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Synthesis and exfoliation of isocyanate-treated graphene oxide nanoplatelets

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1600	Structural evolution during annealing of thermally reduced graphene nanosheets for application in supercapacitors. <i>Carbon</i> , 2012 , 50, 3572-3584	10.4 312
1599	Visualization of defect densities in reduced graphene oxide. <i>Carbon</i> , 2012 , 50, 3666-3673	10.4 390
1598	Synthesis, characterization and electrochemical properties of functionalized graphene oxide. <i>Carbon</i> , 2012 , 50, 4228-4238	10.4 128
1597	Observation of mechanical percolation in functionalized graphene oxide/elastomer composites. <i>Carbon</i> , 2012 , 50, 4489-4494	10.4 60

1596	A mechanically strong, flexible and conductive film based on bacterial cellulose/graphene nanocomposite. 2012 , 87, 644-649	244
1595	Synthesis and catalytic investigation of organophilic Pd/graphite oxide nanocomposites. 2012 , 17, 104-107	7
1594	Evaluation of sulfonated graphene sheets as sorbent for micro-solid-phase extraction combined with gas chromatography-mass spectrometry. 2012 , 1233, 16-21	105
1593	Triphenylamine-functionalized graphene decorated with Pt nanoparticles and its application in photocatalytic hydrogen production. 2012 , 37, 4880-4888	68
1592	Co3O4 nanocrystals on graphene oxide as a synergistic catalyst for degradation of Orange II in water by advanced oxidation technology based on sulfate radicals. 2012 , 123-124, 265-272	174
1591	Buckling of orthotropic micro/nanoscale plates under linearly varying in-plane load via nonlocal continuum mechanics. 2012 , 94, 1605-1615	111
1590	Lateral size selection of surfactant-stabilised graphene flakes using size exclusion chromatography. 2012 , 531, 169-172	19
1589	Superior dispersion of highly reduced graphene oxide in N,N-dimethylformamide. 2012 , 376, 91-6	66
1588	Cobalt (hydr)oxide/graphite oxide composites: importance of surface chemical heterogeneity for reactive adsorption of hydrogen sulfide. 2012 , 378, 1-9	40
1587	Reduced graphene oxide and nanosheet-based nickel oxide microsphere composite as an anode material for lithium ion battery. 2012 , 64, 23-28	72
1586	Layer-by-layer self-assembly of functionalized graphene nanoplates for glucose sensing in vivo integrated with on-line microdialysis system. 2012 , 32, 118-26	83
1585	An investigation of the electrical transport properties of graphene-oxide thin films. 2012 , 132, 29-33	169
1584	Preparation, thermal stability and electrical properties of PMMA/functionalized graphene oxide nanosheets composites. 2012 , 134, 677-685	51
1583	Metal nanoparticles supported graphene oxide 3D porous monoliths and their excellent catalytic activity. 2012 , 134, 585-589	37
1582	Humidity sensing behaviors of graphene oxide-silicon bi-layer flexible structure. 2012 , 161, 1053-1058	144
1581	Facile method to prepare Pd/graphene/polyaniline nanocomposite and used as new electrode material for electrochemical sensing. 2012 , 353-354, 80-86	46
1580	Photodecomposition effects of graphene oxide coated on TiO2 thin film prepared by electron-beam evaporation method. 2012 , 520, 5417-5420	15
1579	Chemical functionalization of graphene and its applications. 2012 , 57, 1061-1105	1351

1578	Microstructure and fracture toughness of Si ₃ N ₄ +graphene platelet composites. 2012 , 32, 3389-3397	142
1577	Graphene oxide adsorption enhanced by in situ reduction with sodium hydrosulfite to remove acridine orange from aqueous solution. 2012 , 203-204, 101-10	146
1576	Photoreduction of graphite oxide nanosheets with vacuum ultraviolet radiation. 2012 , 46, 117-121	21
1575	Composites of graphene and other nanocarbons with organogelators assembled through supramolecular interactions. 2012 , 18, 2890-901	51
1574	Mixed colloidal suspensions of reduced graphene oxide and layered metal oxide nanosheets: useful precursors for the porous nanocomposites and hybrid films of graphene/metal oxide. 2012 , 18, 2263-71	53
1573	Improving the thermal and mechanical properties of poly(propylene carbonate) by incorporating functionalized graphite oxide. 2012 , 123, 2743-2752	16
1572	Self-assembly between graphene sheets and cationic poly(methyl methacrylate) (PMMA) particles: preparation and characterization of PMMA/graphene composites. 2012 , 14, 1	33
1571	A high-capacity graphene nanosheet material with capacitive characteristics for the anode of lithium-ion batteries. 2012 , 16, 557-561	13
1570	Fabrication of biocompatible and mechanically reinforced graphene oxide-chitosan nanocomposite films. 2013 , 7, 39	163
1569	Fabrication and Evaluation of Non-porous Graphene by a Unique Spray Pyrolysis Method. 2013 , 36, 1550-1558	6
1568	Preparation, characterization, and electrochemical performances of graphene/Ni(OH) ₂ hybrid nanomaterials. 2013 , 15, 1	6
1567	Synthesis and characterization of Li ₄ Ti ₅ O ₁₂ /graphene composite as anode material with enhanced electrochemical performance. 2013 , 19, 717-723	14
1566	Design and synthesis of Pd-MnO ₂ nanolamella-graphene composite as a high-performance multifunctional electrocatalyst towards formic acid and methanol oxidation. 2013 , 15, 10367-75	64
1565	Preparation of UV-curable functionalized graphene/polyurethane acrylate nanocomposite with enhanced thermal and mechanical behaviors. 2013 , 73, 854-858	38
1564	Synthesis of polydopamine-coated graphene/polymer nanocomposites via RAFT polymerization. 2013 , 51, 3941-3949	38
1563	High-performance visible-light-driven plasmonic photocatalysts Ag/AgCl with controlled size and shape using graphene oxide as capping agent and catalyst promoter. 2013 , 29, 9259-68	92
1562	A rational design of cosolvent exfoliation of layered materials by directly probing liquid-solid interaction. 2013 , 4, 2213	204
1561	Novel organic/inorganic flame retardants containing exfoliated graphene: preparation and their performance on the flame retardancy of epoxy resins. 2013 , 1, 6822	136

1560	InP/ZnS-graphene oxide and reduced graphene oxide nanocomposites as fascinating materials for potential optoelectronic applications. 2013 , 5, 9793-805		21
1559	Surface and mechanical properties of graphene/clay/polyimide composites and thin films. <i>Carbon</i> , 2013 , 63, 9-22	10.4	20
1558	Structural elucidation and spectral characterizations of Co ₃ O ₄ nanoflakes. 2013 , 114, 586-91		57
1557	Increased optical nonlinearities of graphene nanohybrids covalently functionalized by axially-coordinated porphyrins. <i>Carbon</i> , 2013 , 53, 327-338	10.4	94
1556	Preparation and properties of 3-aminopropyltriethoxysilane functionalized graphene/polyurethane nanocomposite coatings. 2013 , 291, 2765-2773		28
1555	Pseudo and true visible light photocatalytic activity of nanotube titanate/graphene composites. 2013 , 15, 1		2
1554	Biocompatibility of novel carboxylated graphene oxide/glutamic acid complexes. 2013 , 48, 7097-7103		7
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1550	Synthesis of graphene oxide grafted poly(lactic acid) with palladium nanoparticles and its application to serotonin sensing. 2013 , 284, 438-445		40
1549	Micro-continuous flow synthesis of gold nanoparticles and integrated deposition on suspended sheets of graphene oxide. 2013 , 225, 597-606		18
1548	Edge-selectively sulfurized graphene nanoplatelets as efficient metal-free electrocatalysts for oxygen reduction reaction: the electron spin effect. 2013 , 25, 6138-45		465
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1545	Morphology, crystallization and mechanical properties of poly(ϵ -caprolactone)/graphene oxide nanocomposites. 2013 , 31, 1148-1160		28
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1542	Preparation of highly stacked graphene papers via site-selective functionalization of graphene oxide. 2013 , 1, 12893	43
1541	Tailoring the interlayer interaction between doxorubicin-loaded graphene oxide nanosheets by controlling the drug content. <i>Carbon</i> , 2013 , 51, 164-172	10.4 40
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1539	Benzoin derived reduced graphene oxide (rGO) and its nanocomposite: application in dye removal and peroxidase-like activity. 2013 , 3, 21475	30
1538	Synergistic effect of multi walled carbon nanotubes and reduced graphene oxides in natural rubber for sensing application. 2013 , 9, 10343	129
1537	Modifying graphite oxide with grafted methyl acrylate brushes for the attachment of magnetite nanoparticles. 2013 , 280, 235-239	4
1536	Enhancement of electron mobility and photovoltaic performance based on the P3HT:SPRGO organic photovoltaic. 2013 , 174, 54-57	0
1535	Cobalt Phthalocyanine@Graphene Oxide Nanocomposite: Complicated Mutual Electronic Interaction. 2013 , 117, 3785-3788	91
1534	Largely enhanced thermal and mechanical properties of polymer nanocomposites via incorporating C60@graphene nanocarbon hybrid. 2013 , 24, 505706	52
1533	Efficient surfactant-free and chemical reductant-free solvothermal deoxidation of solution-processable sub-stoichiometric graphene oxide. 2013 , 1, 7246	3
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1530	Enhanced mechanical and gas barrier properties of rubber nanocomposites with surface functionalized graphene oxide at low content. 2013 , 54, 1930-1937	181
1529	Large-scale production of high-quality reduced graphene oxide. 2013 , 233, 297-304	44
1528	Synthesis of Palladium Nanoparticles in Various Carbon Materials. 2013 , 761, 147-150	1
1527	Recent advances in optical limiting properties of fluorinated graphene oxides. 2013 ,	
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1518	Preparation and electrical conductivity of novel vanadate borate glass system containing graphene oxide. 2013 , 376, 117-125	23
1517	Graphene-based nanocomposites: preparation, functionalization, and energy and environmental applications. 2013 , 6, 3483	422
1516	Mechanically Strong and Multifunctional Polyimide Nanocomposites Using Amimophenyl Functionalized Graphene Nanosheets. 2013 , 46, 3505-3511	109
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1514	Preparation and evaluation of activated carbons from lotus stalk with trimethyl phosphate and tributyl phosphate activation for lead removal. 2013 , 228, 425-434	63
1513	Reconstruction of optical images of graphene-based materials coated on dielectric substrates. 2013 , 52, 023601	6
1512	Preparation of reduced graphene oxide by infrared irradiation induced photothermal reduction. 2013 , 5, 9040-8	63
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1506	Synthesis of reduced graphene oxide/Cu nanoparticle composites and their tribological properties. 2013 , 3, 26086		53
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1504	Graphene oxide as auxiliary binder for TiO ₂ nanoparticle coating to more effectively fabricate dye-sensitized solar cells. 2013 , 222, 161-168		36
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1494	Synthesis of a highly conductive and large surface area graphene oxide hydrogel and its use in a supercapacitor. 2013 , 1, 208-211		189
1493	Polymer composite of poly(vinyl phenol)-reduced graphene oxide reduced by vitamin C in low energy consuming write-once-read-many times memory devices. 2013 , 14, 175-181		50
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1490	Electrolyte-induced precipitation of graphene oxide in its aqueous solution. 2013 , 391, 21-7		47
1489	Large-scale production of edge-selectively functionalized graphene nanoplatelets via ball milling and their use as metal-free electrocatalysts for oxygen reduction reaction. 2013 , 135, 1386-93		497

1488	Facile and economical exfoliation of graphite for mass production of high-quality graphene sheets. 2013 , 1, 500-504	79
1487	Graphite oxide platelets functionalized by poly(ionic liquid) brushes and their chemical reduction. 2013 , 15, 1	8
1486	Decorating single layer graphene oxide with electron donor and acceptor molecules for the study of photoinduced electron transfer. 2013 , 49, 2013-5	33
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1483	Preparation and characterization of activated carbon from wool waste and the comparison of muffle furnace and microwave heating methods. 2013 , 249, 234-240	31
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1481	Low temperature preparation of FeOOH/reduced graphene oxide and its catalytic activity for the photodegradation of an organic dye. 2013 , 24, 395601	20
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1469	Ethylene glycol reduced graphene oxide/polypyrrole composite for supercapacitor. 2013 , 88, 519-525	167
1468	Co(OH) ₂ /graphene sheet-on-sheet hybrid as high-performance electrochemical pseudocapacitor electrodes. 2013 , 17, 1159-1165	21
1467	In situ polymerization and mechanical, thermal properties of polyurethane/graphene oxide/epoxy nanocomposites. 2013 , 47, 850-856	131
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1461	Emulsion grafting vinyl monomers onto starch for reinforcement of styrene-butadiene rubber. 2013 , 21, 519-528	58
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