymerization. 2007 , 18, 335704 Prediction of the hydrogen storage capacity of carbon nanoscrolls. 2007 , 75, Giant magnetoresistance behavior of an iron/carbonized polyurethane nanocomposite. 2007 , 90, 0531	50.4	90 74

(2007-2007)

2216	Raman spectroscopy of graphene and graphite: Disorder, electronphonon coupling, doping and nonadiabatic effects. 2007 , 143, 47-57	5375
2215	Simple Approach for High-Contrast Optical Imaging and Characterization of Graphene-Based Sheets. 2007 , 7, 3569-3575	282
2214	Graphite Nanoplatelet E poxy Composite Thermal Interface Materials. 2007 , 111, 7565-7569	844
2213	Ab initio calculation of ideal strength and phonon instability of graphene under tension. 2007, 76,	1042
2212	Electron and Phonon Properties of Graphene: Their Relationship with Carbon Nanotubes. 2007, 673-709	106
2211	Unique chemical reactivity of a graphene nanoribbon's zigzag edge. 2007 , 126, 134701	380
22 10	Lithography-free fabrication of graphene devices. 2007 , 90, 143518	50
2209	Emerging nanocircuit paradigm: Graphene-based electronics for nanoscale computing. 2007,	7
2208	Anchoring of Silver Nanoparticles on Graphite and Isomorphous Lattices. 2007, 111, 5331-5336	26
2207	Oriented nanomaterial air bridges formed from suspended polymer-composite nanofibers. 2007 , 1, 57-62	19
2206	The interaction of sulfuric acid with graphene and formation of adsorbed crystals. 2007, 18, 485705	27
2205	Multiscale imaging and tip-scratch studies reveal insight into the plasma oxidation of graphite. 2007 , 23, 8932-43	49
2204	Graphene-silica composite thin films as transparent conductors. 2007 , 7, 1888-92	759
2203	Electrostatic deposition of graphene. 2007 , 18, 135301	112
2202	Electronic and transport properties of boron-doped graphene nanoribbons. 2007, 98, 196803	502
2201	Multiscale carbon nanotube-carbon fiber reinforcement for advanced epoxy composites. 2007 , 23, 3970-4	702
2200	Correction factors for 4-probe electrical measurements with finite size electrodes and material anisotropy: a finite element study. 2007 , 18, 2067-2073	34
2199	Elasticity of single-crystalline graphite: Inelastic x-ray scattering study. 2007 , 75,	224

2198	Computational Studies of the Structure, Behavior upon Heating, and Mechanical Properties of Graphite Oxide. 2007 , 111, 18099-18111		281
2197	First principles study of magnetism in nanographenes. 2007 , 127, 124703		178
2196	Enhanced half-metallicity in edge-oxidized zigzag graphene nanoribbons. 2007 , 7, 2295-9		517
2195	Rayleigh imaging of graphene and graphene layers. 2007 , 7, 2711-7		513
2194	Graphene: Exploring carbon flatland. 2007 , 60, 35-41		459
2193	Preparation of fully exfoliated graphite oxide nanoplatelets in organic solvents. 2007, 17, 3678		242
2192	Nanoscale Vibrational Behavior of Single-Layered Graphene Sheets. 2007,		
2191	Crystallization behavior of poly(?-caprolactone)/graphite oxide composites. 2007, 106, 4225-4232		30
2190	Soluble graphene derived from graphite fluoride. 2007 , 445, 51-56		206
2189	Synthesis of graphene-based nanosheets via chemical reduction of exfoliated graphite oxide. 2007 , 45, 1558-1565		11390
2188	Improved mechanical and functional properties of elastomer/graphite nanocomposites prepared by latex compounding. 2007 , 55, 6372-6382		119
2187	Optimal atomistic modifications of material surfaces: design of selective nesting sites for biomolecules. 2007 , 3, 580-4		15
2186	The rise of graphene. 2007 , 6, 183-91		30572
2185	A versatile approach for the processing of polymer nanocomposites with self-assembled nanofibre templates. 2007 , 2, 765-9		364
2184	The structure of suspended graphene sheets. <i>Nature</i> , 2007 , 446, 60-3	50.4	4019
2183	Preparation and characterization of graphene oxide paper. <i>Nature</i> , 2007 , 448, 457-60	50.4	4556
2182	Single Sheet Functionalized Graphene by Oxidation and Thermal Expansion of Graphite. 2007 , 19, 4396-	4404	2986
2181	Electronic transport properties of individual chemically reduced graphene oxide sheets. 2007 , 7, 3499-5	03	2010

(2008-2007)

2180	Graphene calling. 2007 , 6, 169	5
2179	Preparation and electrochemical characteristics of manganese dioxide/graphite nanoplatelet composites. 2008 , 151, 174-178	42
2178	Polymer nanotechnology: Nanocomposites. 2008 , 49, 3187-3204	2576
2177	Processing of nanographene platelets (NGPs) and NGP nanocomposites: a review. 2008 , 43, 5092-5101	381
2176	Anomalous electrical conductivity and percolation in carbon nanotube composites. 2008, 43, 6012-6015	45
2175	Effect of different types of pseudopotentials on study of electronic dispersion for graphene and a (5,5) SWCNT. 2008 , 92, 371-374	9
2174	Nano-Graphene Oxide for Cellular Imaging and Drug Delivery. 2008 , 1, 203-212	2765
2173	Raman spectroscopy and imaging of graphene. 2008 , 1, 273-291	989
2172	Mechanism-guided improvements to the single molecule oxidation of carbon nanotube sidewalls. 2008 , 9, 1053-6	15
2171	Photopatterning of tough single-walled carbon nanotube composites in microfluidic channels and their application in gel-free separations. 2008 , 29, 2458-65	14
2170	Transparent carbon films as electrodes in organic solar cells. 2008 , 47, 2990-2	549
2169	One-Step Ionic-Liquid-Assisted Electrochemical Synthesis of Ionic-Liquid-Functionalized Graphene Sheets Directly from Graphite. 2008 , 18, 1518-1525	853
2168	High-Conductivity Polymer Nanocomposites Obtained by Tailoring the Characteristics of Carbon Nanotube Fillers. 2008 , 18, 3226-3234	203
2167	Synthesis of Semiconducting Functional Materials in Solution: From II-VI Semiconductor to Inorganic Typrid Semiconductor Nanomaterials. 2008 , 18, 3357-3366	112
2166	Highly Conductive Carbon-Nanotube/Graphite-Oxide Hybrid Films. 2008, 20, 1706-1709	159
2165	Intact Pattern Transfer of Conductive Exfoliated Graphite Nanoplatelet Composite Films to Polyelectrolyte Multilayer Platforms. 2008 , 20, 2008-2012	56
2164	Surfactant-Free, Melt-Processable Metal P olymer Hybrid Materials: Use of Graphene as a Dispersing Agent. 2008 , 20, 3044-3049	35
2163	Electrochemical Modification of Graphene. 2008 , 20, 3050-3053	257

2162	Band-like Transport in Surface-Functionalized Highly Solution-Processable Graphene Nanosheets. 2008 , 20, 3440-3446	270
2161	Organic Photovoltaic Devices Based on a Novel Acceptor Material: Graphene. 2008 , 20, 3924-3930	75 ⁰
2160	Enhanced Thermal Conductivity in a Hybrid Graphite Nanoplatelet Carbon Nanotube Filler for Epoxy Composites. 2008 , 20, 4740-4744	776
2159	Mechanically Strong, Electrically Conductive, and Biocompatible Graphene Paper. 2008, 20, 3557-3561	1665
2158	Deoxygenation of Exfoliated Graphite Oxide under Alkaline Conditions: A Green Route to Graphene Preparation. 2008 , 20, 4490-4493	1517
2157	Transparent Carbon Films as Electrodes in Organic Solar Cells. 2008, 120, 3032-3034	87
2156	Transport properties of graphene nanoribbon heterostructures. 2008 , 39, 537-540	8
2155	Hygrothermal effects on properties of highly conductive epoxy/graphite composites for applications as bipolar plates. 2008 , 182, 223-229	21
2154	Strengthening and thermal stabilization of polyurethane nanocomposites with silicon carbide nanoparticles by a surface-initiated-polymerization approach. 2008 , 68, 164-170	101
2153	Synthesis and Raman spectroscopic characterisation of carbon nanoscrolls. 2008 , 465, 254-257	38
2152	Theoretical study of third-order nonlinear optical properties in square nanographenes with open-shell singlet ground states. 2008 , 467, 120-125	93
2151	Synthesis of amphiphilic graphite oxide. 2008 , 46, 386-389	187
2150	First principle calculations of the electronic properties of nitrogen-doped carbon nanoribbons with zigzag edges. 2008 , 46, 537-543	170
2149	Surface features of exfoliated graphite/bentonite composites and their importance for ammonia adsorption. 2008 , 46, 1241-1252	41
2148	Chemically modified graphene sheets produced by the solvothermal reduction of colloidal dispersions of graphite oxide. 2008 , 46, 1994-1998	974
2147	Molecular dynamics simulations of ion-irradiation induced deflection of 2D graphene films. 2008 , 45, 3908-3917	15
2146	Applications of single-layered graphene sheets as mass sensors and atomistic dust detectors. 2008 , 145, 168-172	167
2145	Potential application of single-layered graphene sheet as strain sensor. 2008 , 147, 336-340	136

2144 Scanning probe microscopy study of exfoliated oxidized graphene sheets. 2008 , 602, 1607-1613	158
2143 Synthesis and catalytic application of Pd nanoparticles in graphite oxide. 2008 , 46, 1631-1637	77
Physical properties of silicone foams filled with carbon nanotubes and functionalized graphene sheets. 2008 , 44, 2790-2797	99
2141 Decorating Graphene Sheets with Gold Nanoparticles. 2008 , 112, 5263-5266	808
2140 Transparent, conductive graphene electrodes for dye-sensitized solar cells. 2008 , 8, 323-7	3849
2139 Graphene-based ultracapacitors. 2008, 8, 3498-502	6815
2138 TiO2-graphene nanocomposites. UV-assisted photocatalytic reduction of graphene oxide. 2008 , 2, 1487-91	2230
2137 Synthesis of water soluble graphene. 2008 , 8, 1679-82	2346
2136 Graphene oxide dispersions in organic solvents. 2008 , 24, 10560-4	2195
Flexible graphene films via the filtration of water-soluble noncovalent functionalized graphene sheets. 2008 , 130, 5856-7	2883
Diazonium functionalization of surfactant-wrapped chemically converted graphene sheets. 2008 , 130, 16201-6	844
Graphene-stabilized copper nanoparticles as an air-stable substitute for silver and gold in low-cost ink-jet printable electronics. 2008 , 19, 445201	226
2132 Solutions of negatively charged graphene sheets and ribbons. 2008 , 130, 15802-4	410
2131 Graphene terahertz generators for molecular circuits and sensors. 2008 , 112, 13699-705	65
2130 Evaluation of solution-processed reduced graphene oxide films as transparent conductors. 2008 , 2, 463-70	2716
2129 Characterization of Thermally Reduced Graphene Oxide by Imaging Ellipsometry. 2008 , 112, 8499-8506	180
2128 Aqueous Suspension and Characterization of Chemically Modified Graphene Sheets. 2008 , 20, 6592-6594	838
Large reversible Li storage of graphene nanosheet families for use in rechargeable lithium ion batteries. 2008 , 8, 2277-82	2453

2126	On the mechanism of forming nanosized particles of diamond detonation synthesized from explosive decomposition products. 2008 , 30, 143-162	4
2125	Defluorination of fluorinated coke by triethylamine. 2008 , 421, 182-185	1
2124	Graphene: calling all chemists. 2008 , 3, 10-1	418
2123	Island hopping. 2008 , 3, 11-11	1
2122	Processable aqueous dispersions of graphene nanosheets. 2008 , 3, 101-5	77 2 9
2121	Highly conducting graphene sheets and Langmuir-Blodgett films. 2008, 3, 538-42	1750
2120	High-yield production of graphene by liquid-phase exfoliation of graphite. 2008, 3, 563-8	4715
2119	Large-area ultrathin films of reduced graphene oxide as a transparent and flexible electronic material. 2008 , 3, 270-4	3697
2118	Functionalized graphene sheets for polymer nanocomposites. 2008 , 3, 327-31	2899
2117	Comparison of carbon nanotubes and nanodisks as percolative fillers in electrically conductive composites. 2008 , 58, 69-72	49
2116	Electroless deposition of silver particles on graphite nanosheets. 2008 , 59, 1031-1034	49
2115	X-ray diffraction line profile analysis of nanocrystalline graphite. 2008 , 111, 346-350	50
2114	Lamellar carbon nanosheets function as templates for two-dimensional deposition of tubular titanate. 2008 , 4348-50	24
2113	Graphene layer growth chemistry: five- and six-member ring flip reaction. 2008, 112, 2125-30	34
2112	Half-metallicity in undoped and boron doped graphene nanoribbons in the presence of semilocal exchange-correlation interactions. 2008 , 112, 1333-5	177
2111	Tunable electrical conductivity of individual graphene oxide sheets reduced at "low" temperatures. 2008 , 8, 4283-7	745
2 110	Reversible basal plane hydrogenation of graphene. 2008 , 8, 4597-602	479
2109	Graphite oxide-intercalated anionic clay and its decomposition to graphene-inorganic material nanocomposites. 2008 , 24, 8240-4	103

(2008-2008)

2108 Depositing graphene films on solid and perforated substrates. 2008 , 19, 365303	16
2107 PEGylated nanographene oxide for delivery of water-insoluble cancer drugs. 2008 , 130, 10876-7	3039
2106 New Method To Prepare Graphite Nanocomposites. 2008 , 20, 2066-2068	122
2105 Elastic properties of chemically derived single graphene sheets. 2008 , 8, 2045-9	749
2104 Facile Synthesis and Characterization of Graphene Nanosheets. 2008 , 112, 8192-8195	1697
2103 Semiconducting nature of the oxygen-adsorbed graphene sheet. 2008 , 103, 113712	191
2102 The growth and morphology of epitaxial multilayer graphene. 2008 , 20, 323202	536
2101 Exfoliated Graphene Separated by Platinum Nanoparticles. 2008 , 20, 6792-6797	984
Bending properties of single functionalized graphene sheets probed by atomic force microscopy. 2008 , 2, 2577-84	167
2099 Vibrational analysis of single-layered graphene sheets. 2008 , 19, 085702	121
2098 Selective ion passage through functionalized graphene nanopores. 2008 , 130, 16448-9	478
2097 Substrate-free gas-phase synthesis of graphene sheets. 2008 , 8, 2012-6	627
2096 Field emission from graphene based composite thin films. 2008 , 93, 233502	226
2095 Organic photovoltaic cells based on an acceptor of soluble graphene. 2008 , 92, 223303	181
Graphene oxide papers modified by divalent ions-enhancing mechanical properties via chemical cross-linking. 2008 , 2, 572-8	1423
2093 Modeling of graphite oxide. 2008 , 130, 10697-701	654
2092 Percolative properties of hard oblate ellipsoids of revolution with a soft shell. 2008 , 78, 061126	47
Effect of Water Vapor on Electrical Properties of Individual Reduced Graphene Oxide Sheets. 2008 , 112, 20264-20268	293

2090	The assembly of single-layer graphene oxide and graphene using molecular templates. 2008, 8, 3141-5	134
2089	A Prototype for Graphene Material Simulation: Structures and Interaction Potentials of Coronene Dimers. 2008 , 112, 4061-4067	135
2088	Oxidation of Graphene Nanoribbon by Molecular Oxygen. 2008 , 7, 628-635	14
2087	Polymer©raphite Nanocomposites: Effective Dispersion and Major Property Enhancement via Solid-State Shear Pulverization. 2008 , 41, 1905-1908	250
2086	Molecular design of stable graphene nanosheets dispersions. 2008 , 8, 4630-41	95
2085	Attachment of Nitrogen and Oxygen Centered Radicals to Single-Walled Carbon Nanotube Salts. 2008 , 20, 7339-7343	37
2084	Biodegradable Nanocomposites Based on the Polyester Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) and Layered Silicate or Expanded Graphite. 2008 , 45, 431-439	13
2083	Comparison of the effective conductivity between composites reinforced by graphene nanosheets and carbon nanotubes. 2008 , 92, 243121	189
2082	Graphene-based single-bacterium resolution biodevice and DNA transistor: interfacing graphene derivatives with nanoscale and microscale biocomponents. 2008 , 8, 4469-76	1038
2081	Macroscopic graphene membranes and their extraordinary stiffness. 2008 , 8, 2442-6	528
2080	Self-passivating edge reconstructions of graphene. 2008 , 101, 115502	583
2079	Reductive Alkylation of Fluorinated Graphite. 2008 , 20, 3134-3136	30
2078	GrapheneMetal Particle Nanocomposites. 2008, 112, 19841-19845	1368
2077	Deposition of Co3O4nanoparticles onto exfoliated graphite oxide sheets. 2008 , 18, 5625	270
2076	A bottom-up approach from molecular nanographenes to unconventional carbon materials. 2008 , 18, 1472	297
2075	Graphene-based liquid crystal device. 2008 , 8, 1704-8	1319
2074	Materials science. Graphene-based materials. 2008 , 320, 1170-1	1257
2073	Electronic and Magnetic Properties of Ti and Fe on Graphene. 2008 , 112, 9163-9167	83

2072 Functionalized graphene sheet filled silicone foam nanocomposites. 2008 , 18, 2221	311
2071 Nanomaterial-incorporated blown bubble films for large-area, aligned nanostructures. 2008 , 18, 728	75
Interlayer energy-optimum stacking registry for two curved graphene sheets of nanometre dimensions. 2008 , 34, 813-819	2
Magnetic and magnetoresistance behaviors of particulate iron/vinyl ester resin nanocomposites. 2008 , 104, 014314	44
Supramolecular assemblies of surfactants and lipid derivatives on free-standing hybrid nanofilms. 2008 , 4, 797-804	4
2067 Growth of graphene structure on 6H-SiC(0001): Molecular dynamics simulation. 2008 , 103, 063505	24
Interfacial interactions and dispersion relations in carbon-aluminium nanocomposite systems. 2008 , 19, 285701	30
Electrical conductivity of thermoresponsive shape-memory polymer with embedded micron sized Ni powder chains. 2008 , 92, 014104	146
Comparative Study of Carbon and BN Nanographenes: Ground Electronic States and Energy Gap Engineering. 2008 , 112, 12677-12682	63
2063 Synthesis and solid-state NMR structural characterization of 13C-labeled graphite oxide. 2008 , 321, 1815-7	1006
Synthesis and solid-state NMR structural characterization of 13C-labeled graphite oxide. 2008, 321, 1815-7 Tuning the gap in bilayer graphene using chemical functionalization: Density functional calculations. 2008, 78,	1006 167
Tuning the gap in bilayer graphene using chemical functionalization: Density functional	
Tuning the gap in bilayer graphene using chemical functionalization: Density functional calculations. 2008 , 78,	
Tuning the gap in bilayer graphene using chemical functionalization: Density functional calculations. 2008 , 78, The purification of chemically synthesized graphene. 2008 ,	167
Tuning the gap in bilayer graphene using chemical functionalization: Density functional calculations. 2008, 78, 2061 The purification of chemically synthesized graphene. 2008, 2060 From plants to birds: higher avian predation rates in trees responding to insect herbivory. 2008, 3, e2832 Preparation of Si3N4 Composites with Single Wall Carbon Nanotube and Exfoliated Graphite. 2008,	167
Tuning the gap in bilayer graphene using chemical functionalization: Density functional calculations. 2008, 78, 2061 The purification of chemically synthesized graphene. 2008, 2060 From plants to birds: higher avian predation rates in trees responding to insect herbivory. 2008, 3, e2832 Preparation of Si3N4 Composites with Single Wall Carbon Nanotube and Exfoliated Graphite. 2008, 589, 409-414 Morphology and Properties of Conducting Polyvinyl Alcohol Hydrosulfate/Graphite Nanosheet	167 106 2
Tuning the gap in bilayer graphene using chemical functionalization: Density functional calculations. 2008, 78, 2061 The purification of chemically synthesized graphene. 2008, 2060 From plants to birds: higher avian predation rates in trees responding to insect herbivory. 2008, 3, e2832 Preparation of Si3N4 Composites with Single Wall Carbon Nanotube and Exfoliated Graphite. 2008, 589, 409-414 Morphology and Properties of Conducting Polyvinyl Alcohol Hydrosulfate/Graphite Nanosheet Composites. 2008, 42, 1491-1504	167 106 2 11

2054	Electron transport from a one-dimensional lead to a two-dimensional graphene sheet through a single site. 2008 , 20, 055207	6
2053	Photon-Assisted Electron Transport for a Eshaped Carbon Nanotube Junction. 2008 , 25, 1836-1839	1
2052	Electron-electron interactions on the edge states of graphene: A many-body configuration interaction study. 2008 , 77,	88
2051	Bent graphite surfaces as guides for cluster diffusion and anisotropic growth. 2008, 77,	13
2050	Significantly reducing electrical resistivity by forming conductive Ni chains in a polyurethane shape-memory polymer/carbon-black composite. 2008 , 92, 204101	157
2049	Dependence of electronic and optical properties on a high-frequency field for carbon nanotubes. 2008 , 103, 073712	4
2048	Quenching of local magnetic moment in oxygen adsorbed graphene nanoribbons. 2008, 128, 201101	29
2047	Structural bistability of the oxygen-adsorbed graphene sheet. 2008 , 100, 052019	7
2046	Thermal conductance of graphene and dimerite. 2009 , 79,	108
2045	Low-temperature expanded graphite for preparation of graphene sheets by liquid-phase method. 2009 , 188, 012040	10
2044	Meso-origami: Folding multilayer graphene sheets. 2009 , 95, 123121	161
2043	Bistable electrical switching and electronic memory effect in a solution-processable graphene oxide-donor polymer complex. 2009 , 95, 253301	106
2042	Large-scale graphene production by RF-cCVD method. 2009 , 4061-3	97
2041	Surface effects in atomistic mechanical simulations of Al nanocrystals. 2009 , 80,	18
2040	Noninvasive metal contacts in chemically derived graphene devices. 2009 , 95, 223507	16
2039	Synthesis of High Quality Few Layer Graphene Sheets in Large Quantities by Radio Frequency Chemical Vapor Deposition. 2009 , 1204, 1	
2038	Strong and ductile platelet-reinforced polymer films inspired by nature: Microstructure and mechanical properties. 2009 , 24, 2741-2754	50
2037	Reactivity of periodically rippled graphene grown on Ru(0001). 2009 , 21, 134002	35

2036	Direct e-beam writing of 1nm thin carbon nanoribbons. 2009 , 27, 3059	19
2035	Pearls of wisdom: stringing nanoparticles and polymers into new assemblies and materials. 2009 , 3, 2870-5	31
2034	Curing behaviour of epoxy resin/graphite composites containing ionic liquid. 2009 , 42, 145307	19
2033	Structural and electronic properties of the planar C-skeleton polymers. 2009 , 94, 223107	6
2032	Preparation and Consolidation of Alumina/Graphene Composite Powders. 2009, 50, 749-751	65
2031	Amino Terminated Polyethylene Glycol Functionalized Graphene and Its Water Solubility. 2009 , 1205, 20901	1
2030	Dispersibility and stability improvement of graphite nanoplatelets in organic solvent by assistance of dispersant and resin. 2009 , 44, 977-983	8
2029	Production of few-layer graphene by supercritical CO2 exfoliation of graphite. 2009 , 63, 1987-1989	172
2028	Polymer Photovoltaic Cells Based on Solution-Processable Graphene and P3HT. 2009 , 19, 894-904	437
2027	Molecular-Level Dispersion of Graphene into Poly(vinyl alcohol) and Effective Reinforcement of their Nanocomposites. 2009 , 19, 2297-2302	1350
2026	Evolution of Electrical, Chemical, and Structural Properties of Transparent and Conducting Chemically Derived Graphene Thin Films. 2009 , 19, 2577-2583	1451
2025	Efficient Reduction of Graphite Oxide by Sodium Borohydride and Its Effect on Electrical Conductance. 2009 , 19, 1987-1992	1831
2024	Liquid-Phase Exfoliation of Nanotubes and Graphene. 2009 , 19, 3680-3695	518
2023	A Graphene Hybrid Material Covalently Functionalized with Porphyrin: Synthesis and Optical Limiting Property. 2009 , 21, 1275-1279	915
2022	High Dielectric Permittivity and Low Percolation Threshold in Nanocomposites Based on Poly(vinylidene fluoride) and Exfoliated Graphite Nanoplates. 2009 , 21, 710-715	569
2021	Toward Site-Specific Stamping of Graphene. 2009 , 21, 1243-1246	74
2020	One Nanometer Thin Carbon Nanosheets with Tunable Conductivity and Stiffness. 2009 , 21, 1233-1237	187
2019	Dispersion of Graphene Sheets in Organic Solvent Supported by Ionic Interactions. 2009 , 21, 1679-1683	559

2018	Fabrication of Graphene P olymer Nanocomposites With Higher-Order Three-Dimensional Architectures. 2009 , 21, 2180-2184	539
2017	Aqueous Stabilization and Self-Assembly of Graphene Sheets into Layered Bio-Nanocomposites using DNA. 2009 , 21, 3159-3164	425
2016	Self-Assembled Free-Standing Graphite Oxide Membrane. 2009 , 21, 3007-3011	788
2015	Composites of Graphene with Large Aromatic Molecules. 2009 , 21, 3191-3195	677
2014	Large-Scale Fabrication of Boron Nitride Nanosheets and Their Utilization in Polymeric Composites with Improved Thermal and Mechanical Properties. 2009 , 21, 2889-2893	1282
2013	MOF© raphite Oxide Composites: Combining the Uniqueness of Graphene Layers and Metal©rganic Frameworks. 2009 , 21, 4753-4757	489
2012	Chemical Vapor Deposition Repair of Graphene Oxide: A Route to Highly-Conductive Graphene Monolayers. 2009 , 21, 4683-4686	189
2011	Zweidimensionale Polymere: nur ein Traum von Synthetikern?. 2009 , 121, 1048-1089	106
2010	Subliming the Unsublimable: How to Deposit Nanographenes. 2009 , 121, 4672-4674	4
2009	The formation of large-area conducting graphene-like platelets. 2009 , 15, 8235-40	71
2008	Large-Scale Synthesis of Few-Layered Graphene using CVD. 2009 , 15, 53-56	181
2007	Application of graphene and graphene-based materials in clean energy-related devices. 2009 , 33, 1161-1170	108
2006	Functionalized Graphenes and Thermoplastic Nanocomposites Based upon Expanded Graphite Oxide. 2009 , 30, 316-27	441
2005	Graphen, das neue zweidimensionale Nanomaterial. 2009 , 121, 7890-7916	196
2004	Two-dimensional polymers: just a dream of synthetic chemists?. 2009 , 48, 1030-69	590
2003	Subliming the unsublimable: how to deposit nanographenes. 2009 , 48, 4602-4	32
2002	Graphene: the new two-dimensional nanomaterial. 2009 , 48, 7752-77	3344
2001	Temperature dependence of the conductivity behavior of graphite nanoplatelet-filled epoxy resin composites. 2009 , 113, 1515-1519	24

200	copperflickel/graphite bimetallic nanocomposite catalyst. 2009 , 147, 287-296	97
199	Electrochemical preparation of graphite intercalation compounds containing a cyclic amide, [CF2(CF2SO2)2N][1 2009 , 130, 581-585	3
199	8 Buckling of biaxially compressed orthotropic plates at small scales. 2009 , 36, 933-938	92
199	Electromagnetic solitons in a system of graphene planes with Anderson impurities. 2009 , 30, 101-108	10
199	6 Chiral selective tunneling induced graphene nanoribbon switch. 2009 , 4, 373-377	1
199	5 Facile, noncovalent decoration of graphene oxide sheets with nanocrystals. 2009 , 2, 192-200	136
199	A hybrid material of graphene and poly (3,4-ethyldioxythiophene) with high conductivity, flexibility, and transparency. 2009 , 2, 343-348	282
199	Solvothermal-assisted exfoliation process to produce graphene with high yield and high quality. 2009 , 2, 706-712	198
199	Electronic and structural properties of graphene-based transparent and conductive thin film electrodes. 2009 , 94, 1-4	45
199	Towards electron spin resonance of mechanically exfoliated graphene. 2009 , 246, 2558-2561	50
199	Morphological and physical properties of a thermoplastic polyurethane reinforced with functionalized graphene sheet. 2009 , 58, 412-417	217
198	9 Synthesis of amphiphilic graphene nanoplatelets. 2009 , 5, 82-5	325
198	8 Ultralong natural graphene nanoribbons and their electrical conductivity. 2009 , 5, 924-7	31
198	Photoconductivity of bulk-film-based graphene sheets. 2009 , 5, 1682-7	75
198	6 Liquid-phase exfoliation of graphite towards solubilized graphenes. 2009 , 5, 1841-5	460
198	Fabrication of flexible metal-nanoparticle films using graphene oxide sheets as substrates. 2009 , 5, 2212-7	287
198	Functionalized graphene sheet B oly(vinylidene fluoride) conductive nanocomposites. 2009 , 47, 888-897	365
198	Large-scale pattern growth of graphene films for stretchable transparent electrodes. <i>Nature</i> , 2009 , 457, 706-10	8675

1982	The effect of plasticity in crumpling of thin sheets. 2009 , 8, 25-9	89
1981	Gram-scale production of graphene based on solvothermal synthesis and sonication. 2009 , 4, 30-3	903
1980	Chemical methods for the production of graphenes. 2009 , 4, 217-24	5501
1979	Graphene-nanotube structures: Constitution and formation energy. 2009 , 89, 352-356	12
1978	Synthesis and separation of mellitic acid and graphite oxide colloid through electrochemical oxidation of graphite in deionized water. 2009 , 11, 409-412	21
1977	Nafiongraphene nanocomposite film as enhanced sensing platform for ultrasensitive determination of cadmium. 2009 , 11, 1085-1088	287
1976	Elastic properties of single-layered graphene sheet. 2009 , 149, 91-95	199
1975	Preparation of graphite nanoplatelets and graphene sheets. 2009 , 336, 592-8	342
1974	Mechanical properties of monolayer graphene under tensile and compressive loading. 2009 , 41, 1561-1566	145
1973	Small scale effect on vibration of embedded multilayered graphene sheets based on nonlocal continuum models. 2009 , 373, 1062-1069	228
1972	Fabrication of a grapheneduprous oxide composite. 2009 , 182, 2486-2490	191
1971	Graphite oxide/poly(methyl methacrylate) nanocomposites prepared by a novel method utilizing macroazoinitiator. 2009 , 69, 186-191	136
1970	Controlling work function of reduced graphite oxide with Au-ion concentration. 2009 , 475, 91-95	96
1969	Graphene oxide doped polyaniline for supercapacitors. 2009 , 11, 1158-1161	702
1968	Glucose oxidase-graphene-chitosan modified electrode for direct electrochemistry and glucose sensing. 2009 , 25, 901-5	1026
1967	Synthesis of enhanced hydrophilic and hydrophobic graphene oxide nanosheets by a solvothermal method. 2009 , 47, 68-72	409
1966	Synthesis of high-quality graphene with a pre-determined number of layers. 2009 , 47, 493-499	584
1965	Pyrolytic formation and photoluminescence properties of a new layered carbonaceous material with graphite oxide-mimicking characteristics. 2009 , 47, 519-526	15

1964 Electromagnetic interference shielding of graphene/epoxy composites. 2009 , 47, 922-925	1044
1963 Synthesis and characterisation of hydrophilic and organophilic graphene nanosheets. 2009 , 47, 1359-1364	521
Restoring electrical conductivity of dielectrophoretically assembled graphite oxide sheets by thermal and chemical reduction techniques. 2009 , 47, 1520-1525	138
1961 Preparation of graphene sheets by the reduction of carbon monoxide. 2009 , 47, 1610-1612	77
Preparation of graphene nanosheet/polymer composites using in situ reduction extractive dispersion. 2009 , 47, 2296-2299	161
1959 InorganicBrganic hybrid porous materials based on graphite oxide sheets. 2009 , 47, 2993-3000	123
1958 Exfoliated soluble graphite. 2009 , 47, 2945-2949	29
Synthesis, characterization and optical limiting property of covalently oligothiophene-functionalized graphene material. 2009 , 47, 3113-3121	198
1956 Highly efficient and large-scale synthesis of graphene by electrolytic exfoliation. 2009 , 47, 3242-3246	276
Size-controlled synthesis of graphene oxide sheets on a large scale using chemical exfoliation. 2009 , 47, 3365-3368	370
27C ablation protective coating for carbon/carbon composites. 2009 , 47, 3368-3371	135
Strong and ductile poly(vinyl alcohol)/graphene oxide composite films with a layered structure. 2009 , 47, 3538-3543	629
Catalytic unzipping of carbon nanotubes to few-layer graphene sheets under microwaves irradiation. 2009 , 371, 22-30	46
1951 Probing disorder and charged impurities in graphene by Raman spectroscopy. 2009 , 3, 175-177	86
1950 Focus on Carbon Electronics: Graphene Manotubes Diamond. 2009 , 3, A77-A78	1
1949 Graphene nanosheets for enhanced lithium storage in lithium ion batteries. 2009 , 47, 2049-2053	1153
1948 Control of graphene's properties by reversible hydrogenation: evidence for graphane. 2009 , 323, 610-3	3338
1947 Exfoliated graphite oxide decorated by PDMAEMA chains and polymer particles. 2009 , 25, 11808-14	242

1946	Fast and Facile Preparation of Graphene Oxide and Reduced Graphene Oxide Nanoplatelets. 2009 , 21, 3514-3520	737
1945	Colloidal suspensions of highly reduced graphene oxide in a wide variety of organic solvents. 2009 , 9, 1593-7	1382
1944	Evolution of graphene growth on Ni and Cu by carbon isotope labeling. 2009 , 9, 4268-72	1245
1943	Stable dispersions of graphene and highly conducting graphene films: a new approach to creating colloids of graphene monolayers. 2009 , 4527-9	232
1942	Colloidal nanocrystals with molecular metal chalcogenide surface ligands. 2009 , 324, 1417-20	852
1941	Transport properties of T-shaped and crossed junctions based on graphene nanoribbons. 2009 , 20, 055202	31
1940	Self-assembled TiO2-graphene hybrid nanostructures for enhanced Li-ion insertion. 2009 , 3, 907-14	1517
1939	Enhanced mechanical properties of nanocomposites at low graphene content. 2009 , 3, 3884-90	2005
1938	Supercapacitor Devices Based on Graphene Materials. 2009 , 113, 13103-13107	2018
1937	. 2009 , 37, 726-739	33
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 2009 , 37, 726-739 Atomic and electronic structure of graphene-oxide. 2009 , 9, 1058-63	33 921
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
1936	Atomic and electronic structure of graphene-oxide. 2009 , 9, 1058-63	921
1936	Atomic and electronic structure of graphene-oxide. 2009 , 9, 1058-63 Oxidation unzipping of stable nanographenes into joint spin-rich fragments. 2009 , 131, 9663-9	921 44
1936 1935 1934	Atomic and electronic structure of graphene-oxide. 2009 , 9, 1058-63 Oxidation unzipping of stable nanographenes into joint spin-rich fragments. 2009 , 131, 9663-9 Layer-by-layer self-assembly of graphene nanoplatelets. 2009 , 25, 6122-8	921 44 248
1936 1935 1934 1933	Atomic and electronic structure of graphene-oxide. 2009, 9, 1058-63 Oxidation unzipping of stable nanographenes into joint spin-rich fragments. 2009, 131, 9663-9 Layer-by-layer self-assembly of graphene nanoplatelets. 2009, 25, 6122-8 Tuning the electronic structure of graphene by an organic molecule. 2009, 113, 2-5 Improving gas sensing properties of graphene by introducing dopants and defects: a first-principles	921 44 248 207
1936 1935 1934 1933	Atomic and electronic structure of graphene-oxide. 2009, 9, 1058-63 Oxidation unzipping of stable nanographenes into joint spin-rich fragments. 2009, 131, 9663-9 Layer-by-layer self-assembly of graphene nanoplatelets. 2009, 25, 6122-8 Tuning the electronic structure of graphene by an organic molecule. 2009, 113, 2-5 Improving gas sensing properties of graphene by introducing dopants and defects: a first-principles study. 2009, 20, 185504 Palladium nanoparticles on graphite oxide and its functionalized graphene derivatives as highly	921 44 248 207 732

1928	Covalent polymer functionalization of graphene nanosheets and mechanical properties of composites. 2009 , 19, 7098	1107
1927	Graphene-based composite thin films for electronics. 2009 , 9, 814-8	576
1926	Fabrication of Graphene/Polyaniline Composite Paper via In Situ Anodic Electropolymerization for High-Performance Flexible Electrode. 2009 , 3, 1745-52	1355
1925	Electronics and magnetism of patterned graphene nanoroads. 2009 , 9, 1540-3	223
1924	Structural peculiarities of carbon nanolayers prepared by deposition from a gaseous phase on Ni. 2009 , 51, 1054-1059	4
1923	Emerging nanodevice paradigm. 2009 , 5, 1-19	5
1922	A Method for Fabrication of Graphene Oxide Nanoribbons from Graphene Oxide Wrinkles. 2009 , 113, 19119-19122	48
1921	Conductance enhancement in nanographene-gold junctions by molecular pi-stacking. 2009 , 131, 14857-67	24
1920	Dynamics of graphene growth on a metal surface: a time-dependent photoemission study. 2009 , 11, 073050	160
1919	Tellurium Nanowire-Induced Room Temperature Conversion of Graphite Oxide to Leaf-like Graphenic Structures. 2009 , 113, 1727-1737	71
1918	A Combined Experimental and Theoretical Investigation of Atomic-Scale Defects Produced on Graphite Surfaces by Dielectric Barrier Discharge Plasma Treatment. 2009 , 113, 18719-18729	11
1917	Confinement of Functionalized Graphene Sheets by Triblock Copolymers. 2009 , 113, 17973-17978	34
1916	Toxicological properties of nanoparticles of organic compounds (NOC) from flames and vehicle exhausts. 2009 , 43, 2608-13	27
1915	High-quality Graphenes via a facile quenching method for field-effect transistors. 2009 , 9, 1374-7	80
1914	A simple route to enhance the interface between graphite oxide nanoplatelets and a semi-crystalline polymer for stress transfer. 2009 , 20, 315708	80
1913	Flicker Noise in Bilayer Graphene Transistors. 2009 , 30, 288-290	97
1912	Dielectrophoretic assembly of high-density arrays of individual graphene devices for rapid screening. 2009 , 3, 1729-34	69
1911	Facile preparation and thermal degradation studies of graphite nanoplatelets (GNPs) filled thermoplastic polyurethane (TPU) nanocomposites. 2009 , 40, 1506-1513	192

1910	Elastic buckling of single-layered graphene sheet. 2009 , 45, 266-270	111
1909	Modification of graphite oxide nanoparticles prepared via electrochemically oxidizing method. 2009 , 159, 1505-1507	9
1908	Langmuir-Blodgett assembly of graphite oxide single layers. 2009 , 131, 1043-9	1489
1907	Synthesis of graphene sheets with high electrical conductivity and good thermal stability by hydrogen arc discharge exfoliation. 2009 , 3, 411-7	702
1906	Hydrothermal Dehydration for the Green Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. 2009 , 21, 2950-2956	1285
1905	Covalent functionalization of polydisperse chemically-converted graphene sheets with amine-terminated ionic liquid. 2009 , 3880-2	561
1904	Synthesis of poly(vinyl alcohol)/reduced graphite oxide nanocomposites with improved thermal and electrical properties. 2009 , 19, 5027	257
1903	Mechanochemical Exfoliation of Graphite and Its Polyvinyl Alcohol Nanocomposites with Enhanced Barrier Properties. 2009 , 24, 1053-1057	31
1902	Carbon Nanotube Reinforced Conductors for Flexible Electronics. 2009 , 5, 232-235	7
1901	Electronic, structural, and transport properties of Ni-doped graphene nanoribbons. 2009 , 79,	130
1900	Electrical conductivity of graphene films with a poly(allylamine hydrochloride) supporting layer. 2009 , 25, 11008-13	50
1899	Vibration analysis of nano-single-layered graphene sheets embedded in elastic medium based on nonlocal elasticity theory. 2009 , 105, 064319	130
1898	Mechanically Assisted Exfoliation and Functionalization of Thermally Converted Graphene Sheets. 2009 , 21, 3045-3047	79
1897	Graphene, the new nanocarbon. 2009 , 19, 2457	584
1896	Comparison of frictional forces on graphene and graphite. 2009 , 20, 325701	141
1895	Layer-by-layer assembly of graphene and gold nanoparticles by vacuum filtration and spontaneous reduction of gold ions. 2009 , 2174-6	372
1894	Revisiting the chemistry of graphite oxides and its effect on ammonia adsorption. 2009 , 19, 9176	215
1893	Electrical conduction mechanism in chemically derived graphene monolayers. 2009 , 9, 1787-92	293

1892	composite. 2009 , 20, 085712	178
1891	Ultraviolet Raman microscopy of single and multilayer graphene. 2009 , 106, 043509	195
1890	Simple method for the covalent immobilization of graphene. 2009 , 9, 3375-8	104
1889	Electronic structures of zigzag graphene nanoribbons with edge hydrogenation and oxidation. 2009 , 79,	216
1888	The importance of edge effects on the intrinsic loss mechanisms of graphene nanoresonators. 2009 , 9, 969-74	83
1887	Surface and interference coenhanced Raman scattering of graphene. 2009 , 3, 933-9	81
1886	High throughput exfoliation of graphene oxide from expanded graphite with assistance of strong oxidant in modified Hummers method. 2009 , 188, 012051	50
1885	Covalent functionalization of chemically converted graphene sheets via silane and its reinforcement. 2009 , 19, 4632	633
1884	Intrinsic half-metallicity in modified graphene nanoribbons. 2009 , 102, 096601	365
1883	Preparation of graphene dispersions and graphene-polymer composites in organic media. 2009 , 19, 3591	276
1882	An electrical method for the measurement of the thermal and electrical conductivity of reduced graphene oxide nanostructures. 2009 , 20, 405704	113
1881	Microwave synthesis of graphene sheets supporting metal nanocrystals in aqueous and organic media. 2009 , 19, 3832	459
1880	Synthesis and Characterization of Titania@raphene Nanocomposites. 2009, 113, 19812-19823	351
1879	Plasma Fluorination of Chemically Derived Graphene Sheets and Subsequent Modification With Butylamine. 2009 , 21, 3433-3438	135
1878	Controlled assembly of gold nanoparticles and graphene oxide sheets on dip pen nanolithography-generated templates. 2009 , 25, 10455-8	52
1877	Direct Electrochemical Reduction of Single-Layer Graphene Oxide and Subsequent Functionalization with Glucose Oxidase. 2009 , 113, 14071-14075	583
1876	Density functional theory study of graphite oxide for different oxidation levels. 2009, 79,	205
1875	Atomic force and scanning tunneling microscopy imaging of graphene nanosheets derived from graphite oxide. 2009 , 25, 5957-68	<i>575</i>

1874	Polymeric Modification of Graphene through Esterification of Graphite Oxide and Poly(vinyl alcohol). 2009 , 42, 6331-6334	458
1873	Solution phase production of graphene with controlled thickness via density differentiation. 2009 , 9, 4031-6	643
1872	Implantation and growth of dendritic gold nanostructures on graphene derivatives: electrical property tailoring and Raman enhancement. 2009 , 3, 2358-66	331
1871	Continuum percolation of polydisperse nanofillers. 2009 , 103, 225704	89
1870	Large-Area Chemically Modified Graphene Films: Electrophoretic Deposition and Characterization by Soft X-ray Absorption Spectroscopy. 2009 , 21, 3905-3916	237
1869	Effective elastic mechanical properties of single layer graphene sheets. 2009 , 20, 065709	383
1868	Aqueous Dispersion of Graphene Sheets Stabilized by Pluronic Copolymers: Formation of Supramolecular Hydrogel. 2009 , 113, 13651-13657	378
1867	In Situ Synthesis of Metal Nanoparticles on Single-Layer Graphene Oxide and Reduced Graphene Oxide Surfaces. 2009 , 113, 10842-10846	650
1866	A computational study of tunneling-percolation electrical transport in graphene-based nanocomposites. 2009 , 95, 213103	71
1865	Epoxide reduction with hydrazine on graphene: a first principles study. 2009 , 131, 064704	131
1864	Enhanced thermal conductivity of polymer composites filled with three-dimensional brushlike AlN nanowhiskers. 2009 , 95, 224104	82
1863	Edge elastic properties of defect-free single-layer graphene sheets. 2009 , 94, 101904	102
1862	The synthesis of perylene-coated graphene sheets decorated with Au nanoparticles and its electrocatalysis toward oxygen reduction. 2009 , 19, 4022	137
1861	High-yield dielectrophoretic assembly of two-dimensional graphene nanostructures. 2009 , 94, 053110	33
1860	Buckling resistant graphene nanocomposites. 2009 , 95, 223103	188
1859	Convenient preparation of tunably loaded chemically converted graphene oxide/epoxy resin nanocomposites from graphene oxide sheets through two-phase extraction. 2009 , 19, 8856	150
1858	How graphene is cut upon oxidation?. 2009 , 131, 6320-1	289
1857	Defect-mediated half-metal behavior in zigzag graphene nanoribbons. 2009 , 80,	49

1856	Investigating the graphitization mechanism of SiO(2) nanoparticles in chemical vapor deposition. 2009 , 3, 4098-104	81
1855	AunPtn clusters adsorbed on graphene studied by first-principles calculations. 2009, 80,	65
1854	NONLINEAR MECHANICS OF SINGLE-ATOMIC-LAYER GRAPHENE SHEETS. 2009 , 01, 443-467	206
1853	Real-time study of graphene's phase transition in polymer matrices. 2009 , 9, 2129-32	47
1852	Li Storage Properties of Disordered Graphene Nanosheets. 2009 , 21, 3136-3142	879
1851	Oxidation states of graphene: insights from computational spectroscopy. 2009 , 131, 244505	84
1850	Wettability and surface free energy of graphene films. 2009 , 25, 11078-81	782
1849	Versatile Catalytic System for the Large-Scale and Controlled Synthesis of Single-Wall, Double-Wall, Multi-Wall, and Graphene Carbon Nanostructures. 2009 , 21, 5491-5498	24
1848	A quantitative assessment of carbon nanotube dispersion in polymer matrices. 2009 , 20, 325708	57
1847	Nano-indentation studies on polymer matrix composites reinforced by few-layer graphene. 2009 , 20, 125705	330
1846	The use of nanometer-sized hydrographene species for support material for fuel cell electrode catalysts: a theoretical proposal. 2009 , 11, 8275-84	70
1845	Hierarchically structured carbon nanocomposites as electrode materials for electrochemical energy storage, conversion and biosensor systems. 2009 , 19, 8707	73
1844	Chemically induced folding of single and bilayer graphene. 2009 , 6285-7	24
1843	Barrier-free substitutional doping of graphene sheets with boron atoms: Ab initio calculations. 2009 , 79,	57
1842	Emulsion Polymerization: A New Approach to Prepare Graphite Oxide Coated with Polyaniline. 2009 , 48, 226-237	18
1841	Direct electrochemistry of glucose oxidase and biosensing for glucose based on graphene. 2009 , 81, 2378-82	1165
1840	Processing of graphene for electrochemical application: noncovalently functionalize graphene sheets with water-soluble electroactive methylene green. 2009 , 25, 12006-10	207
1839	Water-soluble graphene covalently functionalized by biocompatible poly-L-lysine. 2009 , 25, 12030-3	575

1838	Graphene Oxide Sheets Chemically Cross-Linked by Polyallylamine. 2009 , 113, 15801-15804	447
1837	Ab Initio Study of Carboxylated Graphene. 2009 , 113, 12970-12975	61
1836	Photocatalytic Reduction of Graphene Oxide Nanosheets on TiO2 Thin Film for Photoinactivation of Bacteria in Solar Light Irradiation. 2009 , 113, 20214-20220	798
1835	Pressure-induced insertion of liquid alcohols into graphite oxide structure. 2009 , 131, 18445-9	66
1834	Graphene sheets from worm-like exfoliated graphite. 2009 , 19, 3367	173
1833	Chemically converted graphene induced molecular flattening of 5,10,15,20-tetrakis(1-methyl-4-pyridinio)porphyrin and its application for optical detection of cadmium(II) ions. 2009 , 131, 13490-7	455
1832	Electrochemical Reduction of Oriented Graphene Oxide Films: An in Situ Raman Spectroelectrochemical Study. 2009 , 113, 7985-7989	489
1831	In situ synthesis of graphene oxide and its composites with iron oxide. 2009 , 24, 147-152	110
1830	Preparation of Highly Conductive Polypyrrole/Graphite Oxide Composites via in situ Polymerization. 2009 , 48, 1093-1102	31
1829	Coassembly of graphene oxide and nanowires for large-area nanowire alignment. 2009 , 131, 5851-7	180
1828	Stable Nafion-functionalized graphene dispersions for transparent conducting films. 2009 , 20, 465605	58
1827	Polymer functionalization and solubilization of carbon nanosheets. 2009 , 2565-7	173
1826	Low-temperature exfoliated graphenes: vacuum-promoted exfoliation and electrochemical energy storage. 2009 , 3, 3730-6	633
1825	Infrared-Triggered Actuators from Graphene-Based Nanocomposites. 2009 , 113, 9921-9927	318
1824	High yield preparation of macroscopic graphene oxide membranes. 2009 , 131, 898-9	599
1823	Photochemical reactivity of graphene. 2009 , 131, 17099-101	308
1822	Covalent Functionalization of Surfactant-Wrapped Graphene Nanoribbons. 2009 , 21, 5284-5291	125
1821	Electrical and Spectroscopic Characterizations of Ultra-Large Reduced Graphene Oxide Monolayers. 2009 , 21, 5674-5680	425

1820 Nonlinear optical properties of graphene oxide in nanosecond and picosecond regimes. 2009 , 94, 021902	260
1819 Modification of graphene properties due to electron-beam irradiation. 2009 , 94, 013101	359
Phonon thermal conduction in graphene: Role of Umklapp and edge roughness scattering. 2009 , 79,	740
$_{f 1}817$ Flash reduction and patterning of graphite oxide and its polymer composite. 2009 , 131, 11027-32	743
1816 Boron and Boron Carbide Materials: Nanostructures and Crystalline Solids. 2009 , 271-291	1
1815 Spontaneous formation of nanostructures in graphene. 2009 , 9, 3599-602	54
1814 The rise of graphene. 2009 , 11-19	340
Polymer nanocomposites reinforced with carbonaceous nanofillers and their piezoresistive behavior. 2010 , 404-430	
Achievements and challenges in the delivery of bioactive molecules by nano-carbon-based systems. 2010 , 1, 267	1
$_{f 1}8$ 11 Coulombic Dragging and Mechanical Propelling of Molecules in Nanofluidic Systems. 2010 , 117-149	
1810 Carbon, 7. Fullerenes and Carbon Nanomaterials. 2010 ,	
1809 Photoreduction of Graphene Oxide Nanosheet by UV-light Illumination under H2. 2010 , 39, 750-752	22
1808 Horizons in the development of polymer engineering materials. 2010 , 52, 875-883	6
$_{ m 1807}$ Ultrashort optical pulses in carbon nanotubes and graphene with periodic impurities. 2010 , 52, 1780-1786	6
Absolute negative conductivity in graphene with the Hubbard interaction in a magnetic field. 2010 , 52, 1952-1956	4
$_{1805}$ Anomalous behavior of dielectric permittivity of graphene-filled polymer composite. 2010 , 36, 1115-1117	9
Amplification of electromagnetic pulses in graphene with Hubbard interaction by a uniform high-frequency alternating field. 2010 , 4, 709-714	
1803 A graphene-enhanced molecular beacon for homogeneous DNA detection. 2010 , 2, 1021-6	206

1802	Graphene fluorescence resonance energy transfer aptasensor for the thrombin detection. 2010 , 82, 2341-6	803
1801	Fluorescence resonance energy transfer between quantum dots and graphene oxide for sensing biomolecules. 2010 , 82, 5511-7	694
1800	Synthesis of phase transferable graphene sheets using ionic liquid polymers. 2010 , 4, 1612-8	208
1799	Stable dispersions of reduced graphene oxide in ionic liquids. 2010 , 20, 5401	103
1798	Graphene synthesis via hydrogen induced low temperature exfoliation of graphite oxide. 2010 , 20, 8467	283
1797	Preparation of graphene by exfoliation of graphite using wet ball milling. 2010, 20, 5817	400
1796	TiO2-graphene nanocomposites for gas-phase photocatalytic degradation of volatile aromatic pollutant: is TiO2-graphene truly different from other TiO2-carbon composite materials?. 2010 , 4, 7303-14	1455
1795	Reduced graphene oxide by chemical graphitization. 2010 , 1, 73	1645
1794	Graphene-based materials in electrochemistry. 2010 , 39, 3157-80	1200
1793	The chemistry of graphene oxide. 2010 , 39, 228-40	8747
1792	To What Extent Do Graphene Scaffolds Improve the Photovoltaic and Photocatalytic Response of TiO2 Nanostructured Films?. 2010 , 1, 2222-2227	351
1791	Carbon nanotube thin films: fabrication, properties, and applications. 2010 , 110, 5790-844	786
1790	The chemistry of graphene. 2010 , 20, 2277	1222
1789	Graphene-Based Nanoarchitectures. Anchoring Semiconductor and Metal Nanoparticles on a Two-Dimensional Carbon Support. 2010 , 1, 520-527	895
1788	Direct determination of the crystallographic orientation of graphene edges by atomic resolution imaging. 2010 , 97, 053110	63
1787	Thin Film Fabrication and Simultaneous Anodic Reduction of Deposited Graphene Oxide Platelets by Electrophoretic Deposition. 2010 , 1, 1259-1263	388
1786	Graphene/Polyaniline Nanofiber Composites as Supercapacitor Electrodes. 2010 , 22, 1392-1401	1884
1785	Hydrazine and Thermal Reduction of Graphene Oxide: Reaction Mechanisms, Product Structures, and Reaction Design. 2010 , 114, 832-842	883

1784	Reduced graphene oxide and porphyrin. An interactive affair in 2-D. 2010 , 4, 6697-706	177
1783	Fabrication of graphene flakes composed of multi-layer graphene sheets using a thermal plasma jet system. 2010 , 21, 095601	28
1782	Fabrication of free-standing, electrochemically active, and biocompatible graphene oxide-polyaniline and graphene-polyaniline hybrid papers. 2010 , 2, 2521-9	429
1781	Highly conductive multifunctional graphene polycarbonate nanocomposites. 2010 , 4, 7211-20	276
1780	Fabrication, mechanical properties, and biocompatibility of graphene-reinforced chitosan composites. 2010 , 11, 2345-51	479
1779	Pressure-Induced Insertion of Liquid Acetone into the Graphite Oxide Structure. 2010 , 114, 7004-7006	21
1778	Anchoring semiconductor and metal nanoparticles on a two-dimensional catalyst mat. Storing and shuttling electrons with reduced graphene oxide. 2010 , 10, 577-83	937
1777	Toward a universal "adhesive nanosheet" for the assembly of multiple nanoparticles based on a protein-induced reduction/decoration of graphene oxide. 2010 , 132, 7279-81	726
1776	Enhanced Mechanical Properties of Graphene-Based Poly(vinyl alcohol) Composites. 2010, 43, 2357-2363	1173
1775	Organic functionalisation of graphenes. 2010 , 46, 1766-8	235
1775 1774	Organic functionalisation of graphenes. 2010, 46, 1766-8 Functionalized graphene and graphene oxide solution via polyacrylate coating. 2010, 2, 2777-82	235
1774		
1774	Functionalized graphene and graphene oxide solution via polyacrylate coating. 2010 , 2, 2777-82	62
1774 1773	Functionalized graphene and graphene oxide solution via polyacrylate coating. 2010 , 2, 2777-82 Graphene/Polymer Nanocomposites. 2010 , 43, 6515-6530 Cytotoxicity effects of graphene and single-wall carbon nanotubes in neural	62 2683
1774 1773 1772	Functionalized graphene and graphene oxide solution via polyacrylate coating. 2010, 2, 2777-82 Graphene/Polymer Nanocomposites. 2010, 43, 6515-6530 Cytotoxicity effects of graphene and single-wall carbon nanotubes in neural phaeochromocytoma-derived PC12 cells. 2010, 4, 3181-6	62 2683 921
1774 1773 1772 1771	Functionalized graphene and graphene oxide solution via polyacrylate coating. 2010, 2, 2777-82 Graphene/Polymer Nanocomposites. 2010, 43, 6515-6530 Cytotoxicity effects of graphene and single-wall carbon nanotubes in neural phaeochromocytoma-derived PC12 cells. 2010, 4, 3181-6 Graphene-based antibacterial paper. 2010, 4, 4317-23 pH-Sensitive Highly Dispersed Reduced Graphene Oxide Solution Using Lysozyme via an in Situ	62 2683 921 1540
1774 1773 1772 1771 1770	Functionalized graphene and graphene oxide solution via polyacrylate coating. 2010, 2, 2777-82 Graphene/Polymer Nanocomposites. 2010, 43, 6515-6530 Cytotoxicity effects of graphene and single-wall carbon nanotubes in neural phaeochromocytoma-derived PC12 cells. 2010, 4, 3181-6 Graphene-based antibacterial paper. 2010, 4, 4317-23 pH-Sensitive Highly Dispersed Reduced Graphene Oxide Solution Using Lysozyme via an in Situ Reduction Method. 2010, 114, 22085-22091	62 2683 921 1540 79

1766	Micromechanics prediction of the effective elastic moduli of graphene sheet-reinforced polymer nanocomposites. 2010 , 18, 045005	117
1765	Water-dispersible magnetite-reduced graphene oxide composites for arsenic removal. 2010 , 4, 3979-86	1672
1764	Preparation and properties of graphene nanosheetspolystyrene nanocomposites via in situ emulsion polymerization. 2010 , 484, 247-253	349
1763	Electrochemical co-reduction synthesis of graphene/Au nanocomposites in ionic liquid and their electrochemical activity. 2010 , 499, 250-253	74
1762	Density functional theory calculations and molecular dynamics simulations of the adsorption of biomolecules on graphene surfaces. 2010 , 31, 1007-16	137
1761	Graphene/AuNPs/chitosan nanocomposites film for glucose biosensing. 2010 , 25, 1070-4	666
1760	Electrochemical determination of NADH and ethanol based on ionic liquid-functionalized graphene. 2010 , 25, 1504-8	262
1759	Highly sensitive electrocatalytic biosensing of hypoxanthine based on functionalization of graphene sheets with water-soluble conducting graft copolymer. 2010 , 26, 371-6	96
1758	Fabrication and application of a novel plant hormone sensor for the determination of methyl jasmonate based on self-assembling of phosphotungstic acidgraphene oxide nanohybrid on graphite electrode. 2010 , 151, 8-14	46
1757	PMo12-functionalized Graphene nanosheet-supported PtRu nanocatalysts for methanol electro-oxidation. 2010 , 14, 2267-2274	35
1756	A novel hydrazine electrochemical sensor based on the high specific surface area graphene. 2010 , 169, 1-6	134
1755	Palladium nanoparticle-graphene hybrids as active catalysts for the Suzuki reaction. 2010 , 3, 429-437	261
1754	Configuration-sensitive molecular sensing on doped graphene sheets. 2010 , 3, 472-480	7
1753	Efficient and large-scale synthesis of few-layered graphene using an arc-discharge method and conductivity studies of the resulting films. 2010 , 3, 661-669	233
1752	SnO2/graphene composite with high lithium storage capability for lithium rechargeable batteries. 2010 , 3, 813-821	171
1751	Facile synthesis and application of Ag-chemically converted graphene nanocomposite. 2010 , 3, 339-349	372
1750	Water-borne graphene-derived conductive SBR prepared by latex heterocoagulation. 2010 , 18, 558-565	44
1749	Facile preparation and characterization of graphene nanosheets/polystyrene composites. 2010 , 18, 1008-1012	225

1748	Carbon nanotube transistors with graphene oxide films as gate dielectrics. 2010 , 53, 828-833	19
1747	Modeling of Thermal Conductivity of Graphite Nanosheet Composites. 2010 , 39, 268-272	63
1746	Electrical Conductivity of Graphene Composites with In and In-Ga Alloy. 2010 , 39, 1268-1276	22
1745	Edge-Functionalization of Pyrene as a Miniature Graphene via Friedel-Crafts Acylation Reaction in Poly(Phosphoric Acid). 2010 , 5, 1686-91	13
1744	Highly Efficient Method for Preparing Homogeneous and Stable Colloids Containing Graphene Oxide. 2011 , 6, 47	36
1743	In Situ Synthesis of Reduced Graphene Oxide and Gold Nanocomposites for Nanoelectronics and Biosensing. 2011 , 6, 60	74
1742	Alternating field-induced phase transition in zigzag carbon nanotubes. 2010 , 31, 415-420	
1741	The anisotropy of ac conductivity and dielectric constant of anisotropic conductor[hsulator composites. 2010 , 45, 2843-2851	1
1740	Probing mechanical properties of graphene with Raman spectroscopy. 2010 , 45, 5135-5149	167
1739	Effect of chemical modification of graphite nanoplatelets on electrochemical performance of MnO2 electrodes. 2010 , 21, 619-624	7
1738	CurrentNoltage Characteristics of Graphane p-n Junctions. 2010 , 57, 209-214	27
1737	Preparation and characterization of nylon 6/graphite composite. 2010 , 120, 167-171	28
1736	Electrical and electrochemical properties of poly(2,5-dimercapto-1,3,4-thiadiazole)-polyaniline adduct intercalated graphite oxide composites. 2010 , 122, 224-229	12
1735	In situ synthesis of SnO2/graphene nanocomposite and their application as anode material for lithium ion battery. 2010 , 64, 2076-2079	133
1734	An electrically conducting polymer/graphene composite with a very low percolation threshold. 2010 , 64, 2226-2229	242
1733	Few layers of graphene as transparent electrode from botanical derivative camphor. 2010 , 64, 2180-2183	49
1732	Synergistic effect on electrical conductivity of few-layer graphene/multi-walled carbon nanotube paper. 2010 , 64, 2513-2516	51
1731	Kinetics of atomic ordering in metal-doped graphene. 2010 , 12, 204-209	18

1730	Good electrical and mechanical properties induced by the multilayer graphene oxide sheets incorporated to amorphous carbon films. 2010 , 12, 1183-1187	18
1729	An Effective Method for Bulk Obtaining Graphene Oxide Solids. 2010 , 28, 1935-1940	22
1728	The route to functional graphene oxide. 2010 , 11, 2131-9	262
1727	Flexible magnetic nanoparticles-reduced graphene oxide composite membranes formed by self-assembly in solution. 2010 , 11, 2432-7	50
1726	Fabrication of cobalt and cobalt oxide/graphene composites: towards high-performance anode materials for lithium ion batteries. 2010 , 3, 236-9	276
1725	Composites of molecular-anchored graphene and nanotubes with multitubular structure: a new type of carbon electrode. 2010 , 3, 261-5	18
1724	Thinnest two-dimensional nanomaterial-graphene for solar energy. 2010 , 3, 782-96	185
1723	Direct Electrochemistry and Electrocatalysis of Myoglobin Immobilized on Graphene-CTAB-Ionic Liquid Nanocomposite Film. 2010 , 22, 2297-2302	16
1722	Electrochemiluminescence Biosensor for Glucose Based on Graphene/Nafion/GOD Film Modified Glassy Carbon Electrode. 2010 , 22, 2347-2352	50
1721	Graphene Nanosheets Modified Glassy Carbon Electrode as a Highly Sensitive and Selective Voltammetric Sensor for Rutin. 2010 , 22, 2399-2406	40
1720	Comparative Studies on Electrocatalytic Activities of Chemically Reduced Graphene Oxide and Electrochemically Reduced Graphene Oxide Noncovalently Functionalized with Poly(methylene blue). 2010 , 22, 2862-2870	17
1719	A Graphene Nanoprobe for Rapid, Sensitive, and Multicolor Fluorescent DNA Analysis. 2010 , 20, 453-459	1234
1718	Graphene B olymer Nanofiber Membrane for Ultrafast Photonics. 2010 , 20, 782-791	382
1717	Compact and Light Supercapacitor Electrodes from a Surface-Only Solid by Opened Carbon Nanotubes with 2 200 m2 gll Surface Area. 2010 , 20, 422-428	127
1716	Graphene-Based Nanoporous Materials Assembled by Mediation of Polyoxometalate Nanoparticles. 2010 , 20, 2717-2722	169
1715	Graphite Oxide as a Photocatalyst for Hydrogen Production from Water. 2010 , 20, 2255-2262	663
1714	Electrical Percolation Behavior in Silver Nanowire Polystyrene Composites: Simulation and Experiment. 2010 , 20, 2709-2716	147
1713	Self-Assembled GrapheneEnzyme Hierarchical Nanostructures for Electrochemical Biosensing. 2010 , 20, 3366-3372	242

1712	FeCl3-Based Few-Layer Graphene Intercalation Compounds: Single Linear Dispersion Electronic Band Structure and Strong Charge Transfer Doping. 2010 , 20, 3504-3509	138
1711	High-Nanofiller-Content Graphene Oxide P olymer Nanocomposites via Vacuum-Assisted Self-Assembly. 2010 , 20, 3322-3329	434
1710	A Graphene OxideBtreptavidin Complex for Biorecognition Dowards Affinity Purification. 2010 , 20, 2857-2865	61
1709	Photothermal deoxygenation of graphene oxide for patterning and distributed ignition applications. 2010 , 22, 419-23	144
1708	Stenciling graphene, carbon nanotubes, and fullerenes using elastomeric lift-off membranes. 2010 , 22, 897-901	18
1707	Electrochemical synthesis of CdSe quantum-dot arrays on a graphene basal plane using mesoporous silica thin-film templates. 2010 , 22, 515-8	123
1706	Aqueous-processable noncovalent chemically converted graphene-quantum dot composites for flexible and transparent optoelectronic films. 2010 , 22, 638-42	277
1705	Versatile carbon hybrid films composed of vertical carbon nanotubes grown on mechanically compliant graphene films. 2010 , 22, 1247-52	282
1704	Peptide/graphene hybrid assembly into core/shell nanowires. 2010 , 22, 2060-4	230
1703	Conjugated-polymer-functionalized graphene oxide: synthesis and nonvolatile rewritable memory effect. 2010 , 22, 1731-5	359
1702	Chemically derived graphene oxide: towards large-area thin-film electronics and optoelectronics. 2010 , 22, 2392-415	1818
1701	Superhydrophobic to superhydrophilic wetting control in graphene films. 2010 , 22, 2151-4	321
1700	Graphene oxide: intrinsic peroxidase catalytic activity and its application to glucose detection. 2010 , 22, 2206-10	1592
1699	Graphene oxide: surface activity and two-dimensional assembly. 2010 , 22, 1954-8	537
1698	Interfacial stress transfer in a graphene monolayer nanocomposite. 2010 , 22, 2694-7	465
1697	Crumpled graphene nanosheets as highly effective barrier property enhancers. 2010 , 22, 4759-63	374
1696	A three-dimensional carbon nanotube/graphene sandwich and its application as electrode in supercapacitors. 2010 , 22, 3723-8	1092
1695	Graphene and graphene oxide: synthesis, properties, and applications. 2010 , 22, 3906-24	7620

1694	Thin film field-effect phototransistors from bandgap-tunable, solution-processed, few-layer reduced graphene oxide films. 2010 , 22, 4872-6	196
1693	Extrinsic corrugation-assisted mechanical exfoliation of monolayer graphene. 2010 , 22, 5374-7	52
1692	High-gain graphene-titanium oxide photoconductor made from inkjet printable ionic solution. 2010 , 22, 5265-70	126
1691	Noncovalent functionalization, exfoliation, and solubilization of graphene in water by employing a fluorescent coronene carboxylate. 2010 , 16, 2700-4	214
1690	Sonication-assisted fabrication and post-synthetic modifications of graphene-like materials. 2010 , 16, 5246-59	115
1689	Graphene-Based Nanosheets with a Sandwich Structure. 2010 , 122, 4905-4909	55
1688	Three-Dimensional Self-Assembly of Graphene Oxide Platelets into Mechanically Flexible Macroporous Carbon Films. 2010 , 122, 10282-10286	84
1687	Graphene-based nanosheets with a sandwich structure. 2010 , 49, 4795-9	434
1686	Three-dimensional self-assembly of graphene oxide platelets into mechanically flexible macroporous carbon films. 2010 , 49, 10084-8	386
1685	Dramatic improvement in mechanical properties of GNs-reinforced HDPE nanocomposites. 2010 , 116, NA-NA	
1684	Preparation and characterization of graphene/poly(vinyl alcohol) nanocomposites. 2010, 118, 275-279	136
1683	Graphene Nanocomposites Prepared From Blends of Polymer Latex with Chemically Reduced Graphite Oxide Dispersions. 2010 , 295, 1107-1115	42
1682	Solvothermal synthesis and characterization of sandwich-like graphene/ZnO nanocomposites. 2010 , 256, 2826-2830	284
1681	Structural, electronic, and magnetic properties of pristine and oxygen-adsorbed graphene nanoribbons. 2010 , 256, 5776-5782	12
1680	Preparation and characterization of graphene/CdS nanocomposites. 2010, 257, 747-751	109
1679	Recent advances in graphene based polymer composites. 2010 , 35, 1350-1375	2609
1678	Covalent synthesis of organophilic chemically functionalized graphene sheets. 2010, 348, 377-83	73
1677	Characteristics of polymers that stabilize colloids for the production of graphene from graphene oxide. 2010 , 349, 63-9	23

16	76	The adsorption properties of Pb(II) and Cd(II) on functionalized graphene prepared by electrolysis method. 2010 , 183, 923-30	311
16;	75	Polymer/graphite oxide composites as high-performance materials for electric double layer capacitors. 2010 , 195, 2414-2418	35
16;	74	Preparation of graphene nanosheet/carbon nanotube/polyaniline composite as electrode material for supercapacitors. 2010 , 195, 3041-3045	498
16	73	Facile solvothermal synthesis of grapheneMnOOH nanocomposites. 2010 , 183, 2552-2557	16
16	72	Temperature-dependent elastic properties of single layer graphene sheets. 2010 , 31, 4445-4449	106
16	71	Small scale effect on the buckling analysis of single-layered graphene sheet embedded in an elastic medium based on nonlocal plate theory. 2010 , 42, 1293-1301	126
16;	70	Production of graphene sheets by a simple helium arc-discharge. 2010 , 42, 1267-1271	34
160	69	The modulation effects on Landau levels in graphene nanoribbon. 2010 , 42, 2804-2807	
160	68	A statistical-thermodynamic analysis of stably ordered substitutional structures in graphene. 2010 , 42, 2047-2054	21
160	67	Simulations of the bending rigidity of graphene. 2010 , 374, 1180-1183	52
160	66	Biodegradable polymer matrix nanocomposites for tissue engineering: A review. 2010 , 95, 2126-2146	719
160	65	Electrically conductive polyethylene terephthalate/graphene nanocomposites prepared by melt compounding. 2010 , 51, 1191-1196	609
160	64	Synthesis and characterization of layer-aligned poly(vinyl alcohol)/graphene nanocomposites. 2010 , 51, 3431-3435	301
160	63	Polypropylene-graphite nanocomposites made by solid-state shear pulverization: Effects of significantly exfoliated, unmodified graphite content on physical, mechanical and electrical properties. 2010 , 51, 5525-5531	83
160	62	Physical and mechanical properties of poly(methyl methacrylate) -functionalized graphene/poly(vinylidine fluoride) nanocomposites: Piezoelectric [polymorph formation. 2010 , 51, 5846-5856	210
160	61	In-situ synthesis and characterization of electrically conductive polypyrrole/graphene nanocomposites. 2010 , 51, 5921-5928	417
160	60	The design of self-collapsed super-strong nanotube bundles. 2010 , 58, 1397-1410	42
16	59	Anisotropic mechanical properties of graphene sheets from molecular dynamics. 2010 , 405, 1301-1306	213

1658	Controlled synthesis of few-layered graphene sheets on a large scale using chemical exfoliation. 2010 , 48, 2367-2371	140
1657	Reduction of functionalized graphite oxides by trioctylphosphine in non-polar organic solvents. 2010 , 48, 2282-2289	102
1656	Dispersion of pristine single-walled carbon nanotubes using pyrene-capped polystyrene and its application for preparation of polystyrene matrix composites. 2010 , 48, 2603-2612	63
1655	The preparation of hybrid films of carbon nanotubes and nano-graphite/graphene with excellent mechanical and electrical properties. 2010 , 48, 2825-2830	94
1654	Scalable production of graphene sheets by mechanical delamination. 2010 , 48, 3196-3204	180
1653	Graphene-based modified electrode for the direct electron transfer of Cytochrome c and biosensing. 2010 , 12, 175-177	228
1652	Constructing a hierarchical graphenedarbon nanotube architecture for enhancing exposure of graphene and electrochemical activity of Pt nanoclusters. 2010 , 12, 1206-1209	73
1651	A novel hydrogen peroxide biosensor based on Augraphene BRP dhitosan biocomposites. 2010 , 55, 3055-3060	329
1650	Rapid microwave-assisted synthesis of graphene nanosheet/Co3O4 composite for supercapacitors. 2010 , 55, 6973-6978	423
1649	The origin of the catalysis of hydrogen peroxide reduction by functionalized graphene surfaces: A density functional theory study. 2010 , 56, 523-530	50
1648	The improved electrocatalytic activity of palladium/graphene nanosheets towards ethanol oxidation by tin oxide. 2010 , 56, 139-144	72
1647	Chemical vapor deposition of large area few layer graphene on Si catalyzed with nickel films. 2010 , 518, S128-S132	60
1646	Solution-processable functionalized graphene in donor/acceptor-type organic photovoltaic cells. 2010 , 94, 1196-1200	70
1645	Improving photovoltaic properties by incorporating both SPFGraphene and functionalized multiwalled carbon nanotubes. 2010 , 94, 2148-2153	38
1644	Effect of single magnetic atom on spin-polarized transport of armchair graphene nanoribbons. 2010 , 150, 1537-1541	3
1643	Density functional theory prediction for oxidation and exfoliation of graphite to graphene. 2010 , 256, 7596-7599	14
1642	Preparation of poly(3-hexylthiophene)/graphene nanocomposite via in situ reduction of modified graphite oxide sheets. 2010 , 257, 138-142	74
1641	Covalent attaching protein to graphene oxide via diimide-activated amidation. 2010 , 81, 434-8	138

1640	Graphene oxide sheet-prussian blue nanocomposites: green synthesis and their extraordinary electrochemical properties. 2010 , 81, 508-12	60
1639	An assessment of the science and technology of carbon nanotube-based fibers and composites. 2010 , 70, 1-19	462
1638	Thermo-mechanical properties of poly(vinylidene fluoride) modified graphite/poly(methyl methacrylate) nano composites. 2010 , 70, 578-583	27
1637	Comparison of the thermal properties between composites reinforced by raw and amino-functionalized carbon materials. 2010 , 70, 2176-2182	75
1636	A novel nitromethane biosensor based on biocompatible conductive redox graphene-chitosan/hemoglobin/graphene/room temperature ionic liquid matrix. 2010 , 26, 991-5	55
1635	Preparation of a graphene oxidephthalocyanine hybrid through strong Interactions. 2010, 48, 211-216	171
1634	Large scale synthesis of N-doped multi-layered graphene sheets by simple arc-discharge method. 2010 , 48, 255-259	363
1633	Preparation of a graphene nanosheet/polyaniline composite with high specific capacitance. 2010 , 48, 487-493	911
1632	The effect of heat treatment on formation of graphene thin films from graphene oxide nanosheets. 2010 , 48, 509-519	453
1631	Transformation of graphene into graphane in the absence of hydrogen. 2010 , 48, 981-986	25
1630	Catalytic performance of Pt nanoparticles on reduced graphene oxide for methanol electro-oxidation. 2010 , 48, 1124-1130	823
1629	Preparation of graphene by the rapid and mild thermal reduction of graphene oxide induced by microwaves. 2010 , 48, 1146-1152	816
1628	Alkyl-functionalized graphene nanosheets with improved lipophilicity. 2010 , 48, 1683-1685	95
1627	An environmentally friendly and efficient route for the reduction of graphene oxide by aluminum powder. 2010 , 48, 1686-1689	492
1626	Thermal and mechanical properties of graphite foam/Woodl alloy composite for thermal energy storage. 2010 , 48, 1689-1692	29
1625	Electrochemical properties of graphene nanosheet/carbon black composites as electrodes for supercapacitors. 2010 , 48, 1731-1737	478
1624	Preparation and electrical properties of graphene nanosheet/Al2O3 composites. 2010 , 48, 1743-1749	283

1622	Production, properties and potential of graphene. 2010 , 48, 2127-2150	1240
1621	Fast and simple fabrication of a large transparent chemically-converted graphene film by spray-coating. 2010 , 48, 1945-1951	271
1620	Microwave assisted exfoliation and reduction of graphite oxide for ultracapacitors. 2010 , 48, 2118-2122	698
1619	Lithographically defined site-selective growth of Fe filled multi-walled carbon nanotubes using a modified photoresist. 2010 , 48, 2371-2375	2
1618	Elastomers filled with exfoliated graphite as compliant electrodes. 2010 , 48, 2409-2417	113
1617	The first graphite intercalation compounds containing tris(pentafluoroethyl)trifluorophosphate. 2010 , 48, 3205-3210	37
1616	Investigation of optical modulated conductance effects based on a graphene oxide\(\text{IZ}\) zobenzene hybrid. 2010 , 48, 3236-3241	106
1615	Graphene oxide as dyestuffs for the creation of electrically conductive fabrics. 2010 , 48, 3340-3345	72
1614	Improvement of mechanical properties of graphene oxide/poly(allylamine) composites by chemical crosslinking. 2010 , 48, 3376-3381	115
1613	Reduction of graphene oxide by electron beam generated plasmas produced in methane/argon mixtures. 2010 , 48, 3382-3390	89
1612	A graphene oxide-based molecularly imprinted polymer platform for detecting endocrine disrupting chemicals. 2010 , 48, 3427-3433	143
1611	Production of graphene from graphite oxide using urea as expansion Eeduction agent. 2010 , 48, 3463-3470	153
1610	Preparation of organically dispersible graphene nanosheet powders through a lyophilization method and their poly(lactic acid) composites. 2010 , 48, 3834-3839	249
1609	Development of stiff, strong, yet tough composites by the addition of solvent exfoliated graphene to polyurethane. 2010 , 48, 4035-4041	249
1608	Graphite oxide as a precursor for the synthesis of disordered graphenes using the aerosol-through-plasma method. 2010 , 48, 4081-4089	46
1607	Effects of functional groups on the mechanical and wrinkling properties of graphene sheets. 2010 , 48, 4315-4322	181
1606	Synthesis of graphene oxide-intercalated hydroxides by metathesis and their decomposition to graphene/metal oxide composites. 2010 , 48, 4343-4350	35
1605	Non-covalent functionalization, solubilization of graphene and single-walled carbon nanotubes with aromatic donor and acceptor molecules. 2010 , 488, 198-201	53

1604	Quantification of thin graphene sheets contained in spherical aggregates of single-walled carbon nanohorns. 2010 , 500, 96-99	15
1603	Metallic-semiconducting phase transition of the edge-oxygenated armchair graphene nanoribbons. 2010 , 501, 64-67	15
1602	Formation of highly stable dispersions of silane-functionalized reduced graphene oxide. 2010 , 501, 68-74	191
1601	Graphene supported electrocatalysts for methanol oxidation. 2010 , 12, 129-131	178
1600	Improved voltammetric peak separation and sensitivity of uric acid and ascorbic acid at nanoplatelets of graphitic oxide. 2010 , 12, 596-599	58
1599	Mn3O4 nanoparticles embedded into graphene nanosheets: Preparation, characterization, and electrochemical properties for supercapacitors. 2010 , 55, 6812-6817	215
1598	Seeing graphene-based sheets. 2010 , 13, 28-38	147
1597	Graded cross-links for stronger nanomaterials. 2010 , 13, 40-43	13
1596	Thermosensitive graphene nanocomposites formed using pyrene-terminal polymers made by RAFT polymerization. 2010 , 48, 425-433	193
1595	Poly(N-vinylcarbazole) chemically modified graphene oxide. 2010 , 48, 2642-2649	83
1594	Polylactide/exfoliated graphite nanocomposites with enhanced thermal stability, mechanical modulus, and electrical conductivity. 2010 , 48, 850-858	244
1593	Tearing graphene sheets from adhesive substrates produces tapered nanoribbons. 2010 , 6, 1108-16	144
1592	Intracellular imaging with a graphene-based fluorescent probe. 2010 , 6, 1686-92	243
1591	Synthesis and superior optical-limiting properties of fluorene-thiophene-benzothiadazole polymer-functionalized graphene sheets. 2010 , 6, 2292-300	45
1590	Oriented arrays of graphene in a polymer matrix by in situ reduction of graphite oxide nanosheets. 2010 , 6, 205-9	128
1589	Flexible, transparent, conducting films of randomly stacked graphene from surfactant-stabilized, oxide-free graphene dispersions. 2010 , 6, 458-64	342
1588	Water-soluble magnetic-functionalized reduced graphene oxide sheets: in situ synthesis and magnetic resonance imaging applications. 2010 , 6, 169-73	323
1587	Fracture and fatigue in graphene nanocomposites. 2010 , 6, 179-83	696

1586	The superior dispersion of easily soluble graphite. 2010 , 6, 58-62	51
1585	Functional graphene oxide as a nanocarrier for controlled loading and targeted delivery of mixed anticancer drugs. 2010 , 6, 537-44	1398
1584	Graphene oxide, highly reduced graphene oxide, and graphene: versatile building blocks for carbon-based materials. 2010 , 6, 711-23	2103
1583	High-concentration solvent exfoliation of graphene. 2010 , 6, 864-71	810
1582	Selective chemical modification of graphene surfaces: distinction between single- and bilayer graphene. 2010 , 6, 1125-30	167
1581	Electrochemically modified graphite nanosheets and their nanocomposite films with poly(vinyl alcohol). 2010 , 31, 1770-1775	30
1580	Amino-functionalization of graphene sheets and the fabrication of their nanocomposites. 2010 , 31, 1987-1994	4 54
1579	Growth of graphene from solid carbon sources. <i>Nature</i> , 2010 , 468, 549-52 50.4	1106
1578	Paramagnetic centers in a gamma-irradiated polymer composite doped with graphene. 2010 , 44, 351-352	3
1577	Amplification of ultimately-short pulses in graphene in the presence of a high-frequency field. 2010 , 108, 618-623	16
1576	Structural evolution during the reduction of chemically derived graphene oxide. 2010 , 2, 581-7	1399
1575	Spontaneous high-concentration dispersions and liquid crystals of graphene. 2010 , 5, 406-11	488
1574	Graphene photonics and optoelectronics. 2010 , 4, 611-622	5678
1573	Stable Aqueous Suspension and Self-Assembly of Graphite Nanoplatelets Coated with Various Polyelectrolytes. 2010 , 2010, 1-11	12
1572	Thermal Conductivity of a Monolayer of Exfoliated Graphite Nanoplatelets Prepared by Liquid-Liquid Interfacial Self-Assembly. 2010 , 2010, 1-6	7
1571	Highly Transparent and Conductive Graphene Electrode. 2010 , 123-125, 113-116	1
1570	Preparation of Bulk13C-Enriched Graphene Materials. 2010 , 2010, 1-5	15
1569	Preparation of Colloidal Dispersions of Graphene Sheets in Organic Solvents by Using Ball Milling. 2010 , 2010, 1-5	37

1568	materials. 2010 , 56, 83-87	2
1567	Patterning of Two-Dimensional Graphene Oxide on Silicon Substrates. 2010 , 49, 06GC02	10
1566	Mechanical Properties of Ni-Coated Single Graphene Sheet and Their Embedded Aluminum Matrix Composites. 2010 , 54, 143-147	14
1565	Green Aluminate Phosphors Used for Information Display. 2010 , 428-429, 421-425	9
1564	Tuning electronic structure of graphene via tailoring structure: Theoretical study. 2010 , 107, 114322	17
1563	Hot carrier diffusion in graphene. 2010 , 82,	63
1562	Fabrication of single-phase tungsten carbide laminae from multi- walled carbon nanotubes using high direct current pulse. 2010 ,	
1561	Voltage-induced incandescent light emission from large-area graphene films. 2010 , 96, 143107	28
1560	Structural and electronic properties of carbon nanocylinder consisting of nanoribbon-walls with arrayed-oxygen hinges. 2010 , 28, C5C8-C5C11	1
1559	Structural, magnetic, and electronic properties of Nin and Fen nanostructures (n=1日) adsorbed on zigzag graphene nanoribbons. 2010 , 81,	41
1558	Modelling permeability behaviour of polymer nanocomposites. 2010 , 431-453	2
1557	A BRIEF REVIEW ON GRAPHENE-NANOPARTICLE COMPOSITES. 2010 , 06, 159-166	19
1556	Adsorption and diffusion of gold adatoms on graphene nanoribbons: An ab initio study. 2010 , 82,	26
1555	Dielectrophoretic integration of single- and few-layer graphenes. 2010 , 107, 034302	21
1554	Solution of the tunneling-percolation problem in the nanocomposite regime. 2010 , 81,	174
1553	Rotation of the linear-polarization plane of transmitted and reflected light by single- and few-layer graphene. 2010 , 82,	6
1552	Calculation of band structure using local sampling and Green⊠ functions. 2010 , 81,	
1551	Space charge limited conduction with exponential trap distribution in reduced graphene oxide sheets. 2010 , 97, 093105	127

1550	Preparation and Characterization of Functionalized Graphene/Linear Low Density Polyethylene Nanocomposites. 2010 , 123-125, 173-176	
1549	Quantum mechanics based force field for carbon (QMFF-Cx) validated to reproduce the mechanical and thermodynamics properties of graphite. 2010 , 133, 134114	16
1548	Synthesis. 2010 , 99-168	
1547	Microstructures of Strontium Aluminates and Polystyrene Phosphorescent Composite Films. 2010 , 428-429, 544-547	6
1546	The Functionalization and Potential Applications of Graphene. 2010,	3
1545	Morphology, Electrical Conductivity of Novel Graphite Nanoplatelets-Carbon Nanotube Hybrid Nanopaper. 2010 ,	
1544	Fabrication of single-phase titanium carbide layers from MWCNTs using high DC pulse. 2010 , 21, 055608	6
1543	Large-diameter graphene nanotubes synthesized using Ni nanowire templates. 2010 , 10, 4844-50	94
1542	Low temperature elastic properties of chemically reduced and CVD-grown graphene thin films. 2010 , 19, 875-878	16
1541	A unique strategy for preparing single-phase unitary/binary oxides-graphene composites. 2010 , 46, 7957-9	59
1540	Electrically conductive and mechanically strong biomimetic chitosan/reduced graphene oxide composite films. 2010 , 20, 9032	211
1539	Electrical and noise characteristics of graphene field-effect transistors: ambient effects, noise sources and physical mechanisms. 2010 , 22, 395302	83
1538	One-step synthesis of superior dispersion of chemically converted graphene in organic solvents. 2010 , 46, 4375-7	141
1537	Polyoxometalate assisted photoreduction of graphene oxide and its nanocomposite formation. 2010 , 46, 6243-5	154
1536	Facile covalent functionalization of graphene oxide using microwaves: bottom-up development of functional graphitic materials. 2010 , 20, 9052	74
1535	Highly concentrated graphene solutions via polymer enhanced solvent exfoliation and iterative solvent exchange. 2010 , 132, 17661-3	215
1534	One Step Synthesis of Graphene OxideMagnetic Nanoparticle Composite. 2010 , 114, 1498-1503	301
1533	Physical Properties of Composites Near Percolation. 2010 , 40, 131-151	698

1532	Alternate Multilayer Films of Poly(vinyl alcohol) and Exfoliated Graphene Oxide Fabricated via a Facial Layer-by-Layer Assembly. 2010 , 43, 9411-9416	184
1531	Structural, chemical, and dynamical trends in graphene grain boundaries. 2010 , 81,	167
1530	Flexible and planar graphene conductive additives for lithium-ion batteries. 2010, 20, 9644	250
1529	Reducing sugar: new functional molecules for the green synthesis of graphene nanosheets. 2010 , 4, 2429-37	1145
1528	Colloidal graphene oxide/polyaniline nanocomposite and its electrorheology. 2010, 46, 5596-8	165
1527	Facile covalent immobilization of cadmium sulfide quantum dots on graphene oxide nanosheets: preparation, characterization, and optical properties. 2010 , 21, 465603	76
1526	Microwave-Reduced Uncapped Metal Nanoparticles on Graphene: Tuning Catalytic, Electrical, and Raman Properties. 2010 , 1, 1853-1860	171
1525	Honeycomb carbon: a review of graphene. 2010 , 110, 132-45	5411
1524	pH-Responsive chitosan-mediated graphene dispersions. 2010 , 26, 16771-4	168
1523	Synthesis of graphene/polyaniline composite nanosheets mediated by polymerized ionic liquid. 2010 , 46, 3663-5	158
1522	Growth of large-area graphene films from metal-carbon melts. 2010 , 108, 094321	109
1521	Monodisperse chemically modified graphene obtained by density gradient ultracentrifugal rate separation. 2010 , 4, 3381-9	176
1520	Self-assembled graphene hydrogel via a one-step hydrothermal process. 2010 , 4, 4324-30	2678
1519	Ternary self-assembly of ordered metal oxide-graphene nanocomposites for electrochemical energy storage. 2010 , 4, 1587-95	731
1518	Cyclodextrin functionalized graphene nanosheets with high supramolecular recognition capability: synthesis and host-guest inclusion for enhanced electrochemical performance. 2010 , 4, 4001-10	543
1517	A graphene sheet exfoliated with microwave irradiation and interlinked by carbon nanotubes for high-performance transparent flexible electrodes. 2010 , 21, 405201	65
1516	Applications of Carbon Nanomaterials as Electrical Interconnects and Thermal Interface Materials. 2010 , 87-138	5
1515	Emerging Methods for Producing Monodisperse Graphene Dispersions. 2010 , 1, 544-549	183

1514	Transferable graphene oxide films with tunable microstructures. 2010 , 4, 7367-72	121
1513	Stable Aqueous Dispersion of Graphene Nanosheets: Noncovalent Functionalization by a Polymeric Reducing Agent and Their Subsequent Decoration with Ag Nanoparticles for Enzymeless Hydrogen Peroxide Detection. 2010 , 43, 10078-10083	345
1512	Tuning the electronic structure and transport properties of graphene by noncovalent functionalization: effects of organic donor, acceptor and metal atoms. 2010 , 21, 065201	104
1511	Experimental investigation on thermal conductivity of nanofluids containing graphene oxide nanosheets. 2010 , 107, 094317	119
1510	Hydrogen bond networks in graphene oxide composite paper: structure and mechanical properties. 2010 , 4, 2300-6	568
1509	Reduced Graphene Oxide/Copper Phthalocyanine Composite and Its Optoelectrical Properties. 2010 , 114, 15129-15135	123
1508	Layer-by-layer self-assembly for constructing a graphene/platinum nanoparticle three-dimensional hybrid nanostructure using ionic liquid as a linker. 2010 , 26, 7614-8	151
1507	Transient photoconductivity and femtosecond nonlinear optical properties of a conjugated polymer-graphene oxide composite. 2010 , 21, 415203	36
1506	Benzonitrile Adsorption on Fe-Doped Carbon Nanostructures. 2010 , 114, 10790-10795	15
1505	Noncovalent functionalization of graphene with end-functional polymers. 2010 , 20, 1907	491
1504	To the Control of the	
-J° - T	Towards free-standing graphene/carbon nanotube composite films via acetylene-assisted thermolysis of organocobalt functionalized graphene sheets. 2010 , 46, 8279-81	83
		83
	thermolysis of organocobalt functionalized graphene sheets. 2010 , 46, 8279-81	
1503	thermolysis of organocobalt functionalized graphene sheets. 2010, 46, 8279-81 Equipment and techniques for carbon nanotube research. 2010, 180, 265 Direct[grafting of linear macromolecular Wedges[to the edge of pristine graphite to prepare	3
1503 1502 1501	thermolysis of organocobalt functionalized graphene sheets. 2010, 46, 8279-81 Equipment and techniques for carbon nanotube research. 2010, 180, 265 Direct[grafting of linear macromolecular Wedges[to the edge of pristine graphite to prepare edge-functionalized graphene-based polymer composites. 2010, 20, 10936 Noncovalent DNA decorations of graphene oxide and reduced graphene oxide toward	3
1503 1502 1501	thermolysis of organocobalt functionalized graphene sheets. 2010, 46, 8279-81 Equipment and techniques for carbon nanotube research. 2010, 180, 265 Direct[grafting of linear macromolecular Wedges[to the edge of pristine graphite to prepare edge-functionalized graphene-based polymer composites. 2010, 20, 10936 Noncovalent DNA decorations of graphene oxide and reduced graphene oxide toward water-soluble metalBarbon hybrid nanostructures via self-assembly. 2010, 20, 900-906	3 37 156
1503 1502 1501 1500	Equipment and techniques for carbon nanotube research. 2010, 180, 265 Directlgrafting of linear macromolecular Wedgeslto the edge of pristine graphite to prepare edge-functionalized graphene-based polymer composites. 2010, 20, 10936 Noncovalent DNA decorations of graphene oxide and reduced graphene oxide toward water-soluble metalliarbon hybrid nanostructures via self-assembly. 2010, 20, 900-906 Modeling of Thermal Conductance at Transverse CNTCINT Interfaces. 2010, 114, 16223-16228 Preparation of SnO2-Nanocrystal/Graphene-Nanosheets Composites and Their Lithium Storage	3 37 156 70

1496	Effect of Chemisorption on the Interfacial Bonding Characteristics of Graphene P olymer Composites. 2010 , 114, 6588-6594	127
1495	Novel Experimental Approach To Evaluate Filler Elastomer Interactions. 2010, 43, 334-346	133
1494	In situ controllable growth of Prussian blue nanocubes on reduced graphene oxide: facile synthesis and their application as enhanced nanoelectrocatalyst for H2O2 reduction. 2010 , 2, 2339-46	207
1493	Dynamic synergy of graphitic nanoplatelets and multi-walled carbon nanotubes in polyetherimide nanocomposites. 2010 , 21, 105702	116
1492	Ultrafast transient absorption microscopy studies of carrier dynamics in epitaxial graphene. 2010 , 10, 1308-13	143
1491	Graphene oxide porous paper from amine-functionalized poly(glycidyl methacrylate)/graphene oxide core-shell microspheres. 2010 , 20, 9200	137
1490	Simultaneous determination of adenine and guanine in DNA based on carboxylic acid functionalized graphene. 2010 ,	7
1489	Large-area graphene on polymer film for flexible and transparent anode in field emission device. 2010 , 96, 203108	156
1488	Non-Annealed Graphene Paper as a Binder-Free Anode for Lithium-Ion Batteries. 2010 , 114, 12800-12804	223
1487	A graphene-based fluorescent nanoprobe for silver(I) ions detection by using graphene oxide and a silver-specific oligonucleotide. 2010 , 46, 2596-8	432
1486	Label-free electrical detection of DNA hybridization using carbon nanotubes and graphene. 2010, 1,	29
1485	Perspectives on the 2010 Nobel Prize in physics for graphene. 2010 , 4, 6297-302	73
1484	Graphene in mice: ultrahigh in vivo tumor uptake and efficient photothermal therapy. 2010 , 10, 3318-23	1977
1483	Electrically Conductive Poly(vinyl alcohol) Hybrid Films Containing Graphene and Layered Double Hydroxide Fabricated via Layer-by-Layer Self-Assembly. 2010 , 2, 2005-2011	111
1482	Use of butylamine modified graphene sheets in polymer solar cells. 2010 , 20, 995-1000	92
1481	Sandwiched graphenemembrane superstructures. 2010 , 4, 229-34	223
1480	Polypropylene/Graphene Oxide Nanocomposites Prepared by In Situ ZieglerNatta Polymerization. 2010 , 22, 4096-4102	245
1479	Isothermal Crystallization of Poly(l-lactide) Induced by Graphene Nanosheets and Carbon Nanotubes: A Comparative Study. 2010 , 43, 5000-5008	283

1478	Flexible, Magnetic, and Electrically Conductive Graphene/Fe3O4 Paper and Its Application for Magnetic-Controlled Switches. 2010 , 114, 17465-17471	162
1477	Stability and Formation Mechanisms of Carbonyl- and Hydroxyl-Decorated Holes in Graphene Oxide. 2010 , 114, 12053-12061	117
1476	Greatly enhanced adsorption and catalytic activity of Au and Pt clusters on defective graphene. 2010 , 132, 194704	132
1475	Reversible fluorination of graphene: Evidence of a two-dimensional wide bandgap semiconductor. 2010 , 81,	334
1474	Supraparamagnetic, conductive, and processable multifunctional graphene nanosheets coated with high-density Fe3O4 nanoparticles. 2010 , 2, 3201-10	354
1473	Recent advance in functionalized graphene/polymer nanocomposites. 2010 , 20, 7906	415
1472	Efficient preparation of large-area graphene oxide sheets for transparent conductive films. 2010 , 4, 5245-52	775
1471	Highly uniform 300 mm wafer-scale deposition of single and multilayered chemically derived graphene thin films. 2010 , 4, 524-8	189
1470	Preparation of covalently functionalized graphene using residual oxygen-containing functional groups. 2010 , 2, 3092-9	324
1469	An asymmetrically surface-modified graphene film electrochemical actuator. 2010 , 4, 6050-4	219
1468	Nanocomposites of size-controlled gold nanoparticles and graphene oxide: formation and applications in SERS and catalysis. 2010 , 2, 2733-8	382
1467	Magnetism in graphene oxide. 2010 , 12, 083040	63
1466	Graphene nanoribbon thin films using layer-by-layer assembly. 2010 , 10, 4356-62	63
1465	Cutting of oxidized graphene into nanosized pieces. 2010 , 132, 10034-41	132
1464	Oxygen vacancy induced structural variations of exfoliated monolayer MnO2 sheets. 2010 , 81,	23
1463	Graphene Oxide-Assisted Dispersion of Pristine Multiwalled Carbon Nanotubes in Aqueous Media. 2010 , 114, 11435-11440	272
1462	Combined role of water and surface chemistry in reactive adsorption of ammonia on graphite oxides. 2010 , 26, 5491-8	38
1461	Structural motifs in oxidized graphene: A genetic algorithm study based on density functional theory. 2010 , 82,	70

1460	Synthesis of nanosheet crystallites of ruthenate with an alpha-NaFeO2-related structure and its electrochemical supercapacitor property. 2010 , 49, 4391-3	85
1459	Growth Kinetics of Wall-Number Controlled Carbon Nanotube Arrays. 2010 , 114, 3454-3458	19
1458	Magnetic and Magnetoresistance Behaviors of Solvent Extracted Particulate Iron/Polyacrylonitrile Nanocomposites. 2010 , 114, 212-219	47
1457	Toward all-carbon electronics: fabrication of graphene-based flexible electronic circuits and memory cards using maskless laser direct writing. 2010 , 2, 3310-7	47
1456	Fabrication and evaluation of solution-processed reduced graphene oxide electrodes for p- and n-channel bottom-contact organic thin-film transistors. 2010 , 4, 6343-52	65
1455	Breaking AB stacking order in graphite oxide: ab initio approach. 2010 , 12, 1595-9	21
1454	Surface energy modification by spin-cast, large-area graphene film for block copolymer lithography. 2010 , 4, 5464-70	122
1453	Non-Aqueous Approach to Synthesize Amorphous/Crystalline Metal Oxide-Graphene Nanosheet Hybrid Composites. 2010 , 114, 18330-18337	70
1452	Measurement of multicomponent solubility parameters for graphene facilitates solvent discovery. 2010 , 26, 3208-13	481
1451	Functionalization of graphene via 1,3-dipolar cycloaddition. 2010 , 4, 3527-33	378
1450	Synthesis, characterization, and multilayer assembly of pH sensitive graphene-polymer nanocomposites. 2010 , 26, 10068-75	183
1449	Ultra-large single-layer graphene obtained from solution chemical reduction and its electrical properties. 2010 , 12, 2164-9	155
1448	Latex-based concept for the preparation of graphene-based polymer nanocomposites. 2010 , 20, 3035	170
1447	Graphene/Polyurethane Nanocomposites for Improved Gas Barrier and Electrical Conductivity. 2010 , 22, 3441-3450	1101
1446	Supercapacitors based on flexible graphene/polyaniline nanofiber composite films. 2010 , 4, 1963-70	1934
1445	A smart pH responsive graphene/polyacrylamide complex via noncovalent interaction. 2010 , 21, 335701	54
1444	Atomic structure of reduced graphene oxide. 2010 , 10, 1144-8	943
1443	Preparation and properties of a graphene reinforced nanocomposite conducting plate. 2010 , 20, 8496	105

1442	Preparation of a stable graphene dispersion with high concentration by ultrasound. 2010 , 114, 10368-73	119
1441	Detailed kinetic Monte Carlo simulations of graphene-edge growth. 2010 , 114, 689-703	106
1440	Graphene oxide thin films for flexible nonvolatile memory applications. 2010 , 10, 4381-6	483
1439	Graphene oxide: a substrate for optimizing preparations of frozen-hydrated samples. 2010 , 170, 152-6	130
1438	One-pot solvothermal syntheses and magnetic properties of graphene-based magnetic nanocomposites. 2010 , 506, 136-140	111
1437	Power from plastic. 2010 , 14, 123-130	28
1436	Multifunctional materials based on graphene-like/sepiolite nanocomposites. 2010, 47, 203-211	54
1435	Nonlocal plate model for nonlinear vibration of single layer graphene sheets in thermal environments. 2010 , 48, 680-685	208
1434	Silicon/graphene core/shell nanowires produced by self-scrolling. 2010 , 49, 588-592	22
1433	Effect of SPFGraphene dopant in MEH B PV organic light-emitting devices. 2010 , 160, 1587-1589	8
1432	Graphene doping of P3HT:PCBM photovoltaic devices. 2010 , 160, 1036-1039	76
1431	Composition and annealing effects in solution-processable functionalized graphene oxide/P3HT based solar cells. 2010 , 160, 2494-2500	28
1430	High-yield exfoliation of three-dimensional graphite into two-dimensional graphene-like sheets. 2010 , 46, 6320-2	97
1429	General Approach to Individually Dispersed, Highly Soluble, and Conductive Graphene Nanosheets Functionalized by Nitrene Chemistry. 2010 , 22, 5054-5064	394
1428	Exfoliation of graphite oxide in propylene carbonate and thermal reduction of the resulting graphene oxide platelets. 2010 , 4, 1227-33	615
1427	Unconventional layer-by-layer assembly of graphene multilayer films for enzyme-based glucose and maltose biosensing. 2010 , 26, 15022-6	164
1426	Gold nanoparticles/L-cysteine/graphene composite based immobilization strategy for an electrochemical immunosensor. 2010 , 2, 1692	30
1425	Graphene oxide modified with PMMA via ATRP as a reinforcement filler. 2010 , 20, 9927	381

1424	Reduction of graphene oxide via L-ascorbic acid. 2010 , 46, 1112-4	1848
1423	Synthesis of graphene aerogel with high electrical conductivity. 2010 , 132, 14067-9	975
1422	Electromagnetic properties of carbon-based nanocomposites: The effect of filler and resin characteristics. 2010 ,	6
1421	Graphene constructed carbon thin films as transparent electrodes for solar cell applications. 2010 , 20, 9713	68
1420	A pH-sensitive graphene oxide composite hydrogel. 2010 , 46, 2376-8	552
1419	A one-step, solvothermal reduction method for producing reduced graphene oxide dispersions in organic solvents. 2010 , 4, 3845-52	509
1418	Incorporation of graphenes in nanostructured TiO(2) films via molecular grafting for dye-sensitized solar cell application. 2010 , 4, 3482-8	431
1417	A scalable, solution-phase processing route to graphene oxide and graphene ultralarge sheets. 2010 , 46, 2611-3	216
1416	A Simple Approach for Preparing Transparent Conductive Graphene Films Using the Controlled Chemical Reduction of Exfoliated Graphene Oxide in an Aqueous Suspension. 2010 , 114, 14433-14440	96
1415	High-concentration, surfactant-stabilized graphene dispersions. 2010 , 4, 3155-62	826
1414	A new approach to fabricate graphene nanosheets in organic medium: combination of reduction and dispersion. 2010 , 20, 1722	205
1413	Effect of graphene oxide on the properties of its composite with polyaniline. 2010 , 2, 821-8	531
1412	Self-healable graphene polymer composites. 2010 , 20, 3508	143
1411	Photocatalytic degradation of dyes over graphene-gold nanocomposites under visible light irradiation. 2010 , 46, 6099-101	480
1410	Ultrafast, dry microwave synthesis of graphene sheets. 2010 , 20, 4781	112
1409	A facile approach to the synthesis of highly electroactive Pt nanoparticles on graphene as an anode catalyst for direct methanol fuel cells. 2010 , 46, 5951-3	283
1408	Two-dimensional carbon nanostructures: Fundamental properties, synthesis, characterization, and potential applications. 2010 , 108, 071301	216
1407	Electrochemical Deposition of Semiconductor Oxides on Reduced Graphene Oxide-Based Flexible, Transparent, and Conductive Electrodes. 2010 , 114, 11816-11821	142

1406	Graphene nanoribbon devices produced by oxidative unzipping of carbon nanotubes. 2010 , 4, 5405-13	111
1405	Pillaring chemically exfoliated graphene oxide with carbon nanotubes for photocatalytic degradation of dyes under visible light irradiation. 2010 , 4, 7030-6	229
	Atomic-scale observation of rotational misorientation in suspended few-layer graphene sheets. 2010 , 2, 700-8	38
1403	Porphyrin Functionalized Graphene Sheets in Aqueous Suspensions: From the Preparation of Graphene Sheets to Highly Conductive Graphene Films. 2010 , 114, 8227-8234	273
1402	Biocompatible graphene oxide-based glucose biosensors. 2010 , 26, 6158-60	592
1401	First principles nuclear magnetic resonance signatures of graphene oxide. 2010 , 133, 034502	45
1400	The bending of single layer graphene sheets: the lattice versus continuum approach. 2010 , 21, 125702	96
	Interface structure and mechanics between graphene and metal substrates: a first-principles study. 2010 , 22, 485301	169
1398	In situ Polymerization Approach to Graphene-Reinforced Nylon-6 Composites. 2010 , 43, 6716-6723	569
1397	Visualizing graphene based sheets by fluorescence quenching microscopy. 2010 , 132, 260-7	461
1396	Hollow graphene oxide spheres self-assembled by W/O emulsion. 2010 , 20, 4867	156
1395	Chemical Reduction of Graphene Oxide to Graphene by Sulfur-Containing Compounds. 2010 , 114, 19885-1989	0413
	Environment-Friendly Method To Produce Graphene That Employs Vitamin C and Amino Acid. 2010 , 22, 2213-2218	621
	Vitamin C Is an Ideal Substitute for Hydrazine in the Reduction of Graphene Oxide Suspensions. 2010 , 114, 6426-6432	1065
1392	Graphene as atomic template and structural scaffold in the synthesis of graphene-organic hybrid wire with photovoltaic properties. 2010 , 4, 6180-6	99
1391	Graphene-Wrapped Fe3O4Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. 2010 , 22, 5306-5313	1660
1390	Dispersion of graphene sheets in ionic liquid [bmim][PF6] stabilized by an ionic liquid polymer. 2010 , 46, 386-8	157
1389	Lower-defect graphene oxide nanoribbons from multiwalled carbon nanotubes. 2010 , 4, 2059-69	488

1388 Mechanical properties of monolayer graphene oxide. 2010 , 4, 6557-64	831
Fabrication of High-Concentration and Stable Aqueous Suspensions of Graphene Nanosheets by Noncovalent Functionalization with Lignin and Cellulose Derivatives. 2010 , 114, 3811-3816	186
Intrinsic buckling strength of graphene: First-principles density functional theory calculations. 2010 , 82,	26
1385 Graphene nanoribbon composites. 2010 , 4, 7415-20	239
1384 Charge transport in dual gated bilayer graphene with Corbino geometry. 2010 , 10, 4521-5	64
$_{13}8_{3}$ Graphene and its one-dimensional patterns: from basic properties towards applications. 2010 , 1, 03300	1 3
1382 Nano-Bio- Electronic, Photonic and MEMS Packaging. 2010 ,	29
1381 Absolute negative conductivity of graphene in the Hubbard model. 2010 , 82, 025704	1
1380 Compression behavior of single-layer graphenes. 2010 , 4, 3131-8	257
First-Principle Study of Hydroxyl Functional Groups on Pristine, Defected Graphene, and Graphene Epoxide. 2010 , 114, 21625-21630	181
1378 From graphene to metal oxide nanolamellas: a phenomenon of morphology transmission. 2010 , 4, 6212	-8 107
1377 Decorating graphene oxide with CuO nanoparticles in a water-isopropanol system. 2010 , 2, 988-94	153
1376 Highly efficient restoration of graphitic structure in graphene oxide using alcohol vapors. 2010 , 4, 5285	.92 227
1375 Surface property change of graphene using nitrogen ion. 2010 , 22, 045005	13
1374 Bound states in the continuum in graphene quantum dot structures. 2010 , 91, 66001	42
1373 Advanced Materials and Technologies for Micro/Nano-Devices, Sensors and Actuators. 2010 ,	5
Stable, conductive supramolecular composite of graphene sheets with conjugated polyelectrolyte. 2010 , 26, 6708-12	109
Rapid Microwave Synthesis of CO Tolerant Reduced Graphene Oxide-Supported Platinum Electrocatalysts for Oxidation of Methanol. 2010 , 114, 19459-19466	360

1370	Graphene/Polyaniline Nanocomposite for Hydrogen Sensing. 2010 , 114, 16168-16173	387
1369	A Theoretical Study on the Catalytic Synergetic Effects of Pt/Graphene Nanocomposites. 2010 , 114, 19009-19	0 1 45
1368	Enhanced thermal conductivities of nanofluids containing graphene oxide nanosheets. 2010 , 21, 055705	158
1367	Two-dimensional graphene bridges enhanced photoinduced charge transport in dye-sensitized solar cells. 2010 , 4, 887-94	840
1366	Controllable graphene N-doping with ammonia plasma. 2010 , 96, 133110	413
1365	Graphene nanosheet counter-electrodes for dye-sensitized solar cells. 2010 ,	8
1364	Morphology and Photoelectrical Properties of Solution Processable Butylamine-Modified Graphene- and Pyrene-Based Organic Semiconductor. 2010 , 114, 11252-11257	17
1363	Decoration, Migration, and Aggregation of Palladium Nanoparticles on Graphene Sheets. 2010 , 22, 5695-5699	172
1362	Fabrication and characterization of mesoporous carbon nanosheets-1D TiO2 nanostructures. 2010 , 20, 2424	21
1361	Geometry controls conformation of graphene sheets: membranes, ribbons, and scrolls. 2010 , 4, 3869-76	203
1360	Photo-assisted preparation and patterning of large-area reduced graphene oxide-TiO(2) conductive thin film. 2010 , 46, 3499-501	100
1359	NMR-based structural modeling of graphite oxide using multidimensional 13C solid-state NMR and ab initio chemical shift calculations. 2010 , 132, 5672-6	198
1358	Modeling of thermal transport in pillared-graphene architectures. 2010 , 4, 1153-61	242
1357	Epitaxial graphene on silicon substrates. 2010 , 43, 374012	92
1356	Dramatic increase in fatigue life in hierarchical graphene composites. 2010 , 2, 2738-43	201
1355	Epitaxial graphene on 4H-SiC by pulsed electron irradiation. 2010 , 46, 4917-9	13
1354	Highly charged supramolecular oligomers based on the dimerization of corannulene tetraanion. 2010 , 46, 9010-2	39
1353	Graphite nanoplatelet/silicone composites for thermal interface applications. 2010,	8

1352	Effect of graphene oxide nanomaterial in electroclinic liquid crystals. 2010 , 108, 124110	22
1351	The electronic properties of graphene nanoribbons with boron/nitrogen codoping. 2010 , 96, 243110	46
1350	Preparation of poly(vinyl chloride)-solvothermally reduced graphene composite by latex tecnology. 2010 ,	
1349	Enhanced electrical properties in percolative low-density polyethylene/carbon nanotubes nanocomposites. 2010 , 17, 645-652	10
1348	Macroscopic evidence of strong cation-pi interactions in a synthetic polymer system. 2010 , 46, 1341-3	23
1347	Microfluidic actuators based on infrared-light responsive PNIPAAm hydrogel nanocomposite incorporating graphene-oxide. 2011 ,	2
1346	Ultrahigh surface area hierarchical porous carbons based on natural well-defined macropores in sisal fibers. 2011 , 21, 14424	27
1345	Pb intercalation underneath a graphene layer on Ru(0001) and its effect on graphene oxidation. 2011 , 13, 16655-60	64
1344	Low-temperature rapid synthesis of high-quality pristine or boron-doped graphenevia Wurtz-type reductive coupling reaction. 2011 , 21, 10685	60
1343	Co-production of graphene sheets and hydrogen by decomposition of methane using cobalt based catalysts. 2011 , 4, 778	31
1342	Direct patterning on reduced graphene oxide nanosheets using femtosecond laser pulses. 2011 , 13, 085601	14
1341	Functionalization of Graphene Sheets via Chemically Grafting of PMMA Chains Through in-situ Polymerization. 2011 , 48, 577-582	27
1340	Electrochemical behavior of graphene nanosheets in alkylimidazolium tetrafluoroborate ionic liquid electrolytes: influences of organic solvents and the alkyl chains. 2011 , 21, 13205	54
1339	Graphene Electrodes for Artificial Muscles. 2011 , 539, 260/[600]-265/[605]	9
1338	Load-tolerant, highly strain-responsive graphene sheets. 2011 , 21, 2057	51
1337	Simple and scalable route for the B ottom-uplaynthesis of few-layer graphene platelets and thin films. 2011 , 21, 3378	48
1336	Global and Local Oxidation Behavior of Reduced Graphene Oxide. 2011, 115, 7956-7966	34
1335	A novel fluorescent biosensor for sequence-specific recognition of double-stranded DNA with the platform of graphene oxide. 2011 , 136, 2106-10	68

1334	Large scale production of high aspect ratio graphite nanoplatelets with tunable oxygen functionality. 2011 , 21, 5142	14
1333	Salt-controlled assembly of stacked-graphene for capturing fluorescence and its application in chemical genotoxicity screening. 2011 , 21, 15266	5
1332	Aqueous stabilization of graphene sheets using exfoliated montmorillonite nanoplatelets for multifunctional free-standing hybrid films via vacuum-assisted self-assembly. 2011 , 21, 18011	70
1331	DEVELOPMENT OF POLYMER-BASED 0B COMPOSITES WITH HIGH DIELECTRIC CONSTANT. 2011 , 01, 389-406	116
1330	Raman study of interfacial load transfer in graphene nanocomposites. 2011 , 98, 063102	64
1329	Fast response and recovery of hydrogen sensing in Pd-Pt nanoparticle-graphene composite layers. 2011 , 22, 275719	82
1328	Mechanics of coordinative crosslinks in graphene nanocomposites: a first-principles study. 2011 , 21, 6707	39
1327	Size-dependent interaction of Au nanoparticles and graphene sheet. 2011 , 47, 3610-2	36
1326	Soft elastic surfaces as a platform for particle self-assembly. 2011 , 7, 8324	15
1325	Low-voltage solution-processed graphene transistors based on chemically and solvothermally reduced graphene oxide. 2011 , 21, 13068	22
1324	Synthesis of a tunable MgB2/Nano-Graphene/MgB2IIosephson junction-like structure for electronic devices. 2011 , 1, 964	7
1323	Novel synthesis of graphene foils in mesostructured silica between hexagonal and lamellar phases. 2011 , 47, 2297-9	7
1322	Highly conductive and flexible mesoporous graphitic films prepared by graphitizing the composites of graphene oxide and nanodiamond. 2011 , 21, 7154	78
1321	Preparation and Characterization of High Performance LLDPE/Graphene Nanocomposites. 2011 , 410, 152-155	1
1320	X-Ray Photoelectron Spectroscopy Study on Reduction of Graphene Oxide with Hydrazine Hydrate. 2011 , 287-290, 539-543	5
1319	Solution processed reduced graphene oxide ultraviolet detector. 2011 , 99, 113114	92
1318	Preparation and Characterization of Graphene Oxide-ZnO Nanocomposites. 2011 , 688, 228-232	4
1317	Schottky diode via dielectrophoretic assembly of reduced graphene oxide sheets between dissimilar metal contacts. 2011 , 13, 035021	32

1316	A graphene oxide-based AIE biosensor with high selectivity toward bovine serum albumin. 2011 , 47, 12385-7	130
1315	Characterization and nanopatterning of organically functionalized graphene with ultrahigh vacuum scanning tunneling microscopy. 2011 , 36, 532-542	12
1314	The effect of interlayer adhesion on the mechanical behaviors of macroscopic graphene oxide papers. 2011 , 5, 2134-41	287
1313	Fluctuation Effects of the Electric Field Induced by Water on a Graphene Dot Band Gap. 2011 , 115, 4381-4386	7
1312	A Facile Route for the Large Scale Fabrication of Graphene Oxide Papers and Their Mechanical Enhancement by Cross-linking with Glutaraldehyde. 2011 , 3, 215-222	51
1311	pH-responsive, DNA-directed reversible assembly of graphene oxide. 2011 , 7, 2681-7	17
1310	Salting out in organic solvents: a new route to carbon nanotube bundle engineering. 2011 , 13, 12399-402	12
1309	Preparation and Tribological Study of Functionalized Graphenell Nanocomposite Ultrathin Lubrication Films on Si Substrates. 2011 , 115, 13275-13284	72
1308	Surface-directed molecular assembly of pentacene on monolayer graphene for high-performance organic transistors. 2011 , 133, 4447-54	287
1307	The preparation and electrical properties of the functionalized graphene/poly (ether sulfone) nanocomposites. 2011 , 23, 592-601	11
1306	Strain engineering of thermal conductivity in graphene sheets and nanoribbons: a demonstration of magic flexibility. 2011 , 22, 105705	291
1305	Chirality- and curvature-dependent bending stiffness of single layer graphene. 2011 , 99, 201901	35
1304	Large-Scale Deposition of Graphene With Dielectrophoresis. 2011,	
1303	Supercapacitors: Electrode Materials Aspects. 2011,	3
1302	Theoretical Design of Nanomaterials and Nanodevices: Nanolensing, Supermagnetoresistance, and Ultrafast DNA Sequencing. 2011 , 115, 16247-16257	18
1301	Self-assembled graphene/azo polyelectrolyte multilayer film and its application in electrochemical energy storage device. 2011 , 27, 2007-13	63
1300	High-performance transparent conductive films using rheologically derived reduced graphene oxide. 2011 , 5, 870-8	78
1299	Exfoliation of Layered Silicates through Immobilization of Imidazolium Groups. 2011 , 23, 266-273	45

1298	Graphene nucleation on transition metal surface: structure transformation and role of the metal step edge. 2011 , 133, 5009-15	273
1297	Particle self-assembly on soft elastic shells. 2011 , 7, 1874-1878	18
1296	In Situ Reduction of Graphene Oxide in Polymers. 2011 , 44, 9821-9829	87
1295	Hybrid gold nanoparticle-reduced graphene oxide nanosheets as active catalysts for highly efficient reduction of nitroarenes. 2011 , 21, 15431	194
1294	Vacuum-assisted synthesis of graphene from thermal exfoliation and reduction of graphite oxide. 2011 , 21, 5392	177
1293	Efficient coating of polystyrene microspheres with graphene nanosheets. 2011 , 47, 10722-4	33
1292	Mechanical Performance and Electrochemical Properties of Clathrate Hydrate Reinforced by Clay Particles. 2011 , 115, 15655-15660	3
1291	Photocatalytically Reduced Graphite Oxide Electrode for Electrochemical Capacitors. 2011 , 115, 20689-20695	5 32
1290	Fluorescent features of CdTe nanorods grafted to graphene oxide through an amidation process. 2011 , 21, 11283	26
1289	Three-Dimensional Micro-Channel Structure of Graphene Field-Effect Transistor. 2011 , 291-294, 3112-3115	
1289		170
		170
1288	Size effect of graphene on electrocatalytic activation of oxygen. 2011 , 47, 10016-8 Graphene Nanosheets and Shear Flow Induced Crystallization in Isotactic Polypropylene Nanocomposites. 2011 , 44, 2808-2818	,
1288	Size effect of graphene on electrocatalytic activation of oxygen. 2011 , 47, 10016-8 Graphene Nanosheets and Shear Flow Induced Crystallization in Isotactic Polypropylene Nanocomposites. 2011 , 44, 2808-2818	143
1288 1287 1286	Size effect of graphene on electrocatalytic activation of oxygen. 2011, 47, 10016-8 Graphene Nanosheets and Shear Flow Induced Crystallization in Isotactic Polypropylene Nanocomposites. 2011, 44, 2808-2818 Synthesis and electrical characterization of magnetic bilayer graphene intercalate. 2011, 11, 860-5 One-Pot Synthesis of Platinum Nanoparticles Embedded on Reduced Graphene Oxide for Oxygen Reduction in Methanol Fuel Cells. 2011, 14, B70	143 83
1288 1287 1286 1285	Size effect of graphene on electrocatalytic activation of oxygen. 2011, 47, 10016-8 Graphene Nanosheets and Shear Flow Induced Crystallization in Isotactic Polypropylene Nanocomposites. 2011, 44, 2808-2818 Synthesis and electrical characterization of magnetic bilayer graphene intercalate. 2011, 11, 860-5 One-Pot Synthesis of Platinum Nanoparticles Embedded on Reduced Graphene Oxide for Oxygen Reduction in Methanol Fuel Cells. 2011, 14, B70 Preparation of Novel Carbon-based Nanomaterial of Graphene and Its Applications	143 83 71
1288 1287 1286 1285	Size effect of graphene on electrocatalytic activation of oxygen. 2011, 47, 10016-8 Graphene Nanosheets and Shear Flow Induced Crystallization in Isotactic Polypropylene Nanocomposites. 2011, 44, 2808-2818 Synthesis and electrical characterization of magnetic bilayer graphene intercalate. 2011, 11, 860-5 One-Pot Synthesis of Platinum Nanoparticles Embedded on Reduced Graphene Oxide for Oxygen Reduction in Methanol Fuel Cells. 2011, 14, B70 Preparation of Novel Carbon-based Nanomaterial of Graphene and Its Applications Electrochemistry. 2011, 39, 963-971 Synthesis of Graphene-CdSe Composite by a Simple Hydrothermal Method and Its Photocatalytic Degradation of Organic Dyes. 2011, 32, 1577-1583	143 83 71 18

1280	Aqueous only route toward graphene from graphite oxide. 2011 , 5, 1253-8	232
1279	Graphene transistors via in situ voltage-induced reduction of graphene-oxide under ambient conditions. 2011 , 133, 14320-6	50
1278	Synthesis and characterization of large-area graphene and graphite films on commercial Cu-Ni alloy foils. 2011 , 11, 3519-25	270
1277	A DNA biosensor based on graphene paste electrode modified with Prussian blue and chitosan. 2011 , 136, 1946-51	67
1276	Facile preparation of nitrogen-doped few-layer graphene via supercritical reaction. 2011, 3, 2259-64	69
1275	Optical and sensing properties of 1-pyrenecarboxylic Acid-functionalized graphene films laminated on polydimethylsiloxane membranes. 2011 , 5, 1003-11	66
1274	Graphite Oxide with Different Oxygenated Levels for Hydrogen and Oxygen Production from Water under Illumination: The Band Positions of Graphite Oxide. 2011 , 115, 22587-22597	232
1273	Catalytic oxidation and determination of ENADH using self-assembly hybrid of gold nanoparticles and graphene. 2011 , 136, 2735-40	56
1272	Graphene Oxide: Synthesis, Characterization, Electronic Structure, and Applications. 2011, 435-464	1
1271	Reversible adsorption of conjugated amphiphilic dendrimers onto reduced graphene oxide (rGO) for fluorescence sensing. 2011 , 7, 8352	16
1270	Matrix interference-free method for the analysis of small molecules by using negative ion laser desorption/ionization on graphene flakes. 2011 , 83, 3161-9	114
1269	Percolation threshold and electrical conductivity of a two-phase composite containing randomly oriented ellipsoidal inclusions. 2011 , 110, 123715	67
1268	Nanomaterials for Alternative Energy. 2011 , 199-246	
1267	Synergistic effect of Cu2+-coordinated carbon nanotube/graphene network on the electrical and mechanical properties of polymer nanocomposites. 2011 , 21, 18723	49
1266	Effective Heat Transfer Properties of Graphene Sheet Nanocomposites and Comparison to Carbon Nanotube Nanocomposites. 2011 , 115, 3872-3880	39
1265	Charge transport in graphenepolythiophene blends as studied by Kelvin Probe Force Microscopy and transistor characterization. 2011 , 21, 2924	122
1264	Graphene nanosheets based on controlled exfoliation process for enhanced lithium storage in lithium-ion battery. 2011 , 20, 756-761	53
1263	Co3O4@graphene composites as anode materials for high-performance lithium ion batteries. 2011 , 50, 1628-32	324

1262	Adsorption of nitrogen oxides on graphene and graphene oxides: insights from density functional calculations. 2011 , 134, 044710	147
1261	Functionalized Graphene Oxide Nanocomposite Membrane for Low Humidity and High Temperature Proton Exchange Membrane Fuel Cells. 2011 , 115, 20774-20781	346
12 60	Melt blending in situ enhances the interaction between polystyrene and graphene through \blacksquare stacking. 2011 , 3, 3103-9	178
1259	Twist-boat conformation in graphene oxides. 2011 , 3, 192-5	36
1258	Preparation and Structural Variation of Graphite Oxide and Graphene Oxide. 2011 , 128, 163-170	18
1257	Solvent-exfoliated graphene at extremely high concentration. 2011 , 27, 9077-82	2 80
1256	On the effective plate thickness of monolayer graphene from flexural wave propagation. 2011 , 110, 054324	21
1255	Li-air rechargeable battery based on metal-free graphene nanosheet catalysts. 2011 , 5, 3020-6	353
1254	A review of chemical vapour deposition of graphene on copper. 2011 , 21, 3324-3334	1106
1253	Ab Initio Study of Boron- and Nitrogen-Doped Graphene and Carbon Nanotubes Functionalized with Carboxyl Groups. 2011 , 115, 18500-18510	57
1252	Graphene: a novel template for controlling the microstructures of mesoporous silica. 2011 , 21, 14008	12
1251	Comprehension of Nanocomposites. 2011 , 777-819	2
1250	Graphene: fabrication methods and thermophysical properties. 2011 , 181, 233	31
1249	Large-scale growth and characterizations of nitrogen-doped monolayer graphene sheets. 2011 , 5, 4112-7	538
1248	Graphene: preparation and structural perfection. 2011 , 21, 3280-3294	114
1247	Fabrication of free-standing graphene/polyaniline nanofibers composite paper via electrostatic adsorption for electrochemical supercapacitors. 2011 , 35, 369-374	123
1246	Simultaneous Reduction of Graphene Oxide and Polyaniline: Doping-Assisted Formation of a Solid-State Charge-Transfer Complex. 2011 , 115, 10468-10474	97
1245	Temperature dependence of graphene oxide reduced by hydrazine hydrate. 2011 , 22, 055705	495

1244	Self-aligned Graphene Sheets-Polyurethane Nanocomposites. 2011 , 1344, 1	1
1243	In situ synthesis of poly(ethylene terephthalate)/graphene composites using a catalyst supported on graphite oxide. 2011 , 21, 3931	40
1242	Preparation and properties of graphene oxide/polyimide composite films with low dielectric constant and ultrahigh strength via in situpolymerization. 2011 , 21, 13569	238
1241	Interflake thermal conductance of edge-passivated graphene. 2011 , 84,	8
1240	Functionalized graphene reinforced thermoplastic nanocomposites as strain sensors in structural health monitoring. 2011 , 21, 12626	155
1239	Nanostructured reduced graphene oxide/Fe2O3 composite as a high-performance anode material for lithium ion batteries. 2011 , 5, 3333-8	1123
1238	Preparation of non-covalently functionalized graphene using 9-anthracene carboxylic acid. 2011 , 22, 405603	43
1237	Experimental study of graphitic nanoribbon films for ammonia sensing. 2011 , 109, 124301	39
1236	Graphene-encapsulated iron microspheres on the graphene nanosheets. 2011 , 13, 17818-24	12
1235	Tough graphene-polymer microcellular foams for electromagnetic interference shielding. 2011 , 3, 918-24	833
1234	Selective and quantitative cancer cell detection using target-directed functionalized graphene and its synergetic peroxidase-like activity. 2011 , 47, 4436-8	155
1233	Gram-scale synthesis of nanomesh graphene with high surface area and its application in supercapacitor electrodes. 2011 , 47, 5976-8	308
1232	Scanning tunneling microscopy and X-ray photoelectron spectroscopy studies of graphene films prepared by sonication-assisted dispersion. 2011 , 5, 6102-8	49
1231	A green approach to the synthesis of reduced graphene oxide nanosheets under UV irradiation. 2011 , 22, 215601	196
1230	General Avenue to Individually Dispersed Graphene Oxide-Based Two-Dimensional Molecular Brushes by Free Radical Polymerization. 2011 , 44, 444-452	180
1229	Large-scale integration of single-walled carbon nanotubes and graphene into sensors and devices using dielectrophoresis: A review. 2011 , 26, 1561-1571	20
1228	Size fractionation of graphene oxide sheets by pH-assisted selective sedimentation. 2011 , 133, 6338-42	264
1227	Polymer brushes on graphene. 2011 , 133, 10490-8	129

1226	Functionalized graphene oxide as a nanocarrier in a multienzyme labeling amplification strategy for ultrasensitive electrochemical immunoassay of phosphorylated p53 (S392). 2011 , 83, 746-52	287
1225	Facile synthesis of V-shaped copolymer brushes grafted onto the surface of graphene oxide via coupling reactions. 2011 , 47, 9504-6	30
1224	Superior conductive polystyrene Ethemically converted graphene nanocomposite. 2011 , 21, 11312	79
1223	Vibration of Single- and Double-Layered Graphene Sheets. 2011 , 2,	65
1222	Iodine doping in solid precursor-based CVD growth graphene film. 2011 , 21, 15209	94
1221	Electronic transport in graphitic nanoribbon films. 2011 , 5, 1617-22	13
122 0	Facile synthesis of reduced graphene oxide in supercritical alcohols and its lithium storage capacity. 2011 , 13, 2714	69
1219	High-performance supercapacitors based on poly(ionic liquid)-modified graphene electrodes. 2011 , 5, 436-42	609
1218	Highly reproducible memory effect of organic multilevel resistive-switch device utilizing graphene oxide sheets/polyimide hybrid nanocomposite. 2011 , 99, 042108	78
1217	Graphene-Based Flexible Supercapacitors: Pulse-Electropolymerization of Polypyrrole on Free-Standing Graphene Films. 2011 , 115, 17612-17620	234
1216	Superparamagnetic Fe3O4 nanocrystals@graphene composites for energy storage devices. 2011 , 21, 5069	316
1215	Cu2O@reduced graphene oxide composite for removal of contaminants from water and supercapacitors. 2011 , 21, 10645	183
1214	A green and ultrafast approach to the synthesis of scalable graphene nanosheets with Zn powder for electrochemical energy storage. 2011 , 21, 15449	69
1213	Graphene oxide: an efficient and reusable carbocatalyst for aza-Michael addition of amines to activated alkenes. 2011 , 47, 12673-5	232
1212	Fabrication and Characterization of Ultrathin Graphene Oxide/Poly(Vinyl Alcohol) Composite Films via Layer-by-Layer Assembly. 2011 , 50, 1098-1107	13
1211	Conversion of self-assembled monolayers into nanocrystalline graphene: structure and electric transport. 2011 , 5, 3896-904	83
121 0	Preparation and Enhanced Visible-Light Photocatalytic H2-Production Activity of Graphene/C3N4 Composites. 2011 , 115, 7355-7363	1511
1209	Graphite Nanoplatelet Composites and Their Applications. 2011 , 169-186	1

1208	Highly super capacitive electrodes made of graphene/poly(pyrrole). 2011 , 47, 5753-5	189
1207	Directed Assembly of Nanostructures. 2011 , 13-68	7
1206	An electrochemically formed three-dimensional structure of polypyrrole/graphene nanoplatelets for high-performance supercapacitors. 2011 , 1, 1271	128
1205	Self-assembly of mixed Pt and Au nanoparticles on PDDA-functionalized graphene as effective electrocatalysts for formic acid oxidation of fuel cells. 2011 , 13, 6883-91	129
1204	Electrostatic layer-by-layer self-assembly multilayer films based on graphene and manganese dioxide sheets as novel electrode materials for supercapacitors. 2011 , 21, 3397	199
1203	Synthesis and enhanced photocatalytic performance of graphene-Bi2WO6 composite. 2011 , 13, 2887-93	412
1202	Poly(3,4-ethylenedioxythiophene)-ionic liquid functionalized graphene/reduced graphene oxide nanostructures: improved conduction and electrochromism. 2011 , 3, 1115-26	96
1201	Functionalization and Solubilization of Carbon and Inorganic Nanostructures. 2011 , 445-490	4
1200	Monolayer graphene/NiO nanosheets with two-dimension structure for supercapacitors. 2011 , 21, 18792	277
1199	Controllable oxidative DNA cleavage-dependent regulation of graphene/DNA interaction. 2011 , 47, 4084-6	47
1199	Controllable oxidative DNA cleavage-dependent regulation of graphene/DNA interaction. 2011 , 47, 4084-6 A highly sensitive ultraviolet sensor based on a facile in situ solution-grown ZnO nanorod/graphene heterostructure. 2011 , 3, 258-64	47 258
1198	A highly sensitive ultraviolet sensor based on a facile in situ solution-grown ZnO nanorod/graphene	
1198	A highly sensitive ultraviolet sensor based on a facile in situ solution-grown ZnO nanorod/graphene heterostructure. 2011 , 3, 258-64	258
1198	A highly sensitive ultraviolet sensor based on a facile in situ solution-grown ZnO nanorod/graphene heterostructure. 2011, 3, 258-64 High strength graphene oxide/polyvinyl alcohol composite hydrogels. 2011, 21, 10399 A novel strategy for making soluble reduced graphene oxide sheets cheaply by adopting an	258 320
1198 1197 1196	A highly sensitive ultraviolet sensor based on a facile in situ solution-grown ZnO nanorod/graphene heterostructure. 2011, 3, 258-64 High strength graphene oxide/polyvinyl alcohol composite hydrogels. 2011, 21, 10399 A novel strategy for making soluble reduced graphene oxide sheets cheaply by adopting an endogenous reducing agent. 2011, 21, 3365-3370 Poly(vinyl alcohol) nanocomposites based on graphene and graphite oxide: a comparative	258 320 193
1198 1197 1196 1195	A highly sensitive ultraviolet sensor based on a facile in situ solution-grown ZnO nanorod/graphene heterostructure. 2011, 3, 258-64 High strength graphene oxide/polyvinyl alcohol composite hydrogels. 2011, 21, 10399 A novel strategy for making soluble reduced graphene oxide sheets cheaply by adopting an endogenous reducing agent. 2011, 21, 3365-3370 Poly(vinyl alcohol) nanocomposites based on graphene and graphite oxide: a comparative investigation of property and mechanism. 2011, 21, 13942	258 320 193 303
1198 1197 1196 1195	A highly sensitive ultraviolet sensor based on a facile in situ solution-grown ZnO nanorod/graphene heterostructure. 2011, 3, 258-64 High strength graphene oxide/polyvinyl alcohol composite hydrogels. 2011, 21, 10399 A novel strategy for making soluble reduced graphene oxide sheets cheaply by adopting an endogenous reducing agent. 2011, 21, 3365-3370 Poly(vinyl alcohol) nanocomposites based on graphene and graphite oxide: a comparative investigation of property and mechanism. 2011, 21, 13942 Epitaxial growth and structural property of graphene on Pt(111). 2011, 98, 033101	258 320 193 303 196

1190	Microwave-assisted covalent modification of graphene nanosheets with hydroxypropyl-Ecyclodextrin and its electrochemical detection of phenolic organic pollutants. 2011 , 21, 10463	107
1189	A general strategy toward graphene@metal oxide coreBhell nanostructures for high-performance lithium storage. 2011 , 4, 4954	241
1188	One-pot self-assembly of three-dimensional graphene macroassemblies with porous core and layered shell. 2011 , 21, 12352	62
1187	Graphene chiral liquid crystals and macroscopic assembled fibres. 2011 , 2, 571	833
1186	Fabrication of Co3O4-reduced graphene oxide scrolls for high-performance supercapacitor electrodes. 2011 , 13, 14462-5	192
1185	Band Gap Tuning of Hydrogenated Graphene: H Coverage and Configuration Dependence. 2011 , 115, 3236-3242	139
1184	Selective deposition of CdSe nanoparticles on reduced graphene oxide to understand photoinduced charge transfer in hybrid nanostructures. 2011 , 3, 2703-9	24
1183	An environment-friendly preparation of reduced graphene oxide nanosheets via amino acid. 2011 , 22, 325601	251
1182	Graphene based new energy materials. 2011 , 4, 1113	1637
1181	Graphene oxide with covalently linked porphyrin antennae: Synthesis, characterization and photophysical properties. 2011 , 21, 109-117	207
1180	Magnetism in oxidized graphenes with hydroxyl groups. 2011 , 22, 105702	33
1179	In situ polymerization of graphene nanosheets and polyurethane with enhanced mechanical and thermal properties. 2011 , 21, 4222	330
1178	Electronic Properties of Bilayer Zigzag Graphene Nanoribbons: First Principles Study. 2011 , 28, 047304	6
1177	Orientation dependence of thermal conductivity in copper-graphene composites. 2011 , 110, 074901	34
1176	Graphene nanosheets deposited on polyurethane films by self-assembly for preparing transparent, conductive films. 2011 , 21, 14876	22
1175	Graphene: materials in the Flatland. 2011 , 181, 1299	32
1174	Sonochemical preparation of functionalized graphenes. 2011 , 133, 9148-51	137
1173	Synthesis of aluminium-doped ZnO nanocrystals with controllable morphology and enhanced electrical conductivity. 2011 , 21, 4161	53

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1172	Catalyst-free synthesis of nitrogen-doped graphene via thermal annealing graphite oxide with melamine and its excellent electrocatalysis. 2011 , 5, 4350-8	2020
1171	Graphene nanosheets-polypyrrole hybrid material as a highly active catalyst support for formic acid electro-oxidation. 2011 , 3, 3277-84	79
1170	Localized in situ polymerization on graphene surfaces for stabilized graphene dispersions. 2011 , 3, 1844-51	94
1169	Controllable corrugation of chemically converted graphene sheets in water and potential application for nanofiltration. 2011 , 47, 5810-2	277
1168	Graphene sheets grafted Ag@AgCl hybrid with enhanced plasmonic photocatalytic activity under visible light. 2011 , 45, 5731-6	377
1167	Preparation and Characterization of a Poly[Ni(salen)]/Multiwalled Carbon Nanotube Composite by in Situ Electropolymerization as a Capacitive Material. 2011 , 115, 11822-11829	29
1166	High-yield production and transfer of graphene flakes obtained by anodic bonding. 2011 , 5, 7700-6	37
1165	Water-Soluble Graphite Nanoplatelets Formed by Oleum Exfoliation of Graphite. 2011 , 23, 9-13	35
1164	Self assembly of graphene oxide at the liquid I quid interface: A new route to the fabrication of graphene based composites. 2011 , 7, 3432	177
1163	Inorganic nanostructures grown on graphene layers. 2011 , 3, 3522-33	7 ²
1162	Preparation, characterization and antibacterial properties of silver-modified graphene oxide. 2011 , 21, 3350-3352	373
1161	Highly qualified reduced graphene oxides: the best chemical reduction. 2011 , 47, 9681-3	55
1160	Graphene supported Au-Pd bimetallic nanoparticles with core-shell structures and superior peroxidase-like activities. 2011 , 21, 17658	152
1159	Compression and aggregation-resistant particles of crumpled soft sheets. 2011 , 5, 8943-9	424
1158	Theoretical Study of the Electron Transport in Graphene with Vacancy and Residual Oxygen Defects after High-Temperature Reduction. 2011 , 115, 9719-9725	26
1157	Nitrogen doped SrlaDitoupled with graphene sheets as photocatalysts for increased photocatalytic hydrogen production. 2011 , 5, 3483-92	292
1156	Electrochemical performance of a graphene-polypyrrole nanocomposite as a supercapacitor electrode. 2011 , 22, 295202	132
1155	Titanate nanosheets and nanotubes: alkalinity manipulated synthesis and catalyst support application. 2011 , 21, 277-282	32

1154	Enhanced electrical properties of reduced graphene oxide multilayer films by in-situ insertion of a TiO2 layer. 2011 , 5, 8884-91	49
1153	A three-dimensional vertically aligned functionalized multilayer graphene architecture: an approach for graphene-based thermal interfacial materials. 2011 , 5, 2392-401	244
1152	Imparting Polymeric Properties to Graphene Nanosheets by Surface Modification via ?-? Stacking. 2011 , 64, 1414	8
1151	Thinning of multilayer graphene to monolayer graphene in a plasma environment. 2011 , 22, 025704	47
1150	Graphene oxide sheets covalently functionalized with block copolymersvia click chemistry as reinforcing fillers. 2011 , 21, 9271	150
1149	Graphene-wrapped hybrid spheres of electrical conductivity. 2011 , 3, 2904-11	64
1148	Protein-directed reduction of graphene oxide and intracellular imaging. 2011 , 47, 12658-60	54
1147	Preparation and characterization of polypropylene-graft-thermally reduced graphite oxide with an improved compatibility with polypropylene-based nanocomposite. 2011 , 3, 1516-22	75
1146	Structural Breathing of Graphite Oxide Pressurized in Basic and Acidic Solutions 2011 , 2, 309-313	22
1145	Coulomb blockade and hopping conduction in graphene quantum dots array. 2011 , 83,	63
1144	Fabrication of graphene thin films based on layer-by-layer self-assembly of functionalized graphene nanosheets. 2011 , 3, 360-8	154
1143	Graphene covalently binding aryl groups: conductivity increases rather than decreases. 2011 , 5, 7945-9	85
1142	Transport properties of graphene quantum dots. 2011 , 83,	35
1141	Nanofillers. 2011 , 1	
1140	A rapid, one-step, variable-valence metal ion assisted reduction method for graphene oxide. 2011 , 22, 405602	26
1139	Design and tailoring of a hierarchical graphene-carbon nanotube architecture for supercapacitors. 2011 , 21, 2374-2380	370
1138	Effect of extended polymer chains on properties of transparent graphene nanosheets conductive film. 2011 , 21, 18236	103
1137	Sandwich-type functionalized graphene sheet-sulfur nanocomposite for rechargeable lithium batteries. 2011 , 13, 7660-5	324

1136	Electrochemical deposition of polyaniline nanosheets mediated by sulfonated polyaniline functionalized graphenes. 2011 , 21, 13978	50
1135	Hydration-responsive folding and unfolding in graphene oxide liquid crystal phases. 2011 , 5, 8019-25	174
1134	Tailoring oxidation degrees of graphene oxide by simple chemical reactions. 2011 , 99, 053114	39
1133	EXTREMELY SHORT OPTICAL PULSES IN CARBON NANOTUBES IN DISPERSIVE NONMAGNETIC DIELECTRIC MEDIA. 2011 , 25, 3401-3408	11
1132	Composite Materials. 2011 ,	24
1131	Chemically modified graphene sheets by functionalization of highly exfoliated graphite. 2011 , 21, 3410-3414	49
1130	Negative differential conductivity in bilayer graphene controlled by an external voltage and in the presence of a magnetic field. 2011 , 83, 015603	3
1129	New Approach to the Synthesis of Exfoliated Polymer/Graphite Nanocomposites by Miniemulsion Polymerization Using Functionalized Graphene. 2011 , 44, 8504-8515	62
1128	Local voltage drop in a single functionalized graphene sheet characterized by Kelvin probe force microscopy. 2011 , 11, 3543-9	75
1127	Importance of Covalent Linkages in the Preparation of Effective Reduced Graphene Oxide P oly(vinyl chloride) Nanocomposites. 2011 , 44, 2685-2692	99
1126	Simulation insights into thermally conductive graphene-based nanocomposites. 2011 , 109, 97-111	51
1125	Properties of graphene inks stabilized by different functional groups. 2011 , 22, 245702	35
1124	Hollow flower-like AuPd alloy nanoparticles: One step synthesis, self-assembly on ionic liquid-functionalized graphene, and electrooxidation of formic acid. 2011 , 21, 17922	98
1123	Assembly of CdS Nanoparticles on the Two-Dimensional Graphene Scaffold as Visible-Light-Driven Photocatalyst for Selective Organic Transformation under Ambient Conditions. 2011 , 115, 23501-23511	313
1122	Green Approach To Prepare Graphene-Based Composites with High Microwave Absorption Capacity. 2011 , 115, 11673-11677	282
1121	Controllable synthesis of graphene-based titanium dioxide nanocomposites by atomic layer deposition. 2011 , 22, 165602	82
1120	The electromagnetic property of chemically reduced graphene oxide and its application as microwave absorbing material. 2011 , 98, 072906	520
1119	Directly drawing self-assembled, porous, and monolithic graphene fiber from chemical vapor deposition grown graphene film and its electrochemical properties. 2011 , 27, 12164-71	166

1118	Direct synthesis of lithium-intercalated graphene for electrochemical energy storage application. 2011 , 5, 4345-9	110
1117	Graphene and carbon nanofiber nanopaper for multifunction composite materials. 2011,	4
1116	Single-crystal Bi2S3 nanosheets growing via attachment-recrystallization of nanorods. 2011 , 50, 7729-34	43
1115	Large-area graphene films by simple solution casting of edge-selectively functionalized graphite. 2011 , 5, 4974-80	85
1114	Preparation of Quasi-Free-Standing Graphene with a Super Large Interlayer Distance by Methane Intercalation. 2011 , 115, 20538-20545	8
1113	Viscoelasticity of Graphite Oxide-Based Suspensions in PDMS. 2011 , 44, 3893-3900	55
1112	Polybenzimidazole/silica nanocomposites: Organic-inorganic hybrid membranes for PEM fuel cell. 2011 , 21, 14897	93
1111	MnO2 assisted oxidative polymerization of aniline on graphene sheets: Superior nanocomposite electrodes for electrochemical supercapacitors. 2011 , 21, 16216	60
1110	Top down method for synthesis of highly conducting graphene by exfoliation of graphite oxide using focused solar radiation. 2011 , 21, 6800	139
1109	Fabrication of gold nanoparticle/graphene oxide nanocomposites and their excellent catalytic performance. 2011 , 21, 11080	138
1108	Anchoring Ceria Nanoparticles on Reduced Graphene Oxide and Their Electronic Transport Properties. 2011 , 115, 24494-24500	110
1107	High-performance supercapacitor electrodes based on graphene hydrogels modified with 2-aminoanthraquinone moieties. 2011 , 13, 11193-8	151
1106	Supercapacitors: Electrode Materials Aspects. 2011 ,	2
1105	Investigation of the electric conductivity and the electromagnetic interference shielding efficiency of SWCNTs/GNS/PAni nanocomposites. 2011 , 20, 1183-1187	50
1104	Polyacrylate-coated graphene-oxide and graphene solution via chemical route for various biological application. 2011 , 20, 449-453	28
1103	Decorating graphene sheets with Pt nanoparticles using sodium citrate as reductant. 2011 , 257, 10758-10762	44
1102	Poly(ethylene terephthalate)/exfoliated graphite nanocomposites with improved thermal stability, mechanical and electrical properties. 2011 , 42, 560-566	82
1101	Characterization and properties of in situ emulsion polymerized poly(methyl methacrylate)/graphene nanocomposites. 2011 , 42, 1856-1861	140

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1100	Nanocomposite nanofibers of poly(d, l-lactic-co-glycolic acid) and graphene oxide nanosheets. 2011 , 42, 1978-1984	129
1099	Nanocomposites based on polystyrene-b-poly(ethylene-r-butylene)-b-polystyrene and exfoliated graphite nanoplates: Effect of nanoplatelet loading on morphology and mechanical properties. 2011 , 42, 1995-2002	36
1098	Tuning the magnetic behavior and transport property of graphene by introducing dopant and defect: A first-principles study. 2011 , 972, 63-67	7
1097	Magnetodielectric Effect in Graphene-PVA Nanocomposites. 2011 , 115, 14285-14289	36
1096	Highly conductive graphene nanoribbons by longitudinal splitting of carbon nanotubes using potassium vapor. 2011 , 5, 968-74	186
1095	A simple and efficient method to prepare graphene by reduction of graphite oxide with sodium hydrosulfite. 2011 , 22, 045704	167
1094	2D materials: to graphene and beyond. 2011 , 3, 20-30	1095
1093	A graphene oxide-based nano-beacon for DNA phosphorylation analysis. 2011 , 47, 1201-3	94
1092	Nobel Lecture: Graphene: Materials in the Flatland*. 2011 , 83, 837-849	584
1091	Microwave-assisted rapid synthesis of water-soluble graphene. 2011 , 21, 10421	37
1090	Water-dispersible magnetite-graphene-LDH composites for efficient arsenate removal. 2011 , 21, 17353	220
1089	Structure of Graphene Oxide: Thermodynamics versus Kinetics. 2011 , 115, 11991-11995	83
1088	High concentration few-layer graphene sheets obtained by liquid phase exfoliation of graphite in ionic liquid. 2011 , 21, 3428-3431	317
1087	Straightforward synthesis of conductive graphene/polymer nanocomposites from graphite oxide. 2011 , 47, 2544-6	74
1086	A one-step strategy for thermal- and pH-responsive graphene oxide interpenetrating polymer hydrogel networks. 2011 , 21, 4095	231
1085	Novel PEG functionalized graphene nanosheets: enhancement of dispersibility and thermal stability. 2011 , 3, 2169-74	117
1084	In situ synthesis of Co3O4/graphene nanocomposite material for lithium-ion batteries and supercapacitors with high capacity and supercapacitance. 2011 , 509, 7778-7783	134
1083	Graphene: Substrate preparation and introduction. 2011 , 174, 234-8	66

1082	Graphene-based electrochemical energy conversion and storage: fuel cells, supercapacitors and lithium ion batteries. 2011 , 13, 15384-402	432
1081	Synthesis and characterization of graphene paper with controllable properties via chemical reduction. 2011 , 21, 14631	80
1080	Reversible electrical reduction and oxidation of graphene oxide. 2011 , 5, 2475-82	143
1079	Rapid microwave-assisted synthesis of graphene nanosheetsZinc sulfide nanocomposites: Optical and photocatalytic properties. 2011 , 161, 404-410	154
1078	Electrochemical characterization of in situ polypyrrole coated graphene nanocomposites. 2011 , 161, 1713-1719	100
1077	Porous graphene/carbon nanotube composite cathode for proton exchange membrane fuel cell. 2011 , 161, 2460-2465	52
1076	The interfacial electronic structure between pentacene and multilayer graphene. 2011 , 161, 2488-2491	4
1075	Functionalization of graphene with electrodeposited Prussian blue towards amperometric sensing application. 2011 , 85, 76-81	72
1074	Bio-electrocatalysis of NADH and ethanol based on graphene sheets modified electrodes. 2011 , 85, 1174-9	75
1073	Layer-by-layer assembled multilayer of graphene/Prussian blue toward simultaneous electrochemical and SPR detection of H2O2. 2011 , 85, 2106-12	50
1072	A novel lable-free electrochemical immunosensor for carcinoembryonic antigen based on gold nanoparticles-thionine-reduced graphene oxide nanocomposite film modified glassy carbon electrode. 2011 , 85, 2620-5	98
1071	Electrochemical behavior of azithromycin at graphene and ionic liquid composite film modified electrode. 2011 , 86, 227-32	39
1070	Application of chitosan/FelDlimicrosphere-graphene composite modified carbon ionic liquid electrode for the electrochemical detection of the PCR product of soybean Lectin gene sequence. 2011 , 87, 106-12	40
1069	An amperometric hydrogen peroxide chemical sensor based on graphene-FeDImultilayer films modified ITO electrode. 2011 , 87, 243-8	64
1068	The effect of carbon particle morphology on the electrochemical properties of nanocarbon/polyaniline composites in supercapacitors. 2011 , 26, 180-186	31
1067	Conversion of carbon dioxide to few-layer graphene. 2011 , 21, 9491	213
1066	Fluorescence and electroluminescence quenching evidence of interfacial charge transfer in poly (3-hexylthiophene): graphene oxide bulk heterojunction photovoltaic devices. 2011 , 5, 942-51	74
1065	Rapid preparation of noble metal nanocrystals via facile coreduction with graphene oxide and their enhanced catalytic properties. 2011 , 3, 3737-42	44

1064	Toughening in graphene ceramic composites. 2011 , 5, 3182-90	494
1063	Monolayer graphene from graphite oxide. 2011 , 20, 105-108	55
1062	Graphene and carbon nanotube composite electrodes for supercapacitors with ultra-high energy density. 2011 , 13, 17615-24	525
1061	A new graphene-modified protic ionic liquid-based composite membrane for solid polymer electrolytes. 2011 , 21, 10448	78
1060	ZnO@graphene composite with enhanced performance for the removal of dye from water. 2011 , 21, 3346-3349	525
1059	One-pot facile decoration of CdSe quantum dots on graphene nanosheets: novel graphene-CdSe nanocomposites with tunable fluorescent properties. 2011 , 21, 562-566	61
1058	Polyurethane Nanocomposites by In-situ Polymerization Approach and Their Properties. 2011 , 169-220	
1057	Selective organic functionalization of graphene bulk or graphene edges. 2011 , 47, 9330-2	108
1056	Macroscopic, free-standing Ag-reduced, graphene oxide Janus films prepared by evaporation-induced self-assembly. 2011 , 17, 8789-93	30
1055	Evaluation Criteria for Reduced Graphene Oxide. 2011 , 115, 11327-11335	409
1054	Permittivity, thermal conductivity and thermal stability of poly(vinylidene fluoride)/graphene nanocomposites. 2011 , 18, 478-484	139
1053	Fullerene-Grafted Graphene for Efficient Bulk Heterojunction Polymer Photovoltaic Devices. 2011 , 2, 1113-8	195
1052	Engineering the unique 2D mat of graphene to achieve graphene-TiO2 nanocomposite for photocatalytic selective transformation: what advantage does graphene have over its forebear carbon nanotube?. 2011 , 5, 7426-35	621
1051	Influence of polymeric residue on the thermal conductivity of suspended bilayer graphene. 2011 , 11, 1195-200	217
1050	Graphene as a spacer to layer-by-layer assemble electrochemically functionalized nanostructures for molecular bioelectronic devices. 2011 , 27, 11180-6	60
1049	Aqueous liquid crystals of graphene oxide. 2011 , 5, 2908-15	482
1048	Large-scale mechanical peeling of boron nitride nanosheets by low-energy ball milling. 2011 , 21, 11862	301
1047	Advanced mechanical properties of graphene paper. 2011 , 109, 014306	132

1046 Functionalization of graphene sheets through fullerene attachment. 2011 , 21, 5386	93
"Bucky gels" for tailoring electroactive materials and devices: the composites of carbon materials with ionic liquids. 2011 , 47, 6757-62	78
1044 Surfactant-free water-processable photoconductive all-carbon composite. 2011 , 133, 4940-7	191
Assembly of graphene sheets into hierarchical structures for high-performance energy storage. 2011 , 5, 3831-8	364
Edge-functionalized graphene-like platelets as a co-curing agent and a nanoscale additive to epoxy resin. 2011 , 21, 7337	76
1041 Assembly of chemically modified graphene: methods and applications. 2011 , 21, 3311-3323	231
Hydrolysable tannin as environmentally friendly reducer and stabilizer for graphene oxide. 2011 , 13, 1655	200
1039 Nano-Engineered Spacing in Graphene Sheets for Hydrogen Storage. 2011 , 23, 923-925	65
Evidence of nanocrystalline semiconducting graphene monoxide during thermal reduction of graphene oxide in vacuum. 2011 , 5, 9710-7	73
Self assembly of acetylcholinesterase on a gold nanoparticles@raphene nanosheet hybrid for organophosphate pesticide detection using polyelectrolyte as a linker. 2011 , 21, 5319	196
Facile synthesis of soluble graphene via a green reduction of graphene oxide in tea solution and its biocomposites. 2011 , 3, 1127-33	459
High-yield synthesis of few-layer graphene flakes through electrochemical expansion of graphite in propylene carbonate electrolyte. 2011 , 133, 8888-91	483
Factors controlling the size of graphene oxide sheets produced via the graphite oxide route. 2011 , 5, 4073-83	206
1033 The enzymatic oxidation of graphene oxide. 2011 , 5, 2098-108	313
1032 Antimicrobial graphene polymer (PVK-GO) nanocomposite films. 2011 , 47, 8892-4	163
1031 About graphene ribbons development in laser synthesized nanocarbon. 2011 , 257, 5270-5273	4
1030 Superconducting Properties of Graphene Doped Magnesium Diboride. 2011 ,	2
1029 Graphene phytotoxicity in the seedling stage of cabbage, tomato, red spinach, and lettuce. 2011 ,	5

Electrical Conductivity of Melt Compounded Functionalized Graphene Sheets Filled Polyethyleneterephthalate Composites. 2011 ,	1
Structural Analysis and Direct Imaging of Rotational Stacking Faults in Few-Layer Graphene Synthesized from Solid Botanical Precursor. 2011 , 50, 070106	3
1026 . 2011 ,	14
1025 Trends and Frontiers in Graphene-Based Polymer Nanocomposites. 2011 , 67, 32-42	92
1024 Suspensions in viscoelastic media. 325-353	1
1023 Functionalized Graphene Nanocomposites. 2011 ,	15
1022 Graphene-Based Polymer Nanocomposites. 2011 ,	
1021 Bioinspired assembly of nanoplatelets for reinforced polymer nanocomposites. 2011 ,	
P-167: Characteristics of Polymer Light Emitting Diode with Solution Processed Graphene Oxide Layer. 2011 , 42, 1729-1732	1
1019 WITHDRAWN: Folding and cracking of graphene oxide sheets upon deposition. 2011 ,	
1018 Mechanism and properties of piezoresistive in rubber-matrix nanocomposites. 2011 ,	
Graphene Nanoplatelets via Exfoliation of Platelet Carbon Nanofibers and Its Electric Double Layer Capacitance. 2011 , 40, 44-45	9
1016 Shape Memory Polymer Nanocomposites. 2011 , 147-184	
1015 Two-probe study of hot carriers in reduced graphene oxide. 2011 , 109, 084322	8
Oxygen Reduction Reaction Activity of Pt/Graphene Composites with Various Graphene Size. 2011 , 79, 337-339	25
Multifunctional Liquid Crystal Polymeric Composites Embedded With Graphene Nano Platelets. 2011 ,	
Three-dimensional flexible and conductive interconnected graphene networks grown by chemical vapour deposition. 2011 , 10, 424-8	3105
1011 Graphene: A novel carbon nanomaterial. 2011 , 47, 1-10	55

1010	Discrete breathers in deformed graphene. 2011 , 94, 539-543	63
1009	Electrical properties and applications of carbon based nanocomposite materials: An overview. 2011 , 206, 727-733	53
1008	Crystallization behaviors of biodegradable poly(l-lactic acid)/graphene oxide nanocomposites from the amorphous state. 2011 , 526, 229-236	93
1007	Graphene and graphene oxide: biofunctionalization and applications in biotechnology. 2011 , 29, 205-12	1150
1006	Spin coated graphene films as the transparent electrode in organic photovoltaic devices. 2011 , 520, 1238-124	1 70
1005	Graphene oxide-Ag nanocomposite: In situ photochemical synthesis and application as a surface-enhanced Raman scattering substrate. 2011 , 520, 179-185	50
1004	Reduced graphene oxideliO2 nanocomposite with high photocatalystic activity for the degradation of rhodamine B. 2011 , 345, 101-107	202
1003	Solvothermal synthesis and characterization of functionalized graphene sheets (FGSs)/magnetite hybrids. 2011 , 176, 1333-1339	24
1002	Application of an exfoliated graphite nanoplatelet-modified electrode for the determination of quintozen. 2011 , 31, 1553-1557	2
1001	Nanosized Li4Ti5O12/graphene hybrid materials with low polarization for high rate lithium ion batteries. 2011 , 196, 8610-8617	277
1000	Hydrogen storage in graphene decorated with Pd and Pt nano-particles using an electroless deposition technique. 2011 , 82, 210-215	79
999	A novel hydrogen peroxide biosensor based on enzymatically induced deposition of polyaniline on the functionalized graphenearbon nanotube hybrid materials. 2011 , 160, 1070-1077	92
998	Acetylcholinesterase biosensor based on 3-carboxyphenylboronic acid/reduced graphene oxidegold nanocomposites modified electrode for amperometric detection of organophosphorus and carbamate pesticides. 2011 , 160, 1255-1261	149
997	Poly(ionic liquid)-stabilized graphene sheets and their hybrid with poly(3,4-ethylenedioxythiophene). 2011 , 12, 2215-2224	72
996	Electronic structure tuning and band gap opening of graphene by hole/electron codoping. 2011 , 375, 3890-3894	55
995	Preparation and characterization of modified graphite oxide/poly(propylene carbonate) composites by solution intercalation. 2011 , 96, 1833-1840	39
994	Fabrication of exfoliated graphene-based polypropylene nanocomposites with enhanced mechanical and thermal properties. 2011 , 52, 4001-4010	480
993	Epoxy-Graphene UV-cured nanocomposites. 2011 , 52, 4664-4669	124

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992	Enhanced mechanical and electrical properties of polyimide film by graphene sheets via in situ polymerization. 2011 , 52, 5237-5242	192
991	Depositing ZnO nanoparticles onto graphene in a polyol system. 2011 , 125, 617-620	84
990	Preparation of reduced graphene oxide/cobalt oxide composites and their enhanced capacitive behaviors by homogeneous incorporation of reduced graphene oxide sheets in cobalt oxide matrix. 2011 , 130, 672-679	124
989	Polystyrene-grafted graphene with improved solubility in organic solvents and its compatibility with polymers. 2011 , 130, 794-799	29
988	Preparation of graphene nanosheet/alumina composites by spark plasma sintering. 2011, 46, 315-318	186
987	A facile method to prepare stable noncovalent functionalized graphene solution by using thionine. 2011 , 46, 583-587	48
986	Hydrothermal synthesis of graphene⊠nS quantum dot nanocomposites. 2011 , 65, 198-200	54
985	Coupled fluorescein isothiocyanate on graphene oxide. 2011 , 65, 751-753	5
984	Reduction and disorder in graphene oxide induced by electron-beam irradiation. 2011 , 65, 1229-1230	52
983	Femtosecond laser induced micropatterning of graphene film. 2011 , 65, 1569-1572	58
982	A study on the preparation of highly conductive graphene. 2011 , 65, 2582-2584	27
981	Materialization of single multicomposite nanowire: entrapment of ZnO nanoparticles in polyaniline nanowire. 2011 , 6, 393	1
980	Polycation stabilization of graphene suspensions. 2011 , 6, 493	8
979	Microwave-assisted synthesis of palladium nanoparticles supported on graphene: A highly active and recyclable catalyst for carbonBarbon cross-coupling reactions. 2011 , 279, 1-11	329
978	Controllable synthesis, magnetism and solubility enhancement of graphene nanosheets/magnetite hybrid material by covalent bonding. 2011 , 363, 98-104	41
977	Water dispersible graphene noncovalently functionalized with tryptophan and its poly(vinyl alcohol) nanocomposite. 2011 , 42, 2130-2135	117
976	Morphology, mechanical and thermal properties of graphene-reinforced poly(butylene succinate) nanocomposites. 2011 , 72, 1-6	161
975	Complementary percolation characteristics of carbon fillers based electrically percolative thermoplastic elastomer composites. 2011 , 72, 28-35	77

974	Buckling analysis of micro-/nano-scale plates based on two-variable refined plate theory incorporating nonlocal scale effects. 2011 , 93, 3093-3103	100
973	Dispersion patterns of graphene and carbon nanotubes in ceramic matrix composites. 2011 , 511, 340-343	67
972	Synthesis and characterization of nitrogen-doped monolayer and multilayer graphene on TEM copper grids. 2011 , 516, 212-215	12
971	Morphology and physical properties of poly(ethylene oxide) loaded graphene nanocomposites prepared by two different techniques. 2011 , 47, 1534-1540	140
970	Synthesis and characterization of a poly(aniline-based disulfide)/diisocyanate-modified graphite oxide hybrid by a grafting technique. 2011 , 47, 1630-1635	7
969	Polymorphism and transcrystallization of syndiotactic polystyrene composites filled with carbon nanotubes. 2011 , 47, 2087-2096	21
968	Nitrogen-rich copolymeric microsheets supporting copper nanoparticles for catalyzing arylation of N-heterocycles. 2011 , 403, 104-111	25
967	Direct electrochemical reduction of graphene oxide on ionic liquid doped screen-printed electrode and its electrochemical biosensing application. 2011 , 28, 204-9	196
966	Electrochemical synthesis of reduced graphene sheet-AuPd alloy nanoparticle composites for enzymatic biosensing. 2011 , 29, 159-66	186
965	Graphene-modified carbon fiber mats used to improve the activity and stability of Pt catalyst for methanol electrochemical oxidation. 2011 , 49, 5158-5165	62
964	Superhydrophobic polyvinylidene fluoride/graphene porous materials. 2011 , 49, 5166-5172	91
963	Ultrasonication-assisted ultrafast reduction of graphene oxide by zinc powder at room temperature. 2011 , 49, 5389-5397	296
962	Connectivity percolation of polydisperse anisotropic nanofillers. 2011 , 134, 094902	108
961	Electrochemistry of folded graphene edges. 2011 , 3, 2256-60	69
960	Graphene: learning from carbon nanotubes. 2011 , 21, 919-929	41
959	Understanding the Enhancement in Photoelectrochemical Properties of Photocatalytically Prepared TiO2-Reduced Graphene Oxide Composite. 2011 , 115, 6004-6009	377
958	Efficient Visible Light Photocatalytic Removal of NO with BiOBr-Graphene Nanocomposites. 2011 , 115, 25330-25337	185
957	A biosensor based on graphene nanoribbon with nanopores: a first-principles devices-design. 2011 , 20, 058504	32

956	Photoluminescence from chemically exfoliated MoS2. 2011 , 11, 5111-6	2897
955	Reduced graphene oxide (rGO)-wrapped fullerene (CD)wires. 2011 , 5, 8365-71	58
954	Giant broadband nonlinear optical absorption response in dispersed graphene single sheets. 2011 , 5, 554-560	354
953	A facile one-pot method to high-quality Ag-graphene composite nanosheets for efficient surface-enhanced Raman scattering. 2011 , 47, 6440-2	231
952	Graphene filled polymer nanocomposites. 2011 , 21, 3301-3310	596
951	Graphene/cellulose nanocomposite paper with high electrical and mechanical performances. 2011 , 21, 13991	213
950	Polymer nanocomposite bipolar plates reinforced with carbon nanotubes and graphite nanosheets. 2011 , 4, 605	43
949	Actuator materials based on graphene oxide/polyacrylamide composite hydrogels prepared by in situ polymerization. 2011 , 7, 7231	152
948	ABS nanocomposite films based on functionalized-graphene sheets. 2011 , 124, n/a-n/a	6
947	Hydration of Graphite Oxide in Electrolyte and Non-Electrolyte Solutions. 2011 , 115, 24611-24614	19
946	Production of stable aqueous dispersion of poly(3,4-ethylenedioxythiophene) nanorods using graphene oxide as a stabilizing agent and their application for nitrite detection. 2011 , 136, 4898-902	57
945	An infrared-light responsive graphene-oxide incorporated poly(N-isopropylacrylamide) hydrogel nanocomposite. 2011 , 7, 5604	184
944	Preparation of polyester/reduced graphene oxide composites via in situ melt polycondensation and simultaneous thermo-reduction of graphene oxide. 2011 , 21, 8612	128
943	Chemical functionalization of graphene sheets by solvothermal reduction of a graphene oxide suspension in N-methyl-2-pyrrolidone. 2011 , 21, 3371-3377	313
942	Graphene-polymer composite: extraction of polycyclic aromatic hydrocarbons from samples by stir rod sorptive extraction. 2011 , 3, 92-98	97
941	Comparing carbon nanotubes and graphene nanoplatelets as reinforcements in polyamide 12 composites. 2011 , 22, 275714	109
940	Graphene nanoplate-MnO2 composites for supercapacitors: a controllable oxidation approach. 2011 , 3, 3185-91	107

Domain structure of graphene with Hubbard interaction under conditions of emergence of a spontaneous transverse field. **2011**, 5, 215-219

937	Microwave-assisted and thermal stepwise expansion of oxidized graphites. 2011 , 5, 780-786	4
936	Ultimately short optical pulses in carbon nanotubes in dispersive nonmagnetic dielectric media. 2011 , 111, 85-90	9
935	Absolute negative conductivity of graphene with impurities in magnetic field. 2011 , 45, 628-632	1
934	Negative differential conductivity of bigraphene controlled by an external voltage in a magnetic field. 2011 , 53, 1694-1698	O
933	Ferroelectric phase transition in graphene with the Hubbard interaction. 2011 , 53, 2520-2524	
932	Thermal conductivity of a composite medium with a disperse graphene filler. 2011 , 56, 1074-1078	9
931	Direct exfoliation of graphene in methanesulfonic acid and facile synthesis of graphene/polybenzimidazole nanocomposites. 2011 , 21, 505-512	69
930	Controlled Growth of Multilayer, Few-Layer, and Single-Layer Graphene on Metal Substrates. 2011 , 115, 5232-5238	107
929	Preparation and characterisation of covalent polymer functionalized graphene oxide. 2011 , 21, 3455-3461	263
928	Graphene-Based Nanoassemblies for Energy Conversion. 2011 , 2, 242-251	553
927	Graphene based gene transfection. 2011 , 3, 1252-7	479
926	Environmentally friendly approaches toward the mass production of processable graphene from graphite oxide. 2011 , 21, 298-306	154
925	Solid-state microwave irradiation synthesis of high quality graphene nanosheets under hydrogen containing atmosphere. 2011 , 21, 680-686	128
924	Highly electrically conductive and high performance EMI shielding nanowire/polymer nanocomposites by miscible mixing and precipitation. 2011 , 21, 829-836	216
923	Stimuli-Responsive Polymer Covalent Functionalization of Graphene Oxide by Ce(IV)-Induced Redox Polymerization. 2011 , 115, 24636-24641	44
922	Reducing Graphene Oxide via Hydroxylamine: A Simple and Efficient Route to Graphene. 2011 , 115, 11957-17	1 9<u>6</u>6 6
921	Poly(2,5-dimercapto-1,3,4-thiadiazole)/sulfonated graphene composite as cathode material for rechargeable lithium batteries. 2011 , 41, 377-382	25

9 2 0	Electrical, thermal, and mechanical properties of polyarylene ether nitriles/graphite nanosheets nanocomposites prepared by masterbatch route. 2011 , 46, 824-831	37
919	Preparation and characterization of graphene/NiO nanocomposites. 2011 , 46, 1190-1195	44
918	Preparation of graphene oxideholecularly imprinted polymer composites via atom transfer radical polymerization. 2011 , 46, 2024-2029	41
917	Preparation and chemical reduction of laurylamine-intercalated graphite oxide. 2011 , 46, 3611-3621	9
916	Method for effective immobilization of Ag nanoparticles/graphene oxide composites on single-stranded DNA modified gold electrode for enzymeless H2O2 detection. 2011 , 46, 5260-5266	56
915	Graphene and Carbon Nanotube Polymer Composites for Laser Protection. 2011 , 21, 736-746	32
914	Synthesis, mechanical, and barrier properties of LDPE/graphene nanocomposites using vinyl triethoxysilane as a coupling agent. 2011 , 13, 869-878	73
913	Functionalization of thermally reduced graphene by in situ atom transfer radical polymerization. 2011 , 13, 6389-6396	40
912	Microwave-assisted rapid synthesis of Ag nanoparticles/graphene nanosheet composites and their application for hydrogen peroxide detection. 2011 , 13, 4539-4548	88
911	Microwave-assisted rapid synthesis of Pt/graphene nanosheet composites and their application for methanol oxidation. 2011 , 13, 4731-4737	34
910	Modification of Graphene Platelets and their Tribological Properties as a Lubricant Additive. 2011 , 41, 209-215	347
909	Small-scale effects on the buckling of quadrilateral nanoplates based on nonlocal elasticity theory using the Galerkin method. 2011 , 81, 1051-1062	76
908	Supercapacitor based on graphene and ionic liquid electrolyte. 2011 , 15, 2581-2585	63
907	The electrochemistry of activated carbonaceous materials: past, present, and future. 2011 , 15, 1563-1578	132
906	One-pot solvothermal synthesis of a Cu2O/Graphene nanocomposite and its application in an electrochemical sensor for dopamine. 2011 , 173, 103-109	149
905	Electrochemical oxidation of p-nitrophenol using graphene-modified electrodes, and a comparison to the performance of MWNT-based electrodes. 2011 , 174, 337-343	105
904	Voltammetric sensor for caffeine based on a glassy carbon electrode modified with Nafion and graphene oxide. 2011 , 174, 383-390	51
903	A glassy carbon electrode modified with graphene and tyrosinase immobilized on platinum nanoparticles for sensing organophosphorus pesticides. 2011 , 175, 129-135	40

902	Dispersion of graphene oxide and its flame retardancy effect on epoxy nanocomposites. 2011, 29, 368-376	43
901	MOF/graphite oxide hybrid materials: exploring the new concept of adsorbents and catalysts. 2011 , 17, 5-16	116
900	Nonlocal plate model for nonlinear bending of single-layer graphene sheets subjected to transverse loads in thermal environments. 2011 , 103, 103-112	39
899	Hydrazine reduced exfoliated graphene/graphene oxide layers and magnetoconductance measurements of Ge-supported graphene layers. 2011 , 103, 395-402	27
898	Large single-crystal monolayer graphene by decomposition of methanol. 2011 , 105, 31-37	5
897	Frictional behavior of oxide graphene nanosheets as water-base lubricant additive. 2011 , 105, 827-832	131
896	Enhanced interfacial interaction for effective reinforcement of poly(vinyl alcohol) nanocomposites at low loading of graphene. 2011 , 67, 1785-1797	38
895	Tuning graphene nanoribbon field effect transistors via controlling doping level. 2011 , 130, 483-489	4
894	Pyrenebutyrate-functionalized graphene/poly(3-octyl-thiophene) nanocomposites based photoelectrochemical cell. 2011 , 656, 269-273	21
893	Reduced graphene oxide-metal/metal oxide composites: facile synthesis and application in water purification. 2011 , 186, 921-31	421
892	Electrochemical detection of DNA damage induced by acrylamide and its metabolite at the graphene-ionic liquid-Nafion modified pyrolytic graphite electrode. 2011 , 190, 480-5	43
891	Electrical properties of graphene/SBR nanocomposite prepared by latex heterocoagulation process at room temperature. 2011 , 17, 325-330	60
890	Enhanced direct electrochemistry of glucose oxidase and biosensing for glucose via synergy effect of graphene and CdS nanocrystals. 2011 , 26, 2252-7	189
889	Simultaneous voltammetric determination for DA, AA and NOI based on graphene/poly-cyclodextrin/MWCNTs nanocomposite platform. 2011 , 26, 3977-80	115
888	Green fabrication of chitosan films reinforced with parallel aligned graphene oxide. 2011 , 83, 1908-1915	216
887	The role of graphene oxide content on the adsorption-enhanced photocatalysis of titanium dioxide/graphene oxide composites. 2011 , 170, 226-232	339
886	Synthesis of nano-carbon (nanotubes, nanofibres, graphene) materials. 2011 , 34, 607-614	58
885	Preparation, characterization, and electrocatalytic performance of graphene-methylene blue thin films. 2011 , 4, 124-130	34

88	34	Morphology-controlled fabrication of sulfonated graphene/polyaniline nanocomposites by liquid/liquid interfacial polymerization and investigation of their electrochemical properties. 2011 , 4, 323-333	99
88	33	High-quality single-layer graphene via reparative reduction of graphene oxide. 2011 , 4, 434-439	80
88	32	Selective growth of ZnO nanorods on SiO2/Si substrates using a graphene buffer layer. 2011 , 4, 440-447	55
88	31	Production of graphene nanospheres by annealing of graphene oxide in solution. 2011 , 4, 705-711	17
88	3o	Aqueous-phase synthesis of Ag-TiO2-reduced graphene oxide and Pt-TiO2-reduced graphene oxide hybrid nanostructures and their catalytic properties. 2011 , 4, 1153-1162	58
87	79	Investigations of hydrogen storage in palladium decorated graphene nanoplatelets. 2011 , 64, 169-173	9
87	78	The properties of functionalized graphene sheet/poly(ethyl methacrylate) nanocomposites: The effects of preparation method. 2011 , 19, 379-384	15
87	77	A novel hydrogen peroxide biosensor based on the BPT/AuNPs/graphene/HRP composite. 2011 , 54, 1645-1650	9
87	76	Magnetoresistance oscillations in La-based metallic glass. 2011 , 56, 3984-3987	3
87	75	Growth of carbon nanowalls at atmospheric pressure for one-step gas sensor fabrication. 2011 , 6, 202	104
87	74	High-quality reduced graphene oxide-nanocrystalline platinum hybrid materials prepared by simultaneous co-reduction of graphene oxide and chloroplatinic acid. 2011 , 6, 241	75
87	73	Preparation of Pt Ag alloy nanoisland/graphene hybrid composites and its high stability and catalytic activity in methanol electro-oxidation. 2011 , 6, 551	95
87	72	A novel mechanical cleavage method for synthesizing few-layer graphenes. 2011 , 6, 95	166
87	71	Mechanical and thermal properties of attapulgite clay reinforced polymethylmethacrylate nanocomposites. 2011 , 22, 1912-1918	27
87	70	Graphene nanocomposites based on poly(vinylidene fluoride): Structure and properties. 2011 , 32, 1483-1491	63
86	59	Investigation of the crystalline structure of PVDF in PVDF/PMMA/graphene polymer blend nanocomposites. 2011 , 32, 1451-1460	42
86	58	Filler exfoliation and dispersion in polypropylene/as-received graphite nanocomposites via cryogenic milling. 2011 , 51, 2273-2281	21
86	57	A study on the graphene incorporated direct-patternable SnO2 thin film. 2011 , 208, 1869-1872	4

866	Organic photovoltaic devices based on graphene as an electron-acceptor material and P3OT as a donor material. 2011 , 208, 2339-2343	11
865	An efficient way to functionalize graphene sheets with presynthesized polymer via ATNRC chemistry. 2011 , 49, 1582-1590	106
864	Growing poly(N-vinylcarbazole) from the surface of graphene oxide via RAFT polymerization. 2011 , 49, 2043-2050	73
863	Nonisothermal crystallization kinetics of in situ nylon 6/graphene composites by differential scanning calorimetry. 2011 , 49, 1381-1388	38
862	Preparation of graphene/poly(vinyl alcohol) nanocomposites with enhanced mechanical properties and water resistance. 2011 , 60, 816-822	242
861	Enhanced chemotherapy efficacy by sequential delivery of siRNA and anticancer drugs using PEI-grafted graphene oxide. 2011 , 7, 460-4	478
860	Graphene-based materials: synthesis, characterization, properties, and applications. 2011 , 7, 1876-902	1968
859	Chemical preparation of graphene-based nanomaterials and their applications in chemical and biological sensors. 2011 , 7, 2413-27	201
858	Graphene oxide as a carbon source for controlled growth of carbon nanowires. 2011 , 7, 1199-202	72
857	Centimeter-scale high-resolution metrology of entire CVD-grown graphene sheets. 2011 , 7, 2598-606	25
856	Preparation of novel 3D graphene networks for supercapacitor applications. 2011 , 7, 3163-8	925
855	Flexible and transparent electrothermal film heaters based on graphene materials. 2011 , 7, 3186-92	311
854	IxV curves of boron and nitrogen doping zigzag graphene nanoribbons. 2011 , 111, 1379-1386	16
853	Automated detection and characterization of graphene and few-layer graphite via Raman spectroscopy. 2011 , 42, 286-293	23
852	Poly(propylene)/Graphene Nanoplatelet Nanocomposites: Melt Rheological Behavior and Thermal, Electrical, and Electronic Properties. 2011 , 212, 1951-1959	161
851	Films of Highly Disperse Electrodeposited Poly(N-vinylcarbazole) © raphene Oxide Nanocomposites. 2011 , 212, 2371-2377	12
850	Preparation and Characterization of High-Performance Poly(trimethylene terephthalate) Nanocomposites Reinforced with Exfoliated Graphite. 2011 , 296, 159-167	14
849	Synthesis and Drug-Delivery Behavior of Chitosan-Functionalized Graphene Oxide Hybrid Nanosheets. 2011 , 296, 131-140	281

848	Dispersion and Exfoliation of Graphene in Rubber by an Ultrasonically-Assisted Latex Mixing and In situ Reduction Process. 2011 , 296, 590-602	199
847	Transparent and Conductive Graphene Oxide/Poly(ethylene glycol) diacrylate Coatings Obtained by Photopolymerization. 2011 , 296, 401-407	38
846	Functionalized Graphene B VDF Foam Composites for EMI Shielding. 2011 , 296, 894-898	297
845	Fabrication of nanofillers into a granular "nanosupport" for Ziegler-Natta catalysts: towards scalable in situ preparation of polyolefin nanocomposites. 2011 , 32, 1052-9	17
844	Fabrication of GrapheneQuantum Dots Composites for Sensitive Electrogenerated Chemiluminescence Immunosensing. 2011 , 21, 869-878	287
843	Water-Soluble Poly(N-isopropylacrylamide) © raphene Sheets Synthesized via Click Chemistry for Drug Delivery. 2011 , 21, 2754-2763	383
842	Combination of Graphene Oxide and Thiol-Activated DNA Metallization for Sensitive Fluorescence Turn-On Detection of Cysteine and Their Use for Logic Gate Operations. 2011 , 21, 4565-4572	123
841	Emerging transparent electrodes based on thin films of carbon nanotubes, graphene, and metallic nanostructures. 2011 , 23, 1482-513	1737
840	Graphene functionalized with azo polymer brushes: surface-initiated polymerization and photoresponsive properties. 2011 , 23, 1122-5	105
839	Functional composite materials based on chemically converted graphene. 2011 , 23, 1089-115	859
838	Graphene-biomineral hybrid materials. 2011 , 23, 2009-14	151
837	Bioinspired effective prevention of restacking in multilayered graphene films: towards the next generation of high-performance supercapacitors. 2011 , 23, 2833-8	888
836	Graphene as transparent electrode material for organic electronics. 2011 , 23, 2779-95	612
835	Bio-inspired borate cross-linking in ultra-stiff graphene oxide thin films. 2011 , 23, 3842-6	245
834	Colorimetric biosensing using smart materials. 2011 , 23, 4215-36	503
833	Interphases in graphene polymer-based nanocomposites: achievements and challenges. 2011 , 23, 5302-10	228
832	Supramolecular hydrogel of bile salts triggered by single-walled carbon nanotubes. 2011 , 23, 4053-7	40
831	Two-dimensional nanocrystals produced by exfoliation of Ti3 AlC2. 2011 , 23, 4248-53	4846

830	Graphene - a promising material for organic photovoltaic cells. 2011, 23, 5342-58	218
829	Facile preparation of high-quality graphene scrolls from graphite oxide by a microexplosion method. 2011 , 23, 4929-32	87
828	Carbon Nanomaterials for Dye-Sensitized Solar Cell Applications: A Bright Future. 2011 , 1, 472-485	169
827	In-Plane Vacancy-Enabled High-Power Si ß raphene Composite Electrode for Lithium-Ion Batteries. 2011 , 1, 1079-1084	366
826	Unique hydrogen adsorption properties of graphene. 2011 , 57, 2902-2908	51
825	Lithium Storage Characteristics in Nano-Graphene Platelets. 2011 , 117-127	2
824	Functionalized Graphene for Biosensing Applications. 2011 , 221-235	
823	Preparation and Application of Mediator-Free H2O2 Biosensors of Graphene-Fe3O4 Composites. 2011 , 23, 862-869	69
822	Graphene-Modified Carbon Fiber Microelectrode for the Detection of Dopamine in Mice Hippocampus Tissue. 2011 , 23, 907-914	40
821	A Metal-Free Approach Based on Graphene Oxide-Modified Electrode for Monitoring the Photoelectrocatalytic Degradation of EDTA. 2011 , 23, 2373-2378	5
820	Polystyrene/graphene composite electrode fabricated by in situ polymerization for capillary electrophoretic determination of bioactive constituents in Herba Houttuyniae. 2011 , 32, 1906-12	28
819	Preparation of Graphene-ZnS Nanocomposites via Hydrothermal Method Using Two Sulfide Sources. 2011 , 29, 719-723	5
818	Carbogenic nanodots: photoluminescence and room-temperature ferromagnetism. 2011, 12, 2624-32	47
817	Palladium Nanoparticles on Graphite Oxide as Catalyst for Suzuki?Miyaura, Mizoroki?Heck, and Sonogashira Reactions. 2011 , 94, 966-976	49
816	Transport properties of graphene nanoribbon-based molecular devices. 2011 , 32, 737-41	6
815	Interactions between free radicals and a graphene fragment: physical versus chemical bonding, charge transfer, and deformation. 2011 , 32, 3264-8	27
814	Enhancing polymer performance through graphene sheets. 2011 , 119, 3670-3674	71
813	Improved properties of highly oriented graphene/polymer nanocomposites. 2011 , 121, 3167-3174	57

812	Water-based amorphous carbon nanotubes filled polymer nanocomposites. 2011 , 122, 1986-1992	7
811	Preparation and mechanical and electrical properties of graphene nanosheetspoly(methyl methacrylate) nanocomposites via in situ suspension polymerization. 2011 , 122, 1866-1871	69
810	Graphenoxid als Katalysator: Kohlenstoffmaterialien in Anwendungen jenseits der Nanotechnologie. 2011 , 123, 46-48	31
809	Graphene Oxide Liquid Crystals. 2011 , 123, 3099-3103	39
808	Asymmetrically Functionalized Graphene for Photodependent Diode Rectifying Behavior. 2011 , 123, 6705-6708	8
807	Graphen: Materialien im Flachland (Nobel- Aufsatz). 2011 , 123, 7123-7141	22
806	Stabilisierung von Eisenoxid-Nanostrukturen mit mehrlagigem Kohlenstoff und Einsatz als Oxidationskatalysator. 2011 , 123, 10419-10423	6
805	Genetic Engineering of Biomimetic Nanocomposites: Diblock Proteins, Graphene, and Nanofibrillated Cellulose. 2011 , 123, 8847-8850	15
804	Gold Nanoclusters and Graphene Nanocomposites for Drug Delivery and Imaging of Cancer Cells. 2011 , 123, 11848-11852	13
803	Graphene oxide as catalyst: application of carbon materials beyond nanotechnology. 2011 , 50, 46-8	336
802	Graphene oxide liquid crystals. 2011 , 50, 3043-7	453
801	Asymmetrically functionalized graphene for photodependent diode rectifying behavior. 2011 , 50, 6575-8	42
800	Graphene: materials in the Flatland (Nobel lecture). 2011 , 50, 6986-7002	133
799	Layered-carbon-stabilized iron oxide nanostructures as oxidation catalysts. 2011 , 50, 10236-40	60
798	Genetic engineering of biomimetic nanocomposites: diblock proteins, graphene, and nanofibrillated cellulose. 2011 , 50, 8688-91	125
797	Gold nanoclusters and graphene nanocomposites for drug delivery and imaging of cancer cells. 2011 , 50, 11644-8	258
796	Graphene-based multifunctional iron oxide nanosheets with tunable properties. 2011 , 17, 1214-9	71
795	Charm-bracelet-type poly(N-vinylcarbazole) functionalized with reduced graphene oxide for broadband optical limiting. 2011 , 17, 780-5	63

794	Visible-light-induced dye degradation over copper-modified reduced graphene oxide. 2011 , 17, 2428-34	74
793	Graphene oxide noncovalent photosensitizer and its anticancer activity in vitro. 2011 , 17, 12084-91	91
792	Synthesis and characterization of red-luminescent graphene oxide functionalized with silica-coated Eu3+ complex nanoparticles. 2011 , 17, 7007-12	23
791	In situ growth of TiO2 in interlayers of expanded graphite for the fabrication of TiO2-graphene with enhanced photocatalytic activity. 2011 , 17, 8379-87	128
790	One-pot functionalization of graphene with porphyrin through cycloaddition reactions. 2011 , 17, 8957-64	115
789	Two-dimensional nanocomposites based on chemically modified graphene. 2011 , 17, 10804-12	61
788	The free volume in acrylic resin/laponite nanocomposite coatings. 2011, 47, 264-272	18
787	Semiconductor/reduced graphene oxide nanocomposites derived from photocatalytic reactions. 2011 , 164, 353-357	155
786	Electrochemical preparation of free-standing few-layer graphene through oxidation deduction cycling. 2011 , 171, 340-344	38
785	Magnetic Fe3O4-graphene oxide/polystyrene: Fabrication and characterization of a promising nanocomposite. 2011 , 172, 540-549	241
784	Self-assembled graphene platelet-glucose oxidase nanostructures for glucose biosensing. 2011 , 26, 4491-6	158
783	Amplified electrochemiluminescence of quantum dots by electrochemically reduced graphene oxide for nanobiosensing of acetylcholine. 2011 , 26, 4552-8	80
782	Photocatalytic reduction of graphene oxides hybridized by ZnO nanoparticles in ethanol. 2011 , 49, 11-18	324
781	Flexible conductive graphene/poly(vinyl chloride) composite thin films with high mechanical strength and thermal stability. 2011 , 49, 198-205	415
780	Highly reversible Co3O4/graphene hybrid anode for lithium rechargeable batteries. 2011, 49, 326-332	327
779	Thin films of carbon nanotubes and chemically reduced graphenes for electrochemical micro-capacitors. 2011 , 49, 457-467	237
778	Fabrication of metal-graphene hybrid materials by electroless deposition. 2011 , 49, 477-483	100
777	The use of microwave irradiation for the easy synthesis of graphene-supported transition metal nanoparticles in ionic liquids. 2011 , 49, 1326-1332	126

776	Synergetic effects of graphene platelets and carbon nanotubes on the mechanical and thermal properties of epoxy composites. 2011 , 49, 793-803	674
775	Synthesis and electrocatalytic oxygen reduction activity of graphene-supported Pt3Co and Pt3Cr alloy nanoparticles. 2011 , 49, 931-936	154
774	Distribution and biocompatibility studies of graphene oxide in mice after intravenous administration. 2011 , 49, 986-995	570
773	Comparison of electrical properties between multi-walled carbon nanotube and graphene nanosheet/high density polyethylene composites with a segregated network structure. 2011 , 49, 1094-1100	320
772	Graphene oxide/polybenzimidazole composites fabricated by a solvent-exchange method. 2011 , 49, 1199-1207	149
771	Enhanced thermal stability in graphene oxide covalently functionalized with 2-amino-4,6-didodecylamino-1,3,5-triazine. 2011 , 49, 1258-1265	186
77°	Electronic structure of graphite oxide and thermally reduced graphite oxide. 2011, 49, 1362-1366	187
769	The production of graphene nanosheets decorated with silver nanoparticles for use in transparent, conductive films. 2011 , 49, 1550-1560	293
768	The effect of electric field, annealing temperature and filler loading on the percolation threshold of polystyrene containing carbon nanotubes and graphene nanosheets. 2011 , 49, 1980-1988	99
767	Rheological and conductive percolation laws for syndiotactic polystyrene composites filled with carbon nanocapsules and carbon nanotubes. 2011 , 49, 2334-2344	51
766	Pulsed laser assisted reduction of graphene oxide. 2011 , 49, 2431-2436	166
765	Thermomechanical properties of chemically modified graphene/poly(methyl methacrylate) composites made by in situ polymerization. 2011 , 49, 2615-2623	187
764	Graphene and nanostructured MnO2 composite electrodes for supercapacitors. 2011 , 49, 2917-2925	616
763	Hydrazine-reduction of graphite- and graphene oxide. 2011 , 49, 3019-3023	1190
762	One-step synthesis of NH2-graphene from in situ graphene-oxide reduction and its improved electrochemical properties. 2011 , 49, 3250-3257	322
761	Photochemical loading of metal nanoparticles on reduced graphene oxide sheets using phosphotungstate. 2011 , 49, 3454-3462	91
760	Efficient synthesis of graphene sheets using pyrrole as a reducing agent. 2011 , 49, 3497-3502	175
759	High-concentration organic solutions of poly(styrene-co-butadiene-co-styrene)-modified graphene sheets exfoliated from graphite. 2011 , 49, 3529-3537	77

758	A simple one-pot strategy for the synthesis of ternary reduced graphite oxide/SnO2/Au hybrid nanomaterials. 2011 , 49, 3538-3543	31
757	Reinforcing effects of adding alkylated graphene oxide to polypropylene. 2011 , 49, 3553-3559	115
756	Mechanical properties of graphyne. 2011 , 49, 4111-4121	314
755	Electrical conductivity maps in graphene nanoplatelet/silicon nitride composites using conducting scanning force microscopy. 2011 , 49, 3873-3880	74
754	Graphene phytotoxicity in the seedling stage of cabbage, tomato, red spinach, and lettuce. 2011 , 49, 3907-3919	285
753	In vitro and in vivo behaviors of dextran functionalized graphene. 2011 , 49, 4040-4049	273
75 ²	The production of multi-layer graphene nanoribbons from thermally reduced unzipped multi-walled carbon nanotubes. 2011 , 49, 4170-4178	42
751	Characterisation of graphite nanoplatelets and the physical properties of graphite nanoplatelet/silicone composites for thermal interface applications. 2011 , 49, 4269-4279	97
750	Changes in graphite oxide texture and chemistry upon oxidation and reduction and their effect on adsorption of ammonia. 2011 , 49, 4392-4402	58
749	Microwave syntheses of graphene and graphene decorated with metal nanoparticles. 2011 , 49, 4449-4457	54
749 748	Microwave syntheses of graphene and graphene decorated with metal nanoparticles. 2011 , 49, 4449-4457 Mechanical properties of bilayer graphene sheets coupled by sp3 bonding. 2011 , 49, 4511-4517	54 191
748	Mechanical properties of bilayer graphene sheets coupled by sp3 bonding. 2011 , 49, 4511-4517 Reversible phase transfer of graphene oxide and its use in the synthesis of graphene-based hybrid	191
74 ⁸	Mechanical properties of bilayer graphene sheets coupled by sp3 bonding. 2011 , 49, 4511-4517 Reversible phase transfer of graphene oxide and its use in the synthesis of graphene-based hybrid materials. 2011 , 49, 4563-4570 Simultaneous surface functionalization and reduction of graphene oxide with octadecylamine for	191 39
748 747 746	Mechanical properties of bilayer graphene sheets coupled by sp3 bonding. 2011, 49, 4511-4517 Reversible phase transfer of graphene oxide and its use in the synthesis of graphene-based hybrid materials. 2011, 49, 4563-4570 Simultaneous surface functionalization and reduction of graphene oxide with octadecylamine for electrically conductive polystyrene composites. 2011, 49, 4724-4730 Solution-based synthesis and characterization of a silver nanoparticle@raphene hybrid film. 2011,	191 39 322
748 747 746 745	Mechanical properties of bilayer graphene sheets coupled by sp3 bonding. 2011, 49, 4511-4517 Reversible phase transfer of graphene oxide and its use in the synthesis of graphene-based hybrid materials. 2011, 49, 4563-4570 Simultaneous surface functionalization and reduction of graphene oxide with octadecylamine for electrically conductive polystyrene composites. 2011, 49, 4724-4730 Solution-based synthesis and characterization of a silver nanoparticle@raphene hybrid film. 2011, 49, 4731-4738 Preparation of chitosan/graphene oxide composite film with enhanced mechanical strength in the	191 39 322 116
748 747 746 745	Mechanical properties of bilayer graphene sheets coupled by sp3 bonding. 2011, 49, 4511-4517 Reversible phase transfer of graphene oxide and its use in the synthesis of graphene-based hybrid materials. 2011, 49, 4563-4570 Simultaneous surface functionalization and reduction of graphene oxide with octadecylamine for electrically conductive polystyrene composites. 2011, 49, 4724-4730 Solution-based synthesis and characterization of a silver nanoparticle@raphene hybrid film. 2011, 49, 4731-4738 Preparation of chitosan/graphene oxide composite film with enhanced mechanical strength in the wet state. 2011, 83, 653-658 Cellulose/graphite oxide composite films with improved mechanical properties over a wide range	191 39 322 116 410

740	Synthesis of silver nanoparticles in an aqueous suspension of graphene oxide sheets and its antimicrobial activity. 2011 , 83, 16-22	354
739	Vibration characteristics of embedded multi-layered graphene sheets with different boundary conditions via nonlocal elasticity. 2011 , 93, 2419-2429	132
738	A highly sensitive and rapid organophosphate biosensor based on enhancement of CdS-decorated graphene nanocomposite. 2011 , 695, 84-8	105
737	Significantly enhanced photocatalytic performance of ZnO via graphene hybridization and the mechanism study. 2011 , 101, 382-387	950
736	Gram-scale production of graphene oxideTiO2 nanorod composites: Towards high-activity photocatalytic materials. 2011 ,	15
735	Microwave-assisted covalent modification of graphene nanosheets with chitosan and its electrorheological characteristics. 2011 , 257, 2637-2642	115
734	An easy and novel approach for the decoration of graphene oxide by Fe3O4 nanoparticles. 2011 , 257, 6059-6062	46
733	Effect of Quenching Medium on Sliding Tribology of Self-Lubricating Al-Cu Metal Matrix Composites. 2020 , 15, 142-149	
732	Effects of Aviation Lubrication on Tribological Performances of Graphene/MoS2 Composite Coating. 2021 , 143,	3
731	Nanocomposite Polymer Adhesives. 2020 , 93-167	
730	Excellent heat transfer and phase transformation performance of erythritol/graphene composite phase change materials. 2021 , 228, 109435	12
729	Computational Modeling of Hybrid Carbon Fiber/Epoxy Composites Reinforced with Functionalized and Non-Functionalized Graphene Nanoplatelets. 2021 , 11,	O
728	Effect of light irradiation on heightened adsorption of dyes by hydrothermal carbon microspheres. 2021 , 1250, 131813	O
727	Construction of 3D Conductive Network in Liquid Gallium with Enhanced Thermal and Electrical Performance. 2100970	3
726	H2S and SO2 adsorption on Cu doped MoSe2: DFT investigation. 2021 , 422, 127798	3
725	Engineered Magnetic Carbon-Based Adsorbents for the Removal of Water Priority Pollutants: An Overview. 2021 , 2021, 1-41	O
724	Facile fabrication of a fast-response flexible temperature sensor via laser reduced graphene oxide for contactless human-machine interface. 2021 , 187, 35-35	4
723	Flexible sensor with electrophoretic polymerized graphene oxide/PEDOT:PSS composite for voltammetric determination of dopamine concentration. 2021 , 11, 21101	4

722	Electrochemical Corrosion Resistance and Electrical Conductivity of Three-Dimensionally Interconnected Graphene-Reinforced Cu Composites. 2021 , 59, 821-828	1
721	Improvement of physicochemical properties of ternary nanocomposites based on hydroxyapatite/CuO/graphene oxide for biomedical usages. 2021 , 48, 3993-3993	9
720	Zn-doped BiMoO supported on reduced graphene oxide with increased surface active sites for degradation of ciprofloxacin. 2021 , 29, 19835	0
719	Enhanced Mechanical Properties of Polyhydroxyamide/Graphene Nanosheets Nanocomposites. 2020 , 21, 2976-2982	1
718	Graphene Functionalized Starch Biopolymer Nanocomposites: Fabrication, Characterization, and Applications. 2021 , 173-189	2
717	Graphene Functionalization for Polymer Nanocomposites. 1-50	
716	Functionalization of Graphene Based Biopolymer Nanocomposites for Packaging and Building Applications. 2021 , 251-271	
715	Ultra-High Molecular Weight Polyethylene and Graphene Oxide (UHMWPE/GO) Nano Composites for EMI Shielding. 2021 , 1-26	
714	3D printing copper lGraphene oxide nanocomposites. 2021 ,	
713	Rapid electrochemical recognition of trimethoprim in human urine samples using new modified electrodes (CPE/Ag/Au NPs) analysing tunable electrode properties: experimental and theoretical studies. 2021 , 146, 7653-7669	O
712	Hyperbranched graphene oxide structure-based epoxy nanocomposite with simultaneous enhanced mechanical properties, thermal conductivity, and superior electrical insulation. 2022 , 217, 109082	4
711	Thermo-mechanical postbuckling analysis of sandwich plates with functionally graded auxetic GRMMC core on elastic foundations. 2022 , 279, 114796	3
710	Inhibiting the interfacial reaction between few-layered graphene and titanium via SiC nanoparticle decoration. 2022 , 893, 162183	1
709	Nanofluids based on hydrolyzed polyacrylamide and aminated graphene oxide for enhanced oil recovery in different reservoir conditions. 2022 , 310, 122299	2
708	Multifunctional nacre-mimetic Ti3C2Tx films with tunable conductivity and mechanical properties by controlling interlay supramolecular interactions. 2022 , 430, 132852	1
707	Encyclopedia of Complexity and Systems Science. 2020 , 1-61	О
706	Graphene- Based Metal and Metal Oxide Nanocomposites. 2020 , 55-72	
705	Prospects of nanocomposite membranes in commercial scale. 2020 , 457-473	

704	Hydrogen and Fuel Cells in Transport Road, Rail, Air, and Sea. 2020,	О
703	Introduction. 2020 , 1-23	
702	Metal Oxide Nanocomposites: State-of-the-Art and New Challenges. 2020 , 1-26	1
701	Wearable Antenna Materials. 2020 , 139-162	
700	Two-Dimensional Crystals: Graphene, Silicene, Germanene, and Stanene. 2020 , 243-266	
699	Ultrafast pulse lasers based on two-dimensional nanomaterial heterostructures as saturable absorber. 2020 , 69, 188102	2
698	Effects of Defects and Doping on an Al Atom Adsorbed on Graphene: A First-Principles Investigation. 2020 , 10, 131	
697	Continuum percolation in colloidal dispersions of hard nanorods in external axial and planar fields. 2021 , 17, 10458-10468	
696	Preparation of Polyethylene-Reduced Graphene Oxide and Polyethylene-Reduced Graphene Oxide-Aramid Composites. 427-438	
695	A Potential High-Throughput Route to Collagen-Mimicked Carbon Nanotube Fiber via Domino Pushing and Ion Bombardment. 2020 , 87,	O
694	Polyvinyl Alcohol Polymer Functionalized Graphene Oxide Decorated with Gadolinium Oxide for Sequestration of Radionuclides from Aqueous Medium: Characterization, Mechanism, and Environmental Feasibility Studies. 2021 , 13,	6
693	The Ripple Effect of Graphite Nanofilm on Stretchable Polydimethylsiloxane for Optical Sensing. 2021 , 11,	1
692	Electrically and thermally graded microcellular polymer/graphene nanoplatelet composite foams and their EMI shielding properties. 2021 ,	5
691	Enhancement of chromic-piezoelectric sensitivity responses of polyvinylidene fluoride/polydiacetylene nanofibers using graphene oxide. 2021 , 28, 1	1
690	Roll-to-Roll Dry Transfer of Large-Scale Graphene. 2021 , e2106615	6
689	Effect of Fibre Surface Treatment and Nanofiller Addition on the Mechanical Properties of Flax/PLA Fibre Reinforced Epoxy Hybrid Nanocomposite. 2021 , 13,	5
688	Hydrogen Generation Induced by Ultraviolet Light Irradiation on Hydrogen Boride Sheets. 2020 , 63, 352-357	
687	Investigation of Metal-Oxide/Reduced Graphene-Oxide Nanocomposites for Gas Sensor Applications. 2021 , 211-227	2

686	Surface Science of Graphene-Based Monoliths and Their Electrical, Mechanical, and Energy Applications.	О
685	Efficient Carbon Nanocomposites as a Sustainable Adsorbents/Photocatalyst for Water Purification. 2021 , 175-202	1
684	Potential Applications of Graphene-Based Nanomaterials in Biomedical, Dental, and Implant Applications. 2021 , 77-105	1
683	Consistent evaluation of continuum scale properties of two-dimensional materials: a case study on graphene. 2021 , 33, 025001	1
682	Multidimensional graphene nanostructures Bynthesis and applications. 2020, 92, 1929-1936	2
681	Time-dependent study of graphene oxide-trypsin adsorption interface and visualization of nano-protein corona. 2020 , 163, 2259-2269	4
680	Roadblocks faced by graphene in replacing graphite in large-scale applications. 2020 , 1,	1
679	Research progress in molecular dynamics simulation of CNT and graphene reinforced metal matrix composites. 2020 , 1,	1
678	Hybrid machine-learning-assisted quantification of the compound internal and external uncertainties of graphene: towards inclusive analysis and design.	4
677	Graphene: Structure, properties, preparation, modification, and applications. 2022 , 1-24	
676	Multifunctional polymeric nanocomposites with graphene. 2022 , 25-44	
675	Graphene quantum dots, graphene nanoplatelets, and graphene nanoribbons with polymers. 2022 , 91-116	
674	Substrate-assisted Fermi level shifting of CVD graphene by swift heavy ions. 2022 , 28, 101625	О
673	Graphene-enabled wearable sensors for healthcare monitoring. 2022, 197, 113777	14
672	Thermal percolation and electrical insulation in composite materials with partially metallic coated fillers. 2021 , 119, 211602	1
671	High-strength Al matrix composites reinforced with uniformly dispersed nanodiamonds. 2021 , 162917	3
670	Au-PEDOT/rGO nanocomposites functionalized graphene electrochemical transistor for ultra-sensitive detection of acetaminophen in human urine 2022 , 1191, 339306	2
669	DFT investigation of H2S and SO2 adsorption on Zn modified MoSe2. 2021 , 107098	O

668	Effect of reconstructed vacancy defects on the crumpling behavior of graphene sheets. 2021 , 6, 100057	2
667	Exploring the mechanical properties of two-dimensional carbon-nitride polymer nanocomposites by molecular dynamics simulations. 2021 , 115004	O
666	The Strategy of Achieving Flexibility in Materials and Configuration of Flexible Lithium-Ion Batteries. 2021 , 9, 2100539	2
665	Graphene Family Nanomaterials (GFN)-TiO for the Photocatalytic Removal of Water and Air Pollutants: Synthesis, Characterization, and Applications 2021 , 11,	1
664	A simple low-cost method to prepare gel electrolytes incorporating graphene oxide with increased ionic conductivity and electrochemical stability. 2021 , 907, 115889	2
663	A reduced graphene oxide-FeO composite functionalized with cetyltrimethylammonium bromide for efficient adsorption of SARS-CoV-2 spike pseudovirus and human enteric viruses. 2021 , 132995	1
662	Laser-Induced Graphene Heater Pad for De-Icing. 2021 , 11,	O
661	Application of doping graphene quantum dots and gold nanoparticles on dye-sensitized solar cells.	
660	Graphene Oxide-Copper Nanocomposites Suppress Cariogenic Biofilm Formation. 2021 , 16, 7727-7739	5
659	Microstructure, morphology, Physico-chemical properties of nanocomposites containing hydroxyapatite/vivianite/graphene oxide for biomedical applications. 2021 ,	5
658	Silica-Based Composites with Enhanced Rheological Properties Thanks to a Nanosized Graphite Functionalized with Serinol Pyrrole. 2021 , 11, 11410	O
657	One-step functionalization of mildly and strongly reduced graphene oxide with maleimide: an experimental and theoretical investigation of the Diels-Alder [4+2] cycloaddition reaction 2022 ,	O
656	Effects of thermal treatments on the hydrophobicity and anticorrosion properties of as-grown graphene coatings 2021 , 11, 36354-36359	1
655	Quantum Hall Conductivity in Degenerate Electron Gas in Graphene-Like System. 2021 , 195-200	
654	Electrical Conductivity for Quasiparticle Graphene-Like System. 2021, 187-193	
653	Lithium Ions Batteries Electrodes Materials, Design, Outlook and Future Perspectives. 2021 , 353, 01022	
652	Lithium sulfur batteries: Electrochemistry and mechanistic research. 2021,	
651	3D Hierarchical Ti 3C 2T X@NiO-Reduced Graphene Oxide Heterostructure Hydrogel as Free-Standing Electrodes for High Performance Supercapacitor.	

650	Study on Structure-Performance Relationship of RGO Enhanced Polypropylene Composites with Improved Atomic Oxygen Resistance.	
649	A study on interfacial behaviors of epoxy/graphene oxide derived from pitch-based graphite fibers. 2021 , 10, 1827-1837	2
648	Consumer Nanoproducts Based on Graphene and Graphene-Based Nanocomposite. 2021, 1-22	
647	Exciting new Nan composite by using the solar energy to remove BG dye pollutants from waste water. 2021 ,	
646	Thickness and Layer Stacking Order Effects on Complex Optical Conductivity and Exciton Strength of Few-Layer Graphene: Implications for Optical Modulators and Photodetectors.	3
645	Preparation and electromagnetic shielding performances of graphene/TPUBVDF nanocomposites by high-energy ball milling. 1	O
644	Graphene oxide as nano-material in developing sustainable concrete 🖪 brief review. 2022,	1
643	The effects of Co/Ni-vacancy complex defects on the electronic and transport properties of armchair silicene nanoribbon. 2022 , 96, 1	
642	Interface effects from moisture in nanocomposites of 2D graphene oxide in cellulose nanofiber (CNF) matrix [A molecular dynamics study.	Ο
641	Graphene dispersed by pyrene-terminated polyethylene glycol for reinforced epoxy composites. 52110	1
640	Enhanced thermal and electrical properties by Ag nanoparticles decorated GO-CNT nanostructures in PEEK composites. 2022 , 218, 109201	2
639	Finite-size scaling effects of chemically induced transformations: From T12-carbon to a composite carbon-cage structure. 2022 , 122, 108829	
638	Caustic production from industrial green liquor using alkali resistant composite cation exchange membrane. 2022 , 10, 107016	1
637	A prediction model for photopatternable thickness of photocurable polymer nanocomposites containing carbon-based high-aspect-ratio fillers. 2022 , 218, 109207	2
636	Constructing segregated thermoset composite via Pickering emulsion and dynamic polythiourethanes. 2022 , 218, 109215	Ο
635	Thermo-mechanical postbuckling analysis of sandwich cylindrical shells with functionally graded auxetic GRMMC core surrounded by an elastic medium. 2022 , 171, 108755	2
634	Wear properties of textured lubricant films filled with graphite and polytetrafluoroethylene (PTFE) via laser surface texturing (LST). 2022 , 167, 107414	3
633	Coupled dynamics of axially functionally graded graphene nanoplatelets-reinforced viscoelastic shear deformable beams with material and geometric imperfections. 2022 , 136, 4-36	2

632	Construction of functionalized graphene separation membranes and their latest progress in water purification. 2022 , 285, 120301	1
631	Interfacial energy dissipation in bio-inspired graphene nanocomposites. 2022 , 219, 109216	Ο
630	3D hierarchical Ti3C2TX @NiO-reduced graphene oxide heterostructure hydrogel as free-standing electrodes for high performance supercapacitor. 2022 , 901, 163614	4
629	Graphene oxide modulates inter-particle interactions in 3D printable soft nanocomposite hydrogels restoring magnetic hyperthermia responses 2021 , 611, 533-544	4
628	Graphene : An Out Standing Material. 6,	
627	Effective Passive Phase-Change Light-Emitting Diode Cooling System Using Graphene Nanoplatelets Coatings.	
626	The synergetic effect of an aqua ligand and metal site on the performance of single-atom catalysts in HO synthesis: a density functional theory study 2022 ,	1
625	Nanotechnology-based thermosets. 2022 , 833-890	1
624	Synthesis and Applications of Graphene Oxide 2022 , 15,	10
623	Parametric Instability of Rotating Functionally Graded Graphene Reinforced Truncated Conical Shells Subjected to Both Mechanical and Thermal Loading Conditions.	Ο
622	Graphene for Antimicrobial and Coating Application 2022 , 23,	4
621	Preparation and properties of a self-crosslinking styrene acrylic emulsion using amino-functional graphene oxide as a crosslinking agent and anti-corrosion filler. 2022 , 16, 1814-1823	1
620	Finite temperature mechanics of multilayer 2D materials. 2022 , 52, 101612	O
619	Shear enhancement of mechanical and microstructural properties of synthetic graphite and ultra-high molecular weight polyethylene carbon composites. 52175	Ο
618	Fabrication of polymer nanocomposite-based fractional-order capacitor: a guide. 2022 , 437-483	2
617	Experimental research on moulding of graphene/PEKK composite powder by spark plasma sintering technology. 2022 , 128, 1	2
616	Effect of chirality and defects on tensile behavior of carbon nanotubes and graphene: Insights from molecular dynamics. 2022 , 121, 108769	0
615	Recent advances on graphene-based materials as cathode materials in lithium-sulfur batteries. 2022 , 47, 8630-8657	2

614	Electrochemical functionalization of carbon nanomaterials and their application in immobilization of enzymes. 2022 , 67-103	
613	Graphene Oxide for Elimination of Dyes. 2022, 1	
612	Optimizing Graphene Oxide Encapsulated TiO2 and Hydroxyapatite; Structure and Biological Response. 2022 , 32, 1306	
611	Synthesize rGO-Ag NPs nanocomposite by a simple physical method and applying in water treatment. 2022 ,	O
610	Applications of Microbes in Electric Generation. 2022, 191-218	
609	A review of sodium chloride-based electrolytes and materials for electrochemical energy technology. 2022 , 10, 2637-2671	3
608	Microwave-Assisted Direct Growth of Carbon Nanotubes at Graphene Oxide Nanosheets to Promote the Stereocomplexation and Performances of Polylactides. 2022 , 61, 1111-1121	1
607	Well dispersed rGO in PVDF, PMMA and PTFE matrix: A nanocomposite with hydrophilic, capacitive, and improved tensile strength nature. 2022 , 121, 108773	O
606	The rheological and mechanical properties of natural rubber/graphene composites. 2022, 963, 012026	
605	Fly ash-reinforced poly(vinyl alcohol) composites. 2022 , 291-299	
604	Photothermal strategy for the highly efficient conversion of glucose into lactic acid at low temperatures over a hybrid multifunctional multi-walled carbon nanotube/layered double hydroxide catalyst. 2022 , 24, 813-822	1
603	Characteristics, properties, synthesis and advanced applications of 2D graphdiyne versus graphene.	2
602	Effect of graphene wrinkle degree on the interfacial behavior between iron and graphene: Atomic simulation. 2022 , 351, 118598	О
601	Ion-Selective Covalent Organic Framework Membranes as a Catalytic Polysulfide Trap to Arrest the Redox Shuttle Effect in Lithium-Sulfur Batteries 2022 ,	5
600	The electrical and optical behavior of graphene oxide-doped nematic liquid crystal. 2022, 33, 5720	1
599	Cellulose-based composite carbon nanofibers. 2022 , 159-174	
598	Synthesis of Graphene Based Nanocomposite from Captured Industrial Carbon. 2022, 129-155	
597	Highly Regulatable Heat Conductance of GrapheneBericin Hybrid for Responsive Textiles. 2111121	3

596	Physical, mechanical and viscoelastic properties of Biocomposite produced from polylactic acid (PLA) and wood flour using graphene nanoparticles. 1-8	1
595	Guided self-assembly of polyethene on graphene. 2022,	
594	The effect of end group and graphene on dielectric properties and thermal degradation of poly(benzyl methacrylate) prepared by ATRP method. 1	1
593	Deformation Behavior and Mechanical Properties of Suspended Double-Layer Graphene Ribbons Induced by Large Atomic Force Microscopy Indentation Forces. 2100826	O
592	Tuning the properties of ZnS semiconductor by the addition of graphene. 2022, 351-381	
591	Highly reliable Cu Cu low temperature bonding using SAC305 solder with rGO interlayer. 2022 , 129, 114483	O
590	Soft Actuators Based On Carbon Nanomaterials 2022 , 87, e202100437	5
589	Liquid Metal Polymer Composites: from Printed Stretchable Circuits to Soft Actuators.	9
588	Investigation of NH3 adsorption on noble metal modified MoSe2. 2022 , 139, 115188	О
587	From single-layer graphene to HOPG: Universal functionalization strategy with perfluoropolyether for the graphene family materials. 2022 , 122, 108810	
586	Photocatalytic degradation of tetracycline by using a regenerable (Bi)BiOBr/rGO composite. 2022 , 339, 130771	4
585	Dependence of Electrical Conductivity on Phase Morphology for Graphene Selectively Located at the Interface of Polypropylene/Polyethylene Composites 2022 , 12,	1
584	Effective passive phase-change light-emitting diode cooling system using graphene nanoplatelets coatings. 2022 , 31, 101795	2
583	Poly (vinyl alcohol)/chitosan/polyethylene glycol-assembled graphene oxide bio-nanocomposites as a prosperous candidate for biomedical applications and drug/food packaging industry 2022 ,	4
582	Development of recycled disposable mask based polypropylene matrix composites: Microwave self-healing via graphene nanoplatelets. 2022 , 31, e00389	1
581	AZ91 alloy nanocomposites reinforced with Mg-coated graphene: Phases distribution, interfacial microstructure, and property analysis. 2022 , 902, 163484	5
580	Surface modification and twinning behavior in gradient graphene-based TiC/Ti6Al4V composite. 2022 , 583, 152495	О
579	Advances in graphene oxide based nanobiocatalytic technology for wastewater treatment. 2022 , 17, 100647	4

578	Two-dimensional nanomaterial-based polymer composites: Fundamentals and applications. 2022 , 11, 770-792	5
577	Polymer-inorganic membranes modified with graphene-containing composite: Electrochemical approach to investigations of functional properties. 2022 , 50, 507-513	O
576	Nonlinear difference imaging to image local conductivity of single-layer graphene using electrical impedance tomography. 2022 , 1-1	1
575	Surface conjugation of titanium dioxide nanoparticles on nano-graphene oxide enhances photocatalytic degradation of azo dyes under sunlight 2022 , 1	O
574	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges 2022 ,	28
573	Graphene-based materials: analysis through calorimetric techniques. 1	1
572	Effective strategy for improving electrical properties of polyethylene insulating materials by doping graphene. 2022 , 57, 5036	
571	Mercaptopropyl-doped ultra-small silica modified GO nanosheets to enhance mechanical properties of nitrile butadiene rubber. 2022 , 124627	O
570	Application of Graphene-Related Materials in Organic Solar Cells 2022, 15,	2
569	GeAs 2 Saturable Absorber for Ultrafast and Ultranarrow Photonic Applications. 2112252	2
568	ReviewAdvances on Oxidase Enzymes Modified Nanoporous Carbon and Gold Surfaces for Bioelectrochemical Applications.	
567	Bioactive Graphene Quantum Dots Based Polymer Composite for Biomedical Applications 2022 , 14,	9
566	Enhanced absorption in black phosphorene on adsorption of Li and K for use in energy conversion applications. 2022 , 54, 1	0
565	A review of etching methods of MXene and applications of MXene conductive hydrogels. 2022, 167, 111063	4
564	Comparative analysis of characterization techniques of GQDs-based photovoltaic applications: A review. 2022 , 255, 168709	1
563	Enhanced in tunning of photochemical and electrochemical responses of inorganic metal oxide nanoparticles via rGO frameworks (MO/rGO): A comprehensive review. 2022 , 278, 115632	1
562	Dynamic stability of graded graphene reinforced truncated conical shells under both periodic spinning speeds and axial loads considering thermal effects. 2022 , 256, 113963	1
561	Stress driven micron- and nano-scale wrinkles as a new class of transport pathways of two-dimensional laminar membranes towards molecular separation. 2022 , 648, 120354	2

560	Fire retardancy in nanocomposites by using nanomaterial additives. 2022, 163, 105466	2
559	Carbon nanotubes/reduced graphene oxide composites as electrode materials for supercapacitors. 2022 , 128, 1	3
558	A review on the recent advances on improving the properties of epoxy nanocomposites for thermal, mechanical, and tribological applications: challenges and recommendations. 2022 , 61, 176-195	5
557	A review investigating the influence of nanofiller addition on the mechanical, thermal and water absorption properties of cellulosic fibre reinforced polymer composite. 152808372110575	3
556	The Synergistic Effect of a Hybrid Filler Based on Graphene Nanoplates and Multiwalled Nanotubes for Increasing the Thermal Conductivity of an Epoxy Composite. 2021 , 47, 364-367	1
555	Graphene-Based Nanomaterials as Drug Delivery Carriers 2022 , 1351, 109-124	1
554	Graphene-Based Nanomaterials for Biomedical Imaging 2022, 1351, 125-148	O
553	Electrochemical Synthesis of Graphene Oxide from Graphite Flakes Exfoliated at Room Temperature.	
552	Enhanced surface properties of a graphene oxide reinforced high-entropy alloy composite prepared by spark plasma sintering 2022 ,	0
551	Dimensional optimization enables high-performance capacitive deionization. 2022 , 10, 6414-6441	6
550	Pd-Pd/PdO as active sites on intercalated graphene oxide modified by diaminobenzene: fabrication, catalysis properties, synergistic effects, and catalytic mechanism 2022 , 12, 8600-8610	О
549	Graphene-Based Polymer Composites: Physical and Chemical Properties. 2022, 159-197	
548	Graphene Based Nanocomposites: Synthesis, Characterization and Energy Harvesting Applications. 2022 , 817-857	
547	Graphene Polymer Composites for Biomedical Applications. 2022 , 435-470	
546	Soft stretchable conductive nanocomposites for biointegrated electronics. 2022,	
545	Surface-Confined Biomolecules for Application in Bioelectronics. 2022 , 53-70	
544	Biomass-derived porous carbon materials: synthesis, designing, and applications for supercapacitors.	4
543	Synthesis and applications of carbon nanomaterials-based sensors. 2022 , 451-476	

542	High-Efficiency Preparation of Reduced Graphene Oxide by a Two-Step Reduction Method and Its Synergistic Enhancement of Thermally Conductive and Anticorrosive Performance for Epoxy Coatings. 2022 , 61, 3044-3054	
541	Pristine and Defective 2D Borophene/Graphene Heterostructure as the Potential Anode of Lithium-Ion Batteries. 2102088	2
540	In situ cross-linking capability of novel amine-functionalized graphene with epoxy nanocomposites. 2022 , 139, 52249	1
539	The structural and electronic properties of Stone-Wales defective zigzag/armchair antimonene nanotubes: First-principles calculations.	
538	A review of nanoparticle reinforced surface composites processed by friction stir processing. 1-37	4
537	Design and Fabrication of a Graphene/Polyvinylidene Fluoride Nanocomposite-Based Airflow Sensor 2022 , 7, 7981-7988	3
536	Degradation of polyimide films modified by carbon nanotubes under electron beam irradiation and tensile stress. 1	O
535	Quantitative Estimation of p- and n-Doping Effects on Electrophysical and Optical Properties of CVD Graphene. 2022 , 126, 4620-4629	
534	Recent Trends in Graphene/Polymer Nanocomposites for Sensing Devices: Synthesis and Applications in Environmental and Human Health Monitoring 2022 , 14,	4
533	Morphological, mechanical, and antibacterial investigation of a ternary nanocomposite contains hydroxyapatite, tellurium(IV) oxide (Te2O4), and graphene oxide in vitro. 2022 , 128, 1	O
532	Study of DNA/RNA Aggregation Linked to Cadmium Oxide (CdO) Nanoparticles by Aryl Mercaptanes with Various Chain Length. 13-34	
531	Polarity-Switchable and Self-Driven Photo-Response Based on Vertically Stacked Type-III GeSe/SnS 2 Heterojunction. 2102099	5
530	Al matrix composites reinforced by in situ synthesized graphene L u hybrid layers: interface control by spark plasma sintering conditions. 2022 , 57, 6266-6281	
529	Host-guest Intercalation Chemistry for the Synthesis and Modification of Two-dimensional Transition Metal Dichalcogenides 2022 , e2200425	O
528	Preparation and Stability of PEGDA/GO Conductive Materials by DLP 3D Printing. 1	O
527	Near net-shape fabrication and properties of graphitic carbon foam with a continuous network of graphite nanosheets. 2022 ,	O
526	Thermo-mechanical postbuckling analysis of sandwich cylindrical panels with functionally graded auxetic GRMMC core supported by elastic foundations. 2022 , 247, 110661	1
525	Preparation and Dielectric Sensitivity of Polyurethane Composite Fiber Membrane Filled with BaTiO 2022 , 12,	O

524	Recent Advances in Graphene Oxide Membranes for Nanofiltration. 2022, 5, 3121-3145	9
523	In-situ interfacial compatibilization via edge-sulfurated few layer graphene during the formation of crosslinked graphene-rubber nanocomposites 2022 , 12, 4013	1
522	Dispersion characteristics of polypropylene/organo-modified single-walled carbon nanotube composites with a long-chain phosphonic acid added as the third dispersant component and their drawn orientation. 1	
521	Electrochemical Detection of Alzheimer's Disease Biomarker, Esecretase Enzyme (BACE1), With One-Step Synthesized Reduced Graphene Oxide 2022 , 10, 873811	5
520	The promising solar-powered water purification based on graphene functional architectures.	1
519	Ab initio studies of the electronic structure induced by the CO and N2 adsorptions on graphene and on graphite slab. 2022 ,	
518	Combustion behaviour and reaction kinetics of GO/Al/oxidizing salts ternary nanothermites.	О
517	Effect of graphene filler on mechanical properties of cotton/viscose hybrid composite. 2022 , 53, 298-307	
516	Vibration characteristics of cracked FG-GRC plates in thermal environments based on phase field theory and meshless method. 1-23	O
515	Synthesis of Three-Dimensional Reduced-Graphene Oxide from Graphene Oxide. 2022 , 2022, 1-18	6
514	Emerging Two-Dimensional Tellurene and Tellurides for Broadband Photodetectors 2022 , e2200016	8
513	Recent advance on machine learning of MXenes for energy storage and conversion.	1
512	Recent advancements in metal-organic frameworks composites based electrochemical (bio)sensors 2022 , 189, 161	2
511	Hybrid Nanocomposites of Hydroxyapatite, Eu2O3, Graphene Oxide Via Ultrasonic Power: Microstructure, Morphology Design and Antibacterial for Biomedical Applications. 1	
510	Vibration and Wave Analyses in the Functionally Graded Graphene-Reinforced Composite Plates Based on the First-Order Shear Deformation Plate Theory. 2022 , 12, 3140	
509	A comprehensive review on the thermal, electrical, and mechanical properties of graphene-based multi-functional epoxy composites. 1	4
508	Recent advances in aluminium matrix composites reinforced with graphene-based nanomaterial: A critical review. 2022 , 100948	2
507	A review of the mechanical, thermal and tribological properties of graphene reinforced polymer nanocomposites: a molecular dynamics simulations methods. 1	

506	Meso/microporous MOF@graphene oxide composite aerogels prepared by generic supercritical CO2 technology. 2022 , 335, 111825	1
505	Fabrication and tribological behavior of MnO2/epoxy nanocomposites. 095400832210795	2
504	Ultra-high temperature ceramics: Aspiration to overcome challenges in thermal protection systems. 2022 , 48, 8852-8881	2
503	Advanced model for conductivity estimation of graphene-based samples considering interphase effect, tunneling mechanism, and filler wettability. 2022 , 108, 81-87	O
502	Adsorption Characteristics of Gas Molecules Adsorbed on Graphene Doped with Mn: A First Principle Study 2022 , 27,	1
501	Photo-Electrochemical Reduction of CO2 to Methanol on Quaternary Chalcogenide Loaded Graphene-TiO2 Ternary Nanocomposite Fabricated via Pechini Method. 1	1
500	Chiral membranes for enantiomer separation: a comprehensive review. 2022, 121034	1
499	Transfer of dislocation slip through grain boundaries in metal-graphene nanocomposites. 2022 , 241, 111515	0
498	Characterizations and performances of polysulfone/graphene oxide with structural defects repaired by cellulose nanocrystals.	0
497	Optimization of solid-state polyaniline/graphene supercapacitor using low-volatility dispersant for higher energy efficiency. 1	
496	Dispersion and band gaps of elastic guided waves in the multi-scale periodic composite plates. 2022 , 124, 107513	8
495	Effects of pH on Biochar's heating value during acoustic treatment. 2022 , 160, 106420	O
494	Graphene nanoplatelets reinforced Polyamide-11 nanocomposites thermal stability and aging for application in flexible pipelines. 2022 , 18, 1842-1854	1
493	Application of nanostructured mesoporous silica/ bismuth vanadate composite catalysts for the degradation of methylene blue and brilliant green. 2022 , 18, 1963-1976	4
492	Creating molecular bridges across the interfaces in segregated composites toward improved conductive and mechanical properties. 2022 , 222, 109377	1
491	Fabrication of cellulose nanofibers by the method of interfacial molecular films and the creation of organized soluble starch molecular films. 2022 , 643, 128784	0
490	Enhanced molecular transport in two-dimensional nanoconfined ionic liquids. 2022 , 27, 101458	1
489	A versatile, heat-resisting, electrocatalytic active graphene framework by in-situ formation of boron nitride quantum dots. 2022 , 192, 123-132	1

488	Electrically conductive porous MXene-polymer composites with ultralow percolation threshold via Pickering high internal phase emulsion templating strategy 2022 , 618, 290-299	1
487	Three-dimensional Au/carbon nanotube-graphene foam hybrid nanostructure for dendrite free sodium metal anode with long cycle stability. 2022 , 118, 199-207	2
486	Hybrid machine-learning-assisted stochastic nano-indentation behaviour of twisted bilayer graphene. 2022 , 167, 110711	1
485	Construction of a magnesium hydroxide/graphene oxide/hydroxyapatite composite coating on Mg-Ca-Zn-Ag alloy to inhibit bacterial infection and promote bone regeneration 2022 , 18, 354-367	2
484	Green synthesis and characterization of the graphene oxide derocated with Pd, Ag. 1-6	
483	Tribology of Self-Lubricating Metal Matrix Composites. 2022 , 31-71	O
482	Functional Nanomaterials in Catalysis and Sensing Applications. 508-511	
481	Highly Sensitive Composite Foam Bodily Sensors Based on the g-Putty Ink Soaking Procedure. 2021 ,	1
480	Possible nature of electrical conductivity of the corund-graphene composite. 2021 , 2144, 012035	
479	An overview on chemical processes for synthesis of graphene from waste carbon resources. 1	O
478	2D Materials-Based Aptamer Biosensors: Present Status and Way Forward 2021 ,	1
477	Electronic transport properties and quantum localization effects monitored by selective functionalization in Bernal bilayer graphene. 2021 , 104,	O
476	Facile Production of Graphene/Polypropylene Composites with Enhanced Electrical and Thermal Properties through In Situ Artificial Latex Preparation. 2021 , 2021, 1-10	
475	Freestanding Graphene Fabric Film for Flexible Infrared Camouflage 2021 , e2105004	5
474	References. 2021 , 317-358	
473	On linear and nonlinear bending of functionally graded graphene nanoplatelet reinforced composite beams using Gram-Schmidt-Ritz method. 1-27	O
472	Simultaneous enhancement of mechanical performance and thermal conductivity for polyamide 10T by nanodiamond compositing. 2022 , 139, 52098	О
471	Graphene-Based Assemblies for Moist-Electric Generation. 2021 , 9,	1

470	Electrochemical Growth of High-Strength Carbon Nanocoils in Molten Carbonates 2021,	3
469	Flexible and electrically robust graphene-based nanocomposite paper with hierarchical microstructures for multifunctional wearable devices. 2021 ,	0
468	Improving Biosensors by the Use of Different Nanomaterials: Case Study with Microcystins as Target Analytes 2021 , 11,	1
467	Preparation and properties of substrate PVA-GO composite membrane for solar photothermal conversion. 2021 , 15, 632-642	1
466	Influence of Graphene Nano Fillers and Carbon Nano Tubes on the Mechanical and Thermal Properties of Hollow Glass Microsphere Epoxy Composites. 2022 , 10, 40	5
465	Data-Driven Design of Nanopore Graphene for Water Desalination. 2021 , 125, 27685-27692	2
464	Advances in graphene oxide membranes for water treatment. 1	7
463	SYNTHESIS AND CHARACTERIZATION OF GRAPHENE SHEETS DECORATED WITH CARBON BLACK BY DIRECT PYROLYSIS OF A MOLASSES© ARBON BLACK MIXTURE AS A POTENTIAL VERSATILE FILLER FOR RUBBER. 2021,	O
462	Multifunctional Graphene/Epoxy Composite from Carbon Fibers for Microwave Absorption & Mechanical Properties. 2022 ,	
461	The effect of graphene size and arrangement on crack propagation of Graphene/Aluminum composites. 2022 ,	
460	Fabrication and Implementation of Nanomaterials-Assisted Flexible Sensors. 2022, 77-107	
459	Accessibility of Grafted Functional Groups Limits Reactivity of Covalent Graphene Derivatives.	
458	Adsorption of So2 and Nh3 Onto Copper/Graphene Nanosheets Composites: Statistical Physics Interpretations, Thermodynamic Investigations, and Site Energy Distribution Analyses.	
457	Electronic, Magnetic, and Optical Performances of Non-Metals Doped Silicon Carbide 2022 , 10, 898174	2
456	Microstructure, consolidation, electrochemical, and mechanical performance of titanium (Ti) composites reinforced by graphene nanoplatelets (GNPs) via mechanical alloying. 2022 , 126142	O
455	Magnetite nanoparticles-incorporated composite thin-film nanofiltration membranes based on cellulose nitrate substrate.	
454	Electronic and optical properties of TMDs/Hg0.33Cd0.66Te. 2022 , 33, 11542	
453	Effect of graphene platelets reinforcement on vibration behavior of functionally graded porous arches under thermal environment. 2022 ,	O

452	Polymer nanocomposites based on graphite nanoplatelets (GNPs): a review on thermal-electrical conductivity, mechanical and barrier properties. 2022 , 57, 7425-7480	0
451	Theoretical insight on mechanically robust graphene-nickel interfaces using chromium-substituted nickel and boron-doped graphene. 2022 , 593, 153356	
450	Multifunctional TiO/C nanosheets derived from 3D metal-organic frameworks for mild-temperature-photothermal-sonodynamic-chemodynamic therapy under photoacoustic image guidance 2022 , 621, 360-373	O
449	Data_Sheet_1.docx. 2020 ,	
448	Table_1.docx. 2020 ,	
447	Table_2.docx. 2020 ,	
446	Table_3.docx. 2020 ,	
445	Table_1.doc. 2019 ,	
444	High-Energy-Density Asymmetric Supercapacitor Based on Free-Standing TiCT@NiO-Reduced Graphene Oxide Heterostructured Anode and Defective Reduced Graphene Oxide Hydrogel Cathode 2022 ,	0
443	Applications of Graphene and Graphene-Based Nanocomposite For Consumer Nanoproducts. 2022 , 501-522	
442	Flexible Organic Thermoelectric Nanocomposites: Transport Properties and Applications. 2022,	
441	Nanocomposites based on the graphene family for food packaging: historical perspective, preparation methods, and properties 2022 , 12, 14084-14111	1
440	Poly(methyl methacrylate) Nanocomposite Foams Reinforced with Carbon and Inorganic NanoparticlesBtate-of-the-Art. 2022 , 6, 129	О
439	Doubly doped graphene as gas sensing materials for oxygen-containing gas molecules: A first-principles investigation. 2022 , 153603	1
438	International interlaboratory comparison of raman spectroscopic analysis of CVD-grown graphene.	1
437	Mechanical Properties of Ceramics Reinforced with Allotropic Forms of Carbon. 2022 , 100966	3
436	Ionic liquid dispersed highly conducting polymer electrolyte for supercapacitor application: Current scenario and prospects ICSEM 2021[1095400832210994	1
435	Graphene, Dirac equation and analogue gravity.	1

A Facile Fabrication of CdSe/ZnS QDs-Block Copolymer Brushes-Modified Graphene Oxide Nanohybrid with Temperature-Responsive Behavior.. **2022**, 15,

433	Two-dimension black arsenic-phosphorus as a promising NO sensor: A DFT study. 2022 , 1213, 113727	
432	Nonlinear vibration of third-order shear deformable FG-GPLRC beams under time-dependent forces: GramBchmidtRitz method. 2022 , 176, 109343	1
431	The effect of doping MoSe2 by clusters of noble metals on its adsorption for NH3. 2022, 441, 128163	O
430	Hierarchical nanostructure of three-dimensional Au/carbon nanotube-graphene foam for high performance lithium metal anode. 2022 , 380, 115941	О
429	Prolate carbon architecture as a novel Li-ion battery anode with kinetic study. 2022 , 8, 100178	O
428	Modeling the synergistic electrical percolation effect of carbon nanotube/graphene/polymer composites. 2022 , 225, 109496	0
427	Laser thermal synthesis of reduced graphene oxide/CuS nanocomposites for efficient solar-driven water purification. 2022 , 294, 121168	O
426	Hazard assessment of abraded thermoplastic composites reinforced with reduced graphene oxide. 2022 , 435, 129053	2
425	An electrochemical sensor based on reduced graphene oxide/Etyclodextrin/multiwall carbon nanotubes/ polyoxometalate tetracomponent hybrid: Simultaneous determination of ascorbic acid, dopamine and uric acid. 2022 , 180, 107533	3
424	Study on the Electronic Structure and Optical Properties of Two-dimensional Monolayer MoSi2X4 (X=N, P, As). 2022 , 80, 510	2
423	Study on structure-performance relationship of RGO enhanced polypropylene composites with improved atomic oxygen resistance. 2022 , 109970	6
422	Carbon-Based Nanocomposites: Processing, Electronic Properties, and Applications.	
421	Geometric percolation of hard-sphere dispersions in shear flow 2022,	
420	Study on Mechanical Properties of Carbon Nano-titanium Composites by Prefabricated Fragments. 2022 , 81-93	
419	Synthesis of Co-ordination Energetic Graphene Oxide and Thermal Decomposition for the Combustion of Ammonium Perchlorate. 2022 , 557-571	
418	Improved Physical, thermal, and conductivity strength of ternary nanocomposite films of PVDF/PMMA/GO NPs for electrical applications. 2022 , 29, 1	1
417	Decipher the ultra-high strengthening and toughening efficiency of GNS-MgO/Mg layered composite with in-situ enhanced interface. 2022 ,	O

416	Sustainable Approach for Developing Graphene-Based Materials from Natural Resources and Biowastes for Electronic Applications.	3
415	Aggregation behavior of partially contacted graphene sheets in six-carbon alkanes: all-atom molecular dynamics simulation. 2022 , 28,	
414	Electrochemical Synthesis of Graphene Oxide from Graphite Flakes Exfoliated at Room Temperature. 2022 , 153788	O
413	Accessibility of Grafted Functional Groups Limits Reactivity of Covalent Graphene Derivatives. 2022 , 153792	1
412	High-strength, flexible and superhydrophobic graphene/aramid nanofiber nanocomposite films for electromagnetic interference shielding application. 2022 ,	O
411	Suda Bebilir Grafen/Boyar Madde Kompozitlerinin Spektroskopik 🛭 elliklerinin 🖯 celenmesi. 946-956	
410	Copper matrix composites reinforced by three-dimensional netlike graphene towards enhanced mechanical property and wear resistance. 2022 , 32, 101187	1
409	Electrocatalysis Based on Carbon Composite Catalysts. 2022 , 371-405	
408	Stainless Steel-Cnt Composite Manufactured Via Electric Arc Welding.	
407	Biochar from Biomass: A Strategy for Carbon Dioxide Sequestration, Soil Amendment, Power Generation, CO2 Utilization, and Removal of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) in the Environment. 2022 , 1023-1085	Ο
406	Holey Reduced Graphene Oxide Scaffolded Heterocyclic Aramid Fibers with Enhanced Mechanical Performance. 2200937	О
405	Tailoring the hardness of aluminum surface reinforced with graphene and C3N nanosheets. 2022 , 109139	
404	First-principle investigation of CO adsorption on Pd-loaded VO2 monolayer. 2022, 103681	
403	The Study of Properties and Structure of Polylactide@raphite Nanoplates Compositions. 2022 , 2022, 1-9	O
402	Mechanical Properties of TC11 Titanium Alloy and Graphene Nanoplatelets/TC11 Composites Prepared by Selective Laser Melting. 2022 , 23, 6134	
401	A Review on Principles, Theories and Materials for Self Sensing Concrete for Structural Applications. 2022 , 15, 3831	2
400	Graphene-Based Absorbents for Wastewater Treatment. 2022 , 164-180	
399	The Development Trend of Graphene Derivatives.	2

398	Extraordinary Antiwear Properties of Graphene-Reinforced Ti Composites Induced by Interfacial Decoration.	O
397	Enhanced positive temperature coefficient intensity and reproducibility with synergistic effect of 0-D and 2-D filler composites.	
396	Conductive hydrogel constructs with three-dimensionally connected graphene networks for biomedical applications. 2022 , 137344	1
395	Light-responsive shape memory polymer composites. 2022 , 173, 111314	2
394	Recent progress in organicIhorganic hybrid materials as absorbents in sample pretreatment for pesticide detection. 1-19	
393	Laser-Based Growth and Treatment of Graphene for Advanced Photo- and Electro-Related Device Applications. 2203164	1
392	Hybrid polypyrrole/copper/graphene oxide nanocomposite films synthesized via potentiostatic deposition with enhanced photovoltaic properties. 2022 , 99, 100549	O
391	Graphene and graphene oxide energetic interactions with polymers through molecular dynamics simulations. 2022 , 211, 111548	O
390	Adsorption of SO2 and NH3 onto copper/graphene nanosheets composites: Statistical physics interpretations, thermodynamic investigations, and site energy distribution analyses. 2022 , 446, 137224	1
389	Epoxy Nanocomposites with Graphene Derivatives. 133-167	
388	Multi-nanocomponent-assembled films with exceptional capacitance performance and electromagnetic interference shielding.	1
387	Introduction to graphene-based materials and their composites. 2022 , 1-47	
386	Graphene-based polymer nanocomposites in biomedical applications. 2022 , 199-245	1
385	Dye-Sensitized Solar Cells. 2022 , 1137-1214	
384	Graphene-reinforced polymeric membranes for water desalination and gas separation/barrier applications. 2022 , 133-165	O
383	A Brief Overview on Facile Synthesis and Challenging Properties of Graphene Nanocomposite: State-of-the-art. 2022 , 34, 1603-1612	
382	Characteristics of the Carbon Byproduct from Methane Conversion in UHF Discharge Plasma. 2022 , 65, 107-111	
381	Dioctyl Phthalate-Modified Graphene Nanoplatelets: An Effective Additive for Enhanced Mechanical Properties of Natural Rubber. 2022 , 14, 2541	O

380	Structural Evolution of Graphene Oxide and Its Thermal Stability During High Temperature Sintering. 2022 , 37, 342-349	О
379	Nano/microstructures and mechanical properties of Al2O3IIiC ceramic composites reinforced with Al2O3@RGO nanohybrids. 2022 ,	O
378	Failure mechanism of graphene kirigami under nanoindentation. 2022, 33, 375703	О
377	Characterization of aerogel and EGA-based lightweight cementitious composites incorporating different thickness of graphene platelets. 2022 , 104870	1
376	Tunneling Percolation Mechanism of Conductivity for PEDOT:PSS in Hydrophilic PDMS Composite for the Fabrication of Highly Sensitive Strain Sensor. 2200077	0
375	Conductive Hydrogel Conduits with Growth Factor Gradients for Peripheral Nerve Repair in Diabetics with Non-Suture Tape. 2200755	1
374	Enhanced thermoelectric composite performance from graphene nanosheets additives in AgSbTe2 matrix. 2022 ,	0
373	Preparation of HNTs-d-GO hybrid nanoparticles for gallic acid epoxy composites with improved thermal and mechanical properties.	1
372	Molecularly imprinted polymers for selective extraction/microextraction of cancer biomarkers: A review. 2022 , 189,	1
371	Advances in rechargeable magnesium batteries employing graphene-based materials. 2022,	
370	Investigation of increased electrical conductivity by rGO in rGO/PVDF/PMMA/PTFE nanocomposites. 2022 , 133541	O
369		
	Site-Selective Bipolar Electrodeposition of Gold Clusters on Graphene Oxide Microsheets at a 3D Air Liquid Interface. 2200304	1
368		1
368 367	Air Liquid Interface. 2200304	
	Air Liquid Interface. 2200304 Band gap formation of 2D materialin graphene: Future prospect and challenges. 2022, 100474 Enhancing the mechanical properties and providing bioactive potential for graphene	1
367	Air Liquid Interface. 2200304 Band gap formation of 2D materialin graphene: Future prospect and challenges. 2022, 100474 Enhancing the mechanical properties and providing bioactive potential for graphene oxide/montmorillonite hybrid dental resin composites. 2022, 12, An integrated method for massive production of graphene from bituminous coal via	1
367 366	Band gap formation of 2D materialin graphene: Future prospect and challenges. 2022, 100474 Enhancing the mechanical properties and providing bioactive potential for graphene oxide/montmorillonite hybrid dental resin composites. 2022, 12, An integrated method for massive production of graphene from bituminous coal via ultrasonication-assisted emulsion formation. 1-12	2

362	Reversible and homogenous zinc deposition enabled by in-situ grown Cu particles on expanded graphite for dendrite-free and flexible zinc metal anodes. 2022 , 50, 589-597	3
361	Single-atom transition metals supported on defective graphene for electrochemical reduction of acetonitrile to ethylamine. 2022 , 599, 153948	O
360	Healable Polyurethane-Based Composites with Shielding Capsule Structure for Absorption-Dominated Electromagnetic Interference Shielding.	
359	Fabrications and applications of polymergraphene nanocomposites for sustainability. 2022, 149-184	
358	Graphene oxide: Synthesis and properties. 2022 , 31-64	
357	Tuning the bandgap and absorption behaviour of the newly-fabricated Ultrahigh Molecular weight Polyethylene Oxide- Polyvinyl Alcohol/ Graphene Oxide hybrid nanocomposites. 2022 , 30, 096739112211121	2
356	Graphene composites with hydrogel. 2022 , 11, 53-62	
355	Highly Aligned Ni-Decorated GOLINT Nanostructures in Epoxy with Enhanced Thermal and Electrical Properties. 2022 , 14, 2583	
354	Facile and Scalable Synthesis of Whiskered Gold Nanosheets for Stretchable, Conductive, and Biocompatible Nanocomposites.	
353	Development of Composite Thin-Film Nanofiltration Membranes Based on Polyethersulfone for Water Purification.	О
352	Study and Comparison of Different Routes to Synthesize Reduced Graphene Oxide. 74, 69-82	
351	Printing of MXene-based materials and the applications: a state-of-the-art review.	
350	Disinfector-Assisted Low Temperature Reduced Graphene Oxide-Protein Surgical Dressing for the Postoperative Photothermal Treatment of Melanoma. 2205802	3
349	Highly sensitive strain sensors with wide operation range from strong MXene-composited polyvinyl alcohol/sodium carboxymethylcellulose double network hydrogel.	11
348	Boosting of reversible capacity delivered at a low voltage below 0.5 V in mildly expanded graphitized needle coke anode for a high-energy lithium ion battery. 2022 ,	O
347	Electronic, transport, magnetic and optical properties of graphene nanoribbons review.	1
346	First-Principles Study of Metal Impurities in Silicon Carbide: Structural, Magnetic, and Electronic Properties. 9,	1
345	Metal nanowires for transparent conductive electrodes in flexible chromatic devices: a review.	1

344	Electrically Conductive 2D Material Coatings for Flexible and Stretchable Electronics: A Comparative Review of Graphenes and MXenes. 2204772	3
343	Effect of Al2O3 and MgO nanofiller on the mechanical behaviour of alkaline-treated jute fibrefieinforced epoxy bio-nanocomposite.	
342	Development of ternary nanocomposites based on hydroxyapatite/silver oxide for biomedical applications: morphology, structure and antibacterial activity. 2022 ,	
341	Graphene-Based Polymer Composites for Flexible Electronic Applications. 2022 , 13, 1123	3
340	Research Progress on the Preparation and Applications of Laser-Induced Graphene Technology. 2022 , 12, 2336	2
339	Mechanical characteristics of poly (ethylene vinyl acetate) foams with graphene for the applications in sport footwear. 2022 , 113, 107688	1
338	Facile construction of sandwich-like composited Sm2MoO6/ZnO/rGO and its activity in photodecomposition of ibuprofen. 2022 , 650, 129545	О
337	Ultrafast and simple integration engineering of graphene-based flexible films with extensive tunability and simple trial in lithium-ion batteries. 2022 , 922, 166282	1
336	In situ reduction and self-alignment of reduced graphene oxide/poly(vinylidene fluoride) composite films: Toward high dielectric constant and suppressed loss. 2022 , 1267, 133656	0
335	Stability and angiotensin converting enzyme inhibitory activity of peptide RVPSL-loaded graphene oxide. 2021 , 28, 173-180	O
334	Graphene oxide/gallium nanoderivative as a multifunctional modulator of osteoblastogenesis and osteoclastogenesis for the synergistic therapy of implant-related bone infection. 2022 ,	
333	High sensitivity active adjustable graphene absorber for refractive index sensing applications. 2022 , 109273	13
332	Arbitrary-Shaped, Ultrastrong, and Highly Conductive Monoliths Directly Annealed by Graphene Oxide Ionic Putties for Corrosion-Resistant Joule Heating.	
331	Effect of Temperature and Humidity on the Water and Dioxygen Transport Properties of Polybutylene Succinate/Graphene Nanoplatelets Nanocomposite Films. 2022 , 12, 721	
330	Highly-durable hydrophobic and adhesive coatings fabricated from graphene-grafted methacrylate copolymers.	
329	Metal supported graphene catalysis: A review on the benefits of nanoparticular supported specialty sp2 carbon catalysts on enhancing the activities of multiple chemical transformations. 2022 , 100196	2
328	Relationship between production condition, microstructure and final properties of chitosan/graphene oxidelinc oxide bionanocomposite.	О
327	Eco-friendly and mechanochemically functionalised graphene with quick and high water dispersibility.	

326 Graphite and Graphene Nanoplatelets (GNP) Filled Polymer Matrix Nanocomposites. 2022, 1-45

325	Multiscale Modeling of Graphene-polymer Nanocomposites with Tunneling Effect. 2022 , 157-185	
324	Gas sensing properties of Mg -doped graphene for H 2 S , SO 2 , SOF 2 , and SO 2 F 2 .	O
323	Advancement of the Power-Law Model and Its Percolation Exponent for the Electrical Conductivity of a Graphene-Containing System as a Component in the Biosensing of Breast Cancer. 2022 , 14, 3057	1
322	Laser-Induced Graphene Stretchable Strain Sensor with Vertical and Parallel Patterns. 2022, 13, 1220	
321	Designing Heterogeneous Surfaces of Two-Dimensional Nanosheets to Maximize Mechanical Reinforcing of Polymer Nanocomposites via Molecular Dynamics Simulation. 2022 , 55, 6620-6632	O
320	Photoelectrochemical hydrogen generation at hybrid rGO-Sn3O4/SnO2 nanocomposite. 2022 , 52, 1469-1480	O
319	Fabrication of Binderless Electrodes via Non-destructive Electrochemical Oxidation/Reduction of Graphite Sheets using BF4 Salts. 2022 , 141087	2
318	Preparation of Shell/Core Atypical Spiral Conductive Microfibers and Composite Membrane with good conductivity and mechanical properties. 2200400	
317	Upcycling of Plastic Wastes and Biomass for Sustainable Graphitic Carbon Production: A Critical Review.	1
316	Carbon Nanomaterials-Based Novel Hybrid Platforms for Electrochemical Sensor Applications in Drug Analysis. 1-16	1
315	Oxidation-Resistant MXene-Based Melamine Foam with Ultralow-Percolation Thresholds for Electromagnetic-Infrared Compatible Shielding.	O
314	Flake Graphene as an Efficient Agent Governing Cellular Fate and Antimicrobial Properties of Fibrous Tissue Engineering Scaffolds Review. 2022 , 15, 5306	
313	Fabrication and characterization of graphene oxide and glass fiber-based hybrid epoxy composites.	О
312	Computational prediction of electrical percolation threshold in polymer/graphene-based nanocomposites with finite element method. 2022 ,	O
311	Research Progress on MXene-Based Flexible Supercapacitors: A Review. 2022 , 12, 1099	1
310	3D graphene-based scaffold as a platform for highly conductive polymer nanocomposites. 2022 , 290, 126528	
309	Three-dimensional free vibration analysis of functionally graded graphene platelets-reinforced composite toroidal shells. 2022 , 269, 114795	О

308	An impedimetric e-tongue based on CeO2-graphene oxide chemical sensors for detection of glyphosate and its potential interferents. 2022 , 922, 116719	1
307	Exploring carbon quantum dots as an aqueous electrolyte for energy storage devices. 2022 , 55, 105522	O
306	Efficient functionalization of reduced graphene oxide by 3-(pyridin-2-yl)-1,2,4,5-tetrazine and design of hybrids with silver nanoparticles for electrocatalysis. 2022 , 291, 126607	
305	Modified graphene oxide/waterborne epoxy composite coating with enhanced corrosion resistance. 2022 , 172, 107100	О
304	Application of laser Scribed method to fabricate graphene/graphene oxide multilayer. 9-18	0
303	MXenes as Emerging 2D Materials for Anticorrosive Application: Challenges and Opportunities. 2200579	1
302	Enhancing the combustion properties of interface optimized metastable intermixed composites PVDF/EAl by noncovalently functionalized graphene. 2022 , 223, 111103	0
301	Polymer nanocomposites based on Graphite Nanoplatelets and amphiphilic graphene platelets. 2022 , 246, 110223	1
300	Stainless steel-CNT composite manufactured via electric arc welding. 2022 , 223, 111169	О
299	MetalBrganic framework-derived heteroatom-doped nanoarchitectures for electrochemical energy storage: Recent advances and future perspectives. 2022 , 52, 685-735	2
298	Effect of adsorption, hardener, and temperature on mechanical properties of epoxy nanocomposites with functionalized graphene: A molecular dynamics study. 2022 , 117, 108311	0
297	Eco-friendly sonochemical reduction of graphene oxide in water using TiO2 photocatalyst activated by sonoluminescence. 2022 , 605, 154820	O
296	Crystallization kinetics of melt-mixed 3D hierarchical graphene/polypropylene nanocomposites at processing-relevant cooling rates. 2022 , 247, 110287	0
295	Photocatalytic activity of nano-sized Ag and Au metal-doped TiO2 embedded in rGO under visible light irradiation. 2022 , 286, 116023	2
294	Super-hydrophobic graphene-coated thermoplastic polyurethane porous monolith with superior photothermal effect for solar-assisted efficient cleanup of crude oil spill. 2022 , 605, 154701	0
293	Adsorption of metal atoms on MoSi2N4 monolayer: A first principles study. 2022 , 152, 107072	2
292	Broadband optical limiting in nanohybrids of graphene grafted peripheral (non-peripheral) pyrene substituted phthalocyanines with a low linear absorption. 2023 , 157, 108676	0
291	Nanomaterials for organophosphate sensing: present and future perspective. 2023 , 183-202	O

290	Graphene oxide-nanocomposite-based electrochemical sensors for the detection of organophosphate pesticides. 2023 , 635-658	O
289	Introduction. 2022 , 1-13	O
288	Effect of graphene oxide reinforcement on the flexural behavior of an epoxy resin. 2022, 112, 602-606	О
287	Pyrolysis of ZIF-67/Graphene Composite to Co Nanoparticles Confined in N-Doped Carbon for Efficient Electrocatalytic Oxygen Reduction. 2022 , 80, 1084	O
286	Photocatalytic hydrogen generation from methanol-water mixture in presence of g-C3N4 and graphene/g-C3N4.	О
285	Carbon Spheres and Carbon Soot for Tribological Applications. 2022 , 191-216	О
284	Advanced carbon nanomaterialBased anodes for sodium-ion batteries. 2022 , 251-272	О
283	Effect Of Pretreated Copper Foil On the Growth of High Quality Graphene.	O
282	Advanced Carbon Nanomaterials as Adsorbents. 2022 , 127-153	О
281	Effect of terephthalic acid functionalized graphene oxide on the molecular interaction, and mechanical and thermal properties of Hytrel polymer. 2022 , 18, 7112-7122	O
280	Atomistic Simulations to Study Thermal Effects and Strain Rate on Mechanical and Fracture Properties of Graphene like BC3. 2022 , 237-252	О
279	Interfacial Mechanics: From Advanced 2D to 3D Crystalline Materials. 2022 ,	O
278	Chiral graphene materials for enantiomer separation. 2023 , 452, 139499	2
277	Advances of graphene-based aerogels and their modifications in lithium-sulfur batteries. 2023 , 201, 679-702	O
276	Self-assembled microstructures with localized graphene domains in an epoxy blend and their related properties. 2023 , 607, 154925	О
275	Prediction of electrical conductivity of graphene-filled composites considering the tunneling effect. 2022 ,	O
274	Synthesis of Graphene and Related Materials by Microwave-Excited Surface Wave Plasma CVD Methods. 2022 , 2, 160-184	О
273	The Anticancer Efficacy of Thiourea-Mediated Reduced Graphene Oxide Nanosheets against Human Colon Cancer Cells (HT-29). 2022 , 13, 130	O

272	Thiourea-Mediated Reduced Graphene Oxide Nanosheets, Their Cytotoxic Impacts on Human Prostate Cancer Cells, and Their Antibacterial Effects against E. coli Mastitis. 2022 , 2022, 1-18	О
271	Mechanical response of polymer/BN composites investigated by molecular dynamics method.	O
270	In Vitro Studies of Graphene for Management of Dental Caries and Periodontal Disease: A Concise Review. 2022 , 14, 1997	1
269	Fe3O4-supported sulfonated graphene oxide as a green and magnetically separable nanocatalyst for synthesis of 2-amino-3-cyano-4H-chromene derivatives and their in-silico studies. 1-30	O
268	Novel metal graphene framework (MGF) structures for hydrogen storage. 2022,	O
267	Emerging low-dimensional materials for nanoelectromechanical systems resonators. 2023 , 11, 21-52	O
266	MXenes in polymer electrolyte membrane hydrogen fuel and electrolyzer cells. 2022,	O
265	Modeling of Electrical Conductivity for Graphene-Filled Products Assuming Interphase, Tunneling Effect, and Filler Agglomeration Optimizing Breast Cancer Biosensors. 2022 , 15, 6303	O
264	Effect of temperature and oxygen functional groups on interaction between epoxy resins and graphene surface. 095440622211266	O
263	Preparation and characterization of reduced graphene oxide incorporated ZnO nanorods for supercapacitor application.	O
262	Investigation on fluidity, microstructure, mechanical and durability properties of snail shell-based graphene oxide cement composite material.	O
261	Molecular dynamic analysis of pristine single layered graphene for mass sensor. 2022,	O
260	Reaction-Time-Dependent Opto-Electrical Properties of Graphene Oxide. 2022, 12, 1303	O
259	A nanodispersion-in-nanograins strategy for ultra-strong, ductile and stable metal nanocomposites. 2022 , 13,	2
258	Tuning the Composition of Hydroxyapatite/Holmium Oxide/Graphene Oxide Mixed Systems for Biomedical Applications.	O
257	An innovative model for conductivity of graphene-based system by networked nano-sheets, interphase and tunneling zone. 2022 , 12,	O
256	A SiCN Thin Film Thermistor Based on DVB Modified Polymer-Derived Ceramics. 2022, 13, 1463	1
255	Two-dimensional nanostructures based Ebnics Eand Ebmics In personalized medicine. 2022,	1

254	Modification of graphene with two strong acids and its nanocomposites with 2-hydroxyethylcellulose. 2022 , 100544	1
253	Towards Improved Detectivity and Responsivity Using Graphene Nanoribbons with Width of 10¶5 nm for Photodetection Applications.	1
252	Room and High Temperature Tensile Responses of Tib2-Graphene Al 7075 Hybrid Composite Processed through Squeeze Casting. 2022 , 12, 3124	0
251	Electrical Properties of In Situ Synthesized Ag-Graphene/Ni Composites. 2022 , 15, 6423	O
250	Lead-free bimetallic oxide loaded on reduced graphene oxide-poly(dopamine) hybrid nanocomposite with enhanced crystallinity and piezoelectric performance. 2022 ,	0
249	Progress in preparation, characterization, surface functional modification of graphene oxide: A review. 2022 , 101560	O
248	Facile preparation of graphite nanosheets with excellent adsorption property.	0
247	Bis(2-hydroxyethyl) terephthalate from depolymerized waste polyester modified graphene as a novel functional crosslinker for electrical and thermal conductive polyurethane composites. 2022 , 35, 101343	1
246	Room temperature ferromagnetism in fluoridated ReS2 nanosheets. 2022 , 929, 167273	O
245	Enhanced photocatalytic performance of TiO2 nanowires by substituting noble metal particles with reduced graphene oxide. 2022 , 44, 33-39	O
244	Co-operation of electrochemistry and chemometrics to develop a novel electrochemical aptasensor based on generation of first- and second-order data for selective and sensitive determination of the prostate specific antigen biomarker. 2022 , 183, 108026	Ο
243	The Mechanical Properties of Batteries and Supercapacitors. 2022,	O
242	Development and Perspectives of Thermal Conductive Polymer Composites. 2022 , 12, 3574	O
241	Crystallisation Kinetics and Associated Electrical Conductivity Dynamics of Poly(Ethylene Vinyl Acetate) Nanocomposites in the Melt State. 2022 , 12, 3602	O
240	Fabrication of Graphene Sheets Using an Atmospheric Pressure Thermal Plasma Jet System. 2022 , 15, 7245	1
239	Thermal, Mechanical, and Morphological Characterisations of Graphene Nanoplatelet/Graphene Oxide/High-Hard-Segment Polyurethane Nanocomposite: A Comparative Study. 2022 , 14, 4224	2
238	Effect of dry sliding wear parameters on the specific wear rate of \(\text{HMnO2-epoxy nanocomposites.}\) 095440	522211324
237	Recent development of graphene-based composite for multifunctional applications: energy, environmental and biomedical sciences. 1-69	1

236	Vulcanization kinetics of acrylonitrile-butadiene rubber reinforced with graphene oxide and reduced graphene oxide in the absence of co-cure accelerator.	1
235	Effect of Graphene Content on the Mechanical Properties of PMMA Composites. 2023, 954-967	O
234	Large deformation nonlinear bending analysis of multilayer functionally graded graphene-reinforced skew microplate under mechanical and thermal loads using FSDT and MCST. 1-17	0
233	Enhancement of thermal percolation in composites: A two-dimensional case study. 2022 , 121, 162201	0
232	Modulation of elastic wave propagation in piezoelectric laminated nanocomposite shells considering agglomeration effects.	О
231	Nanocomposites. 2022 , 545-786	O
230	Photopatternable and electrically conductive exfoliated graphite nanoplatelet-reinforced SU-8 nanocomposites for electrical lead micropatterning.	О
229	Enhancing Thermal Conductivity of Polyvinylidene Fluoride Composites by Carbon Fiber: Length Effect of the Filler. 2022 , 14, 4599	1
228	Improved Electrochemical Performance from Nano-Cobalt Oxide: Bifunctional Application in Energy Generation and Storage. 2022 , 5, 12907-12915	0
227	Effect of GS stacking on the effective elastic modulus of carbon fiber reinforced GS-Al nanocomposites. 1-11	O
226	Enhanced the performance of zinc strontium sulfide-based supercapattery device with the polyaniline doped activated carbon.	2
225	A critical review on the effect of morphology, stability, and thermophysical properties of graphene nanoparticles in nanolubricants and nanofluids.	Ο
224	Quick and surfactant-free dispersion of various carbon nanoparticles in aqueous solution as casting technique for devices. 2022 , 12, 100413	0
223	Assessment of two-dimensional materials on the biological membrane permeability of Epirubicin anti-cancer drug. 2022 , 155557	O
222	Influence of GGBFS on corrosion resistance of cementitious composites containing graphene and graphene oxide. 2022 , 104836	О
221	Influence of the ultrasound cavitation intensity on reduced graphene oxide functionalization. 2022 , 90, 106212	O
220	Thin-Copper-Layer-Induced Early Fracture in Graphene-Nanosheets (GNSs)-Reinforced Copper-Matrix-Laminated Composites. 2022 , 15, 7677	0
219	The Effect of Multi-Walled Carbon Nanotubes on the Heat-Release Properties of Elastic Nanocomposites. 2022 , 6, 333	4

218	3D printed geopolymer composites: A review. 2022 , 20, 100240	1
217	Role and effect of electrolytes selection on supercapacitance behaviour of aminated graphenes. 2022 , 435, 141400	1
216	Preparation and characterization of a high-performance nanomagnetic GO/Fe3O4/Cys adsorbent for silver extraction. 2022 , 183, 108103	0
215	Effectiveness of the analytical models used in standard techniques for mechanical property characterization of 2D materials. 2022 , 33, 104802	O
214	High-velocity transverse impact of monolayer graphene oxide by a molecular dynamics study. 2023 , 216, 111881	0
213	Optimization of carboxylated graphene oxide (C-GO) content in polymer matrix: Synthesis, characterization, and application study. 2023 , 310, 136900	O
212	Graphene-based composites for biomedical applications. 2022 , 15, 724-748	1
211	Graphene Reinforced Polymer Matrix Nanocomposites: Fabrication Method, Properties and Applications.	O
210	Theoretical Study of Adsorption of Genistein on Graphene and Graphene Doped with Metal Atoms (Ni, Ti, Cr, Se). 2022 , 30, 94-105	0
209	Anisotropic mechanical response of a 2D covalently bound fullerene lattice. 2022 ,	1
208	Characterization strategy for graphene oxide and molybdenum disulfide: Proceedings based on the ISO/TS 21356-1:2021 standard. 2022 , 36, 100448	0
207	A Perspective on Graphene based Aerogels and their Environmental Applications. 2022, 100449	O
206	Electrodeposition of graphene oxide-hydroxyapatite composite coating on titanium substrate. 2022 ,	0
205	Sulfonated graphene nanomaterials for membrane antifouling, pollutant removal, and production of chemicals from biomass: a review.	O
204	Facile Synthesis of Hafnium Oxide Nanoparticle Decorated on Graphene Nanosheet and Its Photocatalytic Degradation of Organic Pollutants under UV-Light Irradiation. 2022 , 12, 11222	0
203	Supercapacitor Properties of rGO-TiO2 Nanocomposite in Two-component Acidic Electrolyte. 2022 , 15, 7856	O
202	Phase diagrams of graphene-metal systems.	0
201	Assessment of graphene-based polymers for sustainable wastewater treatment: Development of a soft computing approach. 2022 , 137189	O

200	Mechanical cleavage of non-van der Waals structures towards two-dimensional crystals.	1
199	In Situ Measurement of AC Conductivity to Quantify Unidirectional Alignment of Graphene Nanoplatelets (GNPs) in Epoxy. 2023 , 79-86	O
198	Highly electro-responsive ionic soft actuator based on graphene nanoplatelets-mediated functional carboxylated cellulose nanofibers. 2022 , 109845	O
197	Lessons from Nature for Carbon-Based Nanoarchitected Metamaterials. 2200039	1
196	Comparative Measurements and Analysis of the Electrical Properties of Nanocomposites TixZr1☑C+Ecy (0.0 ☑ 1.0). 2022 , 15, 7908	O
195	Electronic Properties of Hexagonal Graphene Quantum Rings from TAO-DFT. 2022 , 12, 3943	O
194	Aerogels-Inspired based Photo and Electrocatalyst for Water Splitting to Produce Hydrogen. 2022 , 29, 101670	O
193	Radially oriented functional thermal materials prepared by flow field-driven self-assembly strategy. 2022 , 104, 107986	O
192	Reduction of graphene oxide by in-situ heating experiments in the transmission electron microscope. 2022 , 35, 102448	O
191	Flexible Devices Based on Soybean-Derived High-Quality N-Doped Graphene. 2022 , 14, 1050-1055	O
190	Diverse structural constructions of graphene-based composites for supercapacitors and metal-ion batteries. 2022 , 100453	O
189	An environmentally friendly and simple method for producing multi-layer exfoliated graphene in mass production from pencil graphite and its utilization for removing cadmium from an aqueous medium.	O
188	A DFT Based Approach to Sense the SF6 Decomposed Gases Using Ni-doped WS2 Monolayer. 1-11	О
187	Conductive polymers and composite-based systems: A quantum leap in the drug delivery arena and therapeutics. 2023 , 485-522	O
186	Investigation on fluidity, microstructure, mechanical and durability properties of snail shell based graphene oxide cement composite material. 2023 , 362, 129767	O
185	Experimental and computational physics of fullerenes and their nanocomposites: Synthesis, thermo-mechanical characteristics and nanomedicine applications. 2023 , 996, 1-116	O
184	Multiphase approach for calculation of tunneling conductivity of graphene-polymer nanocomposites to optimize breast cancer biosensors. 2022 , 109852	О
183	Multifunctional epoxy resin-based composites with excellent flexural strength and X-ray imaging capacity using micro/nano structured QF-Bi2SiO5 fillers.	O

182	Ballistic Performance of Bi-layer Graphene: Artificial Neural Network Based Molecular Dynamics Simulations. 2022 , 135-148	Ο
181	Geometrical and physical effects of nanofillers on percolation and electrical conductivity of polymer carbon-based nanocomposites: a general micro-mechanical model.	0
180	Highly conductive quasi-defect-free reduced graphene oxide for qualitative scalable production. 2023 , 203, 221-229	0
179	Enhanced osteogenic differentiation of human mesenchymal stem cells using size-controlled graphene oxide flakes. 2023 , 144, 213221	O
178	A conductive polymer composite derived from polyurethane and cathodically exfoliated graphene. 2023 , 27, 101313	0
177	A deep learning model for predicting mechanical properties of polycrystalline graphene. 2023 , 218, 111924	O
176	Fabrication and catalytic performance of a new diaminopyridine Pd(II) monolayer supported on graphene oxide for catalyzing Suzuki coupling reaction. 2023 , 659, 130758	0
175	Next generation 2D materials for anodes in battery applications. 2023 , 556, 232256	O
174	Carbon material/vitrimer composites: Towards sustainable, functional, and high-performance crosslinked polymeric materials. 2023 , 13, 100136	1
173	Oxygen dissociation on the C3N monolayer: A first-principles study. 2023 , 613, 155912	0
172	A systematic study of the effect of graphene oxide and reduced graphene oxide on the thermal degradation behavior of acrylonitrile-butadiene rubber in air and nitrogen media. 2023 , 19, e01501	0
171	Application of graphene and its derivatives in cementitious materials: An overview. 2023 , 65, 105721	Ο
170	Graphene-oxide-reinforced cement composites mechanical and microstructural characteristics at elevated temperatures. 2022 , 11, 3174-3194	1
169	Calcium/strontium chloride impregnated zeolite A and X granules as optimized ammonia sorbents. 2022 , 12, 34910-34917	2
168	Fabrication of a photoacoustic cell and thermal diffusivity measurement of graphene oxide using photoacoustic spectroscopy. 095440622211355	0
167	Graphene-Enhanced Screen-Printed BiFeO3-Based Thermistors.	O
166	A Versatile Ionomer-Based Soft Actuator with Multi-Stimulus Responses, Self-Sustainable Locomotion, and Photoelectric Conversion. 2212341	1
165	Self-Supported Graphene Nanosheet-Based Composites as Binder-Free Electrodes for Advanced Electrochemical Energy Conversion and Storage. 2022 , 5,	1

164	Synthesis and applications of Ag@C composites: Progress and opportunity. 2022, 29, 3503-3528	O
163	Synthesis and Crosslinking Mechanism of Colloidal Graphene Oxide Crosslinker for Crosslinking Low-Concentration Hydroxypropyl Guar Gum Fracturing Fluids. 2022 , 36, 14760-14770	O
162	Nanoscale Characterization of Graphene Oxide-Based Epoxy Nanocomposite Using Inverted Scanning Microwave Microscopy. 2022 , 22, 9608	1
161	Graphene Nanoplatelets-Based Textured Polymeric Fibrous Fabrics for the Next-Generation Devices. 2022 , 14, 5415	1
160	Conductive Textiles for Signal Sensing and Technical Applications. 2023 , 4, 1-39	О
159	Modeling of Diffusion of Metal Ions in Carbon Electrodes for Lithium-Ion Cells.	О
158	Wear Analysis and Microstructural Characterization of Al-MMC Manufactured by Stir Casting. 2023, 977-983	О
157	Graphene/SiCN Thin-Film Strain Gauges Fabricated by Direct Writing. 2022 , 22, 23765-23772	О
156	Study of Thermal Effect on the Mechanical Properties of Nylon 610 Nanocomposites with Graphite Flakes That Have Undergone Supercritical Water Treatment at Different Temperatures. 2022 , 14, 5494	О
155	Nanomaterial-Based Electrically Conductive Hydrogels for Cardiac Tissue Repair. Volume 17, 6181-6200	O
154	Bio-inspired conductive adhesive based on calcium-free alginate hydrogels for bioelectronic interfaces. 2023 , 18, 015020	О
153	Electrical, Thermo-Electrical, and Electromagnetic Behaviour of Epoxy Composites Reinforced with Graphene Nanoplatelets with Different Average Surface Area. 2022 , 14, 5520	O
152	Enhancing the Performance of PVDF/GO Ultrafiltration Membrane via Improving the Dispersion of GO with Homogeniser. 2022 , 12, 1268	0
151	High-performance epoxy composites improved by uniformly dispersed and partly thermal reduced graphene oxide sheets.	O
150	Study of electrical transport properties for central-distorted graphene nanoribbon using density functional theory. 2022 ,	О
149	Mechanical properties characterization of 2D materials via pressure bulge testing.	O
148	Binder-Free Electro-Deposited MnO 2 @3D Carbon Felt Network: A Positive Electrode for 2V Aqueous Supercapacitor.	О
147	Rational design of carbon-based electrocatalysts for enhancing redox reactions in rechargeable metal batteries.	1

146	Enhancing the Mechanical Properties of Waterborne Polyurethane Paint by Graphene Oxide for Wood Products. 2022 , 14, 5456	2
145	Recent Advances in Limiting Fatigue Damage Accumulation Induced by Self-Heating in PolymerMatrix Composites. 2022 , 14, 5384	Ο
144	Graphene-maleic anhydride-grafted-carboxylated acrylonitrile butadiene-rubber nanocomposites. 2022 , 8, e11974	0
143	Engineering Materials to Enhance Light-to-Heat Conversion for Efficient Solar Water Purification. 2022 , 61, 17783-17800	O
142	Molecular beam epitaxy growth and scanning tunneling microscopy study of 2D layered materials on epitaxial graphene/silicon carbide.	0
141	Effects of polyvinylpyrrolidone as a dispersant agent of reduced graphene oxide on the properties of carbon fiber-reinforced polymer composites. 073168442211455	O
140	Preparation of well-dispersed graphene oxide-silica nanohybrids/ poly(lactic acid) composites by melt mixing. 2023 , 118, 107912	1
139	Fabrication of Cu/Al/Cu Laminated Composites Reinforced with Graphene by Hot Pressing and Evaluation of Their Electrical Conductivity. 2023 , 16, 622	2
138	Principle, design, strategies, and future perspectives of heavy metal ion detection using carbon nanomaterial-based electrochemical sensors: a review.	1
137	Large enhancement of thermal conductivity of aluminum-reduced graphene oxide composites prepared by a single-step method. 2023 , 3,	O
136	Carpet beater molecules: synthesis and characterization of functional of hexa-peri-benzocoronene-alkyne coupling products.	0
135	Polymer and Composite Materials in Two-Phase Passive Thermal Management Systems: A Review. 2023 , 16, 893	O
134	Nanoremediation of Heavy Metals in Agricultural Soil. 2023 , 433-450	0
133	Graphene-Based Derivatives Heterostructured Catalytic Systems for Sustainable Hydrogen Energy via Overall Water Splitting. 2023 , 13, 109	2
132	Graphite oxide/reduced graphite oxide surface modified carbon fiber reinforced composites for deicing and electromagnetic interference shielding. 2023 , 34,	0
131	Polyether sulfone-graphite nanocomposite for nanofiltration membrane with enhanced separation, antifouling and antibacterial properties. 2023 , 40, 185-194	O
130	Fabrication and microwave absorption properties of the flaky carbonyl iron/graphene oxide composite in S-band. 2023 , 34,	0
129	Probing the Influence of Surface Chemical Functionalization on Graphene Nanoplatelets-Epoxy Interfacial Shear Strength Using Molecular Dynamics. 2023 , 13, 287	O

128	Changes in the Electrophysical Parameters of Nanomodified Elastomers Caused by Electric Current Passage. 2023 , 15, 249	О
127	Simulating Electrical Conductivity of Graphene-Filled System by Developing McLachlan Model Applicable to Breast Cancer Biosensors.	О
126	Statistical Study of the Effectiveness of Surface Application of Graphene Oxide as a Coating for Concrete Protection. 2023 , 13, 213	1
125	An Analytical Investigation on the Nonlinear Vibration Behavior of a New Hybrid Laminated Nanocomposite Cylindrical Shell Resting on the Three-Parameter Nonlinear Substrate.	o
124	Mechanics [Microstructure relations in 1D, 2D and mixed dimensional carbon nanomaterials. 2023 , 204, 162-190	O
123	A low-voltage electro-ionic soft actuator based on graphene nanoplatelets-sulfonated cellulose nanowhisker combined with microfibrillated cellulose. 2023 , 58, 466-477	О
122	Review on 3D-printed graphene-reinforced composites for structural applications. 2023 , 167, 107420	3
121	Catalytic hydrolysis of cellulose to glucose: On the influence of graphene oxide morphology under microwave radiation. 2023 , 11, 109290	o
120	Graphene Nanosheets Mediate Efficient Direct Reprogramming into Induced Cardiomyocytes. 2022 , 18, 2171-2182	O
119	Switchable and Tunable Nanolayered Terahertz Metasurfaces Based on the Dual Elliptical-Shaped Array. 2022 ,	О
118	Piezoresistive Fibers with Large Working Factors for Strain Sensing Applications. 2023, 15, 2277-2288	O
117	Effect of Graphene Platelets and the Volume Fraction on Electrical Conductivity of Cu/Graphene Composites. 2022 , 26, 13-20	o
116	Hierarchical V4C3TX@NiO-reduced graphene oxide heterostructure hydrogel and defective reduced graphene oxide hydrogel as free-standing anode and cathode for high-performance asymmetric supercapacitor.	О
115	Progress in Research and Application of Graphene Aerogel Bibliometric Analysis. 2023, 16, 272	О
114	Facile fabrication of polystyrene particles/graphene composites for improved dielectric and thermal properties. 2023 , 26, 23-30	0
113	Nitrogen-Doped Nickel Graphene Core Shell Synthesis: Structural, Morphological, and Chemical Composition for Planar Hybrid Solar Cells Application. 2023 , 10, 18	О
112	One-Pot Synthesis of Ruthenium-Based Nanocatalyst Using Reduced Graphene Oxide as Matrix for Electrochemical Synthesis of Ammonia. 2023 , 15, 1115-1128	0
111	Flexible doctor blade-coated abiotic cathodes for implantable glucose/oxygen biofuel cells. 2023 , 13, 3877-3889	О

110	Effects of Channel Length Scaling on the Electrical Characteristics of Multilayer MoS2 Field Effect Transistor. 2023 , 14, 275	0
109	Graphene-based gas sensors. 2023 , 127-147	O
108	Nanothermites: Developments and Future Perspectives. 2023, 219-251	O
107	The synthesis, properties, and potential applications of CoS2 as a transition metal dichalcogenide (TMD). 2023 ,	O
106	Bioinspired, biomimetic hydrogels. 2023 , 325-354	O
105	Influence of Graphene Nanoplatelets on the Tensile Response of Stitched Composites with Thin Plies. 2023 ,	O
104	Thermally conductive polymer composites. 2023 , 149-196	Ο
103	2D Materials Guided Self-assembly of Polymer: Molecular Dynamics Simulation Study. 2023 ,	O
102	Recycling waste sources into nanocomposites of graphene materials: Overview from an energy-focused perspective. 2023 , 12,	O
101	Progress on the application of graphene-based composites toward energetic materials: A review. 2023 ,	1
100	Applications of Graphene-Based Composites-A Review. 2023,	1
99	Intercalation Engineering of 2D Materials at Macroscale for Smart HumanMachine Interface and Double-Layer to Faradaic Charge Storage for Ions Separation. 2202137	O
98	Fundamentals of supercapacitors. 2023 , 83-100	O
97	Synthesis and applications of carbon-polymer composites and nanocomposite functional materials. 2023 , 71-105	O
96	Fullerene nano-additives in conjugated polymers: Topographies and technical implications. 2023, 65-85	0
95	Regulation binary electromagnetic filler networks in segregated poly(vinylidenefluoride) composite for absorption-dominated electromagnetic interference shielding.	O
94	Functionalized graphene nanomaterials: Next-generation nanomedicine. 2023, 3-18	O
93	A review: Impact of surface treatment of nanofillers for improvement in thermo mechanical properties of the epoxy based nanocomposites. 2023 ,	1

92	A critical review of cement composites containing recycled aggregates with graphene oxide nanomaterials. 2023 , 105989	O
91	Progressing of a power model for electrical conductivity of graphene-based composites. 2023, 13,	O
90	Tough polyimide composites synergistically reinforced by carbon nanofiber-grafted carbon fiber and rGO for improved heat dissipation and electromagnetic interference shielding. 2023 , 149, 225-236	O
89	Synthesis and anticorrosive application of graphene and graphene-based materials. 2023, 109-142	O
88	Energy storage improvement of graphene based super capacitors. 2023 , 78, 919-923	O
87	Silver nanoparticles for theranostic applications. 2023 , 137-166	O
86	Effect of functionalized graphene addition on mechanical and thermal properties of high density polyethylene. 2023 , 43, 343-353	0
85	Pencil graphiteEurned graphene oxide for supercapacitor electrodes.	O
84	Tribological performance of TiB2-Graphene Al 7075 hybrid composite processed through squeeze casting: at room and high temperature. 2023 , 108486	O
83	Mechanical Properties of Graphene Networks under Compression: A Molecular Dynamics Simulation. 2023 , 24, 6691	O
82	Tuneable electrohydrodynamics of core-shell graphene oxide vortex rings. 2023, 375, 121341	O
81	An investigation of the PMEDM processing and surface characterizations of AZ61 matrix composites via experimental and optimization methods. 2023 , 300, 127526	O
80	Theoretical framework to predict the balance of strength-ductility in graphene/metal nanocomposites. 2023 , 268, 112182	O
79	Electrical response, elastic property, and pressure sensing under bending of hybrid graphene/CNT/elastomer nanocomposites. 2023 , 311, 116838	O
78	Fabrication, properties and applications of polymer composites additively manufactured with filler alignment control: A review. 2023 , 256, 110661	O
77	A review on the mechanics of graphene nanoplatelets reinforced structures. 2023 , 186, 103831	O
76	Differences of functionalized graphene materials on inducing chronic aquatic toxicity through the regulation of DNA damage, metabolism and oxidative stress in Daphnia magna. 2023 , 876, 162735	О
75	One-step biogenic synthesis of bismuth/reduced graphene oxide nanocomposites using lemon juice and their applications as recyclable nanocatalyst for the reduction of 4-nitrophenol. 2023 , 22, 100383	O

74	A review of high temperature properties of cement based composites: Effects of nano materials. 2023 , 35, 105954	0
73	Hybrid photothermal structure based on Cr-MgF2 solar absorber/PMMA-graphene heat reservoir for enhanced thermoelectric power generation. 2023 , 110, 108352	Ο
72	A concise review on GO, rGO and metal oxide/rGO composites: Fabrication and their supercapacitor and catalytic applications. 2023 , 947, 169588	0
71	Topology-controlled thermomechanical properties of diamond nanothread enhanced polymeric materials. 2023 , 32, 101822	O
70	Magnetic filler alignment of single graphene nanoplatelets modified by Fe3O4 to improve the thermal conductivity of the epoxy composite. 2023 , 122, 68-78	O
69	Functional materials contributing to the removal of chlorinated hydrocarbons from soil and groundwater: Classification and intrinsic chemical-biological removal mechanisms. 2023 , 879, 163011	O
68	Green synthesis of eco-friendly magnetic metal-organic framework nanocomposites (AlFum -graphene oxide) and pollutants (dye and pharmaceuticals) removal capacity from water. 2023 , 302, 127720	0
67	Microwave synthesis of boron- and nitrogen-codoped graphene quantum dots and their detection to pesticides and metal ions. 2023 , 318, 137926	O
66	Defect mediated lithium adsorption on graphene-based silicon composite electrode for high capacity and high stability lithium-ion battery. 2023 , 931, 117179	0
65	An Overview on Exploitation of Graphene-Based Membranes: From Water Treatment to Medical Industry, Including Recent Fighting against COVID-19. 2023 , 11, 310	O
64	Graphene in wearable textile sensor devices for healthcare. 2022 , 54, 201-245	0
63	Liquid metal-based elastomer heat conduction enhancement enabled by stretching. 2023 , 43, 102801	O
62	Fabrication of interdigitated electrodes of graphene oxide/silica by femtosecond laser-induced forward transfer for sensing applications. 2023 , 133, 053103	0
61	Adsorption and diffusion of potassium on layered SnO: a DFT analysis. 2023 , 58, 3208-3218	O
60	Preparation of eco-friendly mesoporous expanded graphite for oil sorption.	0
59	Low-dimensionality carbon-based biosensors: the new era of emerging technologies in bioanalytical chemistry.	O
58	Noble Metal-Based Heterogeneous Catalysts for Electrochemical Hydrogen Evolution Reaction. 2023 , 13, 2177	0
57	A Graphene-Based Aerogel Was Prepared as Solid Adsorbent for the Enrichment of Platinum (IV) at Trace Concentration. 2023 , 13, 17-29	O

56	Study of adsorption energy for toxic gases (NH3, Br2) in pure and sulfur doped graphene nano-ribbon. 2023 ,	О
55	Modeling of electrical conductivity for graphene-based systems by filler morphology and tunneling length. 2023 , 134, 109782	О
54	Recent developments in GO/Cellulose based composites: Properties, synthesis, and its applications. 2023 , 270, 125786	0
53	Stretchable conductive nanocomposites of low electrical percolation threshold for washable high-performance-interconnects. 2023 , 11, 3796-3804	O
52	Controlled Interfacial Polymer Self-Assembly Coordinates Ultrahigh Drug Loading and Zero-Order Release in Particles Prepared under Continuous Flow.	O
51	Study of Magnetic and Magnetocaloric Properties of the Nano-Graphene of Mixed Spins S = $3/2$ and \square = 2: A Monte Carlo Simulation. 2200526	O
50	Conductive polymers and composites-based systems: An incipient stride in drug delivery and therapeutics realm. 2023 , 355, 709-729	1
49	Biocomposites: Prospects and Manifold Applications for Human and Environmental Sustainability. 2023 , 12, 037002	O
48	A review of low-cost approaches to synthesize graphene and its functional composites. 2023 , 58, 4359-4383	0
47	Effects of surface-modified coal-bearing metakaolin and graphene oxide on the properties of cement mortar. 2023 , 372, 130796	О
46	Nanoplasmonic hybrid hotspot in graphene transistor. 2023 , 107,	0
45	Controlling the physical properties of polyacrylonitrile by strontium hexaferrite nanoparticles.	O
44	Current Research Trends of Graphene Nanotechnology. 2023 , 106-123	0
43	Construction of Phthalocyanine-Titanium Dioxide/Graphene/Polyaniline Composite Electrodes by Electrochemical Method for Supercapacitor Applications. 2023 , 12, 031008	О
42	High-Performance PE/Graphene Composites with Improved Atomic Oxygen Resistance via Synergistic Effect of Graphene Defects and Structure.	0
41	Contemporary updates on bioremediation applications of graphene and its composites. 2023 , 30, 48854-4886	57 0
40	Hierarchical V4C3TX@NiO-reduced graphene oxide heterostructure hydrogels and defective reduced graphene oxide hydrogels as free-standing anodes and cathodes for high-performance asymmetric supercapacitors. 2023 , 25, 9140-9151	0
39	Penrose tiling-inspired graphene-covered multiband terahertz metamaterial absorbers. 2023 , 31, 12653	O

38	Brazing of SiC ceramic to Al0.3CoCrFeNi high entropy alloy by graphene nanoplates reinforced AgCuTi composite fillers. 2023 , 49, 19216-19226	0
37	Chemical Sensors Based on Graphene and 2D Graphene Analogs. 2200057	0
36	Prospective features of functional 2D nanomaterial graphene oxide in the wound healing process. 2023 , 82, 104352	0
35	International Interlaboratory Comparison of Thermogravimetric Analysis of Graphene-Related Two-Dimensional Materials. 2023 , 95, 5176-5186	O
34	Tuning the Magnetic Anisotropy of CoN-Doped Graphene.	0
33	Self-healing Polymer Substrates. 2023 , 107-127	O
32	Strategies to resolve intrinsic conflicts between strength and toughness in polyethylene composites. 2023 ,	0
31	Mechanical properties of nanocomposition ceramics with graphene. 2023,	0
30	Tunable Electronic Properties of Substitutionally Doped CSb Monolayer.	0
29	Nanoelectromechanical Temperature Sensor Based on Piezoresistive Properties of Suspended Graphene Film. 2023 , 13, 1103	O
28	Terahertz Cross-Correlation Spectroscopy and Imaging of Large-Area Graphene. 2023 , 23, 3297	1
27	Thrust characteristics of nano-carbon/Al/oxygenated salt nanothermites for micro-energetic applications. 2023 ,	O
26	The Efficiency Study of Graphene Synthesis on Copper Substrate via Chemical Vapor Deposition Method with Methanol Precursor. 2023 , 13, 1136	0
25	Superelastic Carbon Aerogels: An Emerging Material for Advanced Thermal Protection in Extreme Environments.	O
24	Recent approach in producing transparent conductive films (TCFs).	0
23	Effective DC Conductivity of Polymer Composites Containing Graphene Nanosheets.	O
22	Potential Biomedical Limitations of Graphene Nanomaterials. Volume 18, 1695-1708	0
21	Development of a Pt-graphene nanocomposite-based solid-phase extraction coupled with ultra-performance liquid chromatographyEandem mass spectrometry for the determination of carbamate pesticides in fish.	O

20	Recent advances in synthesis and properties of zirconium-based MXenes for application in rechargeable batteries.	0
19	Direct current magnetron sputtered Ni3Al thin films with electron transport behaviour for superior electromagnetic shielding. 2023 , 129,	О
18	Polymer/carbon nanotube nanocomposites as temperature sensing materials. 2023 , 31, 096739112311666	0
17	Thermal Fabrication of Magnetic Fe3O4 (Nanoparticle)@Carbon Sheets from Waste Resources for the Adsorption of Dyes: Kinetic, Equilibrium, and UVI/isible Spectroscopy Investigations. 2023 , 13, 1266	O
16	Facile preparation of metal-free graphitic-like carbon nitride/graphene oxide composite for simultaneous determination of uric acid and dopamine. 2023 , 190, 108726	О
15	Synthesis of ultra-thin graphene oxide/ reduced graphene oxide nanocomposites and examine their properties. 2023 ,	O
14	Strain effects on the electronic and magnetic properties of Cr2TaC2 and Cr2TaC2O2 monolayers. 2023 , 122, 151901	0
13	A two-step homogenization micromechanical model for strain-sensing of graphene reinforced porous cement composites. 2023 , 71, 106546	O
12	Revolutionizing Drug Delivery and Therapeutics: The Biomedical Applications of Conductive Polymers and Composites-Based Systems. 2023 , 15, 1204	O
11	Synergistic effects between carbon nanotube and anisotropy-shaped Ni in polyurethane sponge to improve electromagnetic interference shielding.	O
10	Synergistically toughened silicone rubber nanocomposites using carbon nanotubes and molybdenum disulfide for stretchable strain sensors. 2023 , 259, 110759	0
9	Comparison of Thermal and Laser-Reduced Graphene Oxide Production for Energy Storage Applications. 2023 , 13, 1391	O
8	Graphene/carbon nanotube/polypyrrole composite films for electromagnetic interference shielding.	0
7	Thermal Conductivity of a Two-Dimensional Diamondene Sheet: A Molecular Study.	O
6	Friction generated and Hele-Shaw cell designed facile alternative electrodes for high energy density supercapacitors. 2023 , 66, 107407	0
5	Bimetallic nanocomposites supported on reduced graphene nanosheets for fuel cell applications. 2023 , 179-198	O
4	Concise nanotherapeutic modality for cancer involving graphene oxide dots in conjunction with ascorbic acid.	О
3	Enhanced impermeability of cementitious composite by different content of graphene oxide nanoparticles. 2023 , 72, 106675	O

Quantification of nanoparticles' concentration inside polymer films using lock-in thermography.

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

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