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The reduction of graphene oxide

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2303	Recent Advances in Fabrication and Characterization of Graphene-Polymer Nanocomposites. 2012 , 01, 30-49		172
2302	Graphene oxide vs. reduced graphene oxide as saturable absorbers for Er-doped passively mode-locked fiber laser. 2012 , 20, 19463-73		353
2301	Functionalized graphene oxide for fire safety applications of polymers: a combination of condensed phase flame retardant strategies. 2012 , 22, 23057		128
2300	Electrochemical reduction of graphene oxide and its in situ spectroelectrochemical characterization. 2012 , 14, 14003-9		76
2299	Graphene prepared via a novel pyridineThermal strategy for capacitive deionization. 2012 , 22, 23745		132
2298	Tailoring the characteristics of graphite oxide nanosheets for the production of high-performance poly(vinyl alcohol) composites. <i>Carbon</i> , 2012 , 50, 5525-5536	10.4	33
2297	Effective large-area free-standing graphene field emitters by electrophoretic deposition. 2012 , 101, 183107		25
2296	Fabrication of two-dimensional hybrid sheets by decorating insulating PANI on reduced graphene oxide for polymer nanocomposites with low dielectric loss and high dielectric constant. 2012 , 22, 23477		162

2295	Water-soluble graphene sheets with large optical limiting response via non-covalent functionalization with polyacetylenes. 2012 , 22, 22624		31
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2293	Linearly polarized, Q-switched Er-doped fiber laser based on reduced graphene oxide saturable absorber. 2012 , 101, 241106		59
2292	A facile green strategy for rapid reduction of graphene oxide by metallic zinc. 2012 , 2, 8827		163
2291	Effects of reduction process and carbon nanotube content on the supercapacitive performance of flexible graphene oxide papers. <i>Carbon</i> , 2012 , 50, 4239-4251	10.4	100
2290	A facile electrochemical approach for development of highly corrosion protective coatings using graphene nanosheets. 2013 , 32, 22-26		103
2289	Synthesis of reduced graphene oxide by an ionothermal method and electrochemical performance. 2013 , 3, 11807		24
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2282	Electrochemically triggered graphene sheets through cathodic exfoliation for lithium ion batteries anodes. 2013 , 3, 16130		17
2281	Reduction of graphene oxide through a green and metal-free approach using formic acid. 2013 , 37, 74-79		39
2280	Influence of graphene synthesizing techniques on the photocatalytic performance of graphene-TiO ₂ nanocomposites. 2013 , 15, 15528-37		37
2279	Identifying efficient natural bioreductants for the preparation of graphene and graphene-metal nanoparticle hybrids with enhanced catalytic activity from graphite oxide. <i>Carbon</i> , 2013 , 63, 30-44	10.4	38
2278	Microwave-assisted simultaneous reduction and titanate treatment of graphene oxide. 2013 , 1, 11451		34

2277	Three-dimensional graphene micropillar based electrochemical sensor for phenol detection. 2013 , 50, 387-92	88
2276	Balancing light absorptivity and carrier conductivity of graphene quantum dots for high-efficiency bulk heterojunction solar cells. 2013 , 7, 7207-12	152
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2274	Hydrothermal deoxygenation of graphene oxide: chemical and structural evolution. 2013 , 8, 2070-8	48
2273	Graphene materials with different structures prepared from the same graphite by the Hummers and Brodie methods. <i>Carbon</i> , 2013 , 65, 156-164	10.4 272
2272	One pot synthesis of a highly water-dispersible hybrid glucose carbides and reduced graphene oxide material with superior electrical capacitance. 2013 , 48, 8277-8286	8
2271	Hidden Role of a Hydroxyl Group in Mediating the Oxygen Line Defect on a Graphene Surface. 2013 , 117, 17832-17838	4
2270	Preparation and tribological performance of chemically-modified reduced graphene oxide/polyacrylonitrile composites. 2013 , 54, 153-158	37
2269	Graphene oxide: a stable carbon framework for functionalization. 2013 , 1, 11559	99
2268	Graphene and graphene oxide as new nanocarriers for drug delivery applications. 2013 , 9, 9243-57	865
2267	A highly efficient transition metal nitride-based electrocatalyst for oxygen reduction reaction: TiN on a CNT/graphene hybrid support. 2013 , 1, 8007	105
2266	Synthesis of superior dispersions of reduced graphene oxide. 2013 , 37, 2778	18
2265	Enhancement of electron mobility and photovoltaic performance based on the P3HT:SPRGO organic photovoltaic. 2013 , 174, 54-57	0
2264	Graphene oxide and reduced graphene oxide as novel stationary phases via electrostatic assembly for open-tubular capillary electrochromatography. 2013 , 34, 1869-76	28
2263	Surface Modification of Graphene. 2013 , 35-86	2
2262	Structural Evolution of Reduced Graphene Oxide of Varying Carbon sp ² Fractions Investigated via Coulomb Blockade Transport. 2013 , 117, 26776-26782	28
2261	A rapid and efficient self-healing thermo-reversible elastomer crosslinked with graphene oxide. 2013 , 25, 5785-90	193
2260	Morphology-controlled synthesis of sunlight-driven plasmonic photocatalysts Ag@AgX (X = Cl, Br) with graphene oxide template. 2013 , 1, 12536	29

2259	Leaf-like Graphene Oxide with a Carbon Nanotube Midrib and Its Application in Energy Storage Devices. 2013 , 23, n/a-n/a		2
2258	High-temperature ferro-electricity in two-dimensional atomic crystal. 2013 , 103, 193103		26
2257	Electrochemical properties of graphene flakes as an air cathode material for Li-O ₂ batteries in an ether-based electrolyte. 2013 , 15, 20262-71		38
2256	Sn powder as reducing agents and SnO ₂ precursors for the synthesis of SnO ₂ -reduced graphene oxide hybrid nanoparticles. 2013 , 5, 13333-9		31
2255	Fabrication and tribological properties of a multiply-alkylated cyclopentane/reduced graphene oxide composite ultrathin film. <i>Carbon</i> , 2013 , 65, 261-268	10.4	21
2254	Hybrid of Co(3)Sn(2)@Co nanoparticles and nitrogen-doped graphene as a lithium ion battery anode. 2013 , 7, 10307-18		178
2253	Controlled functionalization of graphene oxide with sodium azide. 2013 , 5, 12136-9		45
2252	Evidence for Nonradiative Energy Transfer in Graphene-Oxide-Based Hybrid Structures. 2013 , 117, 25298-25304		47
2251	Three-dimensional strutted graphene grown by substrate-free sugar blowing for high-power-density supercapacitors. 2013 , 4, 2905		514
2250	Reduced graphene oxide with a highly restored π -conjugated structure for inkjet printing and its use in all-carbon transistors. 2013 , 6, 842-852		56
2249	Reduced graphene oxide modified Li ₂ FeSiO ₄ /C composite with enhanced electrochemical performance as cathode material for lithium ion batteries. 2013 , 5, 12304-9		75
2248	Thermal Reduced Graphene Based Poly(ethylene vinyl alcohol) Nanocomposites: Enhanced Mechanical Properties, Gas Barrier, Water Resistance, and Thermal Stability. 2013 , 52, 16745-16754		52
2247	Rearrangement of π -electron network and switching of edge-localized π -state in reduced graphene oxide. 2013 , 7, 11190-9		16
2246	Towards low temperature thermal exfoliation of graphite oxide for graphene production. <i>Carbon</i> , 2013 , 62, 11-24	10.4	108
2245	Self healing of defected graphene. 2013 , 102, 103107		90
2244	TiN nanoparticles on CNT-graphene hybrid support as noble-metal-free counter electrode for quantum-dot-sensitized solar cells. 2013 , 6, 261-7		49
2243	Optimization of the size and yield of graphene oxide sheets in the exfoliation step. <i>Carbon</i> , 2013 , 63, 576-578	10.4	70
2242	Layer-by-layer self-assembly of ultrathin multilayer films composed of magnetite/reduced graphene oxide bilayers for supercapacitor application. 2013 , 436, 104-112		51

2241	Enhancing thermoelectric properties of organic composites through hierarchical nanostructures. 2013 , 3, 3448	267
2240	Production of graphene by reduction using a magnesiothermic reaction. 2013 , 49, 10676-8	19
2239	An overview of the engineered graphene nanostructures and nanocomposites. 2013 , 3, 22790	167
2238	In situ Raman spectroscopy and thermal analysis of the formation of nitrogen-doped graphene from urea and graphite oxide. 2013 , 3, 21763	39
2237	Electrochemical co-reduction synthesis of graphene/nano-gold composites and its application to electrochemical glucose biosensor. 2013 , 112, 774-782	79
2236	Mechanically Robust, Electrically Conductive Biocomposite Films Using Antimicrobial Chitosan-Functionalized Graphenes. 2013 , 30, 721-727	44
2235	Contactless surface conductivity mapping of graphene oxide thin films deposited on glass with scanning electrochemical microscopy. 2013 , 85, 1812-8	18
2234	Nanoscale calcium aluminate coated graphite for improved performance of alumina based monolithic refractory composite. 2013 , 48, 2583-2588	16
2233	Unusual inherent electrochemistry of graphene oxides prepared using permanganate oxidants. 2013 , 19, 12673-83	80
2232	Surface Charge Research of Graphene Oxide, Chemically Reduced Graphene Oxide and Thermally Exfoliated Graphene Oxide. 2013 , 716, 127-131	19
2231	Bi-Functional N-Doped CNT/Graphene Composite as Highly Active and Durable Electrocatalyst for Metal Air Battery Applications. 2013 , 160, A2244-A2250	52
2230	Catalytic templating approaches for three-dimensional hollow carbon/graphene oxide nano-architectures. 2013 , 5, 6291-6	30
2229	A high power density electrode with ultralow carbon via direct growth of particles on graphene sheets. 2013 , 1, 6183	20
2228	Graphene oxide. Origin of acidity, its instability in water, and a new dynamic structural model. 2013 , 7, 576-88	450
2227	Nanostructured carbon-metal oxide composite electrodes for supercapacitors: a review. 2013 , 5, 72-88	1608
2226	Sandwich nanocomposites of polyaniline embedded between graphene layers and multi-walled carbon nanotubes for cycle-stable electrode materials of organic supercapacitors. 2013 , 3, 1797-1807	19
2225	Flexible free-standing hollow Fe ₃ O ₄ /graphene hybrid films for lithium-ion batteries. 2013 , 1, 1794-1800	171
2224	Graphene-related nanomaterials: tuning properties by functionalization. 2013 , 5, 4541-83	524

2223	Versatilities of graphene-based catalysts in organic transformations. 2013 , 1, 47-61		37
2222	Magnetic field induced capacitance enhancement in graphene and magnetic graphene nanocomposites. 2013 , 6, 194-204		122
2221	Reduction of graphite oxide to graphene with laser irradiation. <i>Carbon</i> , 2013 , 52, 574-582	10.4	122
2220	Recent advances in the efficient reduction of graphene oxide and its application as energy storage electrode materials. 2013 , 5, 52-71		392
2219	Graphite oxide platelets functionalized by poly(ionic liquid) brushes and their chemical reduction. 2013 , 15, 1		8
2218	Functionalization of graphite oxide with magnetic chitosan for the preparation of a nanocomposite dye adsorbent. 2013 , 29, 1657-68		280
2217	Ultratough artificial nacre based on conjugated cross-linked graphene oxide. 2013 , 52, 3750-5		249
2216	A stable silicon/graphene composite using solvent exchange method as anode material for lithium ion batteries. <i>Carbon</i> , 2013 , 63, 397-403	10.4	43
2215	p-Xylylenediamine intercalation of graphene oxide for the production of stitched nanostructures with a tailored interlayer spacing. <i>Carbon</i> , 2013 , 59, 100-108	10.4	38
2214	Nanoscale assembly into extended and continuous structures and hybrid materials. 2013 , 5, e43-e43		18
2213	Anode behavior of Sn/WC/graphene triple layered composite for lithium-ion batteries. 2013 , 108, 674-679		20
2212	The production of organogels using graphene oxide as the gelator for use in high-performance quasi-solid state dye-sensitized solar cells. <i>Carbon</i> , 2013 , 54, 48-57	10.4	38
2211	Simple fabrication of strongly coupled cobalt ferrite/carbon nanotube composite based on deoxygenation for improving lithium storage. <i>Carbon</i> , 2013 , 65, 112-123	10.4	64
2210	On the interpretation of XPS spectra of metal (Pt, PtSn) nanoparticle/graphene systems. <i>Carbon</i> , 2013 , 63, 578-581	10.4	36
2209	Graphene synthesis: relationship to applications. 2013 , 5, 38-51		533
2208	The tunable electrical properties of graphene nano-bridges. 2013 , 1, 2548		6
2207	Towards full repair of defects in reduced graphene oxide films by two-step graphitization. 2013 , 6, 216-233		165
2206	In Situ Polymerization on Graphene Surfaces. 2013 , 117, 2817-2823		21

2205	Applications of graphene electrophoretic deposition. A review. 2013 , 117, 1502-15	198
2204	The mechanism of the reaction of graphite oxide to reduced graphene oxide under ultraviolet irradiation. <i>Carbon</i> , 2013 , 54, 412-418	10.4 56
2203	Effects of Charging and Electric Field on Graphene Oxide. 2013 , 117, 5943-5952	44
2202	Fusion of nacre, mussel, and lotus leaf: bio-inspired graphene composite paper with multifunctional integration. 2013 , 5, 5758-64	57
2201	A rapid and easy approach for the reduction of graphene oxide by formamidinesulfonic acid. <i>Carbon</i> , 2013 , 54, 36-41	10.4 40
2200	Calcined graphene/MgAl-layered double hydroxides for enhanced Cr(VI) removal. 2013 , 221, 204-213	238
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2198	Reduction of graphene oxide to highly conductive graphene by Lawesson's reagent and its electrical applications. 2013 , 1, 3104	127
2197	Graphene oxide-encapsulated carbon nanotube hybrids for high dielectric performance nanocomposites with enhanced energy storage density. 2013 , 5, 3847-55	157
2196	Ultrasound-free preparation of graphene oxide from mechanochemically oxidized graphite. 2013 , 1, 6658	32
2195	Facilely prepared polypyrrole-reduced graphite oxide core-shell microspheres with high dispersibility for electrochemical detection of dopamine. 2013 , 49, 4610-2	76
2194	Graphene in lithium ion battery cathode materials: A review. 2013 , 240, 66-79	436
2193	Electrochemical modification of graphene oxide bearing different types of oxygen functional species for the electro-catalytic oxidation of reduced glutathione. 2013 , 184, 15-20	46
2192	Graphene oxide/Fe ₂ O ₃ hybrid material as highly efficient heterogeneous catalyst for degradation of organic contaminants. <i>Carbon</i> , 2013 , 60, 437-444	10.4 294
2191	A facilely prepared polypyrrole/reduced graphene oxide composite with a crumpled surface for high performance supercapacitor electrodes. 2013 , 1, 6539	80
2190	RuO ₂ /TiSi ₂ /graphene composite for enhanced photocatalytic hydrogen generation under visible light irradiation. 2013 , 15, 2793-9	35
2189	Highly conductive reduced graphene oxide produced via pressure-assisted reduction at mild temperature for flexible and transparent electrodes. 2013 , 49, 4887-9	24
2188	Preparation and electrochemical properties of sodium-reduced graphene oxide. 2013 , 24, 3382-3386	9

2187	Plasma-assisted simultaneous reduction and nitrogen doping of graphene oxide nanosheets. 2013 , 1, 4431		168
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2185	Supercapacitor performance of crumpled and planar graphene materials produced by hydrogen gas reduction of graphene oxide. 2013 , 1, 7957		21
2184	Ultratough Artificial Nacre Based on Conjugated Cross-linked Graphene Oxide. 2013 , 125, 3838-3843		67
2183	Phosphorus-doped graphene nanosheets as efficient metal-free oxygen reduction electrocatalysts. 2013 , 3, 9978		317
2182	Wet chemical synthesis of graphene. 2013 , 25, 3583-7		392
2181	In situ polymerization of highly dispersed polypyrrole on reduced graphite oxide for dopamine detection. 2013 , 50, 157-60		44
2180	A brief review of graphene/metal oxide composites synthesis and applications in photocatalysis. 2013 , 1, 21-39		118
2179	3D MnO ₂ -graphene composites with large areal capacitance for high-performance asymmetric supercapacitors. 2013 , 5, 6790-6		234
2178	Ultra-small Fe ₃ O ₄ nanoparticle decorated graphene nanosheets with superior cyclic performance and rate capability. 2013 , 5, 6797-803		70
2177	Direct writing on graphene 'paper' by manipulating electrons as 'invisible ink'. 2013 , 24, 275301		23
2176	Progress in the electrochemical modification of graphene-based materials and their applications. 2013 , 107, 425-440		96
2175	A new insight into the in situ thermal reduction of graphene oxide dispersed in a polymer matrix. 2013 , 4, 1765		46
2174	Carbonisation of biomass-derived chars and the thermal reduction of a graphene oxide sample studied using Raman spectroscopy. <i>Carbon</i> , 2013 , 59, 383-405	10.4	109
2173	Simultaneous in situ reduction, self-alignment and covalent bonding in graphene oxide/epoxy composites. <i>Carbon</i> , 2013 , 59, 406-417	10.4	207
2172	A remarkably simple characterization of glassy carbon-supported films of graphite, graphene oxide, and chemically converted graphene using Fe(CN) ₃ ³⁻ /Fe(CN) ₄ ⁴⁻ and O ₂ as redox probes. 2013 , 3, 9550		32
2171	Anchoring a uniform TiO ₂ layer on graphene oxide sheets as an efficient visible light photocatalyst. 2013 , 282, 400-407		78
2170	Reduced graphene oxide: a promising electrode material for oxygen electrodes. 2013 , 3, 1		10

2169	Functional composition and super-capacitor properties of graphite oxide reduced with hot sulfuric acid. 2013 , 250, 2747-2752	15
2168	Study of the thermal reduction of graphene oxide and of its application as electrocatalyst in quasi-solid state dye-sensitized solar cells in combination with PEDOT. 2013 , 111, 698-706	48
2167	Electric field assisted oxygen removal from the basal plane of the graphitic material. 2013 , 34, 305-10	8
2166	Broadband photoresponse and rectification of novel graphene oxide/n-Si heterojunctions. 2013 , 21, 26034-43	36
2165	Progress in Imidazolium Ionic Liquids Assisted Fabrication of Carbon Nanotube and Graphene Polymer Composites. 2013 , 5, 847-872	72
2164	Hyperbranched Polysiloxane Functionalized Graphene Oxide via Polyhydrosilylation. 2013 , 464, 3-8	
2163	Study of simultaneous reduction and nitrogen doping of graphene oxide Langmuir-Blodgett monolayer sheets by ammonia plasma treatment. 2013 , 24, 355704	38
2162	Toughening of polymers by graphene. 2013 , 2, 265-278	29
2161	Enhanced reduction of graphene oxide by means of charging and electric fields applied to hydroxyl groups. 2013 , 25, 435304	13
2160	Stable Dispersed Graphenes Prepared by the Reduction of Graphene Oxides with Mercapto Acid. 2013 , 652-654, 282-285	
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2157	Development of multi-channel carbon nanofibers as effective electrosorptive electrodes for a capacitive deionization process. 2013 , 1, 11001	57
2156	Dielectric behavior of graphene oxide powder when washed. 2013 ,	3
2155	On the interactions between poly(ethylene oxide) and graphite oxide: a comparative study by different computational methods. 2013 , 138, 094308	3
2154	Written-in conductive patterns on robust graphene oxide biopaper by electrochemical microstamping. 2013 , 52, 13784-8	116
2153	In situ Raman spectroelectrochemistry of graphene oxide. 2013 , 250, 2662-2667	20
2152	Written-in Conductive Patterns on Robust Graphene Oxide Biopaper by Electrochemical Microstamping. 2013 , 125, 14029-14033	14

2151	Fast and low-temperature reduction of graphene oxide films using ammonia plasma. 2013 , 3, 012117	28
2150	Thermostability, Photoluminescence, and Electrical Properties of Reduced Graphene Oxide/Carbon Nanotube Hybrid Materials. 2013 , 3, 28-37	28
2149	Graphene Oxide Based Surface Plasmon Resonance Biosensors. 2013 ,	9
2148	Graphene-based nanomaterials as heterogeneous acid catalysts: a comprehensive perspective. 2014 , 19, 14582-614	103
2147	Mechanistic aspects of the radiation-chemical reduction of graphene oxide to graphene-like materials. 2014 , 90, 486-94	13
2146	Fabrication and characterization of reduced graphene oxide modified nickel hydroxide electrode for energy storage applications. 2014 , 53, 08NC02	4
2145	Graphene and its Nanocomposites for Gas Sensing Applications. 2014 , 467-500	3
2144	Exploring the insertion of ethylenediamine and bis(3-aminopropyl)amine into graphite oxide. 2014 , 3, 28-39	1
2143	Size dependent electrochemical properties of reduced graphite oxide. 2014 , 608, 207-212	4
2142	Composition and Microstructure of the Al-Multilayer Graphene Composites Achieved by the Intensive Deformation. 2014 , 126, 921-927	5
2141	Growth of graphene on copper and nickel foils via chemical vapour deposition using ethylene. 2014 , 18, S4-706-S4-710	15
2140	Effect of nitrogen doping on wetting and photoactive properties of laser processed zinc oxide-graphene oxide nanocomposite layers. 2014 , 116, 024906	12
2139	Graphene oxide assisted spontaneous growth of V2O5 nanowires at room temperature. 2014 , 6, 11066-71	26
2138	Carbon-based Materials in Biomedicine. 2014 , 175-192	
2137	MoS2-based materials as alternative cathode catalyst for PEM electrolysis. 2014 , 39, 20837-20843	52
2136	Reduced graphene oxide-based sensing platform for electric cell/substrate impedance sensing. 2014 , 211, 1404-1409	8
2135	Reversible Graphene Functionalization for Electronic Applications: A Review. 2014 , 41-54	3
2134	Synthesis of graphene by microwave irradiation for dye adsorption. 2014 , 4, 64771-64780	27

2133	Fabrication and characteristics of GaN-based light-emitting diodes with a reduced graphene oxide current-spreading layer. 2014 , 6, 22451-6		11
2132	Engineering and Applications of Carbon Materials. 2014 , 219-525		8
2131	Self-Assembled, Redox-Active Graphene Electrodes for High-Performance Energy Storage Devices. 2014 , 5, 4324-30		27
2130	Reduced Graphene Oxide Supported Antimony Species for High-Performance Supercapacitor Electrodes. 2014 , 2014, 1-7		10
2129	The peculiarities of reduction of iron (III) oxides deposited on expanded graphite. 2014 , 29, 252-259		6
2128	Facile and green reduction of covalently PEGylated nanographene oxide via a 'water-only' route for high-efficiency photothermal therapy. 2014 , 9, 86		32
2127	The evolution of surface charge on graphene oxide during the reduction and its application in electroanalysis. <i>Carbon</i> , 2014 , 66, 302-311	10.4	100
2126	Significant improvement of refractoriness of Al ₂ O ₃ / castables containing calcium aluminate nano-coatings on graphite. 2014 , 40, 4407-4414		26
2125	Surfactant-free synthesis of graphene-functionalized carbon nanotube film as a catalytic counter electrode in dye-sensitized solar cells. 2014 , 247, 999-1004		66
2124	Three dimensional graphene synthesis on nickel foam by chemical vapor deposition from ethylene. 2014 , 179, 12-16		25
2123	Au nanoparticle/graphene oxide hybrids as stabilizers for Pickering emulsions and Au nanoparticle/graphene oxide@polystyrene microspheres. <i>Carbon</i> , 2014 , 71, 238-248	10.4	70
2122	High performance of symmetrical supercapacitor based on multilayer films of graphene oxide/polypyrrole electrodes. 2014 , 296, 195-203		54
2121	Layer-by-layer thin film of reduced graphene oxide and gold nanoparticles as an effective sample plate in laser-induced desorption/ionization mass spectrometry. 2014 , 809, 97-103		25
2120	Copper/silver nanoparticle incorporated graphene films prepared by a low-temperature solution method for transparent conductive electrodes. 2014 , 25, 174-180		18
2119	Non-enzymatic glucose biosensor based on copper oxide-reduced graphene oxide nanocomposites synthesized from water-isopropanol solution. 2014 , 130, 253-260		82
2118	Unstacked double-layer templated graphene for high-rate lithium-sulphur batteries. 2014 , 5, 3410		551
2117	Integrated graphene/nanoparticle hybrids for biological and electronic applications. 2014 , 6, 6245-66		98
2116	Graphene-polymer nanocomposites for structural and functional applications. 2014 , 39, 1934-1972		809

2115	Graphene modified Palladium sensor for electrochemical analysis of norepinephrine in pharmaceuticals and biological fluids. 2014 , 125, 622-629	64
2114	Carbon Nanomaterials: A Review. 2014 , 709-769	26
2113	The green synthesis of reduced graphene oxide by the ethanol-thermal reaction and its electrical properties. 2014 , 116, 416-419	31
2112	Synthesis of silanized maghemite nanoparticles onto reduced graphene sheets composites. 2014 , 30, 17-20	12
2111	Recent advances in the use of graphene-family nanoadsorbents for removal of toxic pollutants from wastewater. 2014 , 204, 35-56	367
2110	Synergistically constructed polyamine/nanosilica/graphene composites: preparation, features and removal of Hg ²⁺ and dyes from contaminated water. 2014 , 4, 9594	13
2109	Sodium functionalized graphene oxide coated titanium plates for improved corrosion resistance and cell viability. 2014 , 293, 124-131	27
2108	Structural Changes in Reduced Graphene Oxide upon MnO ₂ Deposition by the Redox Reaction between Carbon and Permanganate Ions. 2014 , 118, 2834-2843	53
2107	A practical carbon dioxide gas sensor using room-temperature hydrogen plasma reduced graphene oxide. 2014 , 193, 692-700	196
2106	Effect of interfacial interaction between graphene oxide derivatives and poly(vinyl chloride) upon the mechanical properties of their nanocomposites. 2014 , 49, 2943-2951	39
2105	Structural diversity of bulky graphene materials. 2014 , 10, 2200-14	39
2104	A structural and spectroscopic investigation of reduced graphene oxide under high pressure. <i>Carbon</i> , 2014 , 70, 199-206	10.4 7
2103	The reduction of graphene oxide by elemental copper and its application in the fabrication of graphene supercapacitor. 2014 , 18, 1621-1626	40
2102	Mechanisms of graphene growth by chemical vapour deposition on transition metals. <i>Carbon</i> , 2014 , 70, 1-21	10.4 243
2101	Humidity-sensing properties of chemically reduced graphene oxide/polymer nanocomposite film sensor based on layer-by-layer nano self-assembly. 2014 , 197, 66-72	346
2100	One-step reduction and PEGylation of graphene oxide for photothermally controlled drug delivery. 2014 , 35, 4986-95	150
2099	Large-scale fabrication, 3D tomography, and lithium-ion battery application of porous silicon. 2014 , 14, 261-8	189
2098	Vertical junction photodetectors based on reduced graphene oxide/silicon Schottky diodes. 2014 , 6, 4909-14	88

2097	Interactions between graphene sheets and ionic molecules used for the shear-assisted exfoliation of natural graphite. <i>Carbon</i> , 2014 , 68, 195-209	10.4	23
2096	Density functional theory study of interactions between glycine and TiO ₂ /graphene nanocomposites. 2014 , 599, 86-91		21
2095	Liquid-phase exfoliation of expanded graphites into graphene nanoplatelets using amphiphilic organic molecules. 2014 , 417, 379-84		26
2094	X-ray absorption spectroscopy study on the thermal and hydrazine reduction of graphene oxide. 2014 , 196, 89-93		18
2093	MetallInsulatorSemiconductor Photodetectors With Different Coverage Ratios of Graphene Oxide. 2014 , 20, 25-29		5
2092	Graphene/fly ash geopolymeric composites as self-sensing structural materials. 2014 , 23, 065006		66
2091	Quantitative evaluation of electrophoretic deposition kinetics of graphene oxide. <i>Carbon</i> , 2014 , 67, 656-664	10.4	50
2090	A graphene-pure-sulfur sandwich structure for ultrafast, long-life lithium-sulfur batteries. 2014 , 26, 625-31, 664		842
2089	Graphene oxide-embedded porous carbon nanofiber webs by electrospinning for capacitive deionization. 2014 , 444, 153-158		59
2088	Sulfonated Poly(Ether Ether Ketone)/Graphene composite membrane for vanadium redox flow battery. 2014 , 132, 200-207		97
2087	Synthesis of carbon nanowalls on macroporous nickel foam by atmospheric glow discharge chemical vapour deposition. 2014 , 251, 933-936		1
2086	Preparation and properties of reduced graphene oxide/fused silica composites. <i>Carbon</i> , 2014 , 77, 66-75	10.4	40
2085	Chemical Functionalization of Graphene for Biomedical Applications. 2014 , 95-138		8
2084	Graphene materials and their use in dye-sensitized solar cells. 2014 , 114, 6323-48		331
2083	25th anniversary article: carbon nanotube- and graphene-based transparent conductive films for optoelectronic devices. 2014 , 26, 1958-91		310
2082	Self-assembly of graphene oxide at interfaces. 2014 , 26, 5586-612		273
2081	High-Current-Density Edge Electron Emission and Electron Beam Shaping for Vacuum Electronics Using Flexible Graphene Paper. 2014 , 61, 1776-1780		3
2080	Highly active and stable hydrogen evolution electrocatalysts based on molybdenum compounds on carbon nanotube-graphene hybrid support. 2014 , 8, 5164-73		457

2079	GeOx/Reduced Graphene Oxide Composite as an Anode for Li-Ion Batteries: Enhanced Capacity via Reversible Utilization of Li ₂ O along with Improved Rate Performance. 2014 , 24, 1059-1066		135
2078	Programmable writing of graphene oxide/reduced graphene oxide fibers for sensible networks with in situ welded junctions. 2014 , 8, 4325-33		45
2077	Work-Function-Tunable Chlorinated Graphene Oxide as an Anode Interface Layer in High-Efficiency Polymer Solar Cells. 2014 , 4, 1400591		75
2076	Role of oxygen functionalities on the synthesis of photocatalytically active graphene/TiO ₂ composites. 2014 , 158-159, 329-340		99
2075	Au nanoparticles decorated polypyrrole/reduced graphene oxide hybrid sheets for ultrasensitive dopamine detection. 2014 , 193, 759-763		97
2074	Reduction of Graphene Oxide by Hydrogen Sulfide: A Promising Strategy for Pollutant Control and as an Electrode for Li-S Batteries. 2014 , 4, 1301565		131
2073	Free-standing graphene oxide thin films assembled by a pressurized ultrafiltration method for dehydration of ethanol. 2014 , 458, 199-208		167
2072	Ultrasensitive flow sensing of a single cell using graphene-based optical sensors. 2014 , 14, 3563-9		87
2071	Highly efficient synthesis of graphene/MnO ₂ hybrids and their application for ultrafast oxidative decomposition of methylene blue. <i>Carbon</i> , 2014 , 66, 485-492	10.4	166
2070	Magnetically induced anisotropic orientation of graphene oxide locked by in situ hydrogelation. 2014 , 8, 4640-9		85
2069	Mo-Compound/CNT-Graphene Composites as Efficient Catalytic Electrodes for Quantum-Dot-Sensitized Solar Cells. 2014 , 4, 1300775		79
2068	Photoreduction of Graphene Oxides: Methods, Properties, and Applications. 2014 , 2, 10-28		191
2067	Flexible, transparent, and conductive defrosting glass. 2014 , 556, 13-17		33
2066	Electrochemical determination of estradiol using a thin film containing reduced graphene oxide and dihexadecylphosphate. 2014 , 37, 14-9		47
2065	Gold nanoparticle decorated reduced graphene oxide sheets with high catalytic activity for Ullmann homocoupling. 2014 , 4, 5243		65
2064	Reaction mechanisms of graphene oxide chemical reduction by sulfur-containing compounds. <i>Carbon</i> , 2014 , 67, 146-155	10.4	25
2063	Hierarchically porous graphene sheets and graphitic carbon nitride intercalated composites for enhanced oxygen reduction reaction. 2014 , 2, 3209-3215		49
2062	One-pot hydrothermal synthesis of reduced graphene oxide/Ni(OH) ₂ films on nickel foam for high performance supercapacitors. 2014 , 115, 155-164		168

2061	Controlling and Formation Mechanism of Oxygen-Containing Groups on Graphite Oxide. 2014 , 53, 253-258	46
2060	Magnetic and mechanical properties of polyvinyl alcohol (PVA) nanocomposites with hybrid nanofillers [Graphene oxide tethered with magnetic Fe ₃ O ₄ nanoparticles]. 2014 , 237, 462-468	55
2059	TiO ₂ /graphene nanocomposites from the direct reduction of graphene oxide by metal evaporation. <i>Carbon</i> , 2014 , 68, 319-329	10.4 28
2058	Graphene Nanoribbons Derived from the Unzipping of Carbon Nanotubes: Controlled Synthesis and Superior Lithium Storage Performance. 2014 , 118, 881-890	73
2057	Graphene oxide derivatives as hole- and electron-extraction layers for high-performance polymer solar cells. 2014 , 7, 1297-1306	163
2056	Graphene oxide/Bi ₂ O ₃ composites for visible-light photocatalysis, chemical catalysis, and solar energy conversion. 2014 , 7, 854-65	38
2055	Structure, morphology and electronic properties of L-phenylalanine edge-functionalized graphite platelets through Friedel-Crafts acylation reaction. 2014 , 4, 60052-60057	11
2054	Facile preparation of 2D sandwich-like CdS nanoparticles/nitrogen-doped reduced graphene oxide hybrid nanosheets with enhanced photoelectrochemical properties. 2014 , 2, 19815-19821	41
2053	Tuning the grade of graphene: Gamma ray irradiation of free-standing graphene oxide films in gaseous phase. 2014 , 322, 126-135	37
2052	Correlated Optical and Magnetic Properties in Photoreduced Graphene Oxide. 2014 , 118, 28258-28265	19
2051	Chemie an Graphen und Graphenoxid [Eine Herausforderung für Synthesechemiker]. 2014 , 126, 7852-7872	61
2050	Mid-infrared response of reduced graphene oxide and its high-temperature coefficient of resistance. 2014 , 4, 107131	21
2049	Additive-free synthesis of In ₂ O ₃ tubes embedded into graphene sheets and their enhanced NO ₂ sensing performance at room temperature. 2014 , 6, 21093-100	100
2048	EDTA-induced self-assembly of 3D graphene and its superior adsorption ability for paraquat using a teabag. 2014 , 6, 19766-73	48
2047	Electro-optical Characteristics of Aqueous Graphene Oxide Dispersion Depending on Ion Concentration. 2014 , 118, 26304-26312	41
2046	Dependence of the Solubility of oxidized carbon nanomaterials on the acidity of aqueous solutions. 2014 , 88, 1559-1563	3
2045	Oxidation of a Graphite Surface: The Role of Water. 2014 , 118, 27594-27598	15
2044	Fabrication of graphene quantum dot-decorated graphene sheets via chemical surface modification. 2014 , 50, 15616-8	38

2043	Facile preparation of Pd nanoparticles supported on single-layer graphene oxide and application for the Suzuki-Miyaura cross-coupling reaction. 2014 , 6, 6501-5	90
2042	The effect of the reduction extent on the performance of graphene/poly(vinyl alcohol) composites. 2014 , 2, 14173	28
2041	Fine tuning of the sheet distance of graphene oxide that affects the activity and substrate selectivity of a Pd/graphene oxide catalyst in the Heck reaction. 2014 , 4, 59835-59838	10
2040	Post-heating effects on the physical and electrochemical capacitive properties of reduced graphene oxide paper. 2014 , 2, 5077	38
2039	Porous conducting polymer and reduced graphene oxide nanocomposites for room temperature gas detection. 2014 , 4, 42546-42553	40
2038	A study of the superior electrochemical performance of 3 nm SnO ₂ nanoparticles supported by graphene. 2014 , 2, 5688-5695	85
2037	Preparation of highly conductive reduced graphite oxide/poly(styrene-co-butyl acrylate) composites via miniemulsion polymerization. 2014 , 55, 5088-5094	14
2036	An efficient way to reduce graphene oxide by water elimination using phosphoric acid. 2014 , 4, 29173	12
2035	Tuning the nonlinear optical absorption of reduced graphene oxide by chemical reduction. 2014 , 22, 19375-85	58
2034	Graphene derivatives: graphane, fluorographene, graphene oxide, graphyne and graphdiyne. 2014 , 2, 13193-13206	176
2033	Laser induced self-propagating reduction and exfoliation of graphite oxide as an electrode material for supercapacitors. 2014 , 141, 271-278	17
2032	Core-shell SiO ₂ @RGO hybrids for epoxy composites with low percolation threshold and enhanced thermo-mechanical properties. 2014 , 2, 18246-18255	103
2031	A highly stable and active Pd catalyst on monolithic cordierite with graphene coating assisted by PDDA. 2014 , 4, 9480	16
2030	Towards electrochemical purification of chemically reduced graphene oxide from redox accessible impurities. 2014 , 16, 7058-65	13
2029	Cobalt carbonate/ and cobalt oxide/graphene aerogel composite anodes for high performance Li-ion batteries. 2014 , 6, 18971-80	118
2028	Characterization of graphene-based inkjet printed samples on flexible substrate for wireless sensing applications. 2014 ,	6
2027	Electrochemically reduced graphene oxide with porous structure as a binder-free electrode for high-rate supercapacitors. 2014 , 4, 13673	40
2026	Grafting of a chiral Mn(III) complex on graphene oxide nanosheets and its catalytic activity for alkene epoxidation. 2014 , 4, 26087	42

2025	Effective low temperature reduction of graphene oxide with vanadium(III). 2014 , 2, 3602	7
2024	Near room temperature reduction of graphene oxide Langmuir-Blodgett monolayers by hydrogen plasma. 2014 , 16, 11708-18	23
2023	From graphite oxide to nitrogen and sulfur co-doped few-layered graphene by a green reduction route via Chinese medicinal herbs. 2014 , 4, 17902	23
2022	Enzymatic Degradation of Oxidized and Reduced Graphene Nanoribbons by Lignin Peroxidase. 2014 , 2, 6354-6362	73
2021	Synthesis, Characterization, Phantom Imaging, and Cytotoxicity of A Novel Graphene-Based Multimodal Magnetic Resonance Imaging - X-Ray Computed Tomography Contrast Agent. 2014 , 2, 3519-3530	84
2020	Thermally-driven structural changes of graphene oxide multilayer films deposited on glass substrate. 2014 , 75, 461-467	11
2019	Two kinds of composite films: Graphene oxide/carbon nanotube film and graphene oxide/activated carbon film via a self-assemble preparation process. 2014 , 37, 91-95	2
2018	Silicene on substrates: interaction mechanism and growth behavior. 2014 , 491, 012007	16
2017	Enhanced water permeation through sodium alginate membranes by incorporating graphene oxides. 2014 , 469, 272-283	180
2016	One-step synthesis of graphene/polyaniline hybrids by in situ intercalation polymerization and their electromagnetic properties. 2014 , 6, 8140-8	188
2015	Fundamental electrochemistry of three-dimensional graphene aerogels. 2014 , 4, 30689	17
2014	Enhancing lithium-sulphur battery performance by strongly binding the discharge products on amino-functionalized reduced graphene oxide. 2014 , 5, 5002	792
2013	Tuning the interface of graphene platelets/epoxy composites by the covalent grafting of polybenzimidazole. 2014 , 55, 4990-5000	72
2012	Thin partially reduced oxide-graphene films: structural, optical, and electrical properties. 2014 , 9, 363-368	23
2011	Tuned n/n or n/p heterojunctions for reduced graphene oxide and titanium nanosheets and their electrochemical properties. 2014 , 148, 803-809	9
2010	Improved super-capacitive performance of carbon foam supported CeOx nanoflowers by selective doping and UV irradiation. 2014 , 4, 35067-35071	4
2009	Macroscopic Graphene Structures: Preparation, Properties, and Applications. 2014 , 291-350	3
2008	Mechanistic insights into the reduction of graphene oxide addressing its surfaces. 2014 , 16, 19832-5	22

2007	Tunable thermal conductivities of graphene oxide by functionalization and tensile loading. <i>Carbon</i> , 2014 , 80, 235-245	10.4	45
2006	Patterning of Graphene via an In Situ Electrochemical Method using Ni Opal or Inverse-Opal Structures. 2014 , 118, 22785-22791		2
2005	In situ polymerization deposition of porous conducting polymer on reduced graphene oxide for gas sensor. 2014 , 6, 13807-14		116
2004	Influence of Stacking Morphology and Edge Nitrogen Doping on the Dielectric Performance of Graphene Polymer Nanocomposites. 2014 , 26, 2856-2861		49
2003	Bio-derived calcite as a sustainable source for graphene as high-performance electrode material for energy storage. 2014 , 2, 15734-15739		14
2002	Graphene in the aquatic environment: adsorption, dispersion, toxicity and transformation. 2014 , 48, 9995-10004	10.4	66
2001	Graphene oxide for cellulose hydrolysis: how it works as a highly active catalyst?. 2014 , 50, 3439-42		88
2000	Superior Performance Asymmetric Supercapacitors Based on Flake-like Co/Al Hydrotalcite and Graphene. 2014 , 143, 331-339		24
1999	Driving forces for the self-assembly of graphene oxide on organic monolayers. 2014 , 6, 11344-50		11
1998	Theoretical simulation of reduction mechanism of graphene oxide in sodium hydroxide solution. 2014 , 16, 12858-64		32
1997	Biological reduction of graphene oxide using plant leaf extracts. 2014 , 30, 463-9		60
1996	Structure and supercapacitor performance of graphene materials obtained from brominated and fluorinated graphites. <i>Carbon</i> , 2014 , 78, 137-146	10.4	57
1995	Apparent Roughness as Indicator of (Local) Deoxygenation of Graphene Oxide. 2014 , 26, 4849-4855		9
1994	Tribology study of lanthanum-treated graphene oxide thin film on silicon substrate. 2014 , 4, 15937-15944		8
1993	Graphene quantum-dot-supported platinum nanoparticles: defect-mediated electrocatalytic activity in oxygen reduction. 2014 , 6, 14050-60		67
1992	Surface engineering of graphene-based nanomaterials for biomedical applications. 2014 , 25, 1609-19		102
1991	High-performance photoresponse of carbon-doped ZnO/reduced graphene oxide hybrid nanocomposites under UV and visible illumination. 2014 , 4, 5136		21
1990	Development of an Electrochemical Sensor Based on Reduced Graphene Oxide Modified Screen-Printed Carbon Electrode for the Determination of Buprenorphine. 2014 , 26, 2474-2483		17

1989	Tunable Graphene Oxide Proton/Electron Mixed Conductor that Functions at Room Temperature. 2014 , 26, 5598-5604	61
1988	Chemical control of graphene architecture: tailoring shape and properties. 2014 , 8, 9733-54	89
1987	Flow-Induced Enhancement of in Situ Thermal Reduction of Graphene Oxide during the Melt-Processing of Polymer Nanocomposites. 2014 , 118, 25718-25724	10
1986	Graphene-wrapped ZnO hollow spheres with enhanced electromagnetic wave absorption properties. 2014 , 2, 16403-16409	447
1985	Highly sensitive large-area multi-layered graphene-based flexible ammonia sensor. 2014 , 205, 67-73	85
1984	All-solid-state flexible supercapacitors based on highly dispersed polypyrrole nanowire and reduced graphene oxide composites. 2014 , 6, 17937-43	68
1983	Facile synthesis of soluble functional graphene by reduction of graphene oxide via acetylacetone and its adsorption of heavy metal ions. 2014 , 25, 395602	24
1982	Facile preparation of reduced graphene oxide-based gas barrier films for organic photovoltaic devices. 2014 , 7, 3403-3411	54
1981	Large-area, conductive and flexible reduced graphene oxide (RGO) membrane fabricated by electrophoretic deposition (EPD). 2014 , 6, 1747-53	77
1980	One-pot hydrothermal synthesis of rod-like FeOOH/reduced graphene oxide composites for supercapacitor. 2014 , 25, 3364-3374	23
1979	A highly durable fuel cell electrocatalyst based on polybenzimidazole-coated stacked graphene. 2014 , 2, 3888	40
1978	Fast synthesis of AgPd@reduced graphene oxide bimetallic nanoparticles and their applications as carbon-carbon coupling catalysts. 2014 , 4, 30914	33
1977	Ion-Transfer Voltammetry at Carbon Nanofibre Membranes Produced by 500 °C Graphitisation/Graphenisation of Electrospun Poly-Acrylonitrile. 2014 , 26, 69-75	2
1976	Pure thiophene-sulfur doped reduced graphene oxide: synthesis, structure, and electrical properties. 2014 , 6, 7281-7	105
1975	Revealing the adsorption mechanisms of nitroxides on ultrapure, metallicity-sorted carbon nanotubes. 2014 , 8, 1375-83	27
1974	Tocopherol-induced radical scavenging activity in carbon nanotubes for thermo-oxidation resistant ultra-high molecular weight polyethylene-based nanocomposites. <i>Carbon</i> , 2014 , 74, 14-21	10.4 39
1973	Optical properties of graphite oxide and reduced graphite oxide. 2014 , 47, 265306	8
1972	Structural Evolution during the Oxidation Process of Graphite. 2014 , 31, 078102	5

1971	CO ₂ -activated, hierarchical trimodal porous graphene frameworks for ultrahigh and ultrafast capacitive behavior. 2014 , 6, 5296-302	61
1970	Nano-Design of 3D Electrodes for Highly Efficient Quantum Dot-Sensitized Solar Energy Conversion. 2014 , 161, H809-H815	4
1969	Graphene-wrapped sulfur-based composite cathodes: ball-milling synthesis and high discharge capacity. 2014 , 4, 48438-48442	3
1968	Recent advances in porous graphene materials for supercapacitor applications. 2014 , 4, 45862-45884	179
1967	Holey reduced graphene oxide nanosheets for high performance room temperature gas sensing. 2014 , 2, 17415-17420	96
1966	Impermeable barrier films and protective coatings based on reduced graphene oxide. 2014 , 5, 4843	410
1965	Self-assembled three-dimensional hierarchical graphene/polypyrrole nanotube hybrid aerogel and its application for supercapacitors. 2014 , 6, 9671-9	199
1964	Assembling sulfur spheres on carbon fiber with graphene coated hybrid bulk electrodes for lithium sulfur batteries. 2014 , 4, 50964-50968	15
1963	Permanganate-Route-Prepared Electrochemically Reduced Graphene Oxides Exhibit Limited Anodic Potential Window. 2014 , 118, 23368-23375	3
1962	Highly efficient silver-assisted reduction of graphene oxide dispersions at room temperature: mechanism, and catalytic and electrochemical performance of the resulting hybrids. 2014 , 2, 7295-7305	25
1961	Electrical and humidity-sensing properties of reduced graphene oxide thin film fabricated by layer-by-layer with covalent anchoring on flexible substrate. 2014 , 200, 9-18	77
1960	Self assembled graphene layers on polyurethane foam as a highly pressure sensitive conducting composite. 2014 , 90, 160-165	82
1959	Large scale production of highly conductive reduced graphene oxide sheets by a solvent-free low temperature reduction. <i>Carbon</i> , 2014 , 69, 327-335	10.4 42
1958	Bio-reduction of graphene oxide using drained water from soaked mung beans (<i>Phaseolus aureus</i> L.) and its application as energy storage electrode material. 2014 , 186, 33-40	80
1957	Electrochemically controlling oxygen functional groups in graphene oxide for the optimization in the electro-catalytic oxidation of dihydroxybenzene isomers and L-methionine. 2014 , 717-718, 219-224	11
1956	Direct synthesis of RGO/Cu ₂ O composite films on Cu foil for supercapacitors. 2014 , 586, 745-753	93
1955	Photoreduction of graphene oxide with polyoxometalate clusters and its enhanced saturable absorption. 2014 , 427, 25-8	20
1954	A facile approach to prepare graphene via solvothermal reduction of graphite oxide. 2014 , 55, 48-52	25

1953	High energy density asymmetric pseudocapacitors fabricated by graphene/carbon nanotube/MnO ₂ plus carbon nanotubes nanocomposites electrode. 2014 , 259, 145-153	39
1952	Synthesis of MnO ₂ /graphene/carbon nanotube nanostructured ternary composite for supercapacitor electrodes with high rate capability. 2014 , 147, 141-146	35
1951	Rapid, facile, and eco-friendly reduction of graphene oxide by electron beam irradiation in an alcohol/water solution. 2014 , 126, 151-153	25
1950	Spectra investigation on surface characteristics of graphene oxide nanosheets treated with tartaric, malic and oxalic acids. 2014 , 118, 1020-4	18
1949	Chemistry with graphene and graphene oxide-challenges for synthetic chemists. 2014 , 53, 7720-38	605
1948	Eco-friendly and simple radiation-based preparation of graphene and its application to organic solar cells. 2014 , 47, 015105	10
1947	Surfactant-assisted synthesis of reduced graphene oxide/polyaniline composites by gamma irradiation for supercapacitors. 2014 , 49, 5667-5675	27
1946	Statistical Raman Microscopy and Atomic Force Microscopy on Heterogeneous Graphene Obtained after Reduction of Graphene Oxide. 2014 , 118, 7698-7704	85
1945	Direct voltammetry of colloidal graphene oxides. 2014 , 43, 87-90	15
1944	Slide fastener reduction of graphene-oxide edges by calcium: insight from ab initio molecular dynamics. 2014 , 15, 2707-11	2
1943	Nanomaterial-based biosensors for food toxin detection. 2014 , 174, 880-96	73
1942	Flexible free-standing graphene-like film electrode for supercapacitors by electrophoretic deposition and electrochemical reduction. 2014 , 24, 1425-1433	14
1941	Functional gels based on chemically modified graphenes. 2014 , 26, 3992-4012	248
1940	Localized reduction of graphene oxide by electrogenerated naphthalene radical anions and subsequent diazonium electrografting. 2014 , 136, 4833-6	25
1939	A powerful tool for graphene functionalization: Benzophenone mediated UV-grafting. <i>Carbon</i> , 2014 , 77, 226-235	10.4 36
1938	Electrochemical synthesis of poly(3,4-ethylenedioxythiophene) in aqueous dispersion of high porosity reduced graphene oxide. 2014 , 4, 25279-25286	56
1937	Graphene/semiconductor nanocomposites (GSNs) for heterogeneous photocatalytic decolorization of wastewaters contaminated with synthetic dyes: A review. 2014 , 160-161, 307-324	167
1936	One-pot Hydrothermal Synthesis of 3D Flower-like RGO/Co ₃ O ₄ /Ni(OH) ₂ Composite Film on Nickel Foam for High-performance Supercapacitors. 2014 , 135, 336-344	48

1935	Hydrogen-assisted pulsed KrF-laser irradiation for the in situ photoreduction of graphene oxide films. <i>Carbon</i> , 2014 , 77, 857-867	10.4	19
1934	A green approach for the reduction of graphene oxide nanosheets using non-aromatic amino acids. <i>Carbon</i> , 2014 , 76, 193-202	10.4	123
1933	Photothermally controlled gene delivery by reduced graphene oxide-polyethylenimine nanocomposite. 2014 , 10, 117-26		215
1932	Microwave-hydrothermal preparation of a graphene/hierarchy structure MnO ₂ composite for a supercapacitor. 2014 , 15, 27-33		16
1931	Highly NO ₂ sensitive caesium doped graphene oxide conductometric sensors. 2014 , 5, 1073-81		33
1930	Fabrication of flexible graphene paper and its electrochemical properties used in lithium ion batteries. 2014 , 66, 30301		3
1929	Synthesis of Graphene. 2014 , 34-77		1
1928	Three-dimensional self-assembled graphene oxide/enzyme in the presence of copper phosphate. 2015 , 1, 045101		6
1927	Highly crystalline graphene formation from graphene oxides by ultrahigh temperature process using solar furnace. 2015 , 1786, 31-36		1
1926	The piezoresistive performance investigation of multifunctional genuine nanocomposites thin films. 2015 ,		
1925	Correlating Chemical Structure and Charge Transport in Reduced Graphene Oxide for Transparent Conductor and Interconnect Applications. 2015 ,		3
1924	Surface Conductive Graphene-Wrapped Micromotors Exhibiting Enhanced Motion. 2015 , 11, 5023-7		27
1923	Graphene and Related Two-Dimensional Materials. 2015 , 1-23		3
1922	The Effect of Different Reduction Methods on Conductivity of Reduced-Graphene Oxide (r-GO). 2015 , 815, 216-220		4
1921	Ultrafine ferroferric oxide nanoparticles embedded into mesoporous carbon nanotubes for lithium ion batteries. 2015 , 5, 17553		32
1920	Synergistic Effect of Dual Electron-Cocatalysts for Enhanced Photocatalytic Activity: rGO as Electron-Transfer Mediator and Fe(III) as Oxygen-Reduction Active Site. 2015 , 5, 13083		40
1919	Advanced Composite Adsorbents: Chitosan versus Graphene. 2015 , 463-492		1
1918	Large and pristine films of reduced graphene oxide. 2015 , 5, 18799		10

1917	Conversion of 4-N,N-dimethylamino-4'-N'-methyl-stilbazolium tosylate (DAST) from a Simple Optical Material to a Versatile Optoelectronic Material. 2015 , 5, 12269	13
1916	High Throughput Graphene Oxide in Modified Hummers Method and Annealing Effect on Different Deposition Method. 2015 , 815, 141-147	2
1915	Writable electrochemical energy source based on graphene oxide. 2015 , 5, 15173	11
1914	Pt-functionalized reduced graphene oxide for excellent hydrogen sensing at room temperature. 2015 , 107, 153102	28
1913	Preparation of platinum-containing hydrogenation catalysts supported on thermally reduced graphite oxide. 2015 , 56, 818-825	6
1912	Antibody-Modified Reduced Graphene Oxide Films with Extreme Sensitivity to Circulating Tumor Cells. 2015 , 27, 6848-54	114
1911	Study on chemically modified graphene platforms for biosensor applications. 2015 ,	
1910	Recent Developments on Alternative Proton Exchange Membranes: Strategies for Systematic Performance Improvement. 2015 , 3, 675-691	65
1909	Kovalente Funktionalisierung von Graphen auf Substraten. 2015 , 127, 10882-10900	25
1908	Pt supported on Nanostructured NCNTs/RGO Composite Electrodes for Methanol Electrooxidation. 2015 , 2, 1396-1402	7
1907	Graphite oxide multilayers for device fabrication: Enzyme-based electrical sensing of glucose. 2015 , 212, 1335-1341	6
1906	Terahertz spectroscopy of a multilayers flake of graphene. 2015 , 647, 012040	1
1905	Microwave-assisted Synthesis, Characterization of Reduced Graphene Oxide, and Its Antibacterial Activity. 2015 , 36, 2034-2038	17
1904	Electrodeposition of reduced graphene oxide on a Pt electrode and its use as amperometric sensor in microchip electrophoresis. 2015 , 36, 1886-93	21
1903	Transformation of graphene oxide by ferrous iron: Environmental implications. 2015 , 34, 1975-82	32
1902	Mechano-Chemically Reduced MacroMesoporous Hierarchical Graphene for High-Performance Electric Double-Layer Capacitor Applications. 2015 , 1, 1500123	1
1901	The Covalent Functionalization of Graphene on Substrates. 2015 , 54, 10734-50	179
1900	Transport, magnetic and vibrational properties of chemically exfoliated few-layer graphene. 2015 , 252, 2438-2443	4

1899	Electrochemical Sensing of Ascorbic Acid on ZnO-decorated Reduced Graphene Oxide Electrode. 2015 , 06,	1
1898	Graphene [A Platform for Sensor and Biosensor Applications. 2015 ,	12
1897	Graphene: A Versatile Carbon-Based Material for Bone Tissue Engineering. 2015 , 2015, 804213	149
1896	Chemically converted graphene: scalable chemistries to enable processing and fabrication. 2015 , 7, e186-e186	57
1895	In situ fabrication and characterization of graphene/geopolymer composites. 2015 , 41, 11242-11250	48
1894	Graphenothermal reduction synthesis of [Bxfoliated graphene oxide/iron (II) oxide] composite for anode application in lithium ion batteries. 2015 , 293, 253-263	85
1893	Synthesis and characterization of RGO/zeolite composites for the removal of arsenic from contaminated water. 2015 , 5, 35352-35360	21
1892	Broad family of carbon nanoallotropes: classification, chemistry, and applications of fullerenes, carbon dots, nanotubes, graphene, nanodiamonds, and combined superstructures. 2015 , 115, 4744-822	1137
1891	Three-dimensional patterning of solid microstructures through laser reduction of colloidal graphene oxide in liquid-crystalline dispersions. 2015 , 6, 7157	47
1890	Vacuum-ultraviolet photoreduction of graphene oxide: Electrical conductivity of entirely reduced single sheets and reduced micro line patterns. 2015 , 106, 133105	23
1889	Few-layer graphene based sponge as a highly efficient, recyclable and selective sorbent for organic solvents and oils. 2015 , 5, 53741-53748	23
1888	Helical and Dendritic Unzipping of Carbon Nanotubes: A Route to Nitrogen-Doped Graphene Nanoribbons. 2015 , 9, 5833-45	54
1887	X-ray photoelectron spectroscopy of reduced graphene oxide prepared by a novel green method. 2015 , 119, 159-162	28
1886	A new green approach for the reduction of graphene oxide nanosheets using caffeine. 2015 , 38, 667-671	37
1885	Graphene Oxide. 2015 ,	61
1884	The Chemistry of Graphene Oxide. 2015 , 61-95	162
1883	Enhanced flame retardancy of polypropylene by melamine-modified graphene oxide. 2015 , 50, 5389-5401	49
1882	Reduced graphene oxide and polypyrrole/reduced graphene oxide composite coated stretchable fabric electrodes for supercapacitor application. 2015 , 172, 12-19	85

1881	Supercapacitors based on highly dispersed polypyrrole-reduced graphene oxide composite with a folded surface. 2015 , 120, 693-698	13
1880	Reduced Graphene Oxide Supported CoO/MnO ₂ Electrocatalysts from Layered Double Hydroxides for Oxygen Reduction Reaction. 2015 , 173, 575-580	44
1879	One-step preparation of nitrogen doped titanium oxide/Au/reduced graphene oxide composite thin films for photocatalytic applications. 2015 , 5, 49771-49779	18
1878	Microwave-induced combustion method for the determination of trace and ultratrace element impurities in graphite samples by ICP-OES and ICP-MS. 2015 , 123, 28-32	38
1877	Graphene oxide based solid acid as an efficient and reusable nano-catalyst for the green synthesis of diindolyl-oxindole derivatives in aqueous media. 2015 , 116, 249-259	8
1876	Graphene based metal and metal oxide nanocomposites: synthesis, properties and their applications. 2015 , 3, 18753-18808	446
1875	Improved Reduction of Graphene Oxide. 2015 , 2, 423-430	14
1874	A comparison of the charring and carbonisation of oxygen-rich precursors with the thermal reduction of graphene oxide. 2015 , 95, 4054-4077	13
1873	Charge transport mechanism of hydrazine hydrate reduced graphene oxide. 2015 , 9, 392-396	14
1872	Kinetics of hydrazine reduction of thin films of graphene oxide and the determination of activation energy by the measurement of electrical conductivity. 2015 , 5, 102567-102573	13
1871	Graphene oxide liquid crystals: synthesis, phase transition, rheological property, and applications in optoelectronics and display. 2015 , 10, 435	51
1870	Carbon nanostructures reduced from graphite oxide as electrode materials for supercapacitors. 2015 , 1, 1-9	4
1869	A manufacturing perspective on graphene dispersions. 2015 , 20, 367-382	249
1868	Tunable Order in Alginate/Graphene Biopolymer Nanocomposites. 2015 , 48, 8323-8330	17
1867	Tuning Electrical Conductivity of Inorganic Minerals with Carbon Nanomaterials. 2015 , 7, 26079-84	3
1866	Nanocomposites of nitrogen-doped graphene decorated with a palladium silver bimetallic alloy for use as a biosensor for methotrexate detection. 2015 , 5, 99555-99565	44
1865	Solvothermal synthesis and electrical properties of rGO/MxWO ₃ (M=Na, K) nanocomposites. 2015 , 30, A167-A171	3
1864	Ultrafast high-volumetric sodium storage of folded-graphene electrodes through surface-induced redox reactions. 2015 , 1, 112-118	69

1863	Fabrication and biocompatibility of reduced graphene oxide/poly(vinylidene fluoride) composite membranes. 2015 , 5, 99841-99847	13
1862	Graphene Quantum Dot Layers with Energy-Down-Shift Effect on Crystalline-Silicon Solar Cells. 2015 , 7, 19043-9	41
1861	Electron-stimulated reduction of graphite oxide. 2015 , 102, 443-447	2
1860	Study of Reduced Graphene Oxide for Trench Schottky Diode. 2015 , 99, 012031	4
1859	Enhancement of thermal, mechanical, and barrier properties of ethylene vinyl alcohol copolymer by incorporation of graphene nanosheets: effect of functionalization of graphene oxide. 2015 , 27, 694-704	23
1858	Nitrogen-doped graphene-based materials for advanced oxidation processes. 2015 , 249, 192-198	57
1857	Excellent electrochemical performance of homogeneous polypyrrole/graphene composites as electrode material for supercapacitors. 2015 , 26, 485-492	10
1856	The determination of surface charge on nitrogen-containing reduced graphene oxides and its application to adsorb molybdate. 2015 , 152, 77-84	9
1855	Sprayable, paintable layer-by-layer polyaniline nanofiber/graphene electrodes. 2015 , 5, 14994-15001	27
1854	Effect of functional groups on dielectric, optical gas sensing properties of graphene oxide and reduced graphene oxide at room temperature. 2015 , 5, 10816-10825	74
1853	An advanced electrocatalyst with exceptional electrocatalytic activity via ultrafine Pt-based trimetallic nanoparticles on pristine graphene. <i>Carbon</i> , 2015 , 87, 116-127	10.4 42
1852	3,4-Ethylenedioxythiophene functionalized graphene with palladium nanoparticles for enhanced electrocatalytic oxygen reduction reaction. 2015 , 281, 211-218	67
1851	Photochemical transformation of graphene oxide in sunlight. 2015 , 49, 3435-43	158
1850	Fluidized-bed CVD of unstacked double-layer templated graphene and its application in supercapacitors. 2015 , 61, 747-755	40
1849	Flexible, Free-Standing TiO ₂ /Graphene/Polypyrrole Composite Films as Electrodes for Supercapacitors. 2015 , 119, 3903-3910	112
1848	One-step hydrothermal synthesis of 3D petal-like Co ₉ S ₈ /RGO/Ni ₃ S ₂ composite on nickel foam for high-performance supercapacitors. 2015 , 7, 4861-8	193
1847	Mechanical properties of nickel-graphene composites synthesized by electrochemical deposition. 2015 , 26, 065706	91
1846	Graphene foam developed with a novel two-step technique for low and high strains and pressure-sensing applications. 2015 , 11, 2380-5	167

1845	Transparent conductive reduced graphene oxide thin films produced by spray coating. 2015 , 58, 1-5	20
1844	Self-Assembled 3D Graphene Monolith from Solution. 2015 , 6, 658-68	131
1843	How to get between the sheets: a review of recent works on the electrochemical exfoliation of graphene materials from bulk graphite. 2015 , 7, 6944-56	254
1842	Preparation of graphene/nickel-iron hexacyanoferrate coordination polymer nanocomposite for electrochemical energy storage. 2015 , 160, 337-346	57
1841	Synthesis, characterization and in vitro studies of polysulfone/graphene oxide composite membranes. 2015 , 72, 108-115	62
1840	Study of benzophenone grafting on reduced graphene oxide by unconventional techniques. 2015 , 39, 2966-2972	7
1839	Printing in three dimensions with graphene. 2015 , 27, 1688-93	217
1838	Polymer/Pristine Graphene Based Composites: From Emulsions to Strong, Electrically Conducting Foams. 2015 , 48, 687-693	43
1837	Graphene Derivatives in Photocatalysis. 2015 , 249-276	0
1836	Gas Adsorption and Separation in Realistic and Idealized Frameworks of Organic Pillared Graphene: A Comparative Study. 2015 , 119, 1980-1987	25
1835	Tuning sulfur doping in graphene for highly sensitive dopamine biosensors. <i>Carbon</i> , 2015 , 86, 197-206	10.4 68
1834	Graphene modifications in polylactic acid nanocomposites: a review. 2015 , 72, 931-961	63
1833	One-step green synthesis of a ruthenium/graphene composite as a highly efficient catalyst. 2015 , 5, 7679-7686	21
1832	Synthesis and Electrochemical Biosensing Properties of Hierarchically Porous Nitrogen-Doped Graphene Microspheres. 2015 , 2, 348-353	14
1831	Fabrication of flexible reduced graphene oxide//TiO ₂ freestanding films for supercapacitor application. 2015 , 5, 9904-9911	73
1830	Reduced graphene oxide for Li-ion batteries: The effect of oxidation time and reduction conditions for graphene oxide. <i>Carbon</i> , 2015 , 85, 233-244	10.4 66
1829	Iron metal induced deoxygenation of graphite oxide nanosheets-insights on the capacitive properties of binder-free electrodes. 2015 , 5, 23367-23373	7
1828	A general strategy for the synthesis of reduced graphene oxide-based composites. 2015 , 41, 7661-7668	3

1827	A novel platform sensing based on combination of electromembrane-assisted solid phase microextraction with linear sweep voltammetry for the determination of tramadol. 2015 , 747, 12-19	27
1826	Design, synthesis, and characterization of graphene-nanoparticle hybrid materials for bioapplications. 2015 , 115, 2483-531	514
1825	Elastomeric composites based on carbon nanomaterials. 2015 , 26, 112001	95
1824	Large-scale plasma patterning of transparent graphene electrode on flexible substrates. 2015 , 31, 2914-21	13
1823	Diffused sunlight driven highly synergistic pathway for complete mineralization of organic contaminants using reduced graphene oxide supported photocatalyst. 2015 , 291, 83-92	107
1822	Graphene oxide overprints for flexible and transparent electronics. 2015 , 106, 041901	35
1821	New alternatives to graphite for producing graphene materials. <i>Carbon</i> , 2015 , 93, 812-818	10.4 28
1820	Graphene nanoribbons inducing cube-shaped Ag nanoparticle assemblies. <i>Carbon</i> , 2015 , 93, 800-811	10.4 15
1819	A sensitive, selective and rapid determination of lead(II) ions in real-life samples using an electrochemically reduced graphene oxide-graphite reinforced carbon electrode. 2015 , 144, 969-76	23
1818	A vertical-oriented WS ₂ nanosheet sensitized by graphene: an advanced electrocatalyst for hydrogen evolution reaction. 2015 , 7, 14760-5	78
1817	Facile access to versatile hydrogels via interface-directed frontal polymerization derived from the magnetocaloric effect. 2015 , 3, 17351-17358	31
1816	Preparation of Ni ₃ P/C composite coatings and its mechanical properties. 2015 , 272, 25-32	50
1815	Reduction of graphene oxide in Li-ion batteries. 2015 , 3, 18360-18364	26
1814	Nanoencapsulated Core and Shell Electrospun Fibers of Resorcinol Formaldehyde. 2015 , 54, 7614-7622	14
1813	Ir nanoparticles-anchored reduced graphene oxide as a catalyst for oxygen electrode in LiO ₂ cells. 2015 , 39, 7066-7075	15
1812	Density controlled oil uptake and beyond: from carbon nanotubes to graphene nanoribbon aerogels. 2015 , 3, 20547-20553	58
1811	Nanoporous spongy graphene: Potential applications for hydrogen adsorption and selective gas separation. 2015 , 596, 242-249	17
1810	In situ synthesis of mesoporous manganese oxide/sulfur-doped graphitized carbon as a bifunctional catalyst for oxygen evolution/reduction reactions. <i>Carbon</i> , 2015 , 94, 1028-1036	10.4 62

1809	Highly efficient benzylamine functionalized graphene supported palladium for electrocatalytic hydrazine determination. 2015 , 221, 1256-1263	31
1808	Facile thermal annealing of graphite oxide in air for graphene with a higher C/O ratio. 2015 , 5, 69854-69860	21
1807	Magnetic Centres in Functionalized Graphene. 2015 , 127, 540-542	24
1806	A simple and economical method using graphene oxide for the fabrication of water/oil separation papers. 2015 , 5, 57860-57864	3
1805	L-Cysteine tailored porous graphene aerogel for enhanced power generation in microbial fuel cells. 2015 , 5, 58921-58927	50
1804	Graphene for Transparent Conductors. 2015 ,	29
1803	Graphene/MxWO ₃ (M = Na, K) nanohybrids with excellent electrical properties. <i>Carbon</i> , 2015 , 94, 309-316.4	14
1802	The role of water in resistive switching in graphene oxide. 2015 , 106, 263104	19
1801	Nanoplasmonics, Nano-Optics, Nanocomposites, and Surface Studies. 2015 ,	2
1800	Superstructured Assembly of Nanocarbons: Fullerenes, Nanotubes, and Graphene. 2015 , 115, 7046-117	381
1799	Ultrafast synthesis of MoS ₂ or WS ₂ -reduced graphene oxide composites via hybrid microwave annealing for anode materials of lithium ion batteries. 2015 , 295, 228-234	66
1798	Long-life Li/polysulphide batteries with high sulphur loading enabled by lightweight three-dimensional nitrogen/sulphur-codoped graphene sponge. 2015 , 6, 7760	802
1797	Vertically oriented Ni ₃ S ₂ /RGO/Ni ₃ S ₂ nanosheets on Ni foam for superior supercapacitors. 2015 , 5, 63528-63536	35
1796	Rational design of graphene oxide and its hollow CoO composite for superior oxygen reduction reaction. 2015 , 58, 534-542	29
1795	An optimized mild reduction route towards excellent cobalt-graphene catalysts for water oxidation. 2015 , 5, 64858-64864	2
1794	Reduced Graphene Oxide: Is it a promising catalyst for the electrochemistry of [UO ₂ (CO ₃) ₃] ⁴⁻ [UO ₂ (CO ₃) ₃] ⁵⁻ . 2015 , 174, 1002-1008	13
1793	Efficient Direct Reduction of Graphene Oxide by Silicon Substrate. 2015 , 5, 12306	30
1792	Modification of graphene oxide for applying as mid-infrared photodetector. 2015 , 120, 637-643	15

1791	Morphology-tunable ultrafine metal oxide nanostructures uniformly grown on graphene and their applications in the photo-Fenton system. 2015 , 7, 14254-63		58
1790	Green Approach for the Effective Reduction of Graphene Oxide Using <i>Salvadora persica</i> L. Root (Miswak) Extract. 2015 , 10, 987		105
1789	Shrinkage induced stretchable micro-wrinkled reduced graphene oxide composite with recoverable conductivity. <i>Carbon</i> , 2015 , 93, 878-886	10.4	38
1788	Alternative methods and nature-based reagents for the reduction of graphene oxide: A review. <i>Carbon</i> , 2015 , 94, 224-242	10.4	161
1787	A highly conductive porous graphene electrode prepared via in situ reduction of graphene oxide using Cu nanoparticles for the fabrication of high performance supercapacitors. 2015 , 5, 54275-54282		43
1786	Hydrogen and fluorine co-decorated silicene: A first principles study of piezoelectric properties. 2015 , 117, 224304		25
1785	A facile preparation route for highly conductive borate cross-linked reduced graphene oxide paper. 2015 , 39, 6907-6913		16
1784	Nanoscale reduction of graphene oxide thin films and its characterization. 2015 , 26, 285301		24
1783	Flexible humidity sensor based on Au nanoparticles/graphene oxide/thiolated silica sol-gel film. 2015 , 216, 467-475		44
1782	A simple method for the reduction of graphene oxide by sodium borohydride with CaCl ₂ as a catalyst. 2015 , 30, 41-47		76
1781	High-Density Lithium-Ion Energy Storage Utilizing the Surface Redox Reactions in Folded Graphene Films. 2015 , 27, 3291-3298		64
1780	Reduced graphene oxide directed self-assembly of phospholipid monolayers in liquid and gel phases. 2015 , 1848, 1203-11		24
1779	Observation of different charge transport regimes and large magnetoresistance in graphene oxide layers. <i>Carbon</i> , 2015 , 89, 188-196	10.4	35
1778	Facile Synthesis of Cu ₂ O/RGO/Ni(OH) ₂ Nanocomposite and its Double Synergistic Effect on Supercapacitor Performance. 2015 , 165, 314-322		52
1777	Preparation and characterization of LbL films based on graphene oxide nanoparticles interacting with 3-n-propylpyridinium silsesquioxane chloride. 2015 , 275, 2-8		6
1776	Highly dispersed reduced graphene oxide and its hybrid complexes as effective additives for improving thermophysical property of heat transfer fluid. 2015 , 87, 284-294		25
1775	Electroanalytical method for the determination of 5-fluorouracil using a reduced graphene oxide/chitosan modified sensor. 2015 , 5, 34292-34301		21
1774	Sorption of radionuclides from aqueous systems onto graphene oxide-based materials: a review. 2015 , 2, 593-612		137

1773	Reduced graphene oxide conjugate thymine as a new probe for ultrasensitive and selective fluorometric determination of mercury(II) ions. 2015 , 182, 1609-1617	45
1772	Effect of different reduction methods on electrochemical cycling stability of reduced graphene oxide in supercapacitors. 2015 , 45, 57-65	4
1771	Simultaneous synthesis of diverse graphene via electrochemical reduction of graphene oxide. 2015 , 45, 453-462	13
1770	Porous conducting polymer and reduced graphene oxide: preparation, characterization and electrochemical performance. 2015 , 26, 1668-1677	12
1769	Co3O4-reduced graphene oxide nanocomposite synthesized by microwave-assisted hydrothermal process for Li-ion batteries. 2015 , 11, 282-287	17
1768	Graphene beads fabricated by an emulsion process for supercapacitor electrode materials. 2015 , 153, 47-50	4
1767	Desired crystal oriented LiFePO4 nanoplatelets in situ anchored on a graphene cross-linked conductive network for fast lithium storage. 2015 , 7, 8819-28	92
1766	High performance alumina based graphene nanocomposites with novel electrical and dielectric properties. 2015 , 5, 33607-33614	25
1765	Recent Advances in Nanocomposite Materials of Graphene Derivatives with Polysaccharides. 2015 , 8, 652-683	67
1764	Interface Reduction Synthesis of H2V3O8 Nanobelts@Graphene for High-Rate Li-Ion Batteries. 2015 , 119, 11391-11399	24
1763	Enhanced photocatalytic activity of TiO2 by reduced graphene oxide in mineralization of Rhodamine B dye. 2015 , 30, 33-43	59
1762	Efficient low-temperature transparent electrocatalytic layers based on graphene oxide nanosheets for dye-sensitized solar cells. 2015 , 7, 10863-71	16
1761	Sodium-Ion Intercalated Transparent Conductors with Printed Reduced Graphene Oxide Networks. 2015 , 15, 3763-9	41
1760	One-pot in situ photochemical synthesis of graphene oxide/gold nanorod nanocomposites for surface-enhanced Raman spectroscopy. 2015 , 5, 46552-46557	14
1759	Controlling the shell formation in hydrothermally reduced graphene hydrogel. 2015 , 31, 5545-9	19
1758	Enhanced photovoltaic performance of inverted hybrid bulk-heterojunction solar cells using TiO2/reduced graphene oxide films as electron transport layers. 2015 , 5, 057408	51
1757	Applications of graphene and its derivatives as an adsorbent for heavy metal and dye removal: a systematic and comprehensive overview. 2015 , 5, 50392-50420	204
1756	Positively-charged reduced graphene oxide as an adhesion promoter for preparing a highly-stable silver nanowire film. 2015 , 7, 6798-804	49

1755	Environmental applications of graphene-based nanomaterials. 2015 , 44, 5861-96	1022
1754	A robust and conductive metal-impregnated graphene oxide membrane selectively separating organic vapors. 2015 , 51, 2671-4	36
1753	Preliminary comparison of different reduction methods of graphene oxide. 2015 , 38, 7-12	34
1752	Plasma treated graphene oxide films: structural and electrical studies. 2015 , 26, 4810-4815	12
1751	Sea-Urchin-Inspired 3D Crumpled Graphene Balls Using Simultaneous Etching and Reduction Process for High-Density Capacitive Energy Storage. 2015 , 25, 3606-3614	44
1750	Role of oxygen functional groups in graphene oxide for reversible room-temperature NO ₂ sensing. <i>Carbon</i> , 2015 , 91, 178-187	10.4 138
1749	Achieving extremely concentrated aqueous dispersions of graphene flakes and catalytically efficient graphene-metal nanoparticle hybrids with flavin mononucleotide as a high-performance stabilizer. 2015 , 7, 10293-307	85
1748	Environmentally benign and facile reduction of graphene oxide by flash light irradiation. 2015 , 26, 205601	28
1747	Sn-Based Nanoparticles Encapsulated in a Porous 3D Graphene Network: Advanced Anodes for High-Rate and Long Life Li-Ion Batteries. 2015 , 25, 3488-3496	142
1746	Bulk synthesis of highly conducting graphene oxide with long range ordering. 2015 , 5, 35893-35898	35
1745	Reduced graphene oxide modified with hierarchical flower-like In(OH) ₃ for NO ₂ room-temperature sensing. 2015 , 214, 36-42	30
1744	A critical review on in situ reduction of graphene oxide during preparation of conducting polymeric nanocomposites. 2015 , 5, 32078-32087	36
1743	Graphene based nanomaterials as chemical sensors for hydrogen peroxide [A comparison study of their intrinsic peroxidase catalytic behavior. 2015 , 213, 474-483	77
1742	Electrochemical characterization of electrochemically reduced graphene coatings on platinum. Electrochemical study of dye adsorption. 2015 , 166, 54-63	20
1741	Quenching of the electrochemiluminescence of RU-complex tagged shared-stem hairpin probes by graphene oxide and its application to quantitative turn-on detection of DNA. 2015 , 70, 441-6	21
1740	Non-monotonous dependence of the electrical conductivity and chemical stability of a graphene freestanding film on the degree of reduction. 2015 , 5, 19259-19263	5
1739	From industrially weavable and knittable highly conductive yarns to large wearable energy storage textiles. 2015 , 9, 4766-75	359
1738	Experimental investigation on the use of reduced graphene oxide and its hybrid complexes in improving closed conduit turbulent forced convective heat transfer. 2015 , 66, 290-303	37

1737	Hydrothermal synthesis of 3D Ni Co1B2 particles/graphene composite hydrogels for high performance supercapacitors. <i>Carbon</i> , 2015 , 90, 44-52	10.4	60
1736	Highly efficient photocatalytic degradation and mineralization of 4-nitrophenol by graphene decorated ZnO. 2015 , 22, 797-806		25
1735	Graphene for Flexible Lithium-Ion Batteries: Development and Prospects. 2015 , 119-177		2
1734	Self-assembled graphene monoliths: properties, structures and their pH-dependent self-assembly behavior. 2015 , 30, 30-40		15
1733	Single step radiolytic synthesis of iridium nanoparticles onto graphene oxide. 2015 , 357, 2087-2093		21
1732	Nickle nanoparticles highly dispersed on reduced graphene oxide for ammonia decomposition to hydrogen. 2015 , 32, 373-379		28
1731	Super proton/electron mixed conduction in graphene oxide hybrids by intercalating sulfate ions. 2015 , 3, 20892-20895		26
1730	Multiphoton fabrication of freeform polymer microstructures containing graphene oxide and reduced graphene oxide nanosheets. 2015 , 5, 218		7
1729	Microfluidic generation of graphene beads for supercapacitor electrode materials. 2015 , 3, 22088-22093		25
1728	Electrophoretically deposited graphene oxide and carbon nanotube composite for electrochemical capacitors. 2015 , 26, 415203		9
1727	Enhanced reduction of graphene oxide by high-pressure hydrothermal treatment. 2015 , 5, 81831-81837		106
1726	Ultra-light and elastic graphene foams with a hierarchical structure and a high oil absorption capacity. 2015 , 3, 22687-22694		27
1725	Preparation of Supercapacitors on Flexible Substrates with Electrodeposited PEDOT/Graphene Composites. 2015 , 7, 22137-47		117
1724	Tuning the Electronic Properties of Robust Bio-Bond Graphene Papers by Spontaneous Electrochemical Reduction: From Insulators to Flexible Semi-Metals. 2015 , 27, 6717-6729		21
1723	Elastic Reduced Graphene Oxide Nanosheets Embedded in Germanium Nanofiber Matrix as Anode Material for High-Performance Li-Ion Battery. 2015 , 186, 64-70		23
1722	How fast is the reaction of hydrated electrons with graphene oxide in aqueous dispersions?. 2015 , 7, 19432-7		10
1721	One-Pot Microwave-Assisted Synthesis of Graphene/Layered Double Hydroxide (LDH) Nanohybrids. 2015 , 7, 332-340		52
1720	Preparation of PVA nanocomposites using salep-reduced graphene oxide with enhanced mechanical and biological properties. 2015 , 5, 92428-92437		18

1719	Liquid crystal graphene oxide with different layers: fabrication, characterization and applications. 2015 , 5, 94809-94813		3
1718	Graphene Quantum Dots-Supported Palladium Nanoparticles for Efficient Electrocatalytic Reduction of Oxygen in Alkaline Media. 2015 , 3, 3315-3323		58
1717	High-rate supercapacitive performance of GO/r-GO electrodes interfaced with plastic-crystal-based flexible gel polymer electrolyte. 2015 , 182, 995-1007		34
1716	Graphene-Catalyzed Direct Friedel-Crafts Alkylation Reactions: Mechanism, Selectivity, and Synthetic Utility. 2015 , 137, 14473-80		130
1715	Ultralight carbon nanofoam from naphthalene-mediated hydrothermal sucrose carbonization. <i>Carbon</i> , 2015 , 95, 434-441	10.4	22
1714	Hydroquinone as a single precursor for concurrent reduction and growth of carbon nanotubes on graphene oxide. 2015 , 5, 68270-68275		25
1713	Formation of Cellulose Acetate-Graphene Oxide Nanocomposites by Supercritical CO ₂ Assisted Phase Inversion. 2015 , 54, 8147-8156		33
1712	Thermal deoxygenation of graphite oxide at low temperature. 2015 , 77, 012033		6
1711	New synthesis of self-assembly ionic liquid functionalized reduced graphene oxide-gold nanoparticle composites for electrochemical determination of Sudan I. 2015 , 756, 49-55		15
1710	Lattice expansion of graphite oxide by pressure induced insertion of liquid ammonia. <i>Carbon</i> , 2015 , 93, 484-491	10.4	6
1709	The interactions between TiO ₂ and graphene with surface inhomogeneity determined using density functional theory. 2015 , 17, 29734-46		29
1708	The High Renaissance Properties of Porous Three Dimensional Graphene Using One Step Reduction and Its Application in Flexible Conductor. 2015 ,		
1707	Two-Dimensional Nanomaterials for Biomedical Applications: Emerging Trends and Future Prospects. 2015 , 27, 7261-84		490
1706	In-situ Raman study of laser-induced graphene oxidation. 2015 , 252, 2451-2455		13
1705	Remarkable Conversion Between n- and p-Type Reduced Graphene Oxide on Varying the Thermal Annealing Temperature. 2015 , 27, 7362-7369		119
1704	Effect of degree of reduction on the anode performance of reduced graphene oxide in Li-ion batteries. 2015 , 5, 86237-86241		9
1703	In situ synthesis of Cu ₂ O and Cu nanoparticles during the thermal reduction of copper foil-supported graphene oxide. 2015 , 17, 1		13
1702	Toughening mechanisms and mechanical properties of graphene nanosheet-reinforced alumina. 2015 , 88, 1234-1243		75

1701	Dispersion and re-agglomeration of graphite nanoplates in polypropylene melts under controlled flow conditions. 2015 , 78, 143-151	29
1700	The synergistic effect of folate and RGD dual ligand of nanographene oxide on tumor targeting and photothermal therapy in vivo. 2015 , 7, 18584-94	59
1699	Graphene/Co9S8 nanocomposite paper as a binder-free and free-standing anode for lithium-ion batteries. 2015 , 3, 23677-23683	77
1698	Reducing and multiple-element doping of graphene oxide using active screen plasma treatments. <i>Carbon</i> , 2015 , 95, 338-346	10.4 15
1697	Coal Oxide as a Thermally Robust Carbon-Based Proton Conductor. 2015 , 7, 23041-6	10
1696	Colloidal stabilization of graphene sheets by ionizable amphiphilic block copolymers in various media. 2015 , 5, 89447-89460	11
1695	Synthesis, Structure, and Properties of Graphene and Graphene Oxide. 2015 , 29-94	16
1694	Epoxy/graphene nanocomposites [p]rocessing and properties: a review. 2015 , 5, 73510-73524	146
1693	Adatom bond-induced geometric and electronic properties of passivated armchair graphene nanoribbons. 2015 , 17, 16545-52	6
1692	Highly dispersible disk-like graphene nanoflakes. 2015 , 7, 15059-64	8
1691	Structure and Interaction of Graphene Oxide[Cetyltrimethylammonium Bromide Complexation. 2015 , 119, 21135-21140	40
1690	Graphene Oxide: A Convenient Metal-Free Carbocatalyst for Facilitating Aerobic Oxidation of 5-Hydroxymethylfurfural into 2, 5-Diformylfuran. 2015 , 5, 5636-5646	125
1689	Exfoliation of graphene via wet chemical routes. 2015 , 210, 123-132	100
1688	Exoelectrogens Leading to Precise Reduction of Graphene Oxide by Flexibly Switching Their Environment during Respiration. 2015 , 7, 20576-84	13
1687	Preparation and characterization of silver nanoparticle-reduced graphene oxide decorated electrospun polyurethane fiber composites with an improved electrical property. 2015 , 118, 171-177	18
1686	Graphite mediated reduction of graphene oxide monolayer sheets. <i>Carbon</i> , 2015 , 95, 843-851	10.4 14
1685	Directed self-assembly of graphene oxide on an electrospun polymer fiber template. <i>Carbon</i> , 2015 , 95, 888-894	10.4 8
1684	Functionalization of graphene using deep eutectic solvents. 2015 , 10, 1004	112

1683	Modelling the interaction of graphene oxide using an atomistic-continuum model. 2015 , 5, 77062-77070	9
1682	Layer-by-layer motif hybridization: nanoporous nickel oxide flakes wrapped into graphene oxide sheets toward enhanced oxygen reduction reaction. 2015 , 51, 16409-12	27
1681	Conversion of Natural Tannin to Hydrothermal and Graphene-Like Carbons Studied by Wide-Angle X-ray Scattering. 2015 , 119, 8692-701	19
1680	Waltzing with the Versatile Platform of Graphene to Synthesize Composite Photocatalysts. 2015 , 115, 10307-77	903
1679	Highly thermally conductive and mechanically strong graphene fibers. 2015 , 349, 1083-7	450
1678	Sustainable Fe-ppm Pd nanoparticle catalysis of Suzuki-Miyaura cross-couplings in water. 2015 , 349, 1087-91	202
1677	Electrostatic self-assembly of CdS nanowires-nitrogen doped graphene nanocomposites for enhanced visible light photocatalysis. 2015 , 24, 145-156	34
1676	Mechanistic investigation of the graphene functionalization using p-phenylenediamine and its application for supercapacitors. 2015 , 17, 160-170	117
1675	Highly Sensitive and Selective Sensor Chips with Graphene-Oxide Linking Layer. 2015 , 7, 21727-34	107
1674	A novel magnetic NiFe ₂ O ₄ @graphenePd multifunctional nanocomposite for practical catalytic application. 2015 , 5, 79548-79555	24
1673	A highly performed enzymatic biosensor using distributed electrodes decorated with hydrothermally treated reduced graphene oxide and platinum nanoparticles. 2015 ,	
1672	One-Pot Self-Assembled, Reduced Graphene Oxide/Palladium Nanoparticle Hybrid Aerogels for Electrocatalytic Applications. 2015 , 180, 902-908	17
1671	Graphene oxide-stimulated acoustic attenuating performance of tungsten based epoxy films. 2015 , 3, 10848-10855	8
1670	Characterization of GNP-Containing Al ₂ O ₃ Nanocomposites Fabricated via High Frequency-Induction Heat Sintering Route. 2015 , 24, 4236-4243	23
1669	Reduced humic acid nanosheets and its uses as nanofiller. 2015 , 85, 86-90	22
1668	Nitrogen-Doped Reduced Graphene Oxide Prepared by Simultaneous Thermal Reduction and Nitrogen Doping of Graphene Oxide in Air and Its Application as an Electrocatalyst. 2015 , 7, 26952-8	79
1667	Realising the potential of graphene-based materials for biosurfaces [A future perspective. 2015 , 1, 229-248	47
1666	Preparation of graphene/poly(p-phenylenebenzobisoxazole) composite fibers based on simultaneous zwitterion coating and chemical reduction of graphene oxide at room temperature. 2015 , 5, 88646-88654	2

1665	Investigation of Graphene/Ag Nanocomposites Synthesis Parameters for Two Different Synthesis Methods. 2015 , 23, 361-370		135
1664	Thin and transparent films of graphene/silver nanoparticles obtained at liquid-liquid interfaces: preparation, characterization and application as SERS substrates. 2015 , 438, 29-38		42
1663	Hydrogen reduced graphene oxide/metal grid hybrid film: towards high performance transparent conductive electrode for flexible electrochromic devices. <i>Carbon</i> , 2015 , 81, 232-238	10.4	78
1662	Direct fabrication of nanoporous graphene from graphene oxide by adding a gasification agent to a magnesiothermic reaction. 2015 , 51, 1969-71		28
1661	Towards the understanding of the graphene oxide structure: How to control the formation of humic- and fulvic-like oxidized debris. <i>Carbon</i> , 2015 , 84, 299-309	10.4	52
1660	From graphene oxide to pristine graphene: revealing the inner workings of the full structural restoration. 2015 , 7, 2374-90		83
1659	3D graphene nanomaterials for binder-free supercapacitors: scientific design for enhanced performance. 2015 , 7, 6957-90		148
1658	Facile synthesis of three-dimensional graphene/nickel oxide nanoparticles composites for high performance supercapacitor electrodes. 2015 , 264, 603-609		66
1657	Spray-Assisted Deep-Frying Process for the In Situ Spherical Assembly of Graphene for Energy-Storage Devices. 2015 , 27, 457-465		78
1656	Removal of methylene blue from water by graphene oxide aerogel: thermodynamic, kinetic, and equilibrium modeling. 2015 , 41, 7945-7963		42
1655	Rapid reduction of GO by hydrogen spill-over mechanism by in situ generated nanoparticles at room temperature and their catalytic performance towards 4-nitrophenol reduction and ethanol oxidation. 2015 , 491, 45-51		25
1654	Cu ₂ O nanorods modified by reduced graphene oxide for NH ₃ sensing at room temperature. 2015 , 3, 1174-1181		110
1653	High-yield graphene exfoliation using sodium dodecyl sulfate accompanied by alcohols as surface-tension-reducing agents in aqueous solution. <i>Carbon</i> , 2015 , 83, 136-143	10.4	47
1652	Electrochemical generation of hydrogenated graphene flakes. <i>Carbon</i> , 2015 , 83, 128-135	10.4	35
1651	One-step hydrothermal green synthesis of silver nanoparticle-carbon nanotube reduced-graphene oxide composite and its application as hydrogen peroxide sensor. 2015 , 208, 389-398		145
1650	Facile synthesis of Cu ₂ O/CuO/RGO nanocomposite and its superior cyclability in supercapacitor. 2015 , 152, 433-442		176
1649	Preparation of reduced graphite oxide with high volumetric capacitance in supercapacitors. 2015 , 51, 5598-601		51
1648	Synthesis and characterization of structural and magnetic properties of graphene/hard ferrite nanocomposites as microwave-absorbing material. 2015 , 50, 1201-1213		94

1647	Electrodeposition of copper oxide/polypyrrole/reduced graphene oxide as a nonenzymatic glucose biosensor. 2015 , 209, 100-108	106
1646	Characterisation of reduced graphene oxide: Effects of reduction variables on electrical conductivity. 2015 , 193, 49-60	199
1645	Graphene oxide: from fundamentals to applications. 2015 , 27, 013002	82
1644	Adsorption isotherms and kinetics of cationic and anionic dyes on three-dimensional reduced graphene oxide macrostructure. 2015 , 21, 1191-1196	123
1643	Graphene Oxide: Physics and Applications. 2015 ,	30
1642	Synthesis of functionalized 3D porous graphene using both ionic liquid and SiO ₂ spheres as "spacers" for high-performance application in supercapacitors. 2015 , 7, 659-69	48
1641	ZnO/graphene composites as practical photocatalysts for gaseous acetaldehyde degradation and electrolytic water oxidation. 2015 , 490, 1-9	111
1640	Facile synthesis of laminated graphene for advanced supercapacitor electrode material via simultaneous reduction and N-doping. 2015 , 274, 851-861	43
1639	Graphene and carbon nanotube (CNT) in MEMS/NEMS applications. 2015 , 132, 192-206	146
1638	Template-free preparation of a few-layer graphene nanomesh via a one-step hydrothermal process. 2015 , 50, 1317-1322	5
1637	Synthesis of Pt/Cu/poly (o -Anisidine) nanocomposite onto carbon paste electrode and its application for methanol oxidation. 2015 , 40, 292-302	16
1636	On the oxidation degree of few-layer graphene oxide sheets obtained from chemically oxidized multiwall carbon nanotubes. <i>Carbon</i> , 2015 , 81, 405-417	10.4 45
1635	A novel electrochemical biosensor based on hemin functionalized graphene oxide sheets for simultaneous determination of ascorbic acid, dopamine and uric acid. 2015 , 207, 535-541	115
1634	Effects of sulfide reduction on adsorption affinities of colloidal graphene oxide nanoparticles for phenanthrene and 1-naphthol. 2015 , 196, 371-8	33
1633	Combined effects of defects and hydroxyl groups on the electronic transport properties of reduced graphene oxide. 2015 , 118, 885-892	10
1632	Facile synthesis of ZnFe ₂ O ₄ /reduced graphene oxide nanohybrids for enhanced microwave absorption properties. 2015 , 61, 292-297	91
1631	Dual-doped carbon composite for efficient oxygen reduction via electrospinning and incipient impregnation. 2015 , 274, 595-603	26
1630	Graphene/Ionic liquid composite films and ion exchange. 2014 , 4, 5466	28

1629	Fabrication of graphene-based electrode in less than a minute through hybrid microwave annealing. 2014 , 4, 5492	56
1628	Fabrication and NO ₂ gas-sensing properties of reduced graphene oxide/WO ₃ nanocomposite films. 2015 , 132, 398-405	113
1627	Scalable production of graphene via wet chemistry: progress and challenges. 2015 , 18, 73-78	209
1626	Porous Graphene Materials for Energy Storage and Conversion Applications. 2016 ,	2
1625	Optimization of the Synthesis Procedures of Graphene and Graphite Oxide. 2016 ,	2
1624	Investigation of the Reduction of Graphene Oxide by Lithium Triethylborohydride. 2016 , 2016, 1-10	9
1623	Optical Band Gap and Thermal Diffusivity of Polypyrrole-Nanoparticles Decorated Reduced Graphene Oxide Nanocomposite Layer. 2016 , 2016, 1-8	7
1622	An Oxygen Reduction Study of Graphene-Based Nanomaterials of Different Origin. 2016 , 6, 108	43
1621	Controllable Electrochemical Synthesis of Reduced Graphene Oxide Thin-Film Constructed as Efficient Photoanode in Dye-Sensitized Solar Cells. 2016 , 9,	14
1620	Polymer Nanocomposites-A Comparison between Carbon Nanotubes, Graphene, and Clay as Nanofillers. 2016 , 9,	413
1619	A Reduced Graphene Oxide Based Radio Frequency Glucose Sensing Device Using Multi-Dimensional Parameters. 2016 , 7,	9
1618	Amphiphilic Fluorinated Block Copolymer Synthesized by RAFT Polymerization for Graphene Dispersions. 2016 , 8,	14
1617	Graphene-Based Materials Functionalization with Natural Polymeric Biomolecules. 2016 ,	8
1616	Synthesis, toxicity, biocompatibility, and biomedical applications of graphene and graphene-related materials. 2016 , 11, 1927-45	167
1615	Synthesis and applications of carbon nanomaterials for energy generation and storage. 2016 , 7, 149-96	86
1614	Synthesis of Graphene Oxide via Liquid Exfoliation Using Self-Custom-Made Tweeter Piezoelectric Ultrasound Generator and Assisted by Surfactant from Commercial Detergent. 2016 , 13, 1129-1135	1
1613	Reduced graphene oxide/SnO ₂ nanocomposite on PET surface: Synthesis, characterization and application as an electro-conductive and ultraviolet blocking textile. 2016 , 506, 507-513	29
1612	The oxidation capacity of Mn ₃ O ₄ nanoparticles is significantly enhanced by anchoring them onto reduced graphene oxide to facilitate regeneration of surface-associated Mn(III). 2016 , 103, 101-108	17

1611	Physicochemical properties and supercapacitor behavior of electrochemically synthesized few layered graphene nanosheets. 2016 , 20, 3415-3428	20
1610	Size-controllable ultrathin carboxylated polypyrrole nanotube transducer for extremely sensitive 17 β -Estradiol FET-type biosensors. 2016 , 4, 5025-5034	23
1609	Surface and Interface Engineering of Graphene Oxide Films by Controllable Photoreduction. 2016 , 16, 1244-55	21
1608	A General and Extremely Simple Remote Approach toward Graphene Bulks with In Situ Multifunctionalization. 2016 , 28, 3305-12	67
1607	Improving the Charge Injection in Organic Transistors by Covalently Linked Graphene Oxide/Metal Electrodes. 2016 , 2, 1500409	19
1606	Self-Construction from 2D to 3D: One-Pot Layer-by-Layer Assembly of Graphene Oxide Sheets Held Together by Coordination Polymers. 2016 , 128, 8566-8570	13
1605	Effect of Amine Adlayer on Electrochemical Uric Acid Sensor Conducted on Electrochemically Reduced Graphene Oxide. 2016 , 37, 276-281	
1604	Controlled Chemistry Approach to the Oxo-Functionalization of Graphene. 2016 , 22, 7012-27	59
1603	Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper. 2016 , 28, 4684-91	47
1602	A simple and novel method to design flexible and transparent epoxy resin with tunable mechanical properties. 2016 , 65, 835-840	19
1601	Thermodynamic and redox properties of graphene oxides for lithium-ion battery applications: a first principles density functional theory modeling approach. 2016 , 18, 20600-6	30
1600	Microwave-Assisted Synthesis and Physicochemical Characterization of Tetrafuranylporphyrin-Grafted Reduced-Graphene Oxide. 2016 , 22, 1608-13	14
1599	Enhanced Photocatalytic Degradation of 17 β -Ethinylestradiol Exhibited by Multifunctional ZnFe O -Ag/rGO Nanocomposite Under Visible Light. 2016 , 92, 238-246	26
1598	Non-covalent Exfoliation of Graphite to Produce Graphene. 2016 , 413-429	
1597	Self-Powered Electronic Skin with Biotactile Selectivity. 2016 , 28, 3549-56	80
1596	A facile fabrication of chemically converted graphene oxide thin films and their uses as absorber materials for solar cells. 2016 , 122, 1	
1595	Stabilizing sulfur cathodes using nitrogen-doped graphene as a chemical immobilizer for Li S batteries. <i>Carbon</i> , 2016 , 108, 120-126	10.4 115
1594	Water Sorption and Diffusion in (Reduced) Graphene Oxide-Alginate Biopolymer Nanocomposites. 2016 , 301, 1049-1063	16

1593	A highly atom-efficient strategy to synthesize reduced graphene oxide-Mn ₃ O ₄ nanoparticles composites for supercapacitors. 2016 , 685, 949-956	41
1592	Low-temperature preparation of magnetically separable Fe ₃ O ₄ @CuO-RGO core-shell heterojunctions for high-performance removal of organic dye under visible light. 2016 , 688, 649-656	42
1591	Simultaneous determination of ascorbic and uric acids and dopamine in human serum samples using three-way calibration with data from square wave voltammetry. 2016 , 129, 205-212	23
1590	Accelerated Thermal Decomposition of Graphene Oxide Films in Air via in Situ X-ray Diffraction Analysis. 2016 , 120, 14984-14990	39
1589	Preparation of CO ₂ -switchable graphene dispersions and their polystyrene nanocomposite latexes by direct exfoliation of graphite using hyperbranched polyethylene surfactants. 2016 , 7, 4881-4890	17
1588	Chemical reactivity of graphene oxide towards amines elucidated by solid-state NMR. 2016 , 8, 13714-13721	93
1587	Polymer/Graphene Hybrids for Advanced Energy-Conversion and -Storage Materials. 2016 , 11, 1151-68	26
1586	Localized Plasmon-Stimulated Nanochemistry of Graphene Oxide on a SERS Substrate. 2016 , 17, 873-8	2
1585	Graphene Oxide-Based Electrode Inks for 3D-Printed Lithium-Ion Batteries. 2016 , 28, 2587-94	443
1584	Synthesis and characterization of nitrogen-functionalized graphene oxide in high-temperature and high-pressure ammonia. 2016 , 6, 113924-113932	16
1583	Influence of Different Improved Hummers Method Modifications on the Characteristics of Graphite Oxide in Order to Make a More Easily Scalable Method. 2016 , 55, 12836-12847	75
1582	High performance free-standing films by layer-by-layer assembly of graphene flakes and ribbons with natural polymers. 2016 , 4, 7718-7730	12
1581	Effect of graphene oxide ratio on the cell adhesion and growth behavior on a graphene oxide-coated silicon substrate. 2016 , 6, 33835	34
1580	PEDOT:PSS/GO nanocomposites: Determination of the aspect ratio by indirect measurements. 2016 ,	
1579	Graphene-like nanostructures: synthesis and use for preparation of catalysts and hydrogen storage composites. 2016 , 65, 1893-1901	11
1578	Efficient control of ultrafast optical nonlinearity of reduced graphene oxide by infrared reduction. 2016 , 120, 013101	31
1577	Preparation of oleic diethanolamide-capped copper borate/graphene oxide nanocomposites and their tribological properties in base oil. 2016 , 6, 110866-110873	21
1576	Design and fabrication of graphene fibers based on intermolecular forces and charge properties in a novel acidic system. 2016 , 6, 100040-100045	3

1575	Improved electromembrane microextraction efficiency of chloramphenicol in dairy products: the cooperation of reduced graphene oxide and a cationic surfactant. 2016 , 6, 112748-112755	17
1574	The influence of reduced graphene oxide on electrical conductivity of LiFePO ₄ -based composite as cathode material. 2016 ,	3
1573	Synthesis of LiFePO ₄ /Li ₂ SiO ₃ /reduced Graphene Oxide (rGO) Composite via Hydrothermal Method. 2016 , 739, 012087	1
1572	Concurrent Formation of Carbon-Carbon Bonds and Functionalized Graphene by Oxidative Carbon-Hydrogen Coupling Reaction. 2016 , 6, 25824	37
1571	Ultrasensitive self-powered large area planar GaN UV-photodetector using reduced graphene oxide electrodes. 2016 , 109, 242102	68
1570	Wafer scale integration of reduced graphene oxide by novel laser processing at room temperature in air. 2016 , 120, 105304	18
1569	Heteronanostructured Co@carbon nanotubes-graphene ternary hybrids: synthesis, electromagnetic and excellent microwave absorption properties. 2016 , 6, 37972	57
1568	Electrocatalytic activity enhancement of a graphene ink-coated carbon cloth cathode for oxidative treatment. 2016 , 222, 1628-1641	55
1567	Moisture Effect on Mechanical Properties of Graphene/Epoxy Nanocomposites. 2016 , 32, 673-682	9
1566	Enhanced performance of alkylated graphene reinforced polybutylene succinate nanocomposite. 2016 ,	3
1565	Dielectric relaxation and hopping conduction in reduced graphite oxide. 2016 , 119, 224102	15
1564	A time efficient reduction strategy for bulk production of reduced graphene oxide using selenium powder as a reducing agent. 2016 , 51, 6156-6165	18
1563	Facile synthesis of reduced graphene oxide/hexagonal WO ₃ nanosheets composites with enhanced H ₂ S sensing properties. 2016 , 230, 736-745	154
1562	Adsorptive removal of antibiotics from aqueous solution using carbon materials. 2016 , 153, 365-85	327
1561	Graphene and water-based elastomers thin-film composites by dip-moulding. <i>Carbon</i> , 2016 , 106, 228-232	19
1560	Enhanced hydrogen release of metal borohydrides M(BH ₄) _n (M=Li, Na, Mg, Ca) mixed with reduced graphene oxide. 2016 , 41, 11225-11231	13
1559	Hierarchical graphene/SiC nanowire networks in polymer-derived ceramics with enhanced electromagnetic wave absorbing capability. 2016 , 36, 2695-2703	166
1558	Properties of Pristine Graphene Composites Arising from the Mechanism of Graphene-Stabilized Emulsion Formation. 2016 , 55, 6777-6782	20

1557	Single-pixel camera with one graphene photodetector. 2016 , 24, 400-8	16
1556	Preparation of graphene modified epoxy resin with high thermal conductivity by optimizing the morphology of filler. 2016 , 103, 892-900	47
1555	In-situ hydrothermal synthesis of Na ₃ MnCO ₃ PO ₄ /rGO hybrid as a cathode for Na-ion battery. 2016 , 208, 188-194	25
1554	Electron-beam-induced reduced graphene oxide as an alternative hole-transporting interfacial layer for high-performance and reliable polymer solar cells. 2016 , 34, 67-74	23
1553	Revisiting Graphene Oxide Chemistry via Spatially-Resolved Electron Energy Loss Spectroscopy. 2016 , 28, 3741-3748	47
1552	Chitosan-dithiooxamide-grafted rGO sheets decorated with Au nanoparticles: Synthesis, characterization and properties. 2016 , 78, 153-162	7
1551	Modifications in development of graphene oxide synthetic routes. 2016 , 294, 458-477	54
1550	An Electrochemical Sensor for Ultrasensitive Determination the Polychlorinated Biphenyls. 2016 , 194, 413-421	17
1549	Environmental reduction of carbon nanomaterials affects their capabilities to accumulate aromatic compounds. 2016 , 1, 21-28	5
1548	Lightweight flexible polyurethane/reduced ultralarge graphene oxide composite foams for electromagnetic interference shielding. 2016 , 6, 27517-27527	53
1547	Separation Performance of Graphene Oxide Membrane in Aqueous Solution. 2016 , 55, 4803-4810	91
1546	Preparation of hierarchical porous graphene nanosheets with high specific surface area and their electrochemical behaviors in supercapacitors. 2016 , 177, 171-178	8
1545	In situ thermally reduced graphene oxide/epoxy composites: thermal and mechanical properties. 2016 , 6, 1015-1022	59
1544	Application of graphene based materials for adsorption of pharmaceutical traces from water and wastewater- a review. 2016 , 1-14	42
1543	Implication of mesoporous 3-D graphene skeleton platform based on interconnected framework architecture in constructing electro-conductive flexible nanocomposites. 2016 , 24, 170-175	3
1542	Preparation of high specific surface area composite carbon cryogels from self-assembly of graphene oxide and resorcinol monomers for supercapacitors. 2016 , 20, 1793-1802	8
1541	Direct laser printing of graphene oxide for resistive chemosensors. 2016 , 82, 163-169	26
1540	Highly crumpled graphene nano-networks as electrocatalytic counter electrode in photovoltaics. 2016 , 192, 342-349	18

1539	Review of functionalization, structure and properties of graphene/polymer composite fibers. 2016 , 87, 29-45	213
1538	Graphene nanoplatelet reinforced boron carbide composites with high electrical and thermal conductivity. 2016 , 36, 2679-2687	45
1537	Preparation and characterization of Nano-graphite/TiO ₂ composite photoelectrode for photoelectrocatalytic degradation of hazardous pollutant. 2016 , 315, 1-10	45
1536	Effect of Modification by Polydopamine and Polymeric Carbon Nitride on Methanol Oxidation Ability of Pt Catalysts-Supported on Reduced Graphene Oxide. 2016 , 163, F668-F676	14
1535	Probing Flexural Properties of Cellulose Nanocrystal-Graphene Nanomembranes with Force Spectroscopy and Bulging Test. 2016 , 32, 5383-93	24
1534	Reduced Graphene Oxide Films with Ultrahigh Conductivity as Li-Ion Battery Current Collectors. 2016 , 16, 3616-23	146
1533	Host Guest Inclusion Complex Modified Electrode for the Sensitive Determination of a Muscle Relaxant Drug. 2016 , 163, B403-B409	18
1532	Simultaneous optimization of surface chemistry and pore morphology of 3D graphene-sulfur cathode via multi-ion modulation. 2016 , 321, 193-200	36
1531	Preparation of copper (I) oxide nanohexagon decorated reduced graphene oxide nanocomposite and its application in electrochemical sensing of dopamine. 2016 , 210, 10-18	66
1530	Surface enhanced Raman spectroscopy platform based on graphene with one-year stability. 2016 , 604, 74-80	16
1529	Three-Dimensional Printable High-Temperature and High-Rate Heaters. 2016 , 10, 5272-9	137
1528	Electrical characterization and conductivity optimization of laser reduced graphene oxide on insulator using point-contact methods. 2016 , 6, 46231-46237	11
1527	Electrodeposited reduced-graphene oxide/cobalt oxide electrodes for charge storage applications. 2016 , 382, 34-40	19
1526	Enhanced electrochemical performances of graphene based solid-state flexible cable type supercapacitor using redox mediated polymer gel electrolyte. <i>Carbon</i> , 2016 , 105, 638-648	10.4 83
1525	Electrochemical sensing of glucose by reduced graphene oxide-zinc ferrosinels. 2016 , 379, 156-162	19
1524	Functionalization of chemically derived graphene for improving its electrocapacitive energy storage properties. 2016 , 9, 1891-1930	181
1523	Toxicology of graphene-based nanomaterials. 2016 , 105, 109-144	186
1522	Reduced graphene oxide-based gas sensor array for pattern recognition of DMMP vapor. 2016 , 234, 361-370	36

1521	Electrostatic self-assembled graphene oxide-collagen scaffolds towards a three-dimensional microenvironment for biomimetic applications. 2016 , 6, 49039-49051	26
1520	Laser-induced chemical transformation of free-standing graphene oxide membranes in liquid and gas ammonia environments. 2016 , 6, 50034-50042	11
1519	Effects of treatment temperature on the reduction of GO under alkaline solution during the preparation of graphene/geopolymer composites. 2016 , 42, 18181-18188	15
1518	Retracted: Generating Energy from Air: Solid State Planar Concentration Cell Based on Graphene Oxide. 2016 , 1, 1600145	4
1517	Hydroxyapatite/Graphene as Advanced Bioceramic Composites for Orthopedic Applications. 2016 , 473-502	6
1516	Graphene Derivatives in Semicrystalline Polymer Composites. 2016 , 145-192	2
1515	Metal-assisted mechanochemical reduction of graphene oxide. <i>Carbon</i> , 2016 , 110, 79-86	10.4 21
1514	The novel synthesis of highly water-soluble few-layer graphene nanosheets by a simple one-pot chemical route and without any modification. 2016 , 183, 297-305	3
1513	Infrared reduction, an efficient method to control the non-linear optical property of graphene oxide in femtosecond regime. 2016 ,	
1512	Solvothermal reduction of graphene oxide in dimethylformamide. 2016 , 61, 40-43	24
1511	One-Pot Growth of 3D Reduced Graphene Oxide Foams Embedded with NiFe Oxide Nanocatalysts for Oxygen Evolution Reaction. 2016 , 163, F3158-F3163	8
1510	Synthesis of Partially Reduced Graphene Oxide/Silver Nanocomposite and Its Inhibitive Action on Pathogenic Fungi Grown Under Ambient Conditions. 2016 , 1, 4235-4245	18
1509	Enhancing mechanical properties of polyelectrolyte complex nanofibers with graphene oxide nanofillers pretreated by polycation. 2016 , 135, 128-136	30
1508	Graphene Preparation by Phenylmagnesium Bromide and Its Excellent Electrical Conductivity Performance in Graphene/Poly(p-phenylene sulfide) Composites. 2016 , 55, 10860-10867	4
1507	Fabrication of a compressible PU@RGO@MnO ₂ hybrid sponge for efficient removal of methylene blue with an excellent recyclability. 2016 , 6, 88897-88903	12
1506	Effect of catalyst carbon supports on the oxygen reduction reaction in alkaline media: a comparative study. 2016 , 6, 94669-94681	44
1505	Fullerenes: Donor-Acceptor Fullerene Complexes Based on Metal Porphyrins. 2016 , 242-256	
1504	All-Carbon Thin-Film Transistors as a Step Towards Flexible and Transparent Electronics. 2016 , 2, 1600229	28

1503	One-step synthesis of SnO ₂ -reduced graphene oxide (SOG) composites for efficient removal of organic dyes from wastewater. 2016 , 6, 100636-100642	8
1502	Graphene Oxide-Based Composite Materials. 2016 , 314-363	7
1501	Functionalization and Reduction of Graphene Oxide. 2016 , 175-229	5
1500	Mangifera indica, Ficus religiosa and Polyalthia longifolia leaf extract-assisted green synthesis of graphene for transparent highly conductive film. 2016 , 6, 96355-96366	26
1499	Anomalous restoration of graphitic layers from graphene oxide in ethanol environment at ultrahigh temperature using solar furnace. 2016 , 9, 025103	13
1498	Long-term stability improvement of light-emitting diode using highly transparent graphene oxide paste. 2016 , 8, 17551-17559	13
1497	Preparation of graphite derivatives by selective reduction of graphite oxide and isocyanate functionalization. 2016 , 182, 237-245	7
1496	Graphene/Carbon Nanotube Aerogels. 2016 , 563-578	1
1495	Synthesis and characterization of boron doped graphene nanosheets for supercapacitor applications. 2016 , 220, 524-532	123
1494	Ti ₃ C ₂ MXenes with Modified Surface for High-Performance Electromagnetic Absorption and Shielding in the X-Band. 2016 , 8, 21011-9	532
1493	ZnO nanoparticles' decorated reduced-graphene oxide: Easy synthesis, unique polarization behavior, and ionic conductivity. 2016 , 110, 311-316	12
1492	Finding optimal HBr reduction of inkjet printed graphene oxide for flexible electronics. 2016 , 181, 409-414	7
1491	"Bottom-up" transparent electrodes. 2016 , 482, 267-289	15
1490	Oxidation degree of graphene reflected by morphology-tailored ZnO growth. <i>Carbon</i> , 2016 , 107, 583-592	10.4 2
1489	Plasma enhanced vortex fluidic device manipulation of graphene oxide. 2016 , 52, 10755-8	9
1488	Effect of thermal annealing on the heat transfer properties of reduced graphite oxide flakes: A nanoscale characterization via scanning thermal microscopy. <i>Carbon</i> , 2016 , 109, 390-401	10.4 37
1487	Novel enzymatic glucose biosensor based on distributed electrodes covered with a solvothermal synthesized graphene material and platinum nanoparticles. 2016 , 6, 74453-74461	6
1486	Hydrothermal synthesis of cobalt oxide porous nanoribbons anchored with reduced graphene oxide for hydrogen peroxide detection. 2016 , 18, 1	19

1485	Morphic transitions of nanocarbons via laser pyrolysis of polyimide films. 2016 , 121, 275-286		40
1484	Modulation of Electrochemical Properties of Graphene Oxide by Photochemical Reduction Using UV-Light Emitting Diodes. 2016 , 1, 1168-1175		11
1483	Thermal processing for graphene oxide supercapacitor electrode reduction and wetting. 2016 , 46, 1075-1084	11	
1482	Electroactive polymer/graphene oxide nanostructured composites; evidence for direct chemical interactions between PEDOT and GOx. 2016 , 220, 334-346		21
1481	Surface Modification of Graphene Oxides by Plasma Techniques and Their Application for Environmental Pollution Cleanup. 2016 , 16, 295-318		33
1480	Fabrication and tribological properties of copper matrix composite with short carbon fiber/reduced graphene oxide filler. 2016 , 103, 406-411		36
1479	Novel Electronic Properties of a Graphene Antidot, Parabolic Dot, and Armchair Ribbon. 2016 , 183-208		
1478	Highly efficient photocatalytic activity of CuO quantum dot decorated rGO nanocomposites. 2016 , 49, 315107		25
1477	Amino-modification and successive electrochemical reduction of graphene oxide for highly sensitive electrochemical detection of trace Pb 2+. <i>Carbon</i> , 2016 , 109, 479-486	10.4	31
1476	Cooperative Effect of GO and Glucose on PEDOT:PSS for High VOC and Hysteresis-Free Solution-Processed Perovskite Solar Cells. 2016 , 26, 6985-6994		55
1475	Challenges in Liquid-Phase Exfoliation, Processing, and Assembly of Pristine Graphene. 2016 , 28, 8796-8818		97
1474	Chitosan derivatives/reduced graphene oxide/alginate beads for small-molecule drug delivery. 2016 , 69, 1222-8		64
1473	In situ formed graphene/ZnO nanostructured composites for low temperature hydrogen sulfide removal from natural gas. 2016 , 6, 81142-81150		18
1472	Toward highly thermally conductive all-carbon composites: Structure control. <i>Carbon</i> , 2016 , 109, 575-597	10.4	99
1471	Tunable graphene oxide reduction and graphene patterning at room temperature on arbitrary substrates. <i>Carbon</i> , 2016 , 109, 173-181	10.4	23
1470	Managing of gas sensing characteristic of a reduced graphene oxide based gas sensor by the change in synthesis condition: A new approach for electronic nose design. 2016 , 183, 181-190		11
1469	Physico-chemical properties of pristine graphene and its performance as electrode material for electro-Fenton treatment of wastewater. 2016 , 214, 217-230		75
1468	Sodium ion storage in reduced graphene oxide. 2016 , 214, 319-325		42

1467	Role of Graphene Oxide Liquid Crystals in Hydrothermal Reduction and Supercapacitor Performance. 2016 , 8, 22316-23	26
1466	Simultaneously enhanced electrical conductivity and Seebeck coefficient in Poly (3,4-ethylenedioxythiophene) films treated with hydroiodic acid. 2016 , 220, 585-590	23
1465	Engineering the Li Storage Properties of Graphene Anodes: Defect Evolution and Pore Structure Regulation. 2016 , 8, 33712-33722	16
1464	Nanostructured transparent conductive films: Fabrication, characterization and applications. 2016 , 109, 1-101	78
1463	Simple Synthesis of Nanocrystalline Tin Sulfide/N-Doped Reduced Graphene Oxide Composites as Lithium Ion Battery Anodes. 2016 , 10, 10778-10788	146
1462	Binder-free electrodes of NiMoO ₄ /graphene oxide nanosheets: synthesis, characterization and supercapacitive behavior. 2016 , 6, 111170-111181	23
1461	Synthesis, characterization and antibacterial activity of Ag incorporated ZnO/graphene nanocomposites. 2016 , 6, 88751-88761	33
1460	Biodiesel production from wet microalgae by using graphene oxide as solid acid catalyst. 2016 , 221, 344-349	73
1459	Macroscale Superlubricity of Multilayer Polyethylenimine/Graphene Oxide Coatings in Different Gas Environments. 2016 , 8, 27179-27187	40
1458	Efficient synthesis of graphene/sulfur nanocomposites with high sulfur content and their application as cathodes for LiS batteries. 2016 , 4, 16219-16224	14
1457	Recent Developments in Design and Fabrication of Graphene-Based Interdigital Micro-Supercapacitors for Miniaturized Energy Storage Devices. 2016 , 6, 1752-1765	16
1456	Scribing Graphene Circuits. 2016 , 207-216	
1455	Synergistic influence of graphene oxide and tetraoctylammonium bromide (frozen ionic liquid) for the enhanced adsorption and recovery of palladium from an industrial catalyst. 2016 , 4, 4287-4298	7
1454	Enhanced removal of chromate by graphene-based sulfate and chloride green rust nanocomposites. 2016 , 68, 266-274	12
1453	Hydrosilane-Assisted Formation of Metal Nanoparticles on Graphene Oxide. 2016 , 89, 67-73	6
1452	The use of different types of reduced graphene oxide in the preparation of Fe-N-C electrocatalysts: capacitive behavior and oxygen reduction reaction activity in alkaline medium. 2016 , 20, 3507-3523	29
1451	Synthesis of a novel reactive compatibilizer with large surface area and the application in monomer casting nylon/polyethylene-butene elastomer blends. 2016 , 51, 9589-9601	6
1450	Capacitance enhancement in supercapacitors by incorporating ultra-long hydrated vanadium-oxide nanobelts into graphene. 2016 , 688, 814-821	20

1449	Fast fabrication of NiO@graphene composites for supercapacitor electrodes: Combination of reduction and deposition. 2016 , 109, 242-250	47
1448	Electrochemical synthesis of polypyrrole doped with graphene oxide and its electrochemical characterization as membrane material. 2016 , 220, 300-310	8
1447	Titanium oxide /reduced graphene oxide /silver composite layers synthesized by laser technique: Wetting and electrical properties. 2016 , 42, 16191-16197	12
1446	Resilient Yolk-Shell Silicon-Reduced Graphene Oxide/Amorphous Carbon Anode Material from a Synergistic Dual-Coating Process for Lithium-Ion Batteries. 2016 , 3, 1446-1454	20
1445	Synthesis Strategies for Graphene. 2016 , 91-132	
1444	Atomic-Scale Exfoliation and Adhesion of Nanocarbon. 2016 , 133-142	2
1443	Fabrication and Applications of Biocompatible Graphene Oxide and Graphene. 2016 , 143-150	5
1442	Novel Graphene Sensors for Chemical and Biological Applications. 2016 , 287-304	
1441	Graphene-Based Field Emission Devices. 2016 , 423-436	
1440	Reviewing, Combining, and Updating the Models for the Nanostructure of Non-Graphitizing Carbons Produced from Oxygen-Containing Precursors. 2016 , 30, 7811-7826	47
1439	Noncovalently functionalized graphene oxide/graphene with imidazolium-based ionic liquids for adsorptive removal of dibenzothiophene from model fuel. 2016 , 51, 10092-10103	33
1438	Aqueous graphene oxide-dispersed carbon nanotubes as inks for the scalable production of all-carbon transparent conductive films. 2016 , 4, 7043-7051	30
1437	Electrospun graphene oxide/carbon composite nanofibers with well-developed mesoporous structure and their adsorption performance for benzene and butanone. 2016 , 306, 99-106	38
1436	Tunable bioelectrodes with wrinkled-ridged graphene oxide surfaces for electrochemical nitrate sensors. 2016 , 6, 67184-67195	27
1435	Heterocyclic aminopyrazine-Reduced graphene oxide coated carbon cloth electrode as an active bio-electrocatalyst for extracellular electron transfer in microbial fuel cells. 2016 , 6, 68827-68834	14
1434	Thermal reduction to control the spacing in graphene oxide membranes: effect on ion diffusion and electrical conduction. 2016 , 6, 70012-70017	18
1433	Electron-stimulated reduction of the surface of graphite oxide. 2016 , 42, 337-340	2
1432	Carbon Welding by Ultrafast Joule Heating. 2016 , 16, 7282-7289	65

1431	Self-Organized 3D Porous Graphene Dual-Doped with Biomass-Sponsored Nitrogen and Sulfur for Oxygen Reduction and Evolution. 2016 , 8, 29408-29418	127
1430	Reduced graphene oxide/silver hybrid with N,N-dimethyl formamide for oxygen reduction reactions and surface enhanced Raman scattering. 2016 , 6, 102519-102527	5
1429	Layer-by-layer assembly of graphene oxide on viscose fibers for the fabrication of flexible conductive devices. 2016 , 23, 3761-3770	13
1428	Nanomaterials for optical data storage. 2016 , 1,	159
1427	Reduced Graphene Oxide nano-composites layer on fiber optic tip sensor reflectance response for sensing of aqueous ethanol. 2016 , 12,	7
1426	Mixed 1T-2H Phase MoS/Reduced Graphene Oxide as Active Electrode for Enhanced Supercapacitive Performance. 2016 , 8, 32842-32852	101
1425	Moderately reduced graphene oxide/PEDOT:PSS as hole transport layer to fabricate efficient perovskite hybrid solar cells. 2016 , 39, 288-295	36
1424	Tailoring the Oxygen Content of Graphite and Reduced Graphene Oxide for Specific Applications. 2016 , 6, 21715	204
1423	Three-dimensional carbon-based architectures for oil remediation: from synthesis and modification to functionalization. 2016 , 4, 18687-18705	62
1422	Graphene oxide-multiwalled carbon nanotubes composite as an anode for lithium ion batteries. 2016 , 34, 481-486	3
1421	Flower-like Fe ₂ O ₃ /reduced graphene oxide composite for electrochemical energy storage. 2016 , 222, 198-204	12
1420	A Green Approach to the Synthesis of Reduced Graphene Oxide using Sodium Humate. 2016 , 230, 1711-1718	11
1419	A Fully Integrated and Miniaturized Heavy-metal-detection Sensor Based on Micro-patterned Reduced Graphene Oxide. 2016 , 6, 33125	65
1418	Controlled growth of high-quality graphene using hot-filament chemical vapor deposition. 2016 , 122, 1	7
1417	Covalent functionalization of reduced graphene oxide with porphyrin by means of diazonium chemistry for nonlinear optical performance. 2016 , 6, 23325	81
1416	In-situ Grown of MoS ₂ /RGO/MoS ₂ @Mo Nanocomposite and Its supercapacitor Performance. 2016 , 219, 693-700	40
1415	Powder processing methodology for production of graphene oxide reinforced aluminium matrix composites. 2016 , 2, 437-450	9
1414	Graphene in Photocatalysis: A Review. 2016 , 12, 6640-6696	605

1413	Graphene oxide induced hydrolytic degradation behavior changes of poly(L-lactide) in different mediums. 2016 , 56, 220-228	18
1412	Superconductivity in Ca-doped graphene laminates. 2016 , 6, 23254	87
1411	Demulsification of heavy oil-in-water emulsions by reduced graphene oxide nanosheets. 2016 , 6, 106297-106303	38
1410	BACK MATTER. 2016 , 159-219	
1409	Poly(vinylferrocene)/Reduced Graphene Oxide as a High Power/High Capacity Cathodic Battery Material. 2016 , 6, 1600108	39
1408	On the Importance of Regulating Hydroxyl Coverage on the Basal Plane of Graphene Oxide for Supercapacitors. 2016 , 3, 741-748	5
1407	Environment friendly synthesis of magnetite/graphene composite for adsorption of toxic chromium (VI) ions from drinking water. 2016 , 35, 700-705	11
1406	K Mn O /Reduced Graphene Oxide Nanocomposites for Excellent Lithium Storage and Adsorption of Lead Ions. 2016 , 22, 3397-3404	10
1405	Graphene Oxide-Assisted Liquid Phase Exfoliation of Graphite into Graphene for Highly Conductive Film and Electromechanical Sensors. 2016 , 8, 16521-32	86
1404	Biosensors based on graphene oxide and its biomedical application. 2016 , 105, 275-287	218
1403	Highly Ordered Graphene Oxide and Reduced Graphene Oxide Based Polymer Nanocomposites: Promise and Limits for Dynamic Impacts Demonstrated in Model Organic Coatings. 2016 , 8, 16328-38	7
1402	Charge transport mechanism of thermally reduced graphene oxide and their fabrication for high performance shield against electromagnetic pollution. 2016 , 180, 413-421	19
1401	Elucidation of the function of oxygen moieties on graphene oxide and reduced graphene oxide in the nucleation and growth of silver nanoparticles. 2016 , 6, 60056-60067	30
1400	Synthesis of N-doped and non-doped partially oxidised graphene membranes supported over ceramic materials. 2016 , 51, 8346-8360	9
1399	Optical investigation of reduced graphene oxide and reduced graphene oxide/CNTs grown via simple CVD method. 2016 , 220, 72-77	23
1398	Covalently Functionalized Graphene by Radical Polymers for Graphene-Based High-Performance Cathode Materials. 2016 , 8, 17352-9	72
1397	Fabrication techniques and applications of flexible graphene-based electronic devices. 2016 , 37, 041001	17
1396	A new composite scaffold of bioactive glass nanoparticles/graphene: Synchronous improvements of cytocompatibility and mechanical property. 2016 , 145, 438-446	23

1395	Crystallization kinetics and microstructure evolution of reduced graphene oxide/geopolymer composites. 2016 , 36, 2601-2609	16
1394	The influence of oxygen functional groups on gas-sensing properties of reduced graphene oxide (rGO) at room temperature. 2016 , 6, 52339-52346	30
1393	Hierarchical networks of redox-active reduced crumpled graphene oxide and functionalized few-walled carbon nanotubes for rapid electrochemical energy storage. 2016 , 8, 12330-8	30
1392	Critical insights into the effect of shear on in situ reduction of graphene oxide in PVDF: assessing by rheo-dielectric measurements. 2016 , 3, 065301	2
1391	Electrochemiluminescent detection of Pb ²⁺ by graphene/gold nanoparticles and CdSe quantum dots. 2016 , 388, 431-436	11
1390	Graphene-Based Semiconductor Materials for Photocatalytic Applications. 2016 , 349-370	
1389	Modeling and Simulation of the Elastic Properties of Kevlar Reinforced by Graphene. 2016 , 37-44	1
1388	Antimicrobial Perspectives for Graphene-Based Nanomaterials. 2016 , 45-58	1
1387	Modification of Graphene with Polymers via Addition Chemistry. 2016 , 311-332	
1386	In situ X-ray powder diffraction studies of the synthesis of graphene oxide and formation of reduced graphene oxide. 2016 , 240, 49-54	12
1385	Synthesis of Silver-Graphene Oxide nanocomposite for removal of anionic dye by adsorption. 2016 , 3, 2146-2154	8
1384	Graphene and thermo-responsive polymeric nanocomposites for therapeutic applications. 2016 , 6, 10-15	13
1383	Single-Step Electrophoretic Deposition of Non-noble Metal Catalyst Layer with Low Onset Voltage for Ethanol Electro-oxidation. 2016 , 8, 15975-84	22
1382	Modular Graphene-Based 3D Covalent Networks: Functional Architectures for Energy Applications. 2016 , 12, 1044-52	22
1381	In Situ Processing of Graphene/Leucite Nanocomposite Through Graphene Oxide/Geopolymer. 2016 , 99, 1164-1173	21
1380	Graphene oxide: strategies for synthesis, reduction and frontier applications. 2016 , 6, 64993-65011	297
1379	Stretchable and Multimodal All Graphene Electronic Skin. 2016 , 28, 2601-8	385
1378	High-Performance Lithium-Sulfur Batteries with a Self-Supported, 3D Li ₂ S-Doped Graphene Aerogel Cathodes. 2016 , 6, 1501355	166

1377	Self-Construction from 2D to 3D: One-Pot Layer-by-Layer Assembly of Graphene Oxide Sheets Held Together by Coordination Polymers. 2016 , 55, 8426-30	84
1376	One-pot self-assembly and photoreduction synthesis of silver nanoparticle-decorated reduced graphene oxide/MIL-125(Ti) photocatalyst with improved visible light photocatalytic activity. 2016 , 30, 289-296	117
1375	Graphene/Metal Nanoparticle Hybrids: Electronic Interaction Between Graphene and Nanoparticles. 2016 , 69, 839-844	18
1374	Partially reduced graphene oxide as highly efficient DNA nanoprobe. 2016 , 80, 140-145	22
1373	Bead-curtain shaped SiC@SiO ₂ core-shell nanowires with superior electrochemical properties for lithium-ion batteries. 2016 , 190, 33-39	29
1372	Synthesis and characterization of Au-immobilized nanoparticles onto cellulose-ethylenediamine-grafted reduced graphite oxide sheets. 2016 , 171, 303-311	5
1371	Roles of hydrocarbon chain-length in preparing graphene oxide from mildly-oxidized graphite with intercalating anionic aliphatic surfactants. 2016 , 6, 14859-14867	4
1370	Electrical Properties of Graphene Oxide Layers Prepared by Material Inkjet Printing. 2016 , 674, 109-114	1
1369	Facile preparation of nitrogen-doped graphene scrolls via acoustic cavitation as electrocatalyst for glucose biosensing. 2016 , 20, 439-447	8
1368	Rapid thermal decomposition of confined graphene oxide films in air. <i>Carbon</i> , 2016 , 101, 71-76	10.4 52
1367	Two-dimensional layered nanomaterials for gas-sensing applications. 2016 , 3, 433-451	248
1366	Emerging trends in graphene carbon based polymer nanocomposites and applications. 2016 , 32,	40
1365	Temperature-Dependent Photoluminescence of Graphene Oxide. 2016 , 45, 379-385	10
1364	Influence of oxygen-containing groups on the photocatalytic properties of ZnO/graphene oxide composite. 2016 , 169, 172-175	8
1363	Scalable fabrication of micron-scale graphene nanomeshes for high-performance supercapacitor applications. 2016 , 9, 1270-1281	97
1362	Synthesis of a Ni _{0.8} Zn _{0.2} Fe ₂ O ₄ /RGO nanocomposite: an excellent magnetically separable catalyst for dye degradation and microwave absorber. 2016 , 6, 14090-14096	32
1361	Electrical conductive and graphitizable polymer nanofibers grafted on graphene nanosheets: Improving electrical conductivity and flame retardancy of polypropylene. 2016 , 84, 76-86	38
1360	Humidity sensor based on microfiber resonator with reduced graphene oxide. 2016 , 127, 3158-3161	25

1359	The influence of oxidation debris containing in graphene oxide on the adsorption and electrochemical properties of 1,10-phenanthroline-5,6-dione. 2016 , 141, 2761-6	10
1358	Solvent-Based Exfoliation via Sonication of Graphitic Materials for Graphene Manufacture. 2016 , 55, 845-855	43
1357	Core/shell structured C/ZnO nanoparticles composites for effective electromagnetic wave absorption. 2016 , 6, 6467-6474	84
1356	Direct synthesis of 2,5-diformylfuran from fructose with graphene oxide as a bifunctional and metal-free catalyst. 2016 , 18, 2302-2307	63
1355	Transparent and conductive hybrid graphene/carbon nanotube films. <i>Carbon</i> , 2016 , 100, 501-507	10.4 60
1354	Graphene Oxides Decorated with Carnosine as an Adjuvant To Modulate Innate Immune and Improve Adaptive Immunity in Vivo. 2016 , 10, 2203-13	61
1353	Anisotropic thermally conductive flexible films based on nanofibrillated cellulose and aligned graphene nanosheets. 2016 , 4, 305-314	144
1352	Nanocrystalline anatase TiO ₂ /reduced graphene oxide composite films as photoanodes for photoelectrochemical water splitting studies: the role of reduced graphene oxide. 2016 , 18, 2608-16	73
1351	Optimization and Doping of Reduced Graphene Oxide Silicon Solar Cells. 2016 , 120, 15648-15656	24
1350	Effects of Charging and Perpendicular Electric Field on Graphene Oxide. 2016 , 261-290	4
1349	Responsive materials based on magnetic polyelectrolytes and graphene oxide for water clean-up. 2016 , 464, 285-90	18
1348	Work Function Tuning of Reduced Graphene Oxide Thin Films. 2016 , 120, 281-290	98
1347	Graphene oxide-templated preferential growth of continuous MOF thin films. 2016 , 18, 4013-4017	17
1346	An investigation into the solar light-driven enhanced photocatalytic properties of a graphene oxide/g-NiO/TiO ₂ ternary nanocomposite. 2016 , 6, 32074-32088	31
1345	Improved photocatalytic activity of RGO/MoS ₂ nanosheets decorated on TiO ₂ nanoparticles. 2016 , 6, 31661-31667	39
1344	Reduced TiO ₂ -Graphene Oxide Heterostructure As Broad Spectrum-Driven Efficient Water-Splitting Photocatalysts. 2016 , 8, 8536-45	111
1343	One-step electrochemical synthesis of nitrogen and sulfur co-doped, high-quality graphene oxide. 2016 , 52, 5714-7	47
1342	Superior electrochemical properties of manganese dioxide/reduced graphene oxide nanocomposites as anode materials for high-performance lithium ion batteries. 2016 , 312, 207-215	48

1341	Ternary cooperative Au/CdS/GO hetero-nanostructures: synthesis with multi-interface control and their photoelectrochemical sensor applications. 2016 , 6, 30785-30790	10
1340	Synthesis of reduced graphene oxide intercalated ZnO quantum dots nanoballs for selective biosensing detection. 2016 , 376, 133-137	13
1339	Low-temperature thermal reduction of graphene oxide films in ambient atmosphere: Infra-red spectroscopic studies and gas sensing applications. 2016 , 159, 146-150	56
1338	Facile, single step synthesis of CdS/GO heterostructure and its photo enhanced field emission investigations. 2016 , 3, 035602	2
1337	Assembly of Graphene Oxide at the Crude Oil/Water Interface: A New Approach to Efficient Demulsification. 2016 , 30, 3355-3364	43
1336	A facile assembly of polyimide/graphene core-shell structured nanocomposites with both high electrical and thermal conductivities. 2016 , 84, 472-481	49
1335	Determination of some neurotransmitters at cyclodextrin/ionic liquid crystal/graphene composite electrode. 2016 , 199, 319-331	44
1334	Biocompatible multilayer capsules engineered with a graphene oxide derivative: synthesis, characterization and cellular uptake. 2016 , 8, 7501-12	32
1333	Electrochemical sensing of dopamine at the surface of a dopamine grafted graphene oxide/poly(methylene blue) composite modified electrode. 2016 , 6, 19982-19991	37
1332	Electrochemically reduced graphene oxide/carbon nanotubes composites as binder-free supercapacitor electrodes. 2016 , 311, 144-152	51
1331	Characterisation of graphene fibres and graphene coated fibres using capacitively coupled contactless conductivity detector. 2016 , 141, 2774-82	12
1330	Understanding Hydrothermally Reduced Graphene Oxide Hydrogels: From Reaction Products to Hydrogel Properties. 2016 , 28, 1756-1768	105
1329	Trouble Free Dopamine Sensing by Palladium Nanoparticles Fabricated Poly(3,4-ethylenedioxythiophene) Functionalized Graphene. 2016 , 163, B113-B118	24
1328	UV Reduced Graphene Oxide PEDOT:PSS Nanocomposite for Perovskite Solar Cells. 2016 , 15, 725-730	18
1327	Aqueous UV-VIS spectroelectrochemical study of the voltammetric reduction of graphene oxide on screen-printed carbon electrodes. 2016 , 64, 65-68	25
1326	Synthesis, characterization and enhanced photocatalytic CO ₂ reduction activity of graphene supported TiO ₂ nanocrystals with coexposed {001} and {101} facets. 2016 , 18, 13186-95	72
1325	Graphene-based materials with tailored nanostructures for energy conversion and storage. 2016 , 102, 1-72	189
1324	A review on the importance of surface coating of micro/nano-mold in micro/nano-molding processes. 2016 , 26, 013002	40

1323	Reversible wettability conversion of electrodeposited graphene oxide/titania nanocomposite coating: Investigation of surface structures. 2016 , 368, 409-416		42
1322	Boron/phosphorus doping for retarding the oxidation of reduced graphene oxide. <i>Carbon</i> , 2016 , 101, 152-158	10.4	67
1321	Minuscule weight percent of graphene oxide and reduced graphene oxide modified Ag ₃ PO ₄ : new insight into improved photocatalytic activity. 2016 , 40, 3370-3384		20
1320	A facile one-step route to synthesize the three-layer nanostructure of CuS/RGO/Ni ₃ S ₂ and its high electrochemical performance. 2016 , 6, 16963-16971		19
1319	Reduced graphene oxide nanoshells for flexible and stretchable conductors. 2016 , 27, 095301		6
1318	High-Quality Reduced Graphene Oxide by CVD-Assisted Annealing. 2016 , 120, 3036-3041		66
1317	Electrochemical characteristic of based on carbon mixed with organic metal complex (Co(mqph)) in alkaline media Li ⁺ battery. 2016 , 307, 474-480		2
1316	Photochemical reduction of graphene oxide (GO) by femtosecond laser irradiation. 2016 ,		0
1315	Surface characterization of graphene based materials. 2016 , 388, 696-703		7
1314	A modified molten-salt method to prepare graphene electrode with high capacitance and low self-discharge rate. <i>Carbon</i> , 2016 , 102, 255-261	10.4	66
1313	One-pot synthesis of Mn-doped TiO ₂ grown on graphene and the mechanism for removal of Cr(VI) and Cr(III). 2016 , 310, 188-98		82
1312	Catalyst-Free Growth of Three-Dimensional Graphene Flakes and Graphene/g-C ₃ N ₄ Composite for Hydrocarbon Oxidation. 2016 , 10, 3665-73		93
1311	Graphene Oxide and Lipid Membranes: Size-Dependent Interactions. 2016 , 32, 2708-17		30
1310	Supramolecular self-assembly of graphene oxide and metal nanoparticles into stacked multilayers by means of a multitasking protein ring. 2016 , 8, 6739-53		22
1309	Hierarchical composites of polypyrrole/graphene oxide synthesized by in situ intercalation polymerization for high efficiency and broadband responses of electromagnetic absorption. 2016 , 127, 71-78		48
1308	Enhancement of interfacial adhesion in glass fiber/epoxy composites by electrophoretic deposition of graphene oxide on glass fibers. 2016 , 126, 149-157		76
1307	Three-dimensional iron oxyhydroxide/reduced graphene oxide composites as advanced electrode for electrochemical energy storage. <i>Carbon</i> , 2016 , 103, 56-62	10.4	22
1306	An optimum method for uniform synthesis of zirconia on reduced graphene oxide. 2016 , 27, 728-733		6

1305	High-performance integrated field-effect transistor-based sensors. 2016 , 917, 1-18		24
1304	Few-layer graphene-like flakes derived by plasma treatment: A potential material for hydrogen adsorption and storage. 2016 , 225, 482-487		32
1303	The green reduction of graphene oxide. 2016 , 6, 27807-27828		159
1302	Silica-assisted bottom-up synthesis of graphene-like high surface area carbon for highly efficient ultracapacitor and Li-ion hybrid capacitor applications. 2016 , 4, 5578-5591		52
1301	Facile synthesise of free standing highly conducting flexible reduced graphene oxide paper. 2016 , 27, 6232-6241		21
1300	The observer effect in graphene oxide ¶How the standard measurements affect the chemical and electronic structure. <i>Carbon</i> , 2016 , 103, 235-241	10.4	18
1299	Preparation and characterization of semiconductor GNR-CNT nanocomposite and its application in FET. 2016 , 91, 170-181		3
1298	Self assembly of functionalised graphene nanostructures by one step reduction of graphene oxide using aqueous extract of <i>Artemisia vulgaris</i> . 2016 , 362, 221-229		24
1297	Nanocomposites of few-layer graphene oxide and alumina by density functional theory calculations. 2016 , 36, 719-724		10
1296	Synthesis and characterization of graphene and functionalized graphene via chemical and thermal treatment methods. 2016 , 6, 3578-3585		72
1295	The mechanism of direct laser writing of graphene features into graphene oxide films involves photoreduction and thermally assisted structural rearrangement. <i>Carbon</i> , 2016 , 99, 423-431	10.4	91
1294	New insights into the thermal reduction of graphene oxide: Impact of oxygen clustering. <i>Carbon</i> , 2016 , 100, 90-98	10.4	68
1293	Fabrication of SGO/Nafion-based IPMC soft actuators with sea anemone-like Pt electrodes and enhanced actuation performance. <i>Carbon</i> , 2016 , 100, 243-257	10.4	33
1292	Graphene/N-doped carbon sandwiched nanosheets with ultrahigh nitrogen doping for boosting lithium-ion batteries. 2016 , 4, 1423-1431		118
1291	One-pot facile fabrication of graphene-zinc oxide composite and its enhanced sensitivity for simultaneous electrochemical detection of ascorbic acid, dopamine and uric acid. 2016 , 227, 488-496		196
1290	Altering the structure and properties of iron oxide nanoparticles and graphene oxide/iron oxide composites by urea. 2016 , 364, 686-693		17
1289	A Highly Sensitive Immunosorbent Assay Based on Biotinylated Graphene Oxide and the Quartz Crystal Microbalance. 2016 , 8, 1893-902		38
1288	Metal-Organic Frameworks/Graphene Oxide Composite: A New Enzymatic Immobilization Carrier for Hydrogen Peroxide Biosensors. 2016 , 163, B32-B37		31

1287	Graphene Schottky diodes: An experimental review of the rectifying graphene/semiconductor heterojunction. 2016 , 606, 1-58		344
1286	Role of the intrinsic properties of partially reduced graphene oxides on the chemical transformation of iopromide. <i>Carbon</i> , 2016 , 99, 456-465	10.4	26
1285	Graphene oxide and graphene nanosheet reinforced aluminium matrix composites: Powder synthesis and prepared composite characteristics. 2016 , 94, 87-94		143
1284	Flexible polyurethane composites prepared by incorporation of polyethylenimine-modified slightly reduced graphene oxide. <i>Carbon</i> , 2016 , 98, 432-440	10.4	51
1283	Great-enhanced performance of Pt nanoparticles by the unique carbon quantum dot/reduced graphene oxide hybrid supports towards methanol electrochemical oxidation. 2016 , 303, 109-117		50
1282	Microwave-assisted synthesis of reduced graphene oxide/titania nanocomposites as an adsorbent for methylene blue adsorption. 2016 , 360, 840-848		83
1281	Ruthenium nanoparticles loaded on functionalized graphene for liquid-phase hydrogenation of fine chemicals: Comparison with carbon nanotube. 2016 , 333, 8-16		27
1280	Literature Review and Research Background. 2016 , 1-49		1
1279	Perspectives of Epoxy/Graphene Oxide Composite: Significant Features and Technical Applications. 2016 , 55, 704-722		37
1278	Effect of reduced graphene oxide content on the microstructure and mechanical properties of graphene/epolymer nanocomposites. 2016 , 42, 752-758		40
1277	Tuning the electrochemical reduction of graphene oxide: structural correlations towards the electrooxidation of nicotinamide adenine dinucleotide hydride. 2016 , 197, 194-199		17
1276	Active and regioselective rhodium catalyst supported on reduced graphene oxide for 1-hexene hydroformylation. 2016 , 6, 1162-1172		31
1275	Graphene reinforced UV-curable epoxy resins: Design, manufacture and material performance. 2016 , 90, 414-424		27
1274	Optimization of graphene production by exfoliation of graphite in supercritical ethanol: A response surface methodology approach. 2016 , 107, 92-105		49
1273	Morphology, thermal, mechanical, and barrier properties of graphene oxide/poly(lactic acid) nanocomposite films. 2016 , 33, 330-336		17
1272	Efficient removal of chlorophenols from water with a magnetic reduced graphene oxide composite. 2016 , 59, 350-359		12
1271	A new route to graphene starting from heavily ozonized fullerenes: Part 1 Thermal reduction under inert atmosphere. 2016 , 24, 52-61		12
1270	Graphene-based materials for electrochemical energy storage devices: Opportunities and challenges. 2016 , 2, 107-138		314

1269	Influence of graphene oxide on mechanical, morphological, barrier, and electrical properties of polymer membranes. 2016 , 9, 274-286	75
1268	A facile method to prepare reduced graphene oxide with a large pore volume. 2016 , 162, 154-156	15
1267	Preparation of hydrophobic reduced graphene oxide supported Ni-B-P-O and Co-B-P-O catalysts and their high hydrodeoxygenation activities. 2016 , 18, 984-988	25
1266	Preparation of the carboxylic acid-functionalized graphene oxide/gold nanoparticles/5-amino-2-hydroxybenzoic acid as a novel electrochemical sensing platform. 2016 , 147, 705-717	2
1265	Solution-processable rGO/Pt nanohybrids synthesized in an aqueous fructose solution for transparent and efficient dye-sensitized solar cells. 2016 , 283, 1285-1294	22
1264	Silica nanocrystal/graphene composite with improved photoelectric and photocatalytic performance. 2016 , 180, 106-112	25
1263	Tailoring physical properties of graphene: Effects of hydrogenation, oxidation, and grain boundaries by atomistic simulations. 2016 , 112, 527-546	12
1262	Thermal reduction of graphene-oxide-coated cotton for oil and organic solvent removal. 2017 , 216, 10-15	23
1261	2D nanomaterials based electrochemical biosensors for cancer diagnosis. 2017 , 89, 136-151	147
1260	Photocatalytic process in TiO ₂ /graphene hybrid materials. Evidence of charge separation by electron transfer from reduced graphene oxide to TiO ₂ . 2017 , 281, 29-37	88
1259	Self-propagating solar light reduction of graphite oxide in water. 2017 , 391, 601-608	19
1258	pH robust electrochemical detection of 4-nitrophenol on a reduced graphene oxide modified glassy carbon electrode. 2017 , 787, 80-87	48
1257	Solvent-Free Process to Produce Three Dimensional Graphene Network with High Electrochemical Stability. 2017 , 121, 3062-3069	11
1256	Optical properties of graphene oxide and reduced graphene oxide determined by spectroscopic ellipsometry. 2017 , 421, 778-782	65
1255	Reagent-Free Electrophoretic Synthesis of Few-Atom-Thick Metal Oxide Nanosheets. 2017 , 29, 1439-1446	12
1254	A comparative study on electromagnetic interference shielding behaviors of chemically reduced and thermally reduced graphene aerogels. 2017 , 492, 112-118	30
1253	Schottky behavior of reduced graphene oxide at various operating temperatures. 2017 , 6, 229-236	9
1252	Sol-gel derived Al-doped zinc oxide /Reduced graphene oxide nanocomposite thin films. 2017 , 699, 79-86	8

1251	Solar mediated reduction of graphene oxide. 2017 , 7, 957-963	69
1250	Photoelectric properties of graphene oxide/ZnO composite nanosheets vertically grown on substrate. 2017 , 699, 468-478	9
1249	Evidence for negative charge near large area supported graphene in water: A study of silica microsphere interactions. 2017 , 492, 15-24	2
1248	Nano-tribology studies of reduced graphene oxide films in air and in aqueous solutions with different pH values. 2017 , 32, 323-333	2
1247	Hydrophilic graphene surface prepared by electrochemically reduced micellar graphene oxide as a platform for electrochemical sensor. 2017 , 165, 692-701	30
1246	Reduced graphene oxide/liquid crystalline oligomer composites based on reversible covalent chemistry. 2017 , 19, 6082-6089	7
1245	Three-dimensional reduced graphene oxide foam modified with ZnO nanowires for enhanced microwave absorption properties. <i>Carbon</i> , 2017 , 116, 50-58	10.4 413
1244	Serigraphy-Guided Reduction of Graphene Oxide Biopapers for Wearable Sensory Electronics. 2017 , 27, 1604802	37
1243	Experimental Elucidation of a Graphenothermal Reduction Mechanism of Fe ₂ O ₃ : An Enhanced Anodic Behavior of an Exfoliated Reduced Graphene Oxide/Fe ₃ O ₄ Composite in Li-Ion Batteries. 2017 , 121, 3778-3789	26
1242	The role of graphene oxide and graphene oxide-based nanomaterials in the removal of pharmaceuticals from aqueous media: a review. 2017 , 24, 7938-7958	128
1241	Controllable Nanotribological Properties of Graphene Nanosheets. 2017 , 7, 41891	22
1240	Fabrication of PEDOT coated PVA-GO nanofiber for supercapacitor. 2017 , 192, 161-169	58
1239	Cerium(IV) oxide decorated on reduced graphene oxide, a selective and sensitive electrochemical sensor for fenitrothion determination. 2017 , 245, 980-987	56
1238	Graphene derivatives/Fe ₃ O ₄ /polymer nanocomposite films: Optical and electrical properties. 2017 , 193, 156-163	18
1237	An optimal reduction technique for rGO/ABS composites having high-end dynamic properties based on Cole-Cole plot, degree of entanglement and C-factor. 2017 , 114, 46-57	34
1236	High-performance Bi-stage process in reduction of graphene oxide for transparent conductive electrodes. 2017 , 64, 366-375	12
1235	Preparation and characterization of graphite oxide nano-reinforced biocomposites from chicken feather keratin. 2017 , 92, 2023-2031	20
1234	Mild and Efficient Synthesis of 5-(2,2-difluoro-1-phenyl cyclopropyl)-N-substituted-1,3,4-oxadiazol-2-amines via Graphene Oxide as Catalyst under Ultrasonic Irradiation Conditions. 2017 , 2, 356-363	5

1233	Polydopamine decoration on 3D graphene foam and its electromagnetic interference shielding properties. 2017 , 493, 327-333		67
1232	Methane gas sensing properties of Pd-doped SnO ₂ /reduced graphene oxide synthesized by a facile hydrothermal route. 2017 , 89, 161-169		77
1231	Fabrication of a gold nanocage/graphene nanoscale platform for electrocatalytic detection of hydrazine. 2017 , 245, 55-65		57
1230	Electrocoagulation driven fabrication of graphene oxide films. <i>Carbon</i> , 2017 , 116, 318-324	10.4	5
1229	Optimizing the free radical content of graphene oxide by controlling its reduction. <i>Carbon</i> , 2017 , 116, 703-712	10.4	35
1228	Preparation, characterization, and tribological properties of oleic diethanolamide-capped zinc borate-coated graphene oxide composites. 2017 , 705, 384-391		15
1227	CNT branching of three-dimensional steam-activated graphene hybrid frameworks for excellent rate and cyclic capabilities to store lithium ions. <i>Carbon</i> , 2017 , 116, 500-509	10.4	22
1226	Improved electrochemical performance of sandwich-like silver nanowires/graphene oxide nanostructure. 2017 , 47, 487-496		6
1225	UV-Assisted Photocatalytic Synthesis of ZnO-Reduced Graphene Oxide Nanocomposites with Enhanced Photocatalytic Performance in Degradation of Methylene Blue. 2017 , 6, M36-M43		28
1224	Nb ₂ O ₅ nanospheres/surface-modified graphene composites as superior anode materials in lithium ion batteries. 2017 , 43, 6232-6238		14
1223	Mild thermal reduction of graphene oxide as a lubrication additive for friction and wear reduction. 2017 , 7, 1766-1770		30
1222	Facile and effective oxidation of graphite using sodium metaperiodate. 2017 , 193, 305-308		14
1221	A mechanistic study on the carrier properties of nitrogen-doped graphene derivatives using thermoelectric effect. <i>Carbon</i> , 2017 , 117, 447-453	10.4	18
1220	Toward Graphene/Silicon Interface via Controlled Electrochemical Reduction of Graphene Oxide. 2017 , 121, 5675-5683		25
1219	Photo-catalytic reduction of oxygenated graphene dispersions for supercapacitor applications. 2017 , 50, 124003		11
1218	Sensitivity enhancement of graphene/zinc oxide nanocomposite-based electrochemical impedance genosensor for single stranded RNA detection. 2017 , 94, 365-373		36
1217	Multifunctional ZnO/Fe-O and graphene oxide nanocomposites: Enhancement of optical and magnetic properties. 2017 , 37, 3747-3758		6
1216	Multidimensional Thin Film Hybrid Electrodes with MoS ₂ Multilayer for Electrocatalytic Hydrogen Evolution Reaction. 2017 , 9, 8688-8695		33

1215	Modified chalcogens with a tuned nano-architecture for high energy density and long life hybrid super capacitors. 2017 , 5, 7523-7532	12
1214	Anodic Materials for Lithium-ion Batteries: TiO ₂ -rGO Composites for High Power Applications. 2017 , 230, 132-140	12
1213	Synthesis and electrochemical characterization of graphene nanoflakes and LiFe _{0.97} Ni _{0.03} PO ₄ /C for lithium-ion battery. 2017 , 23, 2641-2650	0
1212	Pyrite FeS ₂ microspheres anchoring on reduced graphene oxide aerogel as an enhanced electrode material for sodium-ion batteries. 2017 , 5, 5332-5341	100
1211	Exfoliation approach for preparing high conductive reduced graphite oxide and its application in natural rubber composites. 2017 , 218, 74-83	14
1210	Improving superconducting properties of YBCO high temperature superconductor by Graphene Oxide doping. 2017 , 193, 496-500	35
1209	Tailoring of graphite oxide electrical properties using laser irradiation. 2017 ,	
1208	Evaluation of reduced-graphene-oxide-supported gold nanoparticles as catalytic system for electroreduction of oxygen in alkaline electrolyte. 2017 , 233, 113-122	28
1207	Highly sensitive airflow sensors with an ultrathin reduced graphene oxide film inspired by gas exfoliation of graphite oxide. 2017 , 4, 383-388	14
1206	Electrochemically reduced graphene oxides/nanostructured iron oxides as binder-free electrodes for supercapacitors. 2017 , 231, 125-134	22
1205	GraphenePure Sulfur Sandwich Structure for Ultrafast, Long-Life Lithium-Sulfur Batteries. 2017 , 75-94	1
1204	Amino acid functionalized ZrO nanoparticles decorated reduced graphene oxide based immunosensor. 2017 , 5, 2019-2033	31
1203	Strong graphene-interlayered carbon nanotube films with high thermal conductivity. <i>Carbon</i> , 2017 , 118, 659-665	10.4 40
1202	Photoluminescence-based real-time monitoring of graphene oxide photoreduction: Demonstrations and application to graphene oxide/titanium dioxide composites. 2017 , 188, 129-134	4
1201	Graphene oxide prepared by graphene nanoplatelets and reduced by laser treatment. 2017 , 28, 224002	39
1200	Simultaneous Reduction and Functionalization of Graphene Oxide via Ritter Reaction. 2017 , 9, 14265-14272	27
1199	Continuous and catalyst free synthesis of graphene sheets in thermal plasma jet. 2017 , 322, 385-396	18
1198	Controllable embedding of sulfur in high surface area nitrogen doped three dimensional reduced graphene oxide by solution drop impregnation method for high performance lithium-sulfur batteries. 2017 , 353, 298-311	54

1197	Mobility and Bipolar Diffusion Charging Characteristics of Crumpled Reduced Graphene Oxide Nanoparticles Synthesized in a Furnace Aerosol Reactor. 2017 , 121, 10529-10537	11
1196	Dual modification of graphene by polymeric flame retardant and Ni(OH) ₂ nanosheets for improving flame retardancy of polypropylene. 2017 , 100, 106-117	221
1195	Probing the intrinsic active sites of modified graphene oxide for aerobic benzylic alcohol oxidation. 2017 , 211, 89-97	34
1194	Chemical reduction of graphene oxide using green reductants. <i>Carbon</i> , 2017 , 119, 190-199	10.4 334
1193	Role of oxygen functional groups in reduced graphene oxide for lubrication. 2017 , 7, 45030	241
1192	Preparation of porous graphene oxide by chemically intercalating a rigid molecule for enhanced removal of typical pharmaceuticals. <i>Carbon</i> , 2017 , 119, 101-109	10.4 32
1191	Exploring molecular and spin interactions of Tellurium adatom in reduced graphene oxide. 2017 , 195, 82-87	5
1190	Graphene: a promising 2D material for electrochemical energy storage. 2017 , 62, 724-740	140
1189	Graphene directed architecture of fine engineered nanostructures with electrochemical applications. 2017 , 242, 202-218	20
1188	Fabrics coated with hot-iron-treated graphene oxide for a self-cleaning and mechanically robust water/oil separation material. 2017 , 7, 25796-25802	9
1187	Enhancing the electrical conductivity of vacuum-ultraviolet-reduced graphene oxide by multilayered stacking. 2017 , 35, 03D110	5
1186	A Strategy for Preparing Modified Graphene Oxide with Good Dispersibility and Transparency in Oil. 2017 , 56, 5527-5534	32
1185	High areal capacity of Li-S batteries enabled by freestanding CNF/rGO electrode with high loading of lithium polysulfide. 2017 , 241, 406-413	35
1184	Reconciled Nanoarchitecture with Overlapped 2 D Anatomy for High-Energy Hybrid Supercapacitors. 2017 , 5, 1919-1926	3
1183	Tuning the plasmon resonance and work function of laser-scribed chemically doped graphene. <i>Carbon</i> , 2017 , 120, 44-53	10.4 14
1182	Carbon nanowalls: A new material for resistive switching memory devices. <i>Carbon</i> , 2017 , 120, 54-62	10.4 30
1181	Graphene for the development of the next-generation of biocomposites for dental and medical applications. 2017 , 33, 765-774	72
1180	Synergic bactericidal effects of reduced graphene oxide and silver nanoparticles against Gram-positive and Gram-negative bacteria. 2017 , 7, 1591	90

1179	Fabrication of Graphene/TiO ₂ /Paraffin Composite Phase Change Materials for Enhancement of Solar Energy Efficiency in Photocatalysis and Latent Heat Storage. 2017 , 5, 4906-4915	83
1178	Robust and Flexible Aramid Nanofiber/Graphene Layer-by-Layer Electrodes. 2017 , 9, 17125-17135	67
1177	Reinforcing nanomedicine using graphene family nanomaterials. 2017 , 255, 218-230	34
1176	Voltage dependent reduction rates of graphene oxide in cell culture medium, deionized water, and an ionic liquid. 2017 , 47, 66-71	
1175	Enhanced mechanical, thermal, and electric properties of graphene aerogels via supercritical ethanol drying and high-temperature thermal reduction. 2017 , 7, 1439	77
1174	Interfacial Growth of TiO-rGO Composite by Pickering Emulsion for Photocatalytic Degradation. 2017 , 33, 5015-5024	43
1173	Graphene oxide-carbon nanotube hybrid assemblies: cooperatively strengthened OH/O	26
1172	Porous copper-graphene heterostructures for cooling of electronic devices. 2017 , 9, 7565-7569	13
1171	Ultra-thin 2D layers anchored exfoliated reduced graphene oxide nanosheet hybrid as a highly efficient cocatalyst for CdS nanorods towards enhanced photocatalytic hydrogen production. 2017 , 212, 7-14	145
1170	Graphene oxide membranes for nanofiltration. 2017 , 16, 9-15	75
1169	Multi-porous Co ₃ O ₄ nanoflakes @ sponge-like few-layer partially reduced graphene oxide hybrids: towards highly stable asymmetric supercapacitors. 2017 , 5, 12569-12577	83
1168	Material chemistry of graphene oxide-based nanocomposites for theranostic nanomedicine. 2017 , 5, 6451-6470	32
1167	Nearly white light photoluminescence from ZnO/rGO nanocomposite prepared by a one-step hydrothermal method. 2017 , 715, 122-128	21
1166	Sandwich-like Structure of Carbon Fluoride/Graphene Oxide/Polyacrylonitrile Cathode for Lithium and Sodium Batteries. 2017 , 4, 436-440	5
1165	Hydrothermal synthesis of reduced graphene oxide-LiNi _{0.5} Mn _{1.5} O ₄ composites as 5 V cathode materials for Li-ion batteries. 2017 , 52, 2858-2867	8
1164	Flexible high-energy asymmetric supercapacitors based on MnO@C composite nanosheet electrodes. 2017 , 5, 804-813	42
1163	Ambient pressure photoelectron spectroscopy: Practical considerations and experimental frontiers. 2017 , 29, 053002	51
1162	Graphene-modified copper chromate as the anode of ultrafast rechargeable Li-ion batteries. 2017 , 52, 2131-2141	3

1161	Enhanced gas barrier properties of graphene-TiO ₂ nanocomposites on plastic substrates assisted by UV photoreduction of graphene oxide. 2017 , 48, 323-329	9
1160	How Oxygen-Containing Groups on Graphene Influence the Antibacterial Behaviors. 2017 , 4, 1700228	39
1159	Amperometric nitrite sensor based on free-standing carbon nanotube/methylene blue composite paper. 2017 , 23, 3507-3516	8
1158	Laser-Assisted Nanowelding of Graphene to Metals: An Optical Approach toward Ultralow Contact Resistance. 2017 , 4, 1700294	11
1157	Influence of the Reduction of Graphene Oxide with Hydroiodic Acid on the Structure and Photoactivity of CdSe/GO Hybrids. 2017 , 60, 1183-1195	8
1156	One-Step Synthesis of Dicyanobenzene-Derived Nitrogen-Doped Porous Carbon Monolayers: Porosity and Near-infrared Photoactivity. 2017 , 9, 4043-4048	8
1155	Enhanced performance of microbial fuel cell with in situ preparing dual graphene modified bioelectrode. 2017 , 241, 735-742	34
1154	Cost-effective fabrication of graphene-like nanosheets from natural microcrystalline graphite minerals by liquid oxidation/reduction method. 2017 , 7, 32008-32019	11
1153	Electrochemical Exfoliation of Graphite in Aqueous Sodium Halide Electrolytes toward Low Oxygen Content Graphene for Energy and Environmental Applications. 2017 , 9, 24085-24099	74
1152	Graphene coated piezo-resistive fabrics for liquid composite molding process monitoring. 2017 , 148, 106-114	41
1151	Azo dyes degradation using TiO ₂ -Pt/graphene oxide and TiO ₂ -Pt/reduced graphene oxide photocatalysts under UV and natural sunlight irradiation. 2017 , 70, 13-20	57
1150	Effect of graphite/sodium nitrate ratio and reaction time on the physicochemical properties of graphene oxide. 2017 , 32, 174-187	18
1149	High-yield ball-milling synthesis of extremely concentrated and highly conductive graphene nanoplatelet inks for rapid surface coating of diverse substrates. <i>Carbon</i> , 2017 , 120, 411-418	10.4 25
1148	Fabrication of a transparent conducting electrode based on graphene/silver nanowires via layer-by-layer method for organic photovoltaic devices. 2017 , 505, 79-86	23
1147	Flexible Lithium-Ion Fiber Battery by the Regular Stacking of Two-Dimensional Titanium Oxide Nanosheets Hybridized with Reduced Graphene Oxide. 2017 , 17, 3543-3549	119
1146	Room-temperature methane gas sensing properties based on in situ reduced graphene oxide incorporated with tin dioxide. 2017 , 5, 11131-11142	29
1145	Recent Developments in Electrocatalysts and Hybrid Electrocatalyst Support Systems for Polymer Electrolyte Fuel Cells. 2017 , 197-239	3
1144	An ultralight and highly compressible anode for Li-ion batteries constructed from nitrogen-doped carbon wrapped Fe ₃ O ₄ nanoparticles confined in a porous 3D nitrogen-doped graphene network. 2017 , 326, 151-161	28

1143	Unveiling the mechanism of electron transfer facilitated regeneration of active Fe ²⁺ by nano-dispersed iron/graphene catalyst for phenol removal. 2017 , 7, 26983-26991	23
1142	Synthesis and characterization of sulfophenyl-functionalized reduced graphene oxide sheets. 2017 , 7, 27224-27234	215
1141	Research and development of the method of graphene oxide thin films local reduction by modulated laser irradiation. 2017 , 816, 012014	4
1140	Novel PVDF membranes comprising n-butylamine functionalized graphene oxide for direct contact membrane distillation. 2017 , 539, 34-42	78
1139	Synthesis of rGO/PS compound with sandwich structure on Ni foam as binder-free electrode for supercapacitor. 2017 , 10, 1750032	7
1138	Controllable reduction of graphene oxide and its application during the fabrication of high dielectric constant composites. 2017 , 420, 390-398	36
1137	The new nanocarriers based on graphene and graphene oxide for drug delivery applications. 2017 , 107-147	8
1136	Copper-graphene oxide composite coatings for corrosion protection of mild steel in 3.5% NaCl. 2017 , 636, 107-115	59
1135	A facile synthesis method for highly water-dispersible reduced graphene oxide based on covalently linked pyridinium salt. <i>Carbon</i> , 2017 , 121, 17-24	10.4 9
1134	Simple and rapid differentiation of toxic gases using a quartz crystal microbalance sensor array coupled with principal component analysis. 2017 , 263, 1-7	19
1133	Multimode microsensors based on Ag ₃ SiO ₂ @graphene materials used for the molecular recognition of carcinoembryonic antigen in whole blood samples. 2017 , 7, 28419-28426	6
1132	Thin, High-Flux, Self-Standing, Graphene Oxide Membranes for Efficient Hydrogen Separation from Gas Mixtures. 2017 , 23, 11416-11422	18
1131	Rh/Ni wet-impregnated Ia3d mesostructured aluminosilicate and r-GO catalysts for hydrodeoxygenation of phenoxybenzene. 2017 , 41, 7893-7907	12
1130	A facile and green preparation of reduced graphene oxide using Eucalyptus leaf extract. 2017 , 422, 469-474	55
1129	A versatile graphene foil. 2017 , 5, 14508-14513	16
1128	Anisotropy of functional properties of SiC composites with GNPs, GO and in-situ formed graphene. 2017 , 37, 3731-3739	26
1127	Laser-assisted synthesis, reduction and micro-patterning of graphene: Recent progress and applications. 2017 , 342, 34-79	174
1126	Nano-bio compatibility of PEGylated reduced graphene oxide on mesenchymal stem cells. 2017 , 4, 025066	13

1125	Stability, transport and ecosystem effects of graphene in water and soil environments. 2017 , 9, 5370-5388	56
1124	Plasma surface modification of materials and their entrapment of water contaminant: A review. 2017 , 14, 1600218	33
1123	Polyoxometalate-enabled photoreduction of graphene oxide to bioinspired nacre-like composite films for supercapacitor electrodes. 2017 , 121, 75-82	33
1122	Incorporation of dielectric constituents to construct ternary heterojunction structures for high-efficiency electromagnetic response. 2017 , 498, 161-169	66
1121	Graphene oxide supported chlorostannate (IV) ionic liquid: Brønsted-Lewis acidic combined catalyst for highly efficient Baeyer-Villiger oxidation in water. 2017 , 433, 37-47	8
1120	Informing rational design of graphene oxide through surface chemistry manipulations: properties governing electrochemical and biological activities. 2017 , 19, 2826-2838	19
1119	Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials. 2017 , 121, 34-57	108
1118	Role of Oxygen Functionalities in Graphene Oxide Architectural Laminate Subnanometer Spacing and Water Transport. 2017 , 51, 4280-4288	53
1117	A facile way to produce epoxy nanocomposites having excellent thermal conductivity with low contents of reduced graphene oxide. 2017 , 52, 7323-7344	54
1116	Preparation of a reduced graphene oxide/SiO ₂ /Fe ₃ O ₄ UV-curing material and its excellent microwave absorption properties. 2017 , 7, 18172-18177	20
1115	Effect of carbon derivatives in sulfonated poly(etherimide)-liquid crystal polymer composite for methanol vapor sensing. 2017 , 28, 205501	6
1114	Different Synthesis Process of Carbon Nanomaterials for Biological Applications. 2017 , 1-41	3
1113	Hydrothermally synthesized reduced graphene oxide and Sn doped manganese dioxide nanocomposites for supercapacitors and dopamine sensors. 2017 , 4, 66-74	32
1112	Segregated Hybrid Poly(methyl methacrylate)/Graphene/Magnetite Nanocomposites for Electromagnetic Interference Shielding. 2017 , 9, 14171-14179	222
1111	Spatially Resolved in Situ Reaction Dynamics of Graphene via Optical Microscopy. 2017 , 139, 5836-5841	11
1110	Graphene oxide layers modified by light energetic ions. 2017 , 19, 10282-10291	34
1109	Fabrication of 3D structures from graphene-based biocomposites. 2017 , 5, 3462-3482	25
1108	Graphene/Polymer Nanocomposites for Supercapacitors. 2017 , 3, 362-372	30

1107	Low temperature welding of graphene on PET with silver nanoparticles producing higher durable electro-conductive fabric. <i>Carbon</i> , 2017 , 118, 443-451	10.4	51
1106	Graphene derivatives in responsive hydrogels: Effect of concentration and surface chemistry. 2017 , 93, 717-725		6
1105	Electrical characterization of reduced graphene oxide (rGO) on organic thin film transistor (OTFT). 2017 ,		
1104	Recent advances and energy-related applications of high quality/chemically doped graphenes obtained by electrochemical exfoliation methods. 2017 , 5, 7228-7242		54
1103	Graphene based biosensors Accelerating medical diagnostics to new-dimensions. 2017 , 32, 2860-2882		71
1102	Conversion of p to n-type reduced graphene oxide by laser annealing at room temperature and pressure. 2017 , 121, 125303		44
1101	Rheological and physical characterization of PEDOT: PSS/graphene oxide nanocomposites for perovskite solar cells. 2017 , 57, 546-552		19
1100	Photocatalytic performance of CuO-loaded TiO ₂ /rGO nanoheterojunctions obtained by UV reduction. 2017 , 52, 6754-6766		31
1099	Crosslinked Polypyrrole Grafted Reduced Graphene Oxide-Sulfur Nanocomposite Cathode for High Performance Li-S Battery. 2017 , 235, 32-41		45
1098	Effect of reduction time on third order optical nonlinearity of reduced graphene oxide. 2017 , 66, 460-468		31
1097	Facile synthesis of N-doped porous carbon encapsulated bimetallic PdCo as a highly active and durable electrocatalyst for oxygen reduction and ethanol oxidation. 2017 , 5, 10876-10884		73
1096	Supramolecular Assembly of 1D Pristine Carbon Nanotubes and 2D Graphene Oxides into Macroscopic All-Carbon Hybrid Sponges for High-Energy-Density Supercapacitors. 2017 , 3, 447-453		10
1095	Electrochemical Synthesis and Characterization of Flavin Mononucleotide-Exfoliated Pristine Graphene/Polypyrrole Composites. 2017 , 4, 1487-1497		6
1094	Stability, thermal conductivity, and rheological properties of controlled reduced graphene oxide dispersed nanofluids. 2017 , 119, 132-139		55
1093	Effect of surface functional groups on hydrogen adsorption properties of Pd dispersed reduced graphene oxide. 2017 , 42, 8032-8041		26
1092	Methane dissociation process in inductively coupled Ar/H ₂ /CH ₄ plasma for graphene nano-flakes production. 2017 , 110, 093109		18
1091	Study of structural and optical properties of low temperature photo-activated ZnO-rGO composite thin film. 2017 , 91, 227-231		8
1090	Flexible and Thermostable Graphene/SiC Nanowire Foam Composites with Tunable Electromagnetic Wave Absorption Properties. 2017 , 9, 11803-11810		231

1089	Producing large-area, foldable graphene paper from graphite oxide suspensions by in-situ chemical reduction process. <i>Carbon</i> , 2017 , 114, 424-434	10.4	36
1088	A Review on Design Strategies for Carbon Based Metal Oxides and Sulfides Nanocomposites for High Performance Li and Na Ion Battery Anodes. 2017 , 7, 1601424		389
1087	Graphene oxide membranes supported on the ceramic hollow fibre for efficient H ₂ recovery. 2017 , 25, 752-759		31
1086	Differential cytotoxicity and internalization of graphene family nanomaterials in myocardial cells. 2017 , 73, 633-642		24
1085	Graphene in electrocatalyst and proton conductiong membrane in fuel cell applications: An overview. 2017 , 69, 862-870		76
1084	Polypyrrole composites with carbon materials for supercapacitors. 2017 , 71, 293-316		30
1083	Safe growth of graphene from non-flammable gas mixtures via chemical vapor deposition. 2017 , 33, 285-290		3
1082	Green and Mild Oxidation: An Efficient Strategy toward Water-Dispersible Graphene. 2017 , 9, 2856-2866		18
1081	Formation of NiO nanoparticle-attached nanographitic flake layers deposited by pulsed electrophoretic deposition for ethanol electro-oxidation. 2017 , 698, 571-576		13
1080	A Facile Reduction Method for Roll-to-Roll Production of High Performance Graphene-Based Transparent Conductive Films. 2017 , 29, 1605028		54
1079	Ion transport through thermally reduced and mechanically stretched graphene oxide membrane. <i>Carbon</i> , 2017 , 114, 377-382	10.4	32
1078	Influence of Graphene Reduction and Polymer Cross-Linking on Improving the Interfacial Properties of Multilayer Thin Films. 2017 , 9, 1107-1118		14
1077	Pyridinic nitrogen-rich carbon nanocapsules from a bioinspired polydopamine derivative for highly efficient electrocatalytic oxygen reduction. 2017 , 5, 519-523		24
1076	Graphene-family nanomaterials in wastewater treatment plants. 2017 , 313, 121-135		91
1075	Photovoltaic and impedance spectroscopic characteristics of heterojunction of graphene-PEDOT:PSS composite and n-silicon prepared via solution-based process. 2017 , 21, 263-268		2
1074	Graphene/Graphene Oxide-Based Ultrasensitive Surface Plasmon Resonance Biosensor. 2017 , 12, 1991-1997		18
1073	Reactivity-Controlled Preparation of Ultralarge Graphene Oxide by Chemical Expansion of Graphite. 2017 , 29, 564-572		72
1072	Enhanced thermal stability of reduced graphene oxide-Silicon Schottky heterojunction solar cells via nitrogen doping. 2017 , 59, 45-49		11

1071	Influence of the reduction of graphene oxide (rGO) on the structure and photoactivity of CdS-rGO hybrid systems. 2017 , 42, 13691-13703	21
1070	Solvent-driven responsive bilayer membranes of clay and graphene oxide. 2017 , 5, 3523-3533	26
1069	Ozonization, Amination and Photoreduction of Graphene Oxide for Triiodide Reduction Reaction: An Experimental and Theoretical Study. 2017 , 226, 10-17	4
1068	Platinum adsorption onto graphene and oxidized graphene: A quantum mechanics study. 2017 , 190, 17-24	5
1067	Microencapsulated Phase Change Materials in Solar-Thermal Conversion Systems: Understanding Geometry-Dependent Heating Efficiency and System Reliability. 2017 , 11, 721-729	78
1066	Versatile self-assembled graphene oxide membranes obtained under ambient conditions by using a water-ethanol suspension. 2017 , 5, 2132-2142	18
1065	Graphene oxide directed in-situ synthesis of Prussian blue for non-enzymatic sensing of hydrogen peroxide released from macrophages. 2017 , 72, 692-700	22
1064	Au nanoparticles decorated reduced graphene oxide/layered double hydroxide modified glassy carbon as a sensitive sensor for electrocatalytic determination of phenazopyridine. 2017 , 99, 90-97	9
1063	Appropriate conditions for preparing few-layered graphene oxide and reduced graphene oxide. 2017 , 25, 40-46	10
1062	Progress in 3D Printing of Carbon Materials for Energy-Related Applications. 2017 , 29, 1603486	291
1061	Incorporation of polydimethylsiloxane with reduced graphene oxide and zinc oxide for tensile and electrical properties. 2017 ,	2
1060	Anisotropic electrical conductivity in polymer derived ceramics induced by graphene aerogels. 2017 , 5, 11708-11716	19
1059	Efficiency enhancement in inverted planar perovskite solar cells by synergetic effect of sulfated graphene oxide (sGO) and PEDOT:PSS as hole transporting layer. 2017 , 7, 50410-50419	15
1058	Electrochemical Deposition of Protein-conjugated Graphene by Pulse Reverse Technique. 2017 , 38, 1398-1404	
1057	Encapsulation of Lithium Vanadium Phosphate in Reduced Graphene Oxide for a Lithium-ion Battery Cathode with Stable Elevated Temperature Performance. 2017 , 253, 208-217	10
1056	A Multivariate Curve Resolution evaluation of an in-situ ATR-FTIR spectroscopy investigation of the electrochemical reduction of graphene oxide. 2017 , 255, 160-167	16
1055	Robust three-dimensional graphene skeleton encapsulated Na ₃ V ₂ O ₂ (PO ₄) ₂ F nanoparticles as a high-rate and long-life cathode of sodium-ion batteries. 2017 , 41, 452-459	78
1054	Reduced graphene oxide for Pt-free counter electrodes of dye-sensitized solar cells. 2017 , 158, 42-48	22

1053	Magnetic graphene for microwave absorbing application: Towards the lightest graphene-based absorber. <i>Carbon</i> , 2017 , 125, 630-639	10.4	133
1052	Functional chemically modified graphene film: microstructure and electrical transport behavior. 2017 , 50, 435101		13
1051	Photoluminescence of Reduced Graphene Oxide Prepared from Old Coconut Shell with Carbonization Process at Varying Temperatures. 2017 , 196, 012005		7
1050	Biobased Nanographene Oxide Creates Stronger Chitosan Hydrogels with Improved Adsorption Capacity for Trace Pharmaceuticals. 2017 , 5, 11525-11535		36
1049	The study of the interactions between graphene and Ge(001)/Si(001). 2017 , 10, 3648-3661		20
1048	All inkjet-printed graphene-based conductive patterns for wearable e-textile applications. 2017 , 5, 11640-11648		50
1047	Design of 3D Graphene-Oxide Spheres and Their Derived Hierarchical Porous Structures for High Performance Supercapacitors. 2017 , 13, 1702474		34
1046	Construction of a 3D multiple network skeleton by the thiol-Michael addition click reaction to fabricate novel polymer/graphene aerogels with exceptional thermal conductivity and mechanical properties. 2017 , 5, 22352-22360		29
1045	Pyrene-Functionalized PTMA by NRC for Greater H ₂ Stacking with rGO and Enhanced Electrochemical Properties. 2017 , 9, 34900-34908		47
1044	Surfactant-free synthesis of a nanoporated graphene/nitrogen-doped carbon nanotube composite for supercapacitors. 2017 , 5, 22607-22617		10
1043	The impact of adsorption on the localization of spins in graphene oxide and reduced graphene oxide, observed with electron paramagnetic resonance. 2017 , 111, 084102		17
1042	Improving thermal and flame retardant properties of epoxy resin by functionalized graphene containing phosphorous, nitrogen and silicon elements. 2017 , 103, 74-83		114
1041	Facile spectroscopic approach to obtain the optoelectronic properties of few-layered graphene oxide thin films and their role in photocatalysis. 2017 , 41, 14217-14227		26
1040	Influence of the reduction strategy in the synthesis of reduced graphene oxide. 2017 , 28, 3195-3203		64
1039	Tea-Carbon Dots-Reduced Graphene Oxide: An Efficient Conducting Coating Material for Fabrication of an E-Textile. 2017 , 5, 11645-11651		22
1038	Metal-Organic Frameworks Derived Nanocomposites of Mixed-Valent MnOx Nanoparticles In-Situ Grown on Ultrathin Carbon Sheets for High-Performance Supercapacitors and Lithium-Ion Batteries. 2017 , 256, 63-72		26
1037	Understanding the reaction mechanism of the reactivity of free radicals with graphene oxide. 2017 , 9, 201-205		
1036	Tuning the aggregation of graphene oxide dispersions to synthesize elastic, low density graphene aerogels. 2017 , 5, 23123-23130		34

1035	Synthesis and reduction of large sized graphene oxide sheets. 2017 , 46, 7306-7316	166
1034	Nanostructure and Volatile Organic Compounds Sensing Properties of Fe_2O_3 /Reduced Graphene Oxide Nanocomposite Derived by Spray Method. 2017 , 46, 6834-6842	3
1033	Pt nanocrystals electrodeposited on reduced graphene oxide/carbon fiber paper with efficient electrocatalytic properties. 2017 , 27, 452-459	3
1032	Synthesis of Core/Shell ZnO/rGO Nanoparticles by Calcination of ZIF-8/rGO Composites and Their Photocatalytic Activity. 2017 , 2, 4946-4954	51
1031	Evolution of the Raman Spectrum with the Chemical Composition of Graphene Oxide. 2017 , 121, 20489-20497	194
1030	Physical properties of nanometer graphene oxide films partially and fully reduced by annealing in ultra-high vacuum. 2017 , 122, 075301	11
1029	Effect of a sulfur and nitrogen dual-doped FeNiS electrocatalyst for the oxygen reduction reaction. 2017 , 5, 19790-19799	41
1028	Pt skin coated hollow Ag-Pt bimetallic nanoparticles with high catalytic activity for oxygen reduction reaction. 2017 , 365, 17-25	19
1027	Changes in physical properties of graphene oxide with thermal reduction. 2017 , 71, 156-160	10
1026	Simultaneous reduction and functionalization of graphene oxide via antioxidant for highly aging resistant and thermal conductive elastomer composites. 2017 , 151, 156-163	38
1025	Direct reform of graphite oxide electrodes by using ambient plasma for supercapacitor applications. 2017 , 686, 49-54	8
1024	Capacitive Properties of the Binder-Free Electrode Prepared from Carbon Derived from Cotton and Reduced Graphene Oxide. 2017 , 35, 1844-1852	4
1023	Graphene-Based Hole-Selective Layers for High-Efficiency, Solution-Processed, Large-Area, Flexible, Hydrogen-Evolving Organic Photocathodes. 2017 , 121, 21887-21903	22
1022	Mechanical enhancement of copper matrix composites with homogeneously dispersed graphene modified by silver nanoparticles. 2017 , 729, 293-302	45
1021	Electrochemically exfoliated graphene as a novel microwave susceptor: the ultrafast microwave-assisted synthesis of carbon-coated silicon-graphene film as a lithium-ion battery anode. 2017 , 9, 15582-15590	26
1020	Mussel-inspired electroactive chitosan/graphene oxide composite hydrogel with rapid self-healing and recovery behavior for tissue engineering. <i>Carbon</i> , 2017 , 125, 557-570	10.4 184
1019	Artificial solid electrolyte interphase for aqueous lithium energy storage systems. 2017 , 3, e1701010	68
1018	Effect of reduced graphene oxide (rGO) on corrosion and erosion-corrosion behaviour of electroless Ni-P coatings. 2017 , 390-391, 385-391	44

1017	Hybrid Copper-Nanowire-Reduced-Graphene-Oxide Coatings: A "Green Solution" Toward Highly Transparent, Highly Conductive, and Flexible Electrodes for (Opto)Electronics. 2017 , 29, 1703225	54
1016	Improving the Alkene Selectivity of Nanocarbon-Catalyzed Oxidative Dehydrogenation of n-Butane by Refinement of Oxygen Species. 2017 , 7, 7305-7311	21
1015	Production of water-dispersible reduced graphene oxide without stabilizers using liquid-phase photoreduction. 2017 , 13, 8353-8356	14
1014	Molecular dynamic simulation of mechanical behaviour of RGO produced by thermal reduction method. 2017 , 12, 638-642	3
1013	A Catalytic Microwave Process for Superfast Preparation of High-Quality Reduced Graphene Oxide. 2017 , 129, 15883-15888	13
1012	A Catalytic Microwave Process for Superfast Preparation of High-Quality Reduced Graphene Oxide. 2017 , 56, 15677-15682	60
1011	High-performance asymmetric supercapacitor with ultrahigh energy density based on hierarchical graphene sheets@NiO core-shell nanosheets and 3D drilled graphene sheets hydrogel. 2017 , 727, 1189-1202	11
1010	Reduced graphene oxide preparation and its applications in solution-processed write-once-read-many-times graphene-based memory device. <i>Carbon</i> , 2017 , 124, 547-554	10.4 22
1009	Synthesis of highly dispersed and versatile anatase TiO ₂ nanocrystals on graphene sheets with enhanced photocatalytic performance for dye degradation. 2017 , 28, 18883-18890	7
1008	Completely Green Approach for the Preparation of Strong and Highly Conductive Graphene Composite Film by Using Nanocellulose as Dispersing Agent and Mechanical Compression. 2017 , 5, 9102-9113	61
1007	Covalent Functionalization of Graphene by Nucleophilic Addition Reaction: Synthesis and Optical-Limiting Properties. 2017 , 12, 2583-2590	12
1006	Flexible carbon nanofiber mats with improved graphitic structure as scaffolds for efficient all-solid-state supercapacitor. 2017 , 247, 1060-1071	22
1005	Mechanical properties of graphene and graphene-based nanocomposites. 2017 , 90, 75-127	1091
1004	Graphene oxide-metal nanocomposites for cancer biomarker detection. 2017 , 7, 35982-35991	21
1003	Thermally evolved and boron bridged graphene oxide (GO) frameworks constructed on microporous hollow fiber substrates for water and organic matters separation. <i>Carbon</i> , 2017 , 123, 193-204	10.4 17
1002	Diamond Lapping of Sapphire Wafer with Addition of Graphene in Slurry. 2017 , 184, 156-162	9
1001	Correlations between preparation methods, structural features and electrochemical Li-storage behavior of reduced graphene oxide. 2017 , 9, 11303-11317	25
1000	Few-layer-graphene with high yield and low sheet resistance via mild oxidation of natural graphite. 2017 , 7, 35717-35723	4

- 999 Graphene-Based Biosensors and Their Applications in Biomedical and Environmental Monitoring. **2017**, 261-290 9
- 998 Elucidation of siRNA complexation efficiency by graphene oxide and reduced graphene oxide. *Carbon*, **2017**, 122, 643-652 10.4 21
- 997 Fabrication of TiO-Reduced Graphene Oxide Nanorod Composition Spreads Using Combinatorial Hydrothermal Synthesis and Their Photocatalytic and Photoelectrochemical Applications. **2017**, 19, 585-593 18
- 996 Photoreduction Dependent p- and n-Type Semiconducting Field-Effect Transistor Properties in Undoped Reduced Graphene Oxide. **2017**, 2, 6941-6944 6
- 995 Micropatterning of reduced graphene oxide by meniscus-guided printing. *Carbon*, **2017**, 123, 364-370 10.4 14
- 994 Graphene- gold based nanocomposites applications in cancer diseases; Efficient detection and therapeutic tools. **2017**, 139, 349-366 18
- 993 Facile and Scalable One-Step Method for Amination of Graphene Using Leuckart Reaction. **2017**, 29, 6698-6705 24
- 992 How exfoliated graphene oxide nanosheets organize at the water interface: evidence for a spontaneous bilayer self-assembly. **2017**, 9, 12543-12548 12
- 991 Responsivity improvement of Si-based NIR photodetector using reduced Graphene Oxide. **2017**, 4
- 990 Mineral liquid crystals. **2017**, 79, 421-450 6
- 989 Unusual Mesoporous Carbonaceous Matrix Loading with Sulfur as the Cathode of Lithium Sulfur Battery with Exceptionally Stable High Rate Performance. **2017**, 9, 28366-28376 16
- 988 Graphene and graphene oxide for biosensing. **2017**, 148, 1937-1944 6
- 987 Improving thermal conductivity of styrene-butadiene rubber composites by incorporating mesoporous silica@solvothermal reduced graphene oxide hybrid nanosheets with low graphene content. **2017**, 150, 174-180 27
- 986 The effect of reduced graphene oxide on the catalytic activity of Cu₂Cr₂O₇/TiO₂ to enhance the thermal decomposition rate of ammonium perchlorate: an efficient fuel oxidizer for solid rocket motors and missiles. **2017**, 7, 36594-36604 24
- 985 Electrochemical reduction and electric conductivity of graphene oxide films. **2017**, 53, 721-727 5
- 984 Direct laser writing of micro-supercapacitors on thick graphite oxide films and their electrochemical properties in different liquid inorganic electrolytes. **2017**, 507, 271-278 61
- 983 Interface-Confined High Crystalline Growth of Semiconducting Polymers at Graphene Fibers for High-Performance Wearable Supercapacitors. **2017**, 11, 9424-9434 75
- 982 Graphene-based composite electrodes for electrochemical energy storage devices: Recent progress and challenges. **2017**, 6, 48-76 22

- 981 A combustion synthesis route for magnetically separable graphene oxide/CuFe₂O₄/ZnO nanocomposites with enhanced solar light-mediated photocatalytic activity. **2017**, 41, 10568-10583 49
- 980 MAPLE synthesis of reduced graphene oxide/silver nanocomposite electrodes: Influence of target composition and gas ambience. **2017**, 726, 1003-1013 9
- 979 Two-stepped reduction of graphene oxide for improved electrical conductivity for sensor applications. **2017**, 11, 10568-10583 49
- 978 Fiber-reinforced three-dimensional graphene aerogels for electrically conductive epoxy composites with enhanced mechanical properties. **2017**, 35, 1381-1390 11
- 977 Coassembly Kinetics of Graphene Oxide and Block Copolymers at the Water/Oil Interface. **2017**, 33, 8961-8969 17
- 976 Hydrophobic, Flexible, and Lightweight MXene Foams for High-Performance Electromagnetic-Interference Shielding. **2017**, 29, 1702367 903
- 975 Magnetic, electrically conductive and lightweight graphene/iron pentacarbonyl porous films enhanced with chitosan for highly efficient broadband electromagnetic interference shielding. **2017**, 151, 71-78 38
- 974 Manipulation and Quantification of Graphene Oxide Flake Size: Photoluminescence and Cytotoxicity. **2017**, 9, 28911-28921 43
- 973 A review of flexible lithium-sulfur and analogous alkali metal-chalcogen rechargeable batteries. **2017**, 46, 5237-5288 461
- 972 PPh₃ functionalized Rh/rGO catalyst for heterogeneous hydroformylation: Bifunctional reduction of graphene oxide by organic ligand. **2017**, 330, 863-869 17
- 971 Modification of thermally reduced graphene oxide by the SF₆/Ar plasma treatment. **2017**, 8, 763-768 1
- 970 All-Graphene-Based Highly Flexible Noncontact Electronic Skin. **2017**, 9, 44593-44601 63
- 969 Effects of Amino-Functionalized Graphene Oxide on the Mechanical and Thermal Properties of Polyoxymethylene. **2017**, 56, 15038-15048 10
- 968 Copper-embedded reduced graphene oxide fibers for multi-sensors. **2017**, 5, 12825-12832 14
- 967 Structural, optical, and electrical characteristics of graphene nanosheets synthesized from microwave-assisted exfoliated graphite. **2017**, 122, 185105 21
- 966 Charge transport in graphene oxide. **2017**, 17, 38-53 20
- 965 Electrocatalytic phenol degradation by a novel nanostructured carbon fiber brush cathode coated with graphene ink. **2017**, 258, 607-617 40
- 964 Oxygen Containing Functional Groups Dominate the Electrochemiluminescence of Pristine Carbon Dots. **2017**, 121, 27546-27554 21

963	Engineering reduced graphene oxides with enhanced electrochemical properties through multiple-step reductions. 2017 , 258, 735-743	28
962	Graphene oxide electrochemistry: the electrochemistry of graphene oxide modified electrodes reveals coverage dependent beneficial electrocatalysis. 2017 , 4, 171128	47
961	Selectivity Tuning of Graphene Oxide Based Reliable Gas Sensor Devices by Tailoring the Oxygen Functional Groups: A DFT Study Based Approach. 2017 , 17, 738-745	21
960	Facile Construction of 3D Reduced Graphene Oxide Wrapped Ni ₃ S ₂ Nanoparticles on Ni Foam for High-Performance Asymmetric Supercapacitor Electrodes. 2017 , 34, 1700196	27
959	Preparation and characterization of graphene oxide based membranes as possible Gas Diffusion Layers for PEM fuel cells with enhanced surface homogeneity. 2017 , 4, 11594-11607	1
958	Application of Nanocarbon Materials to Catalysis. 2017 , 37-56	3
957	Temperature-time dependent transmittance, sheet resistance and bonding energy of reduced graphene oxide on soda lime glass. 2017 , 425, 558-563	13
956	Synthesis of reduced graphene oxide (rGO) films onto carbon steel by cathodic electrophoretic deposition: Anticorrosive coating. <i>Carbon</i> , 2017 , 122, 266-275	10.4 40
955	RGO/TPU composite with a segregated structure as thermal interface material. 2017 , 101, 108-114	44
954	Chemical vapor deposition of partially oxidized graphene. 2017 , 7, 32209-32215	3
953	Partial reduction of graphene oxide upon intercalation into exfoliated manganese thiophosphate. 2017 , 97, 2484-2495	3
952	Effect of interfacial features on the mechanical and electrical properties of rGO/Al composites. 2017 , 52, 12001-12012	10
951	In-situ reduced graphene oxide-polyvinyl alcohol composite coatings as protective layers on magnesium substrates. 2017 , 27, 326-328	13
950	Uniform high current and current density field emission from the chiseled edge of a vertically aligned graphene-based thin film. 2017 , 31, 2064-2073	8
949	Low-temperature fabrication of 3D drilled graphene sheets hydrogel for supercapacitors with ultralong cycle life. 2017 , 684, 290-297	2
948	Occurrence of photoluminescence and onion like structures decorating graphene oxide with europium using sodium dodecyl sulfate surfactant. 2017 , 4, 075006	1
947	Carbon Nano-Onions as a Functional Dopant to Modify Hole Transporting Layers for Improving Stability and Performance of Planar Perovskite Solar Cells. 2017 , 247, 548-557	40
946	How Reliable Are Raman Spectroscopy Measurements of Graphene Oxide?. 2017 , 121, 16584-16591	22

945	Distinct Chemical and Physical Properties of Janus Nanosheets. 2017 , 11, 7485-7493	61
944	Tailoring pores in graphene-based materials: from generation to applications. 2017 , 5, 16537-16558	74
943	Electrical and mechanical properties of poly(dopamine)-modified copper/reduced graphene oxide composites. 2017 , 52, 11620-11629	39
942	Effect of defect-healing in graphene nanosheets on the mechanical properties of polyimide nanocomposites. <i>Carbon</i> , 2017 , 122, 614-621	10.4 24
941	Effect of graphene oxide nanosheets and ultrasonic electrodeposition technique on NiMo/graphene oxide composite coatings. 2017 , 199, 239-248	26
940	3D graphene-encapsulated hierarchical urchin-like Fe ₃ O ₄ porous particles with enhanced lithium storage properties. 2017 , 327, 678-685	27
939	Graphene-based materials for capacitive deionization. 2017 , 5, 13907-13943	189
938	Development of High Performance Electrochemical and Physical Biosensors Based on Chemically Modified Graphene Nanostructured Electrodes. 2017 , 164, B391-B396	14
937	Graphene for flame-retarding elastomeric composite foams having strong interface. 2017 , 101, 254-264	24
936	Thermodynamic, electronic, and optical properties of graphene oxide: A statistical ab initio approach. 2017 , 95,	14
935	Preparation and microwave absorbing properties of graphene oxides/ferrite composites. 2017 , 123, 1	21
934	Effect of carbonaceous support between graphite oxide and reduced graphene oxide with anchored Co ₃ O ₄ microspheres as electrode-active materials in a solid-state electrochemical capacitor. 2017 , 21, 975-985	7
933	In situ emulsion cationic polymerization of isoprene onto the surface of graphite oxide sheets. 2017 , 396, 902-911	9
932	Fabrication of chemiresistive gas sensors based on multistep reduced graphene oxide for low parts per million monitoring of sulfur dioxide at room temperature. 2017 , 242, 461-468	64
931	Evolution, structure, and electrical performance of voltage-reduced graphene oxide. 2017 , 1, 42-51	24
930	General overview of graphene: Production, properties and application in polymer composites. 2017 , 215, 9-28	210
929	Acoustic cavitation induced generation of stabilizer-free, extremely stable reduced graphene oxide nanodispersion for efficient delivery of paclitaxel in cancer cells. 2017 , 36, 129-138	39
928	Emerging Approaches for Graphene Oxide Biosensor. 2017 , 89, 232-248	84

927	Supercritical fluid preparation of Pt, Ru and Ni/graphene nanocomposites and their application as selective catalysts in the partial hydrogenation of limonene. 2017 , 120, 7-17	24
926	Thermally induced modification of the graphene oxide film on the tantalum surface. 2017 , 113, 319-325	25
925	A non-enzymatic amperometric hydrogen peroxide sensor based on iron nanoparticles decorated reduced graphene oxide nanocomposite. 2017 , 487, 370-377	55
924	Thermally reduced graphene oxide film on soda lime glass as transparent conducting electrode. 2017 , 309, 931-937	19
923	Substrate-Induced Synthesis of Nitrogen-Doped Holey Graphene Nanocapsules for Advanced Metal-Free Bifunctional Electrocatalysts. 2017 , 34, 1600207	15
922	Systematic study on structural and electronic properties of diamine/triamine functionalized graphene networks for supercapacitor application. 2017 , 31, 183-193	99
921	Environmentally-friendly conductive cotton fabric as flexible strain sensor based on hot press reduced graphene oxide. <i>Carbon</i> , 2017 , 111, 622-630	10.4 231
920	Facile electrochemical approach for the production of graphite oxide with tunable chemistry. <i>Carbon</i> , 2017 , 112, 185-191	10.4 48
919	Structural and thermal stability of graphene oxide-silica nanoparticles nanocomposites. 2017 , 695, 2054-2064	25
918	Hydrothermal reduction of graphene oxide; effect on surface-enhanced Raman scattering. 2017 , 48, 97-103	50
917	Preparation of compatibilizer with large specific surface and its application in immiscible polymer blends with ultra-high molecular weight. 2017 , 57, 335-344	2
916	Highly conductive reduced graphene oxide transparent ultrathin film through joule-heat induced direct reduction. 2017 , 28, 1419-1427	9
915	NiCo bimetallic nanoparticles anchored reduced graphene oxide as an efficient counter electrode for the application of dye sensitized solar cells. 2017 , 28, 823-831	9
914	A benign ultrasonic route to reduced graphene oxide from pristine graphite. 2017 , 486, 337-343	68
913	Recent progress in the hydrophilic modification of alumina membranes for protein separation and purification. 2017 , 43, 915-925	43
912	The effect of graphene oxide on UV curing kinetics and properties of SU8 nanocomposites. 2017 , 66, 405-417	12
911	Decomposition of acetaminophen in water by a gas phase dielectric barrier discharge plasma combined with TiO ₂ -rGO nanocomposite: Mechanism and degradation pathway. 2017 , 323, 719-729	63
910	Comparison of the homemade and commercial graphene in heightening mechanical properties of Al ₂ O ₃ ceramic. 2017 , 43, 2143-2149	13

909	Synthesis of scalable and tunable slightly oxidized graphene via chemical vapor deposition. 2017 , 490, 844-849	19
908	Novel Preparation of Calcium Borate/Graphene Oxide Nanocomposites and Their Tribological Properties in Oil. 2017 , 26, 285-291	6
907	Electrocatalytic hydrogen evolution reaction on nano-nickel decorated graphene electrode. 2017 , 119, 872-878	35
906	Enhanced mechanical properties, water stability and repeatable shape recovery behavior of Ca ²⁺ + crosslinking graphene oxide-based nacre-mimicking hybrid film. 2017 , 115, 46-51	24
905	Chemical surface modification of graphene oxide by femtosecond laser pulse irradiation in aqueous suspensions. 2017 , 52, 749-759	4
904	Bimetallic AuPt alloy nanodendrites/reduced graphene oxide: One-pot ionic liquid-assisted synthesis and excellent electrocatalysis towards hydrogen evolution and methanol oxidation reactions. 2017 , 42, 1120-1129	43
903	Synthesis and tribological behaviour of oleic acid-capped lanthanum borate/graphene oxide nanocomposites. 2017 , 29, 59-70	7
902	Improving the activity of rutile titanium dioxide with reduced graphene oxide. 2017 ,	
901	Synthesis and Characterization of Graphene Oxide (GO) and Reduced Graphene Oxide (rGO) for Gas Sensing Application. 2017 , 376, 1700006	134
900	Modifications in physiochemical property of engineered graphene oxide by nanomaterials resistant bacteria. 2017 , 4, 8792-8795	
899	Review on effects of hydrazine hydrate and L-ascorbic acid on electrical conductivity of graphene. 2017 ,	1
898	Synthesis of graphene oxide thin film and effect of electron beam irradiation. 2017 ,	5
897	Tunable degree of oxidation through variation of H ₂ O ₂ concentration and its effect on structural, optical and supercapacitive properties of graphene oxide powders synthesized using improved method. 2017 , 13, 26-35	9
896	Asymmetric dual grating gate bilayer graphene FET for detection of terahertz radiation. 2017 ,	
895	Intercalated water in multi-layered graphene oxide paper: an X-ray scattering study. 2017 , 50, 876-884	5
894	2. Controlled Functionalization of Graphene by Oxo-addends. 2017 ,	1
893	5. Chemical Functionalization of Graphene Family Members. 2017 ,	1
892	. 2017 ,	20

891	Electrical and optical properties of reduced graphene oxide thin film deposited onto polyethylene terephthalate by spin coating technique. 2017 , 56, 7774-7780	11
890	Reduced graphene oxide wrapped on microfiber and its light-control-light characteristics. 2017 , 25, 5415-5425	8
889	Few Layer Reduced Graphene Oxide: Evaluation of the Best Experimental Conditions for Easy Production. 2017 , 20, 53-61	43
888	Structure, Mechanical and Electrochemical Properties of Thermally Reduced Graphene Oxide-poly (Vinyl Alcohol) Foams. 2017 ,	1
887	Synthesis of graphene-transition metal oxide hybrid nanoparticles and their application in various fields. 2017 , 8, 688-714	76
886	Three-dimensional patterned graphene oxide-quantum dot microstructures via two-photon crosslinking. 2017 , 42, 4970-4973	3
885	Effect of Graphite Nanoplate Morphology on the Dispersion and Physical Properties of Polycarbonate Based Composites. 2017 , 10,	21
884	Simple Technique of Exfoliation and Dispersion of Multilayer Graphene from Natural Graphite by Ozone-Assisted Sonication. 2017 , 7,	36
883	Reduced Graphene Oxides: Influence of the Reduction Method on the Electrocatalytic Effect towards Nucleic Acid Oxidation. 2017 , 7,	29
882	Oil Palm Waste-Based Precursors as a Renewable and Economical Carbon Sources for the Preparation of Reduced Graphene Oxide from Graphene Oxide. 2017 , 7,	32
881	Rubber nanocomposites with graphene as the nanofiller. 2017 , 179-229	10
880	Optical Fibre Sensors Using Graphene-Based Materials: A Review. 2017 , 17,	71
879	Fabrication of Janus graphene hybrids with controlled structure and high stability. 2017 , 13, 139	1
878	S- and N-Doped Graphene Nanomaterials for the Oxygen Reduction Reaction. 2017 , 7, 278	31
877	Recent Advances in Graphene Based TiO ₂ Nanocomposites (GTiO ₂ Ns) for Photocatalytic Degradation of Synthetic Dyes. 2017 , 7, 305	92
876	Electrodeposited Reduced Graphene Oxide Films on Stainless Steel, Copper, and Aluminum for Corrosion Protection Enhancement. 2017 , 2017, 1-8	11
875	Physical Properties Investigation of Reduced Graphene Oxide Thin Films Prepared by Material Inkjet Printing. 2017 , 2017, 1-8	28
874	Iron-Based Nanomaterials/Graphene Composites for Advanced Electrochemical Sensors. 2017 , 7,	29

873	Green Routes for Graphene Oxide Reduction and Self- Assembled Graphene Oxide Micro- and Nanostructures Production. 2017 ,	
872	Reduced Graphene OxideBased Microsupercapacitors. 2017 ,	1
871	Upcycling Waste Lard Oil into Vertical Graphene Sheets by Inductively Coupled Plasma Assisted Chemical Vapor Deposition. 2017 , 7,	14
870	Enhanced Reduction of Few-Layer Graphene Oxide via Supercritical Water Gasification of Glycerol. 2017 , 7,	11
869	Chemical Functionalization of Graphene Family Members. 2017 , 2,	9
868	Discovery of graphene and beyond. 2017 , 1-15	3
867	The Grafting of PE-g-MA Chains on Graphene Derivatives to Improve Tensile Properties of Polyethylene. 2017 , 32, 623-636	4
866	Controlled Functionalization of Graphene by Oxo-addends. 2017 , 2,	2
865	Photoredox catalysis over graphene aerogel-supported composites. 2018 , 6, 4590-4604	149
864	Characteristics tuning of graphene-oxide-based-graphene to various end-uses. 2018 , 14, 8-21	31
863	Enhancing the electricity generation and sludge reduction of sludge microbial fuel cell with graphene oxide and reduced graphene oxide. 2018 , 186, 104-112	9
862	Shear Rheology Control of Wrinkles and Patterns in Graphene Oxide Films. 2018 , 34, 2996-3002	11
861	Fast and controlled fabrication of porous graphene oxide: application of AFM tapping for mechano-chemistry. 2018 , 29, 185301	3
860	Doped, Defect-Enriched Carbon Nanotubes as an Efficient Oxygen Reduction Catalyst for Anion Exchange Membrane Fuel Cells. 2018 , 5, 1800184	29
859	Achieving tunability of effective electromagnetic wave absorption between the whole X-band and Ku-band via adjusting PPy loading in SiC nanowires/graphene hybrid foam. <i>Carbon</i> , 2018 , 132, 430-443	10.4 91
858	Monolithic Crystalline Swelling of Graphite Oxide: A Bridge to Ultralarge Graphene Oxide with High Scalability. 2018 , 30, 1888-1897	26
857	Exfoliation of graphite in various electrolytes and preparation of graphene films via electrochemical approach. 2018 , 50, 1	6
856	Complementary design of nano-carbon/magnetic microwire hybrid fibers for tunable microwave absorption. <i>Carbon</i> , 2018 , 132, 486-494	10.4 75

855	Interfacial design and strengthening mechanisms of AZ91 alloy reinforced with in-situ reduced graphene oxide. 2018 , 138, 215-228	36
854	Magnetic Dipole Resonance and Coupling Effects Directly Enhance the Raman Signals of As-Grown Graphene on Copper Foil by over One Hundredfold. 2018 , 30, 1472-1483	3
853	Impact of Edge Groups on the Hydration and Aggregation Properties of Graphene Oxide. 2018 , 122, 2578-2586	11
852	Thermally reduced graphene oxide/polymelamine formaldehyde nanocomposite as a high specific capacitance electrochemical supercapacitor electrode. 2018 , 6, 6045-6053	15
851	Single-Step Laser-Assisted Graphene Oxide Reduction and Nonlinear Optical Properties Exploration via CW Laser Excitation. 2018 , 47, 2871-2879	17
850	Tunable electronic, electrical and optical properties of graphene oxide sheets by ion irradiation. 2018 , 29, 185701	12
849	Highly selective and sensitive chemoresistive humidity sensors based on rGO/MoS2 van der Waals composites. 2018 , 6, 5016-5024	84
848	Influence of reduced graphene oxide on the growth, structure and decomposition activity of white-rot fungus .. 2018 , 8, 5026-5033	19
847	Graphene Materials in Antimicrobial Nanomedicine: Current Status and Future Perspectives. 2018 , 7, e1701406	130
846	Ultrafast hydrothermal assembly of nanocarbon microfibers in near-critical water for 3D microsupercapacitors. <i>Carbon</i> , 2018 , 132, 698-708	10.4 20
845	Investigation of amino-grafted TiO/reduced graphene oxide hybrids as a novel photocatalyst used for decomposition of selected organic dyes. 2018 , 212, 395-404	25
844	Effect of Reduced Graphene Oxide Reinforcement on the Wear Characteristics of Electroless Ni-P Coatings. 2018 , 27, 3044-3053	8
843	Simultaneous reduction and sulfonation of graphene oxide for efficient hole selectivity in polymer solar cells. 2018 , 18, 599-610	11
842	High-rate, long cycle-life Li-ion battery anodes enabled by ultrasmall tin-based nanoparticles encapsulation. 2018 , 14, 169-178	26
841	Front-End-of-Line Integration of Graphene Oxide for Graphene-Based Electrical Platforms. 2018 , 3, 1700318	11
840	Experimental and computational investigation of reduced graphene oxide nanoplatelets stabilized in poly(styrene sulfonate) sodium salt. 2018 , 53, 10049-10058	13
839	Large amplitude oscillatory shear behavior of graphene derivative/polydimethylsiloxane nanocomposites. 2018 , 57, 429-443	14
838	Effects of nanoparticle-enhanced phase change material (NPCM) on solar still productivity. 2018 , 192, 9-29	119

837	Radiation effects of IR laser on graphene oxide irradiated in vacuum and in air. 2018 , 153, 122-131	32
836	Performance and mechanism of direct As(III) removal from aqueous solution using low-pressure graphene oxide-coated membrane. 2018 , 72, 2363-2373	12
835	Optimization of SnO ₂ Nanoparticles Confined in a Carbon Matrix towards Applications as High-Capacity Anodes in Sodium-Ion Batteries. 2018 , 3, 4015-4022	9
834	Ordered Mesoporous Carbons Loading on Sulfonated Graphene by Multi-Components Co-Assembly for Supercapacitor Applications. 2018 , 6, 1975-1985	4
833	Enhanced TiO nanorods photocatalysts with partially reduced graphene oxide for degrading aqueous hazardous pollutants. 2018 , 25, 17553-17564	6
832	Highly stable graphene-oxide-based membranes with superior permeability. 2018 , 9, 1486	278
831	Wetting of water on graphene nanopowders of different thicknesses. 2018 , 112, 151606	16
830	Covalent functionalization of graphene oxide with d-mannose: evaluating the hemolytic effect and protein corona formation. 2018 , 6, 2803-2812	37
829	Unique reduced graphene oxide as efficient anode material in Li ion battery. 2018 , 41, 1	7
828	Electrochemical alternative to obtain reduced graphene oxide by pulse potential: Effect of synthesis parameters and study of corrosion properties. 2018 , 88, 167-188	8
827	Functionalized Graphene Nanosheets with Fewer Defects Prepared via Sodium Alginate Assisted Direct Exfoliation of Graphite in Aqueous Media for Lithium-Ion Batteries. 2018 , 1, 1985-1994	10
826	Engineering of highly conductive and ultra-thin nitrogen-doped graphene films by combined methods of microwave irradiation, ultrasonic spraying and thermal annealing. 2018 , 338, 764-773	21
825	Evidence of Ion-Beam-Induced Annealing in Graphene Oxide Films Using in Situ X-Ray Diffraction and Spectroscopy Techniques. 2018 , 122, 9632-9640	12
824	Graphene oxide layers modified by irradiation with 1.2 MeV He ⁺ ions. 2018 , 342, 220-225	15
823	Observation of anomalous transport characteristics in graphene-oxide thinfilm. 2018 , 213, 89-94	6
822	Morphology controlled graphene-alloy nanoparticle hybrids with tunable carbon monoxide conversion to carbon dioxide. 2018 , 10, 8840-8850	4
821	A Novel Nanocomposite with Superior Antibacterial Activity: A Silver-Based Metal Organic Framework Embellished with Graphene Oxide. 2018 , 5, 1701365	64
820	Terahertz generation from reduced graphene oxide. <i>Carbon</i> , 2018 , 134, 439-447	10.4 5

819	A comparative study of mechanical, thermal and electrical properties of graphene-, graphene oxide- and reduced graphene oxide-doped microfibrillated cellulose nanocomposites. 2018 , 147, 104-113	87
818	Laser-Reduced Graphene: Synthesis, Properties, and Applications. 2018 , 3, 1700315	63
817	Review on synthesis of 3D graphene-based configurations and their adsorption performance for hazardous water pollutants. 2018 , 116, 262-286	77
816	Tuning active sites on cobalt/nitrogen doped graphene for electrocatalytic hydrogen and oxygen evolution. 2018 , 265, 497-506	40
815	Experimental investigation of the effects of different liquid environments on the graphene oxide produced by laser ablation method. 2018 , 103, 155-162	16
814	Self-supporting CoO/Graphene Hybrid Films as Binder-free Anode Materials for Lithium Ion Batteries. 2018 , 8, 3182	41
813	The effect of oxygen-containing functional groups on the H ₂ adsorption of graphene-based nanomaterials: experiment and theory. 2018 , 43, 5668-5679	15
812	Graphene oxide @ nickel phosphate nanocomposites for photocatalytic hydrogen production. 2021 , 6, 100105	1
811	Degradation of aqueous methylparaben by non-thermal plasma combined with ZnFeO-rGO nanocomposites: Performance, multi-catalytic mechanism, influencing factors and degradation pathways. 2021 , 271, 129575	5
810	Conducting materials as building blocks for electronic textiles. 2021 , 46, 491-501	6
809	Graphene-based pressure sensor and strain sensor for detecting human activities.	4
808	Wide-Range and High-Stability Flexible Conductive Graphene/Thermoplastic Polyurethane Foam for Piezoresistive Sensor Applications. 2021 , 6, 2100248	12
807	Interfacial charge-transfer for robust Raman quenching in staggered band aligned n-SnS ₂ /p-rGO heterostructures. 2021 , 550, 149356	5
806	High-Speed Blow Spinning of Neat Graphene Fibrous Materials. 2021 , 21, 5116-5125	8
805	The Effect of Graphene Oxide Exfoliation Degree on Graphene Film Properties.	
804	Recovery and Reuse of Anode Graphite from Spent Lithium-Ion Batteries via Citric Acid Leaching. 2021 , 4, 6261-6268	12
803	Graphene oxide incorporated waste wool/PAN hybrid fibres. 2021 , 11, 12068	7
802	Flexible Graphene-Channel Memory Devices: A Review. 2021 , 4, 6542-6556	4

801	Modeling of H ₂ O, H ₂ O ₂ , and H ₂ O ₃ formation mechanisms on graphene oxide (GO) surfaces. <i>Carbon</i> , 2021 , 177, 252-259	10.4
800	The Influence of Substrate Functionalization for Enhancing the Interfacial Bonding between Graphene Oxide and Nonwoven Polyester. 2021 , 22, 3192	4
799	Photonic split-second induced mesoporous TiO ₂ -Graphene architectures for efficient sodium-ion batteries. <i>Carbon</i> , 2021 , 178, 332-344	10.4 9
798	Enhanced ammonia sensing properties of rGO/WS ₂ heterojunction based chemiresistive sensor by marginal sulfonate decoration. 2021 , 337, 129776	10
797	Tuning the graphene oxide chemistry by excimer formation: The stabilization of electron/hole pair on sp ² surface. 2021 , 414, 113266	0
796	Construction of NiCo/graphene nanocomposite coating with bulges-like morphology for enhanced mechanical properties and corrosion resistance performance. 2021 , 867, 159138	30
795	Luminescence spectra of reduced graphene oxide obtained by different initial heat treatments under microwave irradiation. 2021 , 116, 108388	2
794	Antibacterial Activity of Polymer Nanocomposites Incorporating Graphene and Its Derivatives: A State of Art. 2021 , 13,	7
793	Porous graphene-based electrodes: Advances in electrochemical sensing of environmental contaminants. 2021 , 30, e00120	16
792	Transfer-free graphene synthesis by nickel catalyst dewetting using rapid thermal annealing. 2021 , 555, 149492	2
791	Si-doped graphene nanosheets as a metal-free catalyst for electrochemical detection of nitroaromatic explosives. 2021 , 594, 848-856	3
790	Mechanical Strength of Graphene Reinforced Geopolymer Nanocomposites: A Review. 2021 , 8,	2
789	Glycol-Thermal Continuous Flow Synthesis of Graphene Gel. 2021 , 6, 18663-18667	
788	A two-step thermal treatment method to produce reduced graphene oxide with selectively increasing electrochemically active carbonyl group content for high-performance supercapacitor electrode. 2021 , 620, 126573	8
787	Using graphene networks to build SiC(rGO, Gx) bulk ceramics from polymeric precursors. 2021 , 47, 18466-18476	
786	A Novel Method for the Detection of SARS-CoV-2 Based on Graphene-Impedimetric Immunosensor. 2021 , 14,	8
785	Ozone detection in the ppt-level with rGO-ZnO based sensor. 2021 , 338, 129779	6
784	A review on the current research on graphene-based aerogels and their applications. 2021 , 4, 100065	11

783	Intercalation of N-doped graphene into graphene oxide-based membranes to improve their overall nanofiltration performance. 2021 , 775, 138657	2
782	Synthesis and Characterization of WO ₃ /GO Nanocomposites for Antimicrobial Properties. 1	1
781	Exploration of the temperature-dependent correlations present in the structural, morphological and electrical properties of thermally reduced free-standing graphene oxide papers. 2021 , 56, 15134-15150	4
780	Universal Fluorination-Created Edge C-F Groups in Networks of Multidimensional Carbon Materials. 2021 , 12, 7026-7033	0
779	Ammonia modified graphene oxide \square Gold nanoparticles composite as a substrate for surface enhanced Raman spectroscopy. 2021 , 554, 149060	4
778	Ball-type phthalocyanines and reduced graphene oxide nanoparticles as separate and combined corrosion inhibitors of aluminium in HCl. 2021 , 1236, 130279	6
777	Li-ion conducting glass ceramic (LICGC)/reduced graphene oxide sandwich-like structure composite for high-performance lithium-ion batteries. 2021 , 500, 229976	4
776	Recent Strategies on Hybrid Inorganic-Graphene Materials for Enhancing the Electrocatalytic Activity Towards Heavy Metal Detection. 1	1
775	Correlation of the Graphene Fermi-Level Shift and the Enhanced Electrochemical Performance of Graphene-Manganese Phosphate for Hybrid Supercapacitors: Raman Spectroscopy Analysis. 2021 , 13, 37014-37026	0
774	Hydrothermal Synthesis of MoS ₂ /rGO Heterostructures for Photocatalytic Degradation of Rhodamine B under Visible Light. 2021 , 2021, 1-11	2
773	TiO ₂ as a gas sensor: The novel carbon structures and noble metals as new elements for enhancing sensitivity \square A review. 2021 , 47, 17844-17876	14
772	Fabrication of ZrO ₂ /rGO nanocomposites by flash sintering under AC electric fields. 2021 , 104, 6079	0
771	Lateral size effect of reduced graphene oxide on properties of copper matrix composites. 2021 , 820, 141579	2
770	A simple and efficient method to prepare exfoliated and reduced graphene nanosheets by vacuum oven. 2021 , 36, 3031-3040	
769	Electroanalytical overview: utilising micro- and nano-dimensional sized materials in electrochemical-based biosensing platforms. 2021 , 188, 268	12
768	Modeling of Laser Assisted Thermal Reduction of Graphene Oxide. 2021 ,	
767	Antibacterial electroconductive rGO modified cotton fabric. 2021 , 32, 3975-3981	0
766	3D printing of reduced graphene oxide aerogels for energy storage devices: A paradigm from materials and technologies to applications. 2021 , 39, 146-165	22

765	Fabrication of a Sensitive and Stable NiO Uric Acid Biosensor Using Ag Nanowires and Reduced Graphene Oxide. 2021 , 14, 4696	0
764	Insight into the Real Efficacy of Graphene for Enhancing Photocatalytic Efficiency: A Case Study on CVD Graphene-TiO ₂ Composites. 2021 , 4, 8755-8764	2
763	A critical review on thermal conductivity enhancement of graphene-based nanofluids. 2021 , 294, 102452	21
762	Microwave-assisted thin reduced graphene oxide-cobalt oxide nanoparticles as hybrids for electrode materials in supercapacitor. 2021 , 40, 102724	35
761	Spectroscopic Analyses of Changes in Photocatalytic and Catalytic Activities of Mn- and Ni-Ion Doped and Base-Treated Reduced Graphene Oxide. 2021 , 11, 990	0
760	Edge-Rich Reduced Graphene Oxide Embedded in Silica-Based Laminated Ceramic Composites for Efficient and Robust Electrocatalytic Hydrogen Evolution.. 2021 , 5, e2100621	0
759	Green synthesis of reduced graphene oxide-CoFe ₂ O ₄ nanocomposite as a highly efficient visible-light-driven catalyst in photocatalysis and photo Fenton-like reaction. 2021 , 270, 115223	2
758	Metal Cation-Modified Graphene Oxide as Precursor for Advanced Materials: Thin Films of Graphene/Prussian Blue Analogues. 2021 , 2021, 3373-3384	1
757	Electrical Properties and Strain Sensing Mechanisms in Hybrid Graphene Nanoplatelet/Carbon Nanotube Nanocomposites. 2021 , 21,	3
756	Graphene oxide synthesis using a top-down approach and discrete characterization techniques: a holistic review. 1	0
755	Tuning the Reduction of Graphene Oxide Nanoflakes Differently Affects Neuronal Networks in the Zebrafish. 2021 , 11,	1
754	Synthesis of 3D graphene-based materials and their applications for removing dyes and heavy metals. 2021 , 28, 52625-52650	0
753	Electrodeposited Nickel Coating Reinforced with Chlorophyll-Reduced Graphene Oxide. 2021 , 23, 2100254	
752	Termal Olarak İndirgenen Grafen Oksidin Özelliklerinin İstatistiksel Analizi.	
751	Transparent conductive film of polyvinyl alcohol: reduced graphene oxide composite. 2021 , 56, 17028-17039	0
750	Perovskite@Graphene Nanohybrids for Breath Analysis: A Proof-of-Concept. 2021 , 9, 215	1
749	Cu ₂ O/rGO as an efficient photocatalyst for transferring of nitro group to amine group under visible light irradiation. 2021 , 130, 105838	5
748	Two-dimensional graphene oxide based membranes for ionic and molecular separation: Current status and challenges. 2021 , 9, 105605	16

747	Graphene-based anisotropic polarization meta-filter. 2021 , 206, 109768	32
746	Effect of Sodium Nitrate on the Formation of Graphene Oxide via Modified Hummers Method for Sensors Application. 2021 ,	0
745	Synthesis and characterization of 2D structure of graphene oxide by using Phyllanthus Emblica: its photocatalytic activity on cationic dyes. 1-10	
744	X-ray Spectroscopy Fingerprints of Pristine and Functionalized Graphene. 2021 , 125, 18234-18246	2
743	Features and Consequences of Isopropanol Burning off PTFE-rGO Aerogels. 2021 , 37, 10233-10240	0
742	Effect of Pulsed Light Irradiation on Patterning of Reduction Graphene Oxide-Graphene Oxide Interconnects for Power Devices. 2021 , 11, 1042	
741	A Critical Review on Synthesis, Characterization and Multifunctional Applications of Reduced Graphene Oxide (rGO)/Composites. 2021 , 16,	1
740	Review of graphene and its modification as cathode for dye-sensitized solar cells. 2021 , 32, 23690-23719	0
739	Carbon nanomaterials for cardiovascular theranostics: Promises and challenges. 2021 , 6, 2261-2280	15
738	Evaluation of Inkjet-Printed Reduced and Functionalized Water-Dispersible Graphene Oxide and Graphene on Polymer Substrate-Application to Printed Temperature Sensors. 2021 , 11,	5
737	Rheological Study of Reduced Graphene Oxide/Ethylene Glycol Nanosuspension for Ink. 2021 , 95, 1671-1676	
736	Functionalization-assistant ball milling towards Si/graphene anodes in high performance Li-ion batteries. <i>Carbon</i> , 2021 , 181, 300-309	10.4 14
735	Impact of a Graphene Oxide Reducing Agent on a Semi-Permeable Graphene/Reduced Graphene Oxide Forward Osmosis Membrane Filtration Efficiency. 2021 , 11,	1
734	Reinforced polypyrrole with 2D graphene flakes decorated with interconnected nickel-tungsten metal oxide complex toward superiorly stable supercapacitor. 2021 , 418, 129396	15
733	The Adhesion and Diffusion of Saturate, Asphaltene, Resin and Aromatic (SARA) Molecules on Oxygenated and Hydrogenated Carbon Nanotubes (CNTs). 2021 , 6, 123	
732	Fresh and hardened properties of GGBS-contained cementitious composites using graphene and graphene oxide. 2021 , 300, 123902	2
731	Development of reduced graphene oxide from biowaste as an electrode material for vanadium redox flow battery. 2021 , 41, 102848	9
730	Tuning Vertical Electron Transfer on Graphene Bilayer Electrochemical Devices. 2100550	0

729	A Review on the Production Methods and Applications of Graphene-Based Materials. 2021 , 11,	8
728	Ultrasensitive Detection and In Situ Imaging of Analytes on Graphene Oxide Analogues Using Enhanced Raman Spectroscopy. 2021 , 93, 12966-12972	
727	Graphene oxide synthesis using modified Tour method. 2021 , 12, 035006	1
726	An atomistic study on the thermomechanical properties of graphene and functionalized graphene sheets modified asphalt. <i>Carbon</i> , 2021 , 182, 615-627	10.4 10
725	A Facile Approach of Fabricating Electrically Conductive Knitted Fabrics Using Graphene Oxide and Textile-Based Waste Material. 2021 , 13,	2
724	Graphene oxide supported transition metal mixed oxide nanourchins onto bimetallic phosphide coatings as high performance hydrogen evolution electrodes in alkaline media. 2021 , 875, 160033	3
723	Fabrication and Characterization of Graphene Oxide-Coated Plate for Efficient Culture of Stem Cells. 2021 , 18, 775-785	1
722	Transferred Laser-Scribed Graphene-Based Durable and Permeable Strain Sensor. 2021 , 8, 2100625	1
721	High oriented graphite film with high thermal conductivity prepared by pure polyimide film formed with catalyst pyridine. 2021 , 47, 24519-24526	1
720	A novel titania/graphene composite applied in reinforcing microstructural and mechanical properties of alkali-activated slag. 2021 , 41, 102386	6
719	Development of Graphene-Based Polymeric Nanocomposites: A Brief Overview. 2021 , 13,	5
718	Catalytic biohydrogen production from organic waste materials: A literature review and bibliometric analysis. 2021 , 46, 30903-30925	7
717	Reduction efficiencies of natural substances for reduced graphene oxide synthesis. 2021 , 56, 18477	6
716	Electrochemical preparation of modified-graphene additive towards lubrication requirement. 2021 , 161, 107057	5
715	High-capacity anode derived from graphene oxide with lithium-active functional groups.	1
714	Wicker-like SiC@graphene multidimensional nanostructures and their robust stable super-hydrophobic property against harsh conditions for self-cleaning application. 2021 , 179, 111389	1
713	Anti-metastatic cancer activity of ultrasonic synthesized reduced graphene oxide/copper composites. 1	3
712	Fanless, porous graphene-copper composite heat sink for micro devices. 2021 , 11, 17607	2

711	Ultrasensitive capacitance sensor to detect amyloid-beta 1-40 in human serum using supramolecular recognition of ECD/RGO/ITO micro-disk electrode. 2022 , 237, 122907		2
710	Intercalated water mediated electromechanical response of graphene oxide films on flexible substrates. 2021 , 34,		
709	Highly stretchable porous composite hydrogels with stable conductivity for strain sensing. 2021 , 213, 108968		8
708	Fabrication of fanlike L-shaped graphene nanostructures with enhanced thermal/electrochemical properties via laser irradiation. <i>Carbon</i> , 2021 , 182, 691-699	10.4	1
707	Graphene Oxide Synthesis, Properties and Characterization Techniques: A Comprehensive Review. 2021 , 5, 64		2
706	Heteroatom doping of 2D graphene materials for electromagnetic interference shielding: a review of recent progress. 1-50		15
705	Adsorption and photocatalytic removal of Rhodamine B from wastewater using carbon-based materials. 2021 , 29, 100277		8
704	Sustainable and green synthesis of carbon nanomaterials: A review. 2021 , 9, 106118		7
703	Photothermochemical Nanoassembly of 3D Porous Graphene and Palladium Nanoparticles for High-Performance Hydrogen Detection. 2021 , 13, 49128-49136		1
702	Self-powered and plant-wearable hydrogel as LED power supply and sensor for promoting and monitoring plant growth in smart farming. 2021 , 422, 129499		13
701	Study on the structure of reduced graphene oxide prepared by different reduction methods. 1		0
700	Advancing the boundaries of the covalent functionalization of graphene oxide. 2021 , 26, 101320		3
699	In-situ redox-active hybrid graphene platform for label-free electrochemical biosensor: Insights from electrodeposition and electroless deposition. 2021 , 143, 116413		4
698	Architected interfacial interlocking structure for enhancing mechanical properties of Al matrix composites reinforced with graphene nanosheets. <i>Carbon</i> , 2021 , 183, 685-701	10.4	4
697	Temperature dependent Raman modes of reduced graphene oxide: Effect of anharmonicity, crystallite size and defects. <i>Carbon</i> , 2021 , 184, 437-444	10.4	12
696	Rational engineering of Ag-doped reduced graphene oxide as electrochemical sensor for trace mercury ions monitoring. 2021 , 345, 130383		2
695	Tracking the light-driven layer stacking of graphene oxide. <i>Carbon</i> , 2021 , 183, 612-619	10.4	1
694	Eggshell membrane hydrolysate as a multi-functional agent for synthesis of functionalized graphene analogue and its catalytic nanocomposites. 2021 , 102, 233-240		2

693	The role of graphene and its derivatives in modifying different phases of geopolymer composites: A review. 2021 , 306, 124774	6
692	Hollow fibre polymeric membranes for desalination by membrane distillation technology: A review of different morphological structures and key strategic improvements. 2021 , 516, 115235	9
691	Nanostructured electrodes for electrocatalytic advanced oxidation processes: From materials preparation to mechanisms understanding and wastewater treatment applications. 2021 , 296, 120332	26
690	High-yield, high-conductive graphene/nanocellulose hybrids prepared by Co-exfoliation of low-oxidized expanded graphite and microfibrillated cellulose. 2021 , 225, 109250	1
689	Superhydrophobic graphene aerogel beads for adsorption of oil and organic solvents via a convenient in situ sol-gel method. 2021 , 45, 100518	2
688	A systematic study of electrolyte effect on exfoliation efficiency and green synthesis of graphene oxide. 2021 , 47, 32276-32289	0
687	Bi ₂ O ₂ Se nanosheets/reduced graphene oxide composites for all-solid-state flexible asymmetric supercapacitors with enhanced stability. 2021 , 303, 122487	1
686	One-pot wet chemical synthesis of reduced graphene oxide-zinc oxide nanocomposites for fast and selective ammonia sensing at room temperature. 2021 , 331, 112965	2
685	Modulating chemical composition and work function of suspended reduced graphene oxide membranes through electrochemical reduction. <i>Carbon</i> , 2021 , 185, 410-418	10.4 2
684	Enhanced catalytic effect of TiO ₂ @rGO synthesized by one-pot ethylene glycol-assisted solvothermal method for MgH ₂ . 2021 , 881, 160644	18
683	Thermally-induced pore size tuning of multilayer nanoporous graphene for organic solvent nanofiltration. 2021 , 637, 119620	6
682	Hydrothermal synthesis of ZnSnO ₃ /rGO composite material and highly gas sensing performance to acetone. 2021 , 134, 106051	4
681	Enhanced photocatalytic activity of TiO ₂ nanotubes decorated with erbium and reduced graphene oxide. 2021 , 565, 150459	6
680	Three-dimensional porous reduced graphene oxide/hydroxyapatite membrane for guided bone regeneration. 2021 , 208, 112102	2
679	Can reduced graphene oxide look like few-layer pristine graphene?. 2021 , 120, 108616	0
678	Flexible and disposable paper-based gas sensor using reduced graphene oxide/chitosan composite. 2022 , 101, 165-172	3
677	Electrocatalytic decomplexation of Cu-EDTA and simultaneous recovery of Cu with Ni/GO-PAC particle electrode. 2022 , 428, 131468	2
676	Highly sensitive, self-powered photodetector based on reduced graphene oxide- polyvinyl pyrrolidone fibers (Fs)/p-Si heterojunction. 2022 , 889, 161647	3

675	Enhancing adsorption and catalytic activity of Marigold-like In ₂ S ₃ in lithium-sulfur batteries by vacancy modification. 2022 , 427, 131711	3
674	The promise of graphene-based transistors for democratizing multiomics studies. 2022 , 195, 113605	1
673	Adsorption of polycyclic aromatic hydrocarbons from wastewater using graphene-based nanomaterials synthesized by conventional chemistry and green synthesis: A critical review. 2022 , 422, 126904	9
672	Reduced graphene oxide-coated electrospun fibre: effect of orientation, coverage and electrical stimulation on Schwann cells behavior. 2021 , 9, 2656-2665	5
671	Chapter 2:Production of Carbon Nanostructure/Graphene Oxide Composites by Self-assembly and Their Applications. 2021 , 31-52	
670	Near-UV light assisted green reduction of graphene oxide films through l-ascorbic acid. 2021 , 12, 20-35	4
669	Synthesis of Sodium Cobalt Fluoride/Reduced Graphene Oxide (NaCoF/rGO) Nanocomposites and Investigation of Their Electrochemical Properties as Cathodes for Li-Ion Batteries. 2021 , 14,	6
668	Applications of Graphene-Based Nanomaterials. 2021 , 1069-1093	
667	TiO ₂ Reduced graphene oxide for the removal of gas-phase unsymmetrical dimethylhydrazine. 2021 , 45, 394-402	3
666	Nano-spinel cobalt decorated sulphur doped graphene: an efficient and durable electrocatalyst for oxygen evolution reaction and non-enzymatic sensing of H ₂ O ₂ . 2021 , 45, 15544-15554	0
665	Laser-induced graphene for environmental applications: progress and opportunities.	12
664	Polymer Nanocomposites for Advanced Automobile Applications. 2021 , 1353-1387	
663	Nanomaterials: a review of synthesis methods, properties, recent progress, and challenges. 2021 , 2, 1821-1871223	
662	Functionalized graphene-based nanocomposites for smart optoelectronic applications. 2021 , 10, 605-635	7
661	Electrochemical sensing of pioglitazone hydrochloride on N-doped r-GO modified commercial electrodes. 2021 , 146, 3578-3588	0
660	Synthesis of graphene and other two-dimensional materials. 2021 , 1-79	2
659	Chapter 13:Raman Spectroscopy Characterization of Carbon Materials: From Graphene to All-carbon Heterostructures. 2021 , 317-346	1
658	Fundamentals of Capacitive Charge Storage in Carbon-Based Supercapacitors. 2021 , 559-586	

- 657 Synergy of light and acid-base reaction in energy conversion based on cellulose nanofiber intercalated titanium carbide composite nanofluidics. 7
- 656 Graphene and its derivatives for environmental applications. **2021**, 219-259
- 655 Green and sustainable methods of syntheses of photocatalytic materials for efficient application in dye degradation. **2021**, 167-206
- 654 A comprehensive review on selected graphene synthesis methods: from electrochemical exfoliation through rapid thermal annealing towards biomass pyrolysis. 9
- 653 Quantitative analysis of the synergistic effect of Au nanoparticles on SnO-rGO nanocomposites for room temperature hydrogen sensing. **2021**, 23, 2377-2383 3
- 652 In situ coupled electrical/mechanical investigations of graphene coated cationized cotton yarns with enhanced conductivity upon mechanical stretching. 1
- 651 Graphene for Energy Solutions and its Printable Applications. 191-236 1
- 650 Controlling and Characterizing Anisotropic Nanomaterial Dispersion. **2017**, 65-99 1
- 649 Droplet-based Continuous Flow Synthesis of Palladium Supported on Reduced Graphene Oxide. **2020**, 41, 374-377 3
- 648 Application of Self-supported Materials for Photo and Photoelectrocatalysis. **2020**, 57-82 2
- 647 Superparamagnetic Composite-Based GO/rGO for the Multimode Biomedical Applications. **2020**, 103-120 1
- 646 Optimization of Graphene Oxide Synthesis and Its Reduction. **2015**, 467-484 3
- 645 Fabrication and Reduction. **2015**, 1-13 2
- 644 Graphene Oxide: Synthesis and Characterization. **2017**, 1-28 2
- 643 Graphene Oxide Polymer Gels. **2018**, 377-412 1
- 642 Synthesis of Graphene by Reduction of Graphene Oxide Using Non-Toxic Chemical Reductant. **2019**, 143-150 1
- 641 Production of Advanced Materials in Molten Salts. **2020**, 5-18 2
- 640 Functionalization of Graphene and Its Derivatives for Developing Efficient Solid-State Gas Sensors: Trends and Challenges. **2020**, 245-284 2

639	Synthesis of Metal/Metal Oxide Supported Reduced Graphene Oxide (RGO) for the Applications of Electrocatalysis and Supercapacitors. 2019 , 1-48		3
638	Graphene Functionalization and Nanopolymers. 2019 , 157-178		3
637	Synthetic routes of the reduced graphene oxide. 2020 , 74, 3767-3783		22
636	Investigating the Thermo-Mechanical Properties of Aluminum/Graphene Nano-Platelets Composites Developed by Friction Stir Processing. 2020 , 21, 1539-1546		5
635	Future of analytical chemistry with graphene. 2020 , 91, 355-389		2
634	High-quality graphene films and nitrogen-doped organogels prepared from the organic dispersions of graphene oxide. <i>Carbon</i> , 2018 , 129, 15-20	10.4	11
633	Restoration of the graphitic structure by defect repair during the thermal reduction of graphene oxide. <i>Carbon</i> , 2020 , 166, 74-90	10.4	49
632	Nanoparticles incorporated graphene-based durable cotton fabrics. <i>Carbon</i> , 2020 , 166, 148-163	10.4	35
631	Low-cost route for top-down synthesis of over- and low-oxidized graphene oxide. 2020 , 600, 124928		12
630	Tellurium-reduced graphene oxide two-dimensional (2D) architecture for efficient photo-catalytic effluent: Solution for industrial water waste. 2020 , 108, 107994		1
629	Construction of ternary hybrid layered reduced graphene oxide supported g-C ₃ N ₄ -TiO ₂ nanocomposite and its photocatalytic hydrogen production activity. 2018 , 43, 3892-3904		96
628	A simple hydrothermal method for the preparation of 3D petal-like Ni(OH) ₂ /g-C ₃ N ₄ /RGO composite with good supercapacitor performance. 2020 , 122, 108263		5
627	Construction of graphite oxide modified black phosphorus through covalent linkage: An efficient strategy for smoke toxicity and fire hazard suppression of epoxy resin. 2020 , 399, 123015		46
626	Synergetic effect of nitrogen and sulfur co-doping in mesoporous graphene for enhanced energy storage properties in supercapacitors and lithium-ion batteries. 2020 , 289, 121451		9
625	Feasibility of removal of graphene oxide particles from aqueous suspensions by DC/AC electrocoagulation. 2020 , 36, 101249		3
624	Facile green reduction of graphene oxide using <i>Ocimum sanctum</i> hydroalcoholic extract and evaluation of its cellular toxicity. 2017 , 198, 66-72		16
623	A photochemical approach for preparing graphene and fabrication of SU-8/graphene composite conductive micropatterns. 2017 , 132, 505-511		9
622	Enhancing the selectivity of hydrogen isotopic water in membrane distillation by using graphene oxide. 2020 , 610, 118237		7

621	A novel electrochemical sensing platform based on mono-dispersed gold nanorods modified graphene for the sensitive determination of topotecan. 2020 , 320, 128320	8
620	Simple Synthesis of $K_{0.5}VOPO_4 \cdot 1.5H_2O$ /Graphene Oxide Composite as a Cathode Material for Potassium-Ion Batteries. 2021 , 4, 445-451	7
619	Green Reduction of Graphene Oxide using Kaffir Lime Peel Extract (<i>Citrus hystrix</i>) and Its Application as Adsorbent for Methylene Blue. 2020 , 10, 667	28
618	Design of a new electrochemical sensing system based on $MoS_2 \cdot TiO_2$ /reduced graphene oxide nanocomposite for the detection of paracetamol. 2020 , 44, 11759-11767	30
617	Synthesis, characterization and applications of metallic nanoparticles/rGO blended poly methyl methacrylate membranes for the efficient removal of Cd^{2+} from model and real wastewater. 2020 , 44, 15593-15608	13
616	Nanochannel-confined charge repulsion of ions in a reduced graphene oxide membrane. 2020 , 8, 25880-25889	11
615	Electrochemical sensor based on Sb nanoparticles/reduced graphene oxide for heavy metal determination. 1-15	8
614	Anomalous charge transport in reduced graphene oxide films on a uniaxially strained elastic substrate. 2017 , 29, 235301	2
613	Chemical-free transfer of patterned reduced graphene oxide thin films for large area flexible electronics and nanoelectromechanical systems. 2020 , 31, 495301	3
612	Solution processed nanostructured hybrid materials based on PbS quantum dots and reduced graphene oxide with tunable optoelectronic properties. 2021 , 32, 055604	2
611	Effect of hydrothermal and chemical treatment on the optical and electrical properties of reduced graphene oxide deposited on ITO glass. 2020 , 7, 105606	2
610	Novel 2D CaCl crystals with metallicity, room-temperature ferromagnetism, heterojunction, piezoelectricity-like property and monovalent calcium ions. 2021 , 8, nwaa274	4
609	Heat Transfer of rGO/ CO_3O_4 Hybrid Nanomaterial-Based Nanofluids and Twisted Tape Configurations in a Tube. 2021 , 13,	11
608	Graphene oxide reduction induced by femtosecond laser irradiation. 2017 ,	1
607	Synthesis of reduced graphene oxide paper for EMI shielding by a multi-step process. 2020 , 13, 2051024	3
606	Review 2D Graphene and Graphene-Like Materials and Their Promising Applications in the Generation of Hydrogen Peroxide. 2020 , 167, 126502	5
605	Perspective Electrodeposition of Graphene Reinforced Metal Matrix Composites for Enhanced Mechanical and Physical Properties: A Review. 2020 , 167, 146501	11
604	Chemical and structural analyses of the graphene nanosheet/alumina ceramic interfacial region in rapidly consolidated ceramic nanocomposites. 2018 , 52, 417-428	16

603	Recent advances in the catalytic applications of GO/rGO for green organic synthesis. 2020 , 9, 515-537	11
602	Graphene-Reinforced Bulk Metal Matrix Composites: Synthesis, Microstructure, and Properties. 2020 , 59, 67-114	28
601	In Situ Green Synthesis and Functionalization of Reduced Graphene Oxide on Cellulose Fibers by Cannabis sativa L. Extract. 2019 , 8, 20180149	1
600	Synthesis, Properties, and Application of Graphene-Based Materials Obtained from Carbon Nanotubes and Acetylene Black. 2016 , 61, 909-916	2
599	Comprehensive Review on Graphene Oxide for Use in Drug Delivery System. 2020 , 27, 3665-3685	34
598	Preparation of CdSe / RGO-GO composites with the high performance of adsorption and degradation. 2020 , 10, 200-205	3
597	Regenerated Cellulose/Graphene Composite Fibers with Electroconductive Properties. 2020 ,	2
596	The effect of oxidation process on graphene oxide fiber properties. 2019 , 37, 83-89	2
595	Preparation And Characterization Of Graphene Oxide Cross-Linked Composites. 2018 ,	1
594	Efficient reduction of graphene oxide film by low temperature heat treatment and its effect on electrical conductivity. 2018 , 60, 102-106	3
593	Effects of various vitamin C amounts on the green synthesis of reduced graphene oxide. 2019 , 61, 1007-1011	4
592	Antimicrobial Mechanisms and Effectiveness of Graphene and Graphene-Functionalized Biomaterials. A Scope Review. 2020 , 8, 465	72
591	A Facile and Green Synthesis of a MoO-Reduced Graphene Oxide Aerogel for Energy Storage Devices. 2020 , 13,	9
590	A Facile Electrochemical Fabrication of Reduced Graphene Oxide-Modified Glassy Carbon Electrode for Simultaneous Detection of Dopamine, Ascorbic Acid, and Uric Acid. 2017 , 8, 274-281	9
589	Recent trends in the graphene-based sensors for the detection of hydrogen peroxide. 2018 , 5, 422-466	11
588	Carbon Nanomaterials. 2019 , 1-33	2
587	Synthesis of Graphene Oxide (GO) by Modified Hummers Method and Its Thermal Reduction to Obtain Reduced Graphene Oxide (rGO)*. 2017 , 06, 1-18	426
586	Characterization of High Yield Graphene Oxide Synthesized by Simplified Hummers Method. 2017 , 06, 85-98	12

585	Preparation and application of reduced graphene oxide as the conductive material for capacitive deionization. 2014 , 15, 38-44	17
584	Preparation of sulfonated reduced graphene oxide by radiation-induced chemical reduction of sulfonated graphene oxide. 2015 , 16, 41-44	9
583	Mechanisms of Na adsorption on graphene and graphene oxide: density functional theory approach. 2015 , 16, 116-120	65
582	Sorption behavior of slightly reduced, three-dimensionally macroporous graphene oxides for physical loading of oils and organic solvents. 2016 , 18, 24-29	1
581	Engineering ferromagnetism in Ni(OH) nanosheets using tunable uniaxial pressure in graphene oxide/reduced graphene oxide. 2021 , 23, 24233-24238	1
580	Enhanced hydrogen storage kinetics and air stability of nanoconfined NaAlH in graphene oxide framework.. 2021 , 11, 32533-32540	1
579	All-solid-state planar on-chip micro-supercapacitors with superior electrochemical performances by two-step reduction method. 2021 , 581, 221-229	
578	Alginate-based nano-adsorbent materials - Bioinspired solution to mitigate hazardous environmental pollutants. 2021 , 288, 132618	11
577	Reliability of electrode materials for supercapacitors and batteries in energy storage applications: a review. 1	1
576	In Situ Generated Amorphous Molybdenum Sulfide on Reduced Graphene Oxide Nanocomposite Catalyst for Hydrogen Evolution in a Biphasic Liquid System. 2021 , 13, 5203	0
575	One-Pot Strategy for the Preparation of Electrically Conductive Composites Using Simultaneous Reduction and Grafting of Graphene Oxide via Atom Transfer Radical Polymerization.	0
574	Structural, dielectric, and magnetic properties of reduced graphene oxide-wrapped MnFe ₂ O ₄ composites synthesized by in-situ sol-gel autocombustion method. 2021 ,	0
573	Hierarchically Porous, Laser-Pyrolyzed Carbon Electrode from Black Photoresist for On-Chip Microsupercapacitors. 2021 , 11,	2
572	Progresses and expansions of chitosan-graphene oxide hybrid networks utilizing as adsorbents and their organic dye removal performances: A short review. 1121-1136	1
571	Metal Nanoparticles and Carbon-Based Nanomaterials for Improved Performances of Electrochemical (Bio)Sensors with Biomedical Applications. 2021 , 14,	10
570	Hierarchically porous hydrogels and aerogels based on reduced graphene oxide, montmorillonite and hyper-crosslinked resins for water and air remediation. 2021 , 430, 133162	5
569	Tuning the Surface Chemical State of Graphene Oxide Sheets for the Self-Assembly of Graphene Hydrogel for Capacitive Energy Storage. 2021 , 8, 3962-3970	
568	A Review of Heteroatom Doped Materials for Advanced LithiumSulfur Batteries. 2022 , 32, 2107166	10

567	Regiochemically Oxo-functionalized Graphene, Guided by Defect Sites, as Catalyst for Oxygen Reduction to Hydrogen Peroxide. 2021 , 12, 10009-10014	2
566	Electrochemical Impedance Spectroscopy (EIS): Principles, Construction, and Biosensing Applications. 2021 , 21,	38
565	Microwave as a Tool for Synthesis of Carbon-Based Electrodes for Energy Storage. 2021 ,	18
564	Carbon-Related Materials for Tribological Application. 2022 , 469-483	0
563	Novel Silanized Graphene Oxide/TiO Multifunctional Nanocomposite Photocatalysts: Simultaneous Removal of Cd and Photodegradation of Phenols under Visible Light Irradiation. 2021 , 6, 28813-28827	0
562	Reduced graphene oxide-based superhydrophobic magnetic nanomaterial as high selective and recyclable sorbent for oil/organic solvent wastewater treatment. 1	0
561	Optimisation of rGO-enriched nanoceramics by combinatorial analysis. 2021 , 212, 110191	1
560	Disorders in graphene: types, effects and control techniques – review. 1	0
559	Elevating kinetics of passivated Fe anodes with NH ₄ Cl regulator: Toward low-cost, long-cyclic and green cathode-free Fe-ion aqueous batteries. 1	1
558	The effect of different GO reduction strategies on the lower level electrochemical determination of Epinephrine and Serotonin in quaternary mixtures. 2021 , 901, 115760	2
557	Recent progress on adsorption and membrane separation for organic contaminants on multi-dimensional graphene. 2021 , 22, 100603	3
556	Improving the cracking resistance of mortar by reduced graphene oxide. 2021 , 310, 125150	0
555	Microwave exfoliated graphite oxide (MEGO) heat treatment: Transformation and stability. 2021 , 120, 108654	1
554	Graphene. 2013 , 1-46	
553	Graphene-Based Electrochemical Platform for Biosensor Applications. 187-214	
552	Cytotoxicity, Drug Delivery, and Photothermal Therapy of Functionalized Carbon Nanomaterials. 2016 , 81-111	
551	Oxidation and reduction of graphitic materials for physical and chemical property control. 2016 , 2016, 15-24	1
550	Otrzymywanie grafenu .. 2016 ,	

- 549 Development of AgNW/Reduced Graphene Oxide Hybrid Transparent Electrode with Long-Term Stability Using Plasma Reduction. **2016**, 49, 87-91
- 548 Synthesis, properties, application of graphene oxide and reduced graphene oxide obtained from multi-walled carbon nanotubes. **2016**, 7, 3-11
- 547 Three-Dimensional Intercalated Porous Graphene on Si(111). **2018**, 47, 1575-1582
- 546 Analysis of surface oxygen groups of thermally reduced graphene oxide via temperature programmed desorption method. **2018**, 73, 186-191
- 545 Preparation of Anisotropic Conductive Graphene Aerogel/Polydimethylsiloxane Composites as LEGO Modulators.
- 544 Graphene Preparation Methods Traceability, Research Progress and Development Status. **2018**, 08, 202-221
- 543 The use of graphene oxide as a lubricating additive. **2018**, 2018, 132-139
- 542 Polymer Nanocomposites for Advanced Automobile Applications. **2019**, 96-130
- 541 Graphene and Its Derivatives for Secondary Battery Application. **2019**, 53-80 2
- 540 Temperature-dependent properties of metastable graphene oxide. **2019**, 68, 156501 2
- 539 Use of Graphene/Graphene Oxide in Food Packaging Materials: Thermomechanical, Structural and Barrier Properties. **2019**, 452-473 2
- 538 The sensitivity of reduced graphene oxide to H₂ and NO₂. **2019**,
- 537 Synthesis of Nitrogen-Doped Graphene by Thermal Annealing of Graphene Oxide with Melamine Compounds. **2019**, 29, 677-683
- 536 Highly efficient modulation of upconversion luminescence at a millisecond timescale. **2019**,
- 535 CHAPTER 6:Graphene: Preparation and Applications. **2020**, 100-130
- 534 Study on Graphene Oxide-Modified Polyacrylonitrile Hollow Fiber Membrane. **2020**, 207, 62-74
- 533 Reduction of graphene oxide by nanofocused ultrafast surface plasmon pulses. **2020**, 3, 2441
- 532 TiO₂ Nanotube/RGO Modified Separator as an Effective Polysulfide-Barrier for High Electrochemical Performance Li-S Batteries. **2021**, 895, 162495 3

- 531 CdSNPs@NPAN-rGO-PAN electrospinning film with enhanced photocatalytic activity via adjusting the fiber dimension. e6462
- 530 Materials under research: Nanomaterials, aerogels, biomaterials, composites, inks. **2022**, 3-31
- 529 Synthesis of pristine graphene-like behaving rGO thin film: Insights into what really matters. *Carbon*, **2022**, 186, 437-451 10.4 2
- 528 Graphene electrode functionalization for high performance hybrid energy storage with vanadyl sulfate redox electrolytes. **2022**, 517, 230712 1
- 527 Graphene-based materials for the adsorptive removal of uranium in aqueous solutions. **2021**, 158, 106944 7
- 526 Integrated reduced graphene oxide/polypyrrole hybrid aerogels for simultaneous photocatalytic decontamination and water evaporation. **2022**, 301, 120820 10
- 525 Electrical and Mechanical Properties of Zirconia-Graphene Composites. **2020**, 2, 27-41 1
- 524 Diverse Applications of Graphene-Based Polymer Nanocomposites. **2020**, 47-82 1
- 523 Introduction. **2020**, 1-23
- 522 Optimization of Reducing Agents for Selective Bandgap Manipulation in Visible Region of Graphene Oxide and Its Work Function Estimation. **2020**, 9, 20190177 1
- 521 Production of Reduced Graphene Oxide (rGO) from Battery Waste: Green and Sustainable Synthesis and Reduction. **2020**, 329-358
- 520 Graphene-Reinforced Geopolymer Matrix Composites. **2020**, 81-129
- 519 Green Synthesis of NanoMaterials for BioSensing. **2020**, 135-217 2
- 518 DFT Based Simulation for Predicting Alcohol Adsorption on Oxygenated Functional Group Containing GO and rGO Based Gas Sensor Devices. **2020**,
- 517 Selective modification of electrical insulator material by ion micro beam for the fabrication of circuit elements. **2020**, 175, 307-317 1
- 516 Termal indirgenmi[grafen oksit ile elektrokimyasal olarak askorbik asit tayini.
- 515 reduced graphene oxide.
- 514 Synergistic Toughening of Graphene Films by Addition of Hydroxylated Carbon Nanotube. **2021**,

513	Thermal reduced graphene oxide enhanced in-situ HO generation and electrochemical advanced oxidation performance of air-breathing cathode. 2022 , 204, 112327	1
512	Review of electrochemical production of doped graphene for energy storage applications. 2021 , 46, 103527	2
511	Conjugated Polymer/Graphene Oxide Nanocomposites State-of-the-Art. 2021 , 5, 292	1
510	From Unidimensional Carbonaceous Materials to Multidimensional Structures Through Molecular Modeling. 2021 , 1-21	
509	Pulsed versus continuous-wave Laser deoxygenation of graphene oxide suspensions. 2020 , 956, 012009	
508	Scrolled Production of Large-Scale Continuous Graphene on Copper Foils*. 2020 , 37, 108101	3
507	Review of research of nanocomposites based on graphene quantum dots. 2020 ,	
506	İndirgenmi Grafen Oksit ile Kaplanan Pamuk Kumaşın Elektriksel İletkenlik ve Hasıl Özelliklerinin İncelenmesi.	
505	Roadblocks faced by graphene in replacing graphite in large-scale applications. 2020 , 1,	1
504	Graphene: Structure, properties, preparation, modification, and applications. 2022 , 1-24	
503	Engineering of porous graphene oxide membranes for solar steam generation with improved efficiency.	1
502	Properties of free-standing graphene oxide/silver nanowires films and effects of chemical reduction and gamma irradiation. 2022 , 283, 116980	0
501	Water treatment and environmental remediation applications of carbon-based nanomaterials. 2022 , 229-311	
500	T-carbon: Experiments, properties, potential applications and derivatives. 2022 , 42, 101346	6
499	Recent advances on bioprinting of hydrogels containing carbon materials. 2022 , 23, 100617	3
498	Structural Characteristics of Graphene Oxide Reduced by Hydrazine and Hydrogen. 2021 , 57, 289-296	0
497	Pure Graphene Oxide Vertical p-n Junction with Remarkable Rectification Effect. 2021 , 26,	
496	PIM-1/Holey Graphene Oxide Mixed Matrix Membranes for Gas Separation: Unveiling the Role of Holes. 2021 , 13, 55517-55533	5

495	Nanophotonics-enabled optical data storage in the age of machine learning. 2021 , 6, 110902	0
494	Morphology, electrical conductivity, and rheology of latex-based polymer/nanocarbon nanocomposites. 2021 , 33, 357-366	2
493	Embellishing hierarchical 3D core-shell nanosheet arrays of ZnFeO@NiMoO onto rGO-Ni foam as a binder-free electrode for asymmetric supercapacitors with excellent electrochemical performance. 2021 , 610, 863-863	0
492	High thermal conductivity graphene oxide/carbon nanotubes/butyl rubber composites prepared by a dry ice expansion pre-dispersion flocculation method. 51897	0
491	Ultrasensitive Detection of COVID-19 Causative Virus (SARS-CoV-2) Spike Protein Using Laser Induced Graphene Field-Effect Transistor. 2021 , 26,	3
490	Effect of Oxide Content of Graphene Oxide Membrane on Remarkable Adsorption for Calcium Ions. 2021 , 38, 106801	0
489	Assessment of antioxidant and cytotoxicity activities against A-549 lung cancer cell line by synthesized reduced graphene oxide nanoparticles mediated by. 2021 , 11, 494	0
488	Depth Gradient Reduced Graphene Oxide Layer via Intense Pulsed Light Annealing Process for the Flexible Resistive Random Access Memory Device. 2101018	0
487	Pd electrodeposition on a novel substrate of reduced graphene oxide/ poly(melem-formaldehyde) nanocomposite as an active and stable catalyst for ethanol electrooxidation in alkaline media. 2021	1
486	The reinforcement mechanisms of graphene oxide in laser-directed energy deposition fabricated metal and ceramic matrix composites: a comparison study. 1	
485	Spatially confined atomic dispersion of metals in thermally reduced graphene oxide films. <i>Carbon</i> , 2021 , 188, 367-367	10.4
484	Gas-sensitive enhancement of rGO/HMWCNTs/PANI ternary composites. 2021 , 1-1	0
483	3D Hierarchical Ti 3C 2T X@NiO-Reduced Graphene Oxide Heterostructure Hydrogel as Free-Standing Electrodes for High Performance Supercapacitor.	
482	An overview on nanostructure-modified supported liquid membranes for the electromembrane extraction method.. 2022 ,	3
481	Elastomeric Foldable and High-Temperature Endurance Porous Graphene Films with Superior Electromagnetic Interference Shielding Performance.	0
480	Zero waste, single step methods of fabrication of reduced graphene oxide decorated with gold nanoparticles. 2022 , 31, e00387	1
479	Preparation and electrochemical validation of rGO-TiO ₂ -MoO ₃ ternary nanocomposite for efficient supercapacitor electrode. 2022 , 122, 108798	0
478	Development of carbon-based copper sulfide nanocomposites for high energy supercapacitor applications: A comprehensive review. 2022 , 46, 103886	3

477	State of the art and current trends on layered inorganic-polymer nanocomposite coatings for anticorrosion and multi-functional applications. 2022 , 163, 106684	5
476	Magnetic assembling GO/Fe ₃ O ₄ /microbes as hybridized biofilms for enhanced methane production in microbial electrosynthesis. 2022 , 185, 862-870	1
475	Room temperature photoluminescent study of thermally grown reduced graphene oxide quantum dots. 2022 , 136, 109164	0
474	Structural changes induced in graphene oxide film by low energy ion beam irradiation. 2022 , 192, 109923	0
473	Recent developments in natural rubber nanocomposites containing graphene derivatives and its hybrids. 2022 , 177, 114529	2
472	3D hierarchical Ti ₃ C ₂ TX @NiO-reduced graphene oxide heterostructure hydrogel as free-standing electrodes for high performance supercapacitor. 2022 , 901, 163614	4
471	Self-propagating high temperature synthesis of porous graphene by magnesiothermic reaction as high performance electrochemical electrode material. 2022 , 900, 163552	0
470	Dual-templating strategy for the fabrication of graphene oxide, reduced graphene oxide and composite scaffolds with hierarchical architectures. <i>Carbon</i> , 2022 , 189, 186-198	10.4 0
469	Highly active Fe-N-reduced graphene oxide electrocatalysts using sustainable amino acids as nitrogen source. 2022 , 313, 122985	0
468	Effective microwave-hydrothermal reduction of graphene oxide for efficient energy storage. 2022 , 48, 103962	0
467	Facile synthesis of KVPO ₄ F/reduced graphene oxide hybrid as a high-performance cathode material for potassium-ion batteries. 2022 , 68, 284-292	4
466	Release of Pb adsorbed on graphene oxide surfaces under conditions of <i>Shewanella putrefaciens</i> metabolism.. 2022 , 118, 67-75	0
465	A facile approach to fabricating graphene/waterborne epoxy coatings with dual functionalities of barrier and corrosion inhibitor. 2022 , 112, 263-276	0
464	Chapter 4. Advanced Membranes Functionalized with Carbon-based 2D Nanomaterials for Liquid Separation. 2021 , 83-107	
463	The rGO/CuO composite materials as photocatalyst for CO ₂ conversion into methanol under UV light. 2021 ,	
462	Development of rGO based Gas Sensor for Acetone Detection. 2021 ,	
461	Superhydrophobic Ni-Reduced Graphene Oxide Hybrid Coatings with Quasi-Periodic Spike Structures.. 2022 , 12,	
460	New Insights into the Metallization of Graphene-Supported Composite Materials-from 3D Cu-Grown Structures to Free-Standing Electrodeposited Porous Ni Foils.. 2022 , 7, 4352-4362	

- 459 Review Recent Advances in Graphene-Based Field-Effect-Transistor Biosensors: A Review on Biosensor Designing Strategy. 0
- 458 Synthesis, Characterization and Activation energy of Nano-(GO)_x/(Cu,Tl)-1234 Superconducting Composites. **2022**, 206, 210-231
- 457 Synthesis and characterisation of heteroatom-doped reduced graphene oxide/bismuth oxide nanocomposites and their application as photoanodes in DSSCs.. **2022**, 12, 2462-2472 0
- 456 Electrospun PEO/rGO Scaffolds: The Influence of the Concentration of rGO on Overall Properties and Cytotoxicity.. **2022**, 23, 0
- 455 Size-Controlled Nanosculpture of Cylindrical Pores across Multilayer Graphene via Photocatalytic Perforation. 2102129 1
- 454 Study of microwave reduction of graphene oxide suspension: structure and functional groups. **2022**, 57, 3280-3294 1
- 453 Performance Improvement of Supercapacitor Materials with Crushed 3D Structured Graphene. **2022**, 169, 010521 0
- 452 Anchoring ultrafine molybdenum phosphide on hierarchical three-dimensional CNTs/rGO framework as efficient electrocatalysts for hydrogen evolution. **2022**, 33, 3175
- 451 E_b -Based Epoxy/Amine Reinforced with Reduced Graphene Oxide (rGO) or GLYMO-rGO: Study of Curing Kinetics, Mechanical Properties, Lamination and Bonding Performance.. **2022**, 12, 1 1
- 450 Enhanced adsorption performance of chitosan/cellulose nanofiber isolated from durian peel waste/graphene oxide nanocomposite hydrogels. **2022**, 17, 100650 0
- 449 Laser-induced graphene (LIG)-driven medical sensors for health monitoring and diseases diagnosis.. **2022**, 189, 54 9
- 448 Morphophysical and Spectroscopic Characteristics of Wild Silkworm Cocoons in North-East India. **2022**, 92, 171
- 447 Effect of Graphene Nanoparticles Addition on Superconductivity of YBa₂Cu₃O_{7-x} Synthesized via the Thermal Treatment Method. **2022**, 12, 91
- 446 Resistance matching materials nanoarchitectonics for better performances in water evaporation-driven generators.. **2022**, 0
- 445 Visible-Light-Driven Reduced Graphite Oxide as a Metal-Free Catalyst for Degradation of Colored Wastewater.. **2022**, 12, 0
- 444 Tuning the Gas Sensing Properties of rGO with In₂O₃ Nanoparticles. **2022**, 5, 127-142 0
- 443 From graphene to graphene oxide: the importance of extended topological defects.. **2022**, 0
- 442 Polarization response of planarized optical waveguides to determine the anisotropic complex refractive index of graphene oxide thin films.. **2022**, 61, 744-750 0

441	Antibacterial Electroconductive Composite Coating of Cotton Fabric.. 2022 , 15,	1
440	Field ion microscopy images of multilayered graphene and graphene oxide. 2022 , 40, 012803	0
439	Tuneable synthetic reduced graphene oxide scaffolds elicit high levels of three-dimensional glioblastoma interconnectivity .. 2021 ,	0
438	General synthesis of ultrafine metal oxide/reduced graphene oxide nanocomposites for ultrahigh-flux nanofiltration membrane.. 2022 , 13, 471	7
437	Research Progress of Graphene Nano-Electromechanical Resonant Sensors-A Review.. 2022 , 13,	
436	Advances in Graphene/Inorganic Nanoparticle Composites for Catalytic Applications.. 2022 , e202100274	2
435	Realization of ppb-level acetone detection using noble metals (Au, Pd, Pt) nanoparticles loaded GO FET sensors with simultaneous back-gate effect. 2022 , 256, 111719	1
434	Nanoarchitecture and surface engineering strategy for the construction of 3D hierarchical CuS-rGO/g-C ₃ N ₄ nanostructure: An ultrasensitive and highly selective electrochemical sensor for the detection of furazolidone drug. 2022 , 907, 116080	3
433	Fabrication of cerium oxide and Ni(OH) ₂ nano hexagonal architectures assembled on reduced graphene oxide for non-enzymatic electrochemical detection of glucose. 2022 , 28, 1957	0
432	Effect of addition of non-functionalized graphene oxide in a commercial epoxy resin used as coating. 2022 ,	
431	Rapid electrochemical detection of COVID-19 genomic sequence with dual-function graphene nanocolloids based biosensor. 2022 , 32, 100336	6
430	Highly flexible, high-performance radio-frequency antenna based on free-standing graphene/polymer nanocomposite film. 2022 , 582, 152455	2
429	The characterisation of commercial 2D carbons: graphene, graphene oxide and reduced graphene oxide.	0
428	Facile Synthesis of Ni-incorporated & Nitrogen-doped Reduced Graphene Oxide as Effective Electrode Material for Tri(ammonium) Phosphate Electro-oxidation.	0
427	Low-Temperature Catalytic Combustion of Chlorobenzene Over CeO _x -VO _x /TiO ₂ -Graphene Oxide Catalysts. 1	0
426	Mechanism of graphene oxide laser reduction at ambient conditions: Experimental and ReaxFF study. <i>Carbon</i> , 2022 , 191, 546-546	10.4 1
425	Detection of a Double-Stranded MGMT Gene Using Electrochemically Reduced Graphene Oxide (ErGO) Electrodes Decorated with AuNPs and Peptide Nucleic Acids (PNA).. 2022 , 12,	
424	Review A Review of the Corrosion Behaviour of Graphene Coatings on Metal Surfaces Obtained by Chemical Vapour Deposition.	0

423	Ultrasensitive voltammetric measurement of Ponceau 4R using gold nanoparticles loaded on reduced graphene oxide on screen-printed electrode. 1	
422	Enhancement in lithium storage performances of SiO ₂ /graphene-based nanocomposites prepared by low cost and facile approach. 2022 , 33, 6536	2
421	Investigation of the Humidity Sensing of Etched Optical Fibers Coated with Graphene Oxide/Silica Composite.	0
420	Screen-Printed Structures from a Highly Conductive Mildly Oxidized Graphene Suspension for Flexible Electronics.. 2022 , 15,	
419	Ultrafast Microwave Assisted Synthesis of Three-Dimensional Graphene Material and its Excellent Performance for Supercapacitors. 2022 , 2186, 012006	
418	Fine-tuning the functionality of reduced graphene oxide via bipolar electrochemistry in freestanding 2D reaction layers. <i>Carbon</i> , 2022 , 191, 439-447	10.4 2
417	Microstructure and Biological Properties of Electrospun In Situ Polymerization of Polycaprolactone-Graft-Polyacrylic Acid Nanofibers and Its Composite Nanofiber Dressings. 2021 , 13,	2
416	Graphene-Based Nanomaterials as Drug Delivery Carriers.. 2022 , 1351, 109-124	1
415	The Overlooked Role of Co(OH) ₂ in Co ₃ O ₄ Activated Pms System: Suppression of Co ²⁺ Leaching and Enhanced Degradation Performance of Antibiotics.	
414	An ultralight, elastic carbon nanofiber aerogel with efficient energy storage and sorption properties.. 2022 ,	0
413	Polyethyleneimine-impregnated activated carbon nanofiber composited graphene-derived rice husk char for efficient post-combustion CO ₂ capture. 2022 , 11, 926-944	1
412	Principles and Biomedical Application of Graphene Family Nanomaterials.. 2022 , 1351, 3-22	
411	Carbon nanomaterials: Application as sensors for diagnostics. 2022 , 211-248	
410	Graphene-Derived Nanomaterials and Their Application in COVID-19 Related Prevention, Treatment, and Diagnosis. 2022 , 425-454	
409	Molecule Stratification in 2d Heterostructured Nanochannels Towards Enhanced Selective Permeation.	
408	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	
407	Preparation of rGO/MnO Composites through Simultaneous Graphene Oxide Reduction by Electrophoretic Deposition.. 2022 , 7, 6760-6767	0
406	Investigation of Sulfonated Graphene Oxide as the Base Material for Novel Proton Exchange Membranes.. 2022 , 27,	1

405	Research Status of Graphene Polyurethane Composite Coating. 2022 , 12, 264	1
404	Nanocomposites of Rigid Polyurethane Foam and Graphene Nanoplates Obtained by Exfoliation of Natural Graphite in Polymeric 4,4'-Diphenylmethane Diisocyanate.. 2022 , 12,	0
403	Enhanced Probe Bonding and Fluorescence Properties through Annealed Graphene Oxide Nanosheets.. 2022 ,	0
402	Enriching WPCs and NFPCs with Carbon Nanotubes and Graphene.. 2022 , 14,	2
401	Effect of processing on the stability and electrical properties of pressureless sintered graphene oxide/alumina composites. 2022 ,	0
400	Graphene-Based Nanomaterials for Dental Applications: Principles, Current Advances, and Future Outlook.. 2022 , 10, 804201	2
399	Chemically Edge-Carboxylated Graphene Enhances the Thermal Conductivity of Polyetherimide-Graphene Nanocomposites.. 2022 ,	2
398	Facile scalable synthesis of graphene oxide and reduced graphene oxide: comparative investigation of different reduction methods. 1	0
397	Graphene for Zirconia and Titanium Composites in Dental Implants: Significance and Predictions. 1	0
396	Impact of N ₂ admixture on the synthesis of graphitic carbon nanoparticles using atmospheric-pressure microwave plasma.	0
395	Investigation of the high-field transport, Joule-heating-driven conductivity improvement and low-field resistivity behaviour in lightly-reduced free-standing graphene oxide papers. 2022 , 55, 245103	0
394	Size- and Oxidation-Dependent Toxicity of Graphene Oxide Nanomaterials in Embryonic Zebrafish.. 2022 , 12,	0
393	Polymer Composites with Graphene and Its Derivatives as Functional Materials of the Future. 1	1
392	Preparation and Stability of PEGDA/GO Conductive Materials by DLP 3D Printing. 1	0
391	Reduction of Capacity Fading in High-Voltage NMC Batteries with the Addition of Reduced Graphene Oxide.. 2022 , 15,	0
390	Mesostructural study on graphenic-based carbon prepared from coconut shells by heat treatment and liquid exfoliation.. 2022 , 8, e09032	0
389	Influence Of Fermi Level Engineering In Multi-Interface CuO/Cu ₂ O rGO h-WO ₃ rGO Photoelectrodes On Photoelectrochemical CO ₂ Reduction.	1
388	Spectroscopic studies on reduced graphene oxide behaviour in multi-step thermal reduction. 2022 , 13, 015008	

387	Polymer/Graphene Nanocomposite Membranes: Status and Emerging Prospects. 2022 , 6, 76		1
386	The promising solar-powered water purification based on graphene functional architectures.		1
385	Flexible graphene electrodes from potentiodynamic reduction in neutral medium for enhanced specific capacitance and cyclic stability. 2022 ,		
384	Potential Directions in the Use of Graphene Nanomaterials in Pharmacology and Biomedicine (Review). 1		0
383	Electrochemical evaluation of highly stable Mn ferrite/PEDOT/rGO ternary nanocomposite for supercapacitor electrodes. 2022 , 33, 7838-7852		0
382	Synthesis of Three-Dimensional Reduced-Graphene Oxide from Graphene Oxide. 2022 , 2022, 1-18		6
381	Epoxy resin reinforced with graphene derivatives: physical and dielectric properties. 2022 , 29, 1		2
380	Preparation of polysiloxane foam with graphene for promoting electromagnetic interference shielding performance and thermal stability. 52376		
379	Ultrasonic-Assisted Exfoliation of Pristine Graphite into few Layers of Graphene Sheets Using NH ₃ as Intercalation Agent. 1055, 111-121		
378	A comprehensive review on the thermal, electrical, and mechanical properties of graphene-based multi-functional epoxy composites. 1		4
377	Engineering the Morphology and Microenvironment of a Graphene-Supported Co-N-C Single-Atom Electrocatalyst for Enhanced Hydrogen Evolution.. 2022 , e2201139		2
376	New Structural Insights into Densely Assembled Reduced Graphene Oxide Membranes. 2201535		4
375	An electrochemical route to holey graphene nanosheets for charge storage applications. <i>Carbon</i> , 2022 ,	10.4	0
374	Low temperature operated highly sensitive, selective and stable NO ₂ gas sensors using N-doped SnO ₂ -rGO nanohybrids. 2022 ,		1
373	Self-Assembly of Adjustable Micropatterned Graphene Oxide and Reduced Graphene Oxide on Porous Polymeric Surfaces. 2102429		0
372	Absorption dominated high-performance electromagnetic interference shielding epoxy/functionalized reduced graphene oxide/Ni-chains microcellular foam with asymmetric conductive structure. 2022 , 223, 109419		3
371	Engineered graphene-based mixed matrix membranes to boost CO ₂ separation performance: Latest developments and future prospects. 2022 , 160, 112294		0
370	Facile and continuous synthesis of graphene nanoflakes in RF thermal plasma. <i>Carbon</i> , 2022 , 193, 51-67	10.4	0

- 369 Ionic liquid crystal mediated preparation of reduced graphene oxide under microwave irradiation. **2022**, 642, 128673 2
- 368 Gas-driven shearing nanonization of lignin particles for efficient reduction of graphene oxide. **2022**, 180, 114665 0
- 367 Graphene oxide and its films produced using a nebulizer spray coating method. **2022**, 151, 111806 1
- 366 Preparation and properties of O-chitosan quaternary ammonium salt/polyvinyl alcohol/graphene oxide dual self-healing hydrogel.. **2022**, 287, 119318 1
- 365 Insights on synthesis and applications of graphene-based materials in wastewater treatment: A review.. **2022**, 298, 134284 2
- 364 Molecule stratification in 2D heterostructured nanochannels towards enhanced selective permeation. **2022**, 440, 135828 0
- 363 Silver metal organic frameworks and copper metal organic frameworks immobilized on graphene oxide for enhanced adsorption in water treatment. **2022**, 439, 135542 2
- 362 Switched electrochemical sensor for hydroquinone based on rGO@Au, monoclinic BiVO₄ and temperature-sensitive polymer composite material. **2022**, 179, 107412 3
- 361 Effect of Electrolytic Medium on the Electrochemical Reduction of Graphene Oxide on Si(111) as Probed by XPS.. **2021**, 12, 3 3
- 360 A Novel Generation of Polysulfone/Crown Ether-Functionalized Reduced Graphene Oxide Membranes with Potential Applications in Hemodialysis.. **2021**, 14, 2 2
- 359 Immobilised rGO/TiO₂ Nanocomposite for Multi-Cycle Removal of Methylene Blue Dye from an Aqueous Medium. **2022**, 12, 385 2
- 358 Macrocyclic-Functionalized RGO for Gas Sensors for BTX Detection Using a Double Transduction Mode. **2021**, 9, 346 1
- 357 Electrochemical Sensor for Methamphetamine Detection Using Laser-Induced Porous Graphene Electrode.. **2021**, 12, 3 3
- 356 Graphene Growth Directly on SiO₂/Si by Hot Filament Chemical Vapor Deposition.. **2021**, 12, 0 0
- 355 Single-Atom Cobalt Incorporated in a 2D Graphene Oxide Membrane for Catalytic Pollutant Degradation.. **2021**, 1 1
- 354 The Inhibition of SARS-CoV-2 3CL M by Graphene and Its Derivatives from Molecular Dynamics Simulations.. **2021**, 1 1
- 353 Integrated Wearable Sensors for Sensing Physiological Pressure Signals and β-Hydroxybutyrate in Physiological Fluids.. **2021**, 4 4
- 352 Recent Developments in the Immobilization of Laccase on Carbonaceous Supports for Environmental Applications - A Critical Review.. **2021**, 9, 778239 3 3

351	Graphene-based biosensors for disease theranostics: Development, applications, and recent advancements. 2021 , 11, 96-116	6
350	Fabrication and prospective applications of graphene oxide-modified nanocomposites for wastewater remediation.. 2022 , 12, 11750-11768	5
349	Mechanical and Morphological Analysis of Electrospun Poly(ϵ -Caprolactone) and Reduced Graphene Oxide Scaffolds for Tissue Engineering. 2022 , 185-189	
348	Fabrication of reduced graphene oxide with high electrical conductivity by thermal-assisted photoreduction of electrochemically-exfoliated graphene oxide.	
347	Controllable thermal treatment of reduced graphene oxide for tunable electromagnetic wave absorption performance. 2022 , 106886	0
346	Polyaniline-decorated carbon fibers for enhanced mechanical and electromagnetic interference shielding performances of epoxy composites. 2022 , 217, 110658	2
345	Relationship between graphene and pedosphere: A scientometric analysis.. 2022 , 300, 134599	4
344	How UV radiation and pH alternation impact graphene oxide mediated environmental toxicant adsorption and resulting safety characteristics - A toxicology study beyond a classic carrier effect.. 2022 , 134627	0
343	Presentation_1.pdf. 2019 ,	
342	Data_Sheet_1.pdf. 2020 ,	
341	Image_1.TIF. 2020 ,	
340	Image_2.TIF. 2020 ,	
339	Image_3.TIF. 2020 ,	
338	Image_4.TIF. 2020 ,	
337	Image_5.tif. 2020 ,	
336	Image_6.tif. 2020 ,	
335	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
334	Challenges surrounding nanosheets and their application to solar-driven photocatalytic water treatment.	1

333	Research on Graphene and Its Derivatives in Oral Disease Treatment.. 2022 , 23,	4
332	Microwave-Assisted Synthesis of Reduced Graphene Oxide with Hollow Nanostructure for Application to Lithium-Ion Batteries.. 2022 , 12,	1
331	Recent advances in graphene-based polymer composite scaffolds for bone/cartilage tissue engineering. 2022 , 103360	1
330	Properties and Applications of Graphene and Its Derivatives in Biosensors for Cancer Detection: A Comprehensive Review. 2022 , 12, 269	2
329	Improved dielectric properties of rGO/PDMS composites by incorporation of Ag nanoparticles. 2022 , 33, 12334	
328	Electromagnetic Interference Shielding by Reduced Graphene Oxide Foils.	1
327	Fabrication of robust CoP/Ni ₂ P/CC composite for efficient hydrogen evolution reaction and the reduction of graphene oxide. 2022 ,	0
326	Improved optical and electrical stability of ZnO nanorods via electrophoretic deposition of graphene thin film. 1	1
325	Ionic liquid dispersed highly conducting polymer electrolyte for supercapacitor application: Current scenario and prospects IJSEM 202110095400832210994	1
324	Correlation between multiple chemical modification strategies on graphene or graphite and physical/electrical properties. 2022 , 33, 100376	0
323	Unveiling deoxygenation thermokinetics for controlling electrical transport and water removal from freestanding graphene oxide paper: Differential scanning calorimetry and thermomechanical analyzer study. 2022 , 126, 109081	
322	Nanofiltration performance of glutaraldehyde crosslinked graphene oxide-cellulose nanofiber membrane. 2022 , 183, 1-12	1
321	Electrical SPR biosensor with thermal annealed graphene oxide: Concept of highly sensitive biomolecule detection. 2022 , 11, 100152	1
320	Reduced graphene oxide supported zinc/cobalt oxide nanoparticles as highly efficient electrocatalyst for oxygen evolution reaction. 2022 , 539, 121008	1
319	Carbon-based Electrically Conductive Materials for Bone Repair and Regeneration.	0
318	Lignin nanoparticles-intercalated reduced graphene oxide/glass fiber composite membranes for highly efficient oil-in-water emulsions separation in harsh environment. 2022 , 129190	1
317	Graphene-Based Metal Oxide Nanocomposites for Gas Sensing Application. 98-115	
316	Machine learning-assisted E-jet printing of organic flexible electronics. 2022 , 114418	1

- 315 Energy Harvesting by Mesoporous Reduced Graphene Oxide Enhanced the Mediator-Free Glucose-Powered Enzymatic Biofuel Cell for Biomedical Applications. 1
- 314 Investigation on strain rate sensitivity of 3D printed sPEEK-HAP/rGO composites. **2022**, 79, 789-802 0
- 313 Insights into the synthesis and application of biochar assisted graphene-based materials in antibiotic remediation. **2022**, 361, 132211 1
- 312 Environmentally benign and biocompatible sensing platform for electroanalytical determination of bisphenol A in the aquatic environment. **2022**, 28, 100713 0
- 311 A Novel Room Temperature So₂ Gas Sensor Based on Tio₂/Rgo Buried-Gate Fet. 0
- 310 Carbon Composite Catalysts for Oxygen Reduction Reactions. **2022**, 107-130 0
- 309 Super-Hydrophobic Graphene-Coated Thermoplastic Polyurethane Porous Monolith with Superior Photothermal Effect for Solar-Assisted Efficient Cleanup of Crude Oil Spill. 0
- 308 Tailored electromagnetic and microwave absorbing properties of multiscale composites by coating reduced graphene oxide over glass fiber. 1-15 2
- 307 The synthesis of novel porous graphene anodes for fast charging and improved electrochemical performance for lithium-ion batteries. **2022**, 44, 4349-4363 1
- 306 A Comprehensive Review on Ion Beam-Reduced Graphene Oxide: Tailoring the Reduction with Optical, Electrical and Electronic Structural Properties. 0
- 305 Electrodeposition of CoxNiVyOz Ternary Nanopetals on Bare and rGO-Coated Nickel Foam for High-Performance Supercapacitor Application. **2022**, 12, 1894 1
- 304 Interactions and spectroscopic characteristics of propidium dication on soluble graphene oxides. **2022**, 133402 1
- 303 Scalable synthesis and electrochemical performance of mesoporous graphene from calcium carbonate by magnesiothermic reaction. **2022**, 0
- 302 Graphene-Based Absorbents for Wastewater Treatment. **2022**, 164-180 0
- 301 Direct-Writing of Multi-Functional Photo-Reduced Graphene Oxide Fabric (rGOf) at the Liquid-Air Interface with Tunable Porosity. 2200148 0
- 300 Advanced wearable biosensors for the detection of body fluids and exhaled breath by graphene. **2022**, 189, 7
- 299 Scanning probe microscopy study of functionalized nanographene. **2022**, 1, 79-88 0
- 298 Chemically exfoliated inorganic nanosheets for nanoelectronics. **2022**, 9, 021313 0

297	Short review on the use of graphene as a biomaterial PROSPECTS, and CHALLENGES in Brazil. 2022,		2
296	Light-weight, low-loading and large-sheet reduced graphene oxide for high-efficiency microwave absorber. <i>Carbon</i> , 2022,	10.4	1
295	Graphene-based membranes for membrane distillation applications: A review. 2022, 10, 107974		2
294	Characterisation of graphene oxide-coated sand for potential use as proppant in hydraulic fracturing. 2022, 15,		0
293	Preparation of multi-axial compressible 3D PVDF nanofibre/graphene wearable composites sensor sponge and application of integrated sensor. 2022, 342, 113648		0
292	Defect-mediated work function regulation in graphene film for high-performing triboelectric nanogenerators. 2022, 99, 107411		1
291	Enhanced electrochemical detection of iodide at a reduced graphene oxide-modified carbon electrode in iodized salts. 2022, 393, 133382		
290	Introduction to graphene-based materials and their composites. 2022, 1-47		
289	3D printing of graphene-based composites and their applications in medicine and health care. 2022, 463-485		
288	Fabrication of flexible temperature sensors to explore indeterministic data analysis for robots as an application of Internet of Things. 2022, 12, 17138-17145		9
287	Vacancy-rich graphene supported electrocatalysts synthesized by radio-frequency plasma for oxygen evolution reaction.		1
286	Structural Evolution of Graphene Oxide and Its Thermal Stability During High Temperature Sintering. 2022, 37, 342-349		0
285	Regeneration of single-atom catalysts deactivated under acid oxygen reduction reaction conditions. 2022,		2
284	Engineering van der Waals Materials for Advanced Metaphotonics.		2
283	Biological Impacts of Reduced Graphene Oxide Affected by Protein Corona Formation.		1
282	A review of humidity-driven actuator: toward high response speed and practical applications.		2
281	Selective Ion Sensing in Artificial Sweat Using Low-Cost Reduced Graphene Oxide Liquid-Gated Plastic Transistors. 2201861		0
280	Green Synthesized Nanomaterials for Safe Technology in Sustainable Agriculture. 2022, 23,		3

279	Graphene Oxide (GO) Materials Applications and Toxicity on Living Organisms and Environment. 2022 , 13, 77	4
278	Redispersible Reduced Graphene Oxide Prepared in a Gradient Solvent System. 2022 , 12, 1982	
277	Three-dimensional finite element modelling for influence of reduced graphene oxide on cracking index of mass mortar blocks due to heat of hydration. 1-13	
276	Preparation of multi-function graphene materials through electrode-distance controlled electrochemical exfoliation. 2022 , 33, 375601	0
275	Increased dielectric properties of ZnFe ₂ O ₄ /rGO nanohybrid via thermo-chemical route.	
274	Synthesis of Graphene-based Nanomaterials for Medicinal Applications: A Mini-Review. 2022 , 26,	
273	Beyond single-atom catalysts: Exploration of Cu dimer and trimer for CO ₂ reduction to methane. 2022 , 642, 118708	0
272	Preparation, synthesis, properties and characterization of graphene-based 2D nano-materials for biosensors and bioelectronics. 2022 , 19, 2657-2694	3
271	Enhanced photocatalytic activity of reduced graphene oxide-TiO ₂ nanocomposite for picric acid degradation. 2022 , 142, 109660	1
270	Immobilized graphene oxide-based membranes for improved pore wetting resistance in membrane distillation. 2022 , 537, 115898	0
269	Fabrication of multilayer film with graphene oxide of different surface charge through electrospray deposition. 2022 , 599, 153977	1
268	Nanotechnology: A sustainable solution for heavy metals remediation. 2022 , 18, 100718	1
267	Graphene oxide: Synthesis and properties. 2022 , 31-64	
266	Manufacturable biosensors based on graphene films. 2022 , 243-307	
265	Biomedical Applications of Nanomaterials. 2022 , 1-23	
264	Effect of the reduced graphene oxide on the tribological behavior of UHMWPE / rGO nanocomposites under sliding contact conditions.	1
263	Influence of interfacial aspects on electromagnetic interference shielding performance of graphene reinforced nanocomposites: an overview. 1-24	1
262	Enhanced methane production kinetics by graphene oxide in fed-batch tests. 2022 , 127642	1

- 261 Development and Up-Scaling of Electrochemical Production and Mild Thermal Reduction of Graphene Oxide. **2022**, 15, 4639 1
- 260 Enabling water-based processing of graphene/alumina composites using an infiltration approach with amphiphilic triblock copolymers. **2022**,
- 259 A novel room temperature SO₂ gas sensor based on TiO₂/rGO buried-gate FET. **2022**, 263, 111841 0
- 258 Effect of reduction time of functionalized graphene oxide on the morphology and properties of epoxy composite foams. 0021955X2210954 1
- 257 Agarose Gel-Templating Synthesis of a 3D Wrinkled Graphene Architecture for Enhanced Supercapacitor Performance. **2022**, 13, 1113
- 256 Heterojunctions of rGO/Metal Oxide Nanocomposites as Promising Gas-Sensing Materials: A Review. **2022**, 12, 2278 3
- 255 Layered Assembly of Graphene Oxide Paper for Mechanical Structures. 0
- 254 Self-Assembled Biohybrid: A Living Material To Bridge the Functions between Electronics and Multilevel Biological Modules/Systems.
- 253 The anticancer properties of metal-organic frameworks and their heterogeneous nanocomposites. **2022**, 139, 213013 0
- 252 Graphene coated sand for smart cement composites. **2022**, 346, 128313 1
- 251 New insights into the structure and chemical reduction of graphene oxide membranes for use in isotopic water separations. **2022**, 659, 120785 0
- 250 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
- 249 Low-temperature NH₃-SCR reaction over 3D Cu/Fe-TiO₂-rGO composite catalyst synthesized by photoreduction method. **2022**, 450, 138152
- 248 Graphene-based porous nanohybrid architectures for adsorptive and photocatalytic abatement of volatile organic compounds. **2022**, 119805 1
- 247 High-performance dual carbon lithium-ion capacitors based on nitrogen-doped 2D carbon nanosheets as both anode and cathode. **2022**, 140921 0
- 246 White lead: A new naturally occurring 2D material.
- 245 Arbitrary-Shaped, Ultrastrong, and Highly Conductive Monoliths Directly Annealed by Graphene Oxide Ionic Putties for Corrosion-Resistant Joule Heating.
- 244 Mechanisms of NO₂ Detection in Hybrid Structures Containing Reduced Graphene Oxide: A Review. **2022**, 22, 5316 4

- 243 Realizing load bearing-heat insulation integration of lightweight porosity-controlled SiC(rGO) bulk ceramics via precursor route for hypersonic vehicles. **2022**, 0
- 242 Conformal Encapsulation of Silver Nanowire Transparent Electrodes by Nanosized Reduced Graphene Oxide Leading to Improved All-Round Stability. 1
- 241 Multi-scale analysis of the strengthening mechanism of functionalized graphene as reinforcement in cement composites. **2022**, 651, 129729
- 240 Environmental Health and Safety of Engineered Nanomaterials. **2022**, 1-47
- 239 Cellulose nanofibrils/graphene hybrids: recent advances in fabrication, properties, and applications. 2
- 238 Photo-Thermal Tuning of Graphene Oxide Coated Integrated Optical Waveguides. **2022**, 13, 1194 2
- 237 Efficient Removal of Siloxane from Biogas by Using β -Cyclodextrin-Modified Reduced Graphene Oxide Aerogels. **2022**, 12, 2643
- 236 Graphene-Based Fiber Supercapacitors. 0
- 235 Fabrication of Binderless Electrodes via Non-destructive Electrochemical Oxidation/Reduction of Graphite Sheets using BF_4 Salts. **2022**, 141087 2
- 234 Charge Transport in UV-Oxidized Graphene and Its Dependence on the Extent of Oxidation. **2022**, 12, 2845
- 233 Comparative study of adsorption performances of lead (II) ions on green synthesized graphene oxide and reduced graphene oxide: isotherm and thermodynamic studies.
- 232 Crystallization Behavior and Morphology of Biodegradable Poly(ϵ -caprolactone)/Reduced Graphene Oxide Scaffolds. **2022**, 7, 116
- 231 Graphene and CNT-Based Smart Fiber-Reinforced Composites: A Review. 2205723 8
- 230 Flake Graphene as an Efficient Agent Governing Cellular Fate and Antimicrobial Properties of Fibrous Tissue Engineering Scaffolds: A Review. **2022**, 15, 5306
- 229 Pool-Boiling Performance on Thin Metal Foils with Graphene-Oxide-Nanoflake Deposit. **2022**, 12, 2772 0
- 228 Efficient and Stable Inverted Perovskite Solar Cells with Graphene Oxide-Modified Hole Transport Layer. 2200061 1
- 227 Fighting Antibiotic-Resistant Bacterial Infections by Surface Biofunctionalization of 3D-Printed Porous Titanium Implants with Reduced Graphene Oxide and Silver Nanoparticles. **2022**, 23, 9204
- 226 Graphene Oxide Influences on Bacterial Community Diversity of *Larix olgensis* Rhizosphere of Haplic Cambisols in Northeast China. 0

225	Graphene-based polymer nanocomposites in food packaging and factors affecting the behaviour of graphene-based materials: a review. 2022 , 24,	1
224	Graphene Oxide Liquid Crystals Aligned in a Confined Configuration: Implications for Optical Materials. 2022 , 5, 11506-11518	1
223	SILAR processing and characterization of bare and graphene oxide (GO) and reduced graphene oxide (rGO)-doped CuO thin films. 2022 , 128,	
222	Carbonaceous nanomaterials incorporated biomaterials: The present and future of the flourishing field. 2022 , 243, 110150	4
221	Flexible iontronics based on 2D nanofluidic material. 2022 , 13,	2
220	Highly Stable Iron- and Carbon-Based Electrodes for Li-Ion Batteries: Negative Fading and Fast Charging within 12 Min.	1
219	Novel electrochemical sensor based on Fe ₃ O ₄ -ZrO ₂ -graphene oxide for determination of dopamine.	1
218	Corrosion Resistance and Thermal Conductivity Enhancement of Reduced Graphene Oxide/BaSO ₄ /Epoxy Composites. 2022 , 14, 3144	
217	Electro-thermal properties and characterization of the flexible polyurethane-graphene nanocomposite films.	0
216	Hydrothermal synthesis of rGO-MnO ₂ nanocomposite: Characterization and in vitro biological evaluation. 2022 , 15, 100162	0
215	Color carbon fiber and its discoloration response. 2022 , 199, 42-50	2
214	Novel hybrid natural rubber nanocomposites with carbon nanotube and cellulose nanofiber for strain-sensitive sensor. 2022 , 187, 115455	0
213	Synthesis of graphene oxide using boric acid in hummers method. 2022 , 652, 129802	2
212	Multi-layer interface lubrication of in-situ synthesized titanium dioxide/reduced graphene oxide nanocomposites. 2022 , 604, 154571	0
211	High aspect ratio copper nanowires and copper nanoparticles decorated by reduced graphene oxide for flexible transparent conductive electrodes. 2022 , 604, 154597	2
210	Highly conductive and sensitive piezoresistive cement mortar with graphene coated aggregates and carbon fiber. 2022 , 134, 104731	2
209	A 3D rGO-supported NiFe ₂ O ₄ heterostructure from sacrificial polymer-assisted exfoliation of NiFe-LDH for efficient oxygen evolution reaction. 2022 , 200, 422-429	0
208	Graphene oxide: A mini-review on the versatility and challenges as a membrane material for solvent-based separation. 2022 , 12, 100392	1

- 207 Super-hydrophobic graphene-coated thermoplastic polyurethane porous monolith with superior photothermal effect for solar-assisted efficient cleanup of crude oil spill. **2022**, 605, 154701 ○
- 206 Understanding the high chemi-catalytic reactivity of graphene quantum dots to rapidly generate reactive oxygen species. **2022**, 263, 118072 ○
- 205 Facile fabrication of flexible alginate/polyaniline/graphene hydrogel fibers for strain sensor. **2022**, 17, 155892502211146 1
- 204 Monolayer and bilayer graphene. **2022**, ○
- 203 A high-performance supercapacitor based on free-standing V4C3TX@NiO-reduced graphene oxide core-shell hierarchical heterostructured hydrogel electrodes. ○
- 202 Photo-Thermal Optical Tuning of Waveguides Integrated With 2D Graphene Oxide Thin Films. ○
- 201 Carbon nanomaterial-based membranes for water and wastewater treatment under electrochemical assistance. ○
- 200 Demonstration of Bare Laser-Reduced Graphene Oxide Sensors for Ammonia and Ethanol. ○
- 199 Graphene and Graphene-Based Sustainable Composites. **2022**, 1-14 ○
- 198 Investigation of Ceramic Based Composites by Using 2D Graphene Filler. **2022**, 11, 19-29 ○
- 197 Multimodal Imaging and Phototherapy of Cancer and Bacterial Infection by Graphene and Related Nanocomposites. **2022**, 27, 5588 ○
- 196 The Effect of Carbon/Oxygen Ratio upon Structure-Property Relationships in Polymer/Graphene Nanocomposites. 37, 59-78 ○
- 195 A Brief Review: The Use of L-Ascorbic Acid as a Green Reducing Agent of Graphene Oxide. **2022**, 15, 6456 1
- 194 An Electrochemical Sensor Based on Reduced Graphene Oxide and Copper Nanoparticles for Monitoring Estriol Levels in Water Samples after Bioremediation. **2022**, 10, 395 ○
- 193 Structural Control and Electrical Behavior of Thermally Reduced Graphene Oxide Samples Assisted with Malonic Acid and Phosphorus Pentoxide. **2022**, 10, 142 ○
- 192 Nanostructured MnFe₂O₄ anchored on graphene oxide and reduced graphene oxide sheets for effective regulation of microwave absorption performance. **2022**, 410, 117895 ○
- 191 PrMem: Novel flexible biodegradable paper-graphene oxide-based memristor. ○
- 190 TiO₂/rGO aerogels toward ultra-wide electromagnetic wave absorption properties. ○

189	Multifunctional Thermal, Acoustic, and Piezoresistive Properties of In Situ-Modified Composite Aerogels with Graphene Oxide as the Main Phase. 2022 , 14, 43646-43655	0
188	Artificial Intelligence-Aided Low Cost and Flexible Graphene Oxide-Based Paper Sensor for Ultraviolet and Sunlight Monitoring. 2022 , 17,	0
187	Preparation of Graphene Conductive Fabrics and the Study of Their Degradation Behavior. 2022 , 12, 1432	0
186	Through Plane Networked Graphene Oxide/Polyester Hybrid Thermal Interface Material for Heat Management Applications. 1-10	0
185	Preparation and characterization of soy polyols-based PU shell microencapsulated phase change materials for reliable thermal energy storage.	1
184	Graphene Film Growth on Silicon Carbide by Hot Filament Chemical Vapor Deposition. 2022 , 12, 3033	0
183	Realizing the Application Potential of Graphene-Modified Bionanocomposites for Prosthesis and Implant Applications. 2023 , 323-336	0
182	Overview assessment of risk evaluation and treatment technologies for heavy metal pollution of water and soil. 2022 , 134043	8
181	Solvent-free Pechmann synthesis of coumarins catalyzed by magnetic heterogeneous catalyst Fe ₃ O ₄ @rGO-NH.	0
180	Avoiding Desiccation Cracks during the Formation of Multilayer Graphene Oxide Films.	0
179	Graphene/carbon-based materials for advanced energy conversion applications. 2022 , 13, 033005	0
178	Synergy Effect of High-Stability of VS ₄ Nanorods for Sodium Ion Battery. 2022 , 27, 6303	0
177	Carbon and Carbon/Metal Hybrid Structures Enabled by Ultrafast Heating Methods. 2200112	0
176	Optical Biosensor Based on Graphene and Its Derivatives for Detecting Biomolecules. 2022 , 23, 10838	3
175	Mechanical properties and mechanisms of alkali-activated slag paste reinforced by graphene oxide-SiO ₂ composite. 2022 , 134502	0
174	IMPRINTING OF DIFFERENT TYPES OF GRAPHENE OXIDE WITH METAL CATIONS. 2022 , 141307	0
173	Cost effective production of high quality multilayer graphene in molten Sn bubble column by using CH ₄ as carbon source. 2022 , 167495	1
172	A two-step chemical-hydrothermal reduction method to prepare reduced graphene oxide with high electrical conductivity. 2022 , 109437	0

- 171 The overlooked role of $\text{Co}(\text{OH})_2$ in Co_3O_4 activated PMS system: suppression of Co^{2+} leaching and enhanced degradation performance of antibiotics with rGO. **2022**, 122203 0
- 170 Synthesis of rGO NPs hybrids with electrocatalytic activity for hydrogen evolution reaction. 0
- 169 Dielectric and electrical properties of reduced graphene oxide paper after electron irradiation. **2022**, 48, 832-839 0
- 168 Preparation of $\text{SnO}_2@\text{TiO}_2/\text{Graphene}$ by micro-arc oxidation as an anode material for lithium ion batteries. **2022**, 145, 110048 0
- 167 Effect of graphene-based additives on mechanical strength and microstructure of gypsum plaster. **2022**, 33, 104555 0
- 166 Nanofluidic proton channels based on a 2D layered glass membrane with improved aqueous and acid stability. **2022**, 12, 29640-29646 0
- 165 Recent Advances in Modeling and Experimental Prediction of Properties of Graphene Reinforced Natural Rubber Composites: A Review (Part 1). **2022**, 0
- 164 A New Type Of Graphene Based Bone Scaffold In Tissue Engineering. **2022**, 10, 1890-1909 0
- 163 X-ray photoelectron spectroscopy and temperature-dependent electrical transport properties of MnFe_2O_4 -reduced graphene oxide nanocomposites. **2022**, 0
- 162 Recent development of graphene-based composite for multifunctional applications: energy, environmental and biomedical sciences. 1-69 1
- 161 Graphene-based materials: properties, advancements and applications. 1-15 0
- 160 Use of Reduced Graphene Oxide to Modify Melamine and Polyurethane for the Removal of Organic and Oil Wastes. **2022**, 15, 7371 0
- 159 Hydrogen Plasma on Graphene Oxide to Produce Gradients of Oxygen-Containing Functional Groups for Self-Powered Devices. 0
- 158 Comprehensive review of low pull-in voltage RF NEMS switches. 0
- 157 Graphene and Its Derivatives: Synthesis and Application in the Electrochemical Detection of Analytes in Sweat. **2022**, 12, 910 5
- 156 Three-dimensional printed carbon-based microbatteries: progress on technologies, materials and applications. **2022**, 37, 898-917 0
- 155 Biocompatible graphene/chitosan hybrid aerogel reinforced polydimethylsiloxane nanocomposite with excellent dielectric properties. 0
- 154 Multifunctional Bioactive Scaffolds from ARX-g-(Zn@rGO)-HAp for Bone Tissue Engineering: In Vitro Antibacterial, Antitumor, and Biocompatibility Evaluations. 2

153	Nanostructured Lead Electrodes with Reduced Graphene Oxide for High-Performance Lead-Acid Batteries. 2022 , 8, 211	0
152	Exploring the impact of doping and co-doping with B and N on the properties of graphene oxide and its photocatalytic generation of hydrogen. 2022 ,	0
151	Water-based chitosan/reduced graphene oxide ink for extrusion printing of a disposable amperometric glucose sensor a. 2022 , 100443	0
150	Synthesis of clay-reduced graphene oxide composite catalysts for the electrochemical detection of flubendiamide: application in food samples. 2022 , 26, 101215	0
149	The interaction between semiconductor ZnSe quantum dots and graphene oxide: Ultrafast charge transfer dynamics. 2022 , 252, 119422	0
148	Microwave-assisted synthesis of iron oxide homogeneously dispersed on reduced graphene oxide for high-performance supercapacitor electrodes. 2022 , 56, 105896	1
147	Degradation of polymer nanocomposites filled with graphene oxide and reduced graphene oxide nanoparticles: A review of current status. 2022 , 206, 110179	1
146	Single process of pulsed wire discharge for defect healing and reduction of graphene oxide. 2023 , 201, 1184-1192	0
145	High thermal stability of foams stabilized by graphene oxide and zwitterionic surfactant nanocomposites for fracturing applications. 2023 , 332, 126156	0
144	Chemically reduced graphene oxide/chitosan hybrid; a nanoscale Fabric Starch. 2023 , 609, 155229	0
143	Flexible and stretchable transparent conductive graphene-based electrodes for emerging wearable electronics. 2023 , 202, 495-527	1
142	Ultrafast charge transfer dynamics of Rhodamine B with graphene oxide.	1
141	Three-dimensional ZnO@TiO ₂ /graphene aerogel for water remediation: The screening studies of adsorption and photodegradation. 2022 ,	0
140	Antimicrobial Activity of Graphene-Based Nanocomposites: Synthesis, Characterization, and Their Applications for Human Welfare. 2022 , 12, 4002	2
139	Effect of reduced graphene oxide, multi-walled carbon nanotubes and their mixtures on the electrical conductivity and mechanical properties of a polymer composite with a segregated structure. 002199832211395	0
138	The Effects of Ultrasound Treatment of Graphite on the Reversibility of the (De)Intercalation of an Anion from Aqueous Electrolyte Solution. 2022 , 12, 3932	0
137	Conniving for the first time of BiVO ₄ - rGO/CE-BN and its Potential as enhanced electrochemical sensing of non-steroidal anti-androgen drug. 2022 , 108174	1
136	Explosive percolation yields highly-conductive polymer nanocomposites. 2022 , 13,	1

- 135 Facile formation of porous, multilayer reduced graphene oxide electrodes using electrophoretic deposition and flash sintering. **2022**, ○
- 134 Nanostructured Graphene Oxide-Based Catalysts for Fischer-Tropsch Synthesis. **2022**, 275-289 ○
- 133 Quantum-dot-like electrical transport of free-standing reduced graphene oxide paper at liquid helium temperatures. **2022**, 109538 ○
- 132 Comparative study of miracle leaf extracts reduced graphene oxide (m-rGO) and chemically synthesized graphene oxide (GO) as methanol gas sensor. ○
- 131 Fabrication, properties, and performance of graphene-based textile fabrics for supercapacitor applications: A review. **2022**, 56, 105988 1
- 130 Supercritical carbon dioxide assisted synthesis of ultra-stable sulfur/carbon composite cathodes for LiS batteries. **2022**, 26, 101240 ○
- 129 Influence of graphene oxide on the bile salts-ligand interaction: a spectroscopy study. ○
- 128 An ion exchange membrane-free, ultrastable zinc-iodine battery enabled by functionalized graphene electrodes. **2023**, 55, 680-690 ○
- 127 Graphene oxide induced prototropism in different solvents: Enhancement of fluorescence induced by graphene oxide. **2023**, 369, 120880 ○
- 126 Enhancing solar absorbance using a 2D graphene oxide/CuO composite film for efficient solar desalination. ○
- 125 Understanding the nature of graphene oxide functional groups by modulation of the electrochemical reduction: A combined experimental and theoretical approach. **2023**, 203, 29-38 ○
- 124 Strategically improving electrical conductivity of reduced graphene oxide through a series of reduction processes. **2023**, 333, 133648 ○
- 123 Innovations in the synthesis of graphene nanostructures for bio and gas sensors. **2023**, 145, 213234 2
- 122 Performance of graphene Oxide/SiO₂ Nanocomposite-based: Antibacterial Activity, dye and heavy metal removal. **2023**, 16, 104450 ○
- 121 Production of graphene-derivatives using organic molecules for supercapacitors and beyond. **2023**, 658, 130693 ○
- 120 Synthesis techniques and advances in sensing applications of reduced graphene oxide (rGO) Composites: A review. **2023**, 165, 107373 1
- 119 Synthesis of Gold Nanoparticles and Their Reduced Graphene Oxide Nanocomposites Through a Simplified Approach and Assessment of Their Bactericidal Potential. **2022**, 14, 1361-1368 ○
- 118 CO₂-Based Poly(propylene carbonate) Functionalized for Sustainable Nanocomposites by a Controllable Magnetic Field. **2022**, 10, 16377-16388 ○

- 117 Recent biomedical advancements in graphene oxide- and reduced graphene oxide-based nanocomposite nanocarriers. **2022**, 26, 0
- 116 High performance and durable graphene-grafted cathode for electro-Fenton degradation of tetramethyldecynediol. **2022**, 140643 0
- 115 A Simple, Sensitive, and Selective Electrochemical Aptasensor for Cortisol based on rGO-AuNPs. 0
- 114 Boosting bone regeneration using augmented melt-extruded additive-manufactured scaffolds. 1-31 0
- 113 Fabrication of Poly(3, 4-ethylenedioxythiophene)/O₈ Co-Doped Porous Carbon Composites as Electrode Materials for Supercapacitors. **2022**, 7, 1
- 112 Quenching of oxygen-related defects in graphene oxide nanohybrid: Highly selective room-temperature ethanol sensor. **2022**, 9, 041407 0
- 111 A 3D Framework with Li₃N₂S Solid Electrolyte Interphase and Fast Ion Transfer Channels for a Stabilized Lithium-Metal Anode. 2209028 0
- 110 Compressive Failure of Polymer Composites Based on Graphene-Coated Particles. 0
- 109 Polymer/Carbon Composites with Versatile Interfacial Interactions for High Performance Carbon-Based Thermoelectrics: Principles and Applications. 2208813 0
- 108 The Effect of Pristine Graphene on the Mechanical Properties of Geopolymer Mortar. **2023**, 15, 1706 0
- 107 EXTERNAL PUMPED ALL-OPTICAL MICROFIBER MODULATOR BASED ON REDUCED GRAPHENE OXIDE. 0
- 106 Manufacturing Strategies for Graphene Derivative Nanocomposites Current Status and Fruitions. **2023**, 3, 1-19 0
- 105 Silver/reduced graphene oxide nanocomposite materials synthesized via a green molecular level mixing. 002199832311521 0
- 104 Transparent, patterned graphene oxide films with tunable electrical conductivity using thermal, chemical, and photoreduction techniques for lab-on-a-chip applications. 0
- 103 Reduced graphene oxide/polyurethane coatings for wash-durable wearable piezoresistive sensors. 2
- 102 Graphene-Based Electrochemical Biosensors for Breast Cancer Detection. **2023**, 13, 80 1
- 101 Nature-Inspired Interconnected Macro/Meso/Micro-Porous MXene Electrode. 2211199 0
- 100 Influence of modified perylene-3, 4, 9, 10-tetracarboxylate with alkali metals ions as surfactant on the yield of hydrothermal liquid-phase exfoliated graphene sheets. 0

99	Porous functional materials with excellent solar-thermal and electro-thermal properties for desalination of saline water. 2023 , 123184	1
98	Ultrathin Graphene Oxide-Based Nanocomposite Membranes for Water Purification. 2023 , 13, 64	0
97	Tuning Oxygen-Containing Functional Groups of Graphene for Supercapacitors with High Stability.	1
96	ZnO/Graphene Composite from Solvent-Exfoliated Few-Layer Graphene Nanosheets for Photocatalytic Dye Degradation under Sunlight Irradiation. 2023 , 14, 189	0
95	A Review on Properties and Environmental Applications of Graphene and Its Derivative-Based Composites. 2023 , 13, 111	1
94	Environmental Health and Safety of Engineered Nanomaterials. 2023 , 801-846	0
93	Graphene oxide for photonics, electronics and optoelectronics.	4
92	The functional and synergetic optimization of thermal-catalytic system for the selective oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran: A review.	0
91	Bis-terpyridine imprinted nanocage in the confined two-dimensional lamellar membrane for selective adsorption of Nd(III). 2023 , 310, 123095	0
90	Extraction of Novel Effective Nanocomposite Photocatalyst from Corn Stalk for Water Photo Splitting under Visible Light Radiation. 2023 , 15, 185	0
89	H3PO4/KOH Activation Agent for High Performance Rice Husk Activated Carbon Electrode in Acidic Media Supercapacitors. 2023 , 28, 296	1
88	Synthesis and enhanced photocatalytic application of porous nanocomposites of (r)GO/TiO2 embedded HCP (hyper crosslinked polymer).	0
87	Hydrothermal synthesis of an SnO2@GO nanocomposite using tea extract as a reducing agent for daylight-driven photocatalyst and supercapacitors.	0
86	Emerging Trends and Future Direction of Graphene Family of Materials as Potential Antimicrobials: A Critical Review. 673-693	0
85	Graphene oxide: Fe2O3 nanocomposite: synthesis, properties, and applications.	0
84	Self-assembled three-dimensional hydrogels based on graphene derivatives and cerium oxide nanoparticles: scaffolds for co-culture of oligodendrocytes and neurons derived from neural stem cells.	0
83	Bionic Opto-responsive Fiber for Directing Neurite Growth. 2023 , 100311	0
82	Advances in the Physico-Chemical, Antimicrobial and Angiogenic Properties of Graphene-Oxide/Cellulose Nanocomposites for Wound Healing. 2023 , 15, 338	1

- 81 Improved Recovery of Overloaded Anaerobic Batch Reactors by Graphene Oxide. **2023**, 15, 2224 ○
- 80 Robust FDTD Modeling of Graphene-Based Conductive Materials with Transient Features for Advanced Antenna Applications. **2023**, 13, 384 ○
- 79 Thermo-responsive functionalized polymeric nanocomposites. **2023**, 219-240 ○
- 78 Current advancement and development of functionalized carbon nanomaterials for biomedical therapy. **2023**, 381-413 ○
- 77 Reducing Carbonaceous Salts for Facile Fabrication of Monolayer Graphene. 2201596 1
- 76 Graphene Oxide Based Nanofiltration Membrane for Wastewater Treatment. **2023**, 55-67 ○
- 75 Molecular-level uniform graphene/polyaniline composite film for flexible supercapacitors with high-areal capacitance. ○
- 74 Enhancement of Self-Healing Efficacy of Conductive Nanocomposite Hydrogels by Polysaccharide Modifiers. **2023**, 15, 516 ○
- 73 Influence of thermal interfacings on reduced graphene oxide characteristics and its photocatalytic activity degrading Rhodamine B. **2023**, 34, ○
- 72 Graphene-based polymer coatings for preventing marine corrosion: a review. ○
- 71 Combined computational and experimental study about the incorporation of phosphorus into the structure of graphene oxide. **2023**, 25, 6927-6943 ○
- 70 Facile fabrication of robust self-cleaning fluorine-free reduced graphene oxide based superhydrophobic surfaces. ○
- 69 Artificial Helical Screws of 2D Materials with Archimedean Spiral Arrangement. 2212997 ○
- 68 Sandwich Structured Metal oxide/Reduced Graphene Oxide/Metal Oxide-Based Polymer Electrolyte Enables Continuous Inorganic/Organic Interphase for Fast Lithium-Ion Transportation. 2207536 ○
- 67 Reduced graphene oxides prepared via explosive and non-explosive thermal reduction: Structural evolution, functional properties and reinforcing efficacy. **2023**, 118007 ○
- 66 Doping of Laser-Induced Graphene and Its Applications. ○
- 65 Environmental-friendly and effectively regenerate anode material of spent lithium-ion batteries into high-performance P-doped graphite. **2023**, 161, 52-60 ○
- 64 Synthesis of Graphene Oxide from Sugarcane Dry Leaves by Two-Stage Pyrolysis. **2023**, 28, 3329 ○

- 63 Structural and flame retardancy properties of GO-DOPO-HAK composite. ○
- 62 Green Methods for the Fabrication of Graphene Oxide Membranes: From Graphite to Membranes. **2023**, 13, 429 ○
- 61 Electrochemically Versatile Graphite Nanoplatelets Prepared by a Straightforward, Highly Efficient, and Scalable Route. ○
- 60 Janus hollow fibre membranes with intrusion anchored structure for robust desalination and leachate treatment in direct contact membrane distillation. **2023**, 551, 116423 1
- 59 Multifunctional nanofibrillated cellulose/ZnO@rGO composite films for thermal conductivity, electrical insulation, and antibacterial applications. **2023**, 312, 116896 ○
- 58 Tribocorrosion behavior of graphene-based solid lubricants biofunctionalized with hyaluronic acid on CoCr surfaces. **2023**, 183, 108420 ○
- 57 Effective removal of hexavalent chromium by novel modified alginate-based biocomposites: Characterization, kinetics and equilibrium studies. **2023**, 49, 16440-16450 ○
- 56 Development of chemically synthesized hydroxyapatite composite with reduced graphene oxide for enhanced mechanical properties. **2023**, 142, 105845 ○
- 55 Effects of nitrogen, sulphur, and temperature treatments on the spectral, structural, and electrochemical characteristics of graphene oxide for energy storage applications. **2023**, 11, 100262 ○
- 54 Precisely tailored graphene oxide membranes on glass fiber supports for efficient hydrogen separation. **2023**, 675, 121529 ○
- 53 Significance of different dopamine species as reducing agents of graphene oxide: Fundamental aspects. **2023**, 732, 122285 ○
- 52 Mixed-valence palladium single-atom catalyst induced by hybrid TiO₂-graphene through a photochemical strategy. **2023**, 625, 157115 ○
- 51 Photocatalytic performances of manganese oxide nanorods decorated graphene oxide nanocomposites. **2023**, 135, 109820 ○
- 50 Flexible graphene pressure sensor based on sponge sewn with cotton. **2023**, 354, 114266 ○
- 49 One step biosynthetic mechanism of hybrid reduced graphene oxide/Mn nanoparticles used for simultaneous removal antibiotics. **2023**, 36, e00616 ○
- 48 Star-shaped furoate-PCL: An effective compound for the development of graphite nanoplatelets-based films. **2023**, 184, 105515 ○
- 47 Tunable Interlayer Interactions in Reduced Graphene Oxide Paper. **2023**, 15, 7627-7634 ○
- 46 Graphene in wearable textile sensor devices for healthcare. **2022**, 54, 201-245 ○

- 45 Polypyrrole-modified multi-functional coatings for improved electro-conductive, hydrophilic and flame-retardant properties of polyamide 66 textiles. ○
- 44 Graphene and Graphene Based Nanocomposites for Bio-Medical and Bio-safety Applications. **2023**, 8, ○
- 43 Understanding solvothermal reductive reactions of graphene oxide in boron and ammonia solutions. **2023**, 34, ○
- 42 Lamellar Graphene Oxide-Based Composite Membranes for Efficient Separation of Heavy Metal Ions and Desalination of Water. **2023**, 8, 7648-7656 ○
- 41 Biocatalysts in Biohydrogen Production. 205-217 ○
- 40 Carbon-Based Materials and Their Applications in Sensing by Electrochemical Voltammetry. **2023**, 11, 81 ○
- 39 Growth and characterization of L - Methionine Barium Bromide (LMBB) semi-organic crystal for optical limiting applications. **2023**, 278, 170705 ○
- 38 Lightning Strike Protection: Current Challenges and Future Possibilities. **2023**, 16, 1743 ○
- 37 Graphene Oxide and Polymer Humidity Micro-Sensors Prepared by Carbon Beam Writing. **2023**, 15, 1066 ○
- 36 Automated Approach to In Vitro Image-Guided Photothermal Therapy with Top-Down and Bottom-Up-Synthesized Graphene Quantum Dots. **2023**, 13, 805 1
- 35 Graphene nanoplatelets and other 2D-materials as protective means against the fading of coloured inks, dyes and paints. **2023**, 15, 5414-5428 ○
- 34 On the design and development of foamed GO-hydrogel nanocomposite surfaces by ultra-short laser processing. **2023**, 34, 245701 ○
- 33 Preparation of stretchable and porous graphene paper via functionalized with diol oligomer. **2023**, 34, ○
- 32 Graphene Oxide Based Transparent Resins For Accurate 3D Printing of Conductive Materials. 2214954 ○
- 31 A review on electroless NiB nanocomposite coatings: effect of hard, soft, and synergistic nanoparticles. **2023**, 58, 4292-4358 ○
- 30 Graphene and its quantum dots. **2023**, 1-25 ○
- 29 Diffusion-assisted metallic invasion into graphene oxide layer in metal/graphene oxide/metal structures. **2023**, 38, 1832-1842 ○
- 28 Noble-Metal-Free Reduced Graphene Oxide Platforms for Room-Temperature H₂ Sensing in High-Humidity Conditions. **2023**, 5, 1824-1833 ○

- 27 Recent advances on the development of graphene-based field-effect transistors, electrochemical biosensors and electrochemiluminescence biosensors. ○
- 26 Graphene Nanocomposites in Space Sector Fundamentals and Advancements. **2023**, 9, 29 ○
- 25 Laser-Induced Graphene Hologram Reconfiguration for Countersurveillance Multisecret Sharing. 2200805 ○
- 24 Graphene prepared by flash joule heating from biowaste for microwave absorption. **2023**, ○
- 23 Healing double vacancy defects on graphene: reconstruction by C2 adsorption. **2023**, 25, 10759-10768 ○
- 22 Etched MMF optical fiber based LMR biosensor for dopamine detection. **2023**, ○
- 21 Photo-thermal tuning of graphene oxide coated integrated optical waveguides. **2023**, ○
- 20 Potential of graphene-modified nanostructures for multifunctional personal protective clothing. **2023**, 195-218 ○
- 19 Synthesis, Characterization, and Electrochemical Performance of rGO-MWCNT/Mn-Co-Cu Nanohybrid as Novel Catalyst for Methanol Electrooxidation. **2023**, 37, 5489-5498 ○
- 18 Recent approach in producing transparent conductive films (TCFs). ○
- 17 Fischer-Tropsch synthesis using cobalt catalysts supported on graphene materials: a systematic review. **2023**, 49, 2025-2052 ○
- 16 Modifying superparamagnetic iron oxides nanoparticles for doxorubicin delivery carriers: a review. **2023**, 25, ○
- 15 Density functional theory (DFT) simulation and approach to property-driven investigations in ceramic and composites materials. **2023**, 461-490 ○
- 14 A critical review of carbon materials engineered electrically conductive cement concrete and its potential applications. 1-27 ○
- 13 Design and advanced manufacturing of electromagnetic interference shielding materials. **2023**, ○
- 12 Graphene-based Composite Materials as Catalyst for Organic Transformations. **2023**, 8, ○
- 11 Desorption of chemical species during thermal reduction of graphene oxide films. **2023**, 129524 ○
- 10 Comparison of Thermal and Laser-Reduced Graphene Oxide Production for Energy Storage Applications. **2023**, 13, 1391 ○

- 9 Effects of graphene oxide addition in properties of shielded metal arc welding joints. ○
- 8 Loading nano-rod cobalt phthalocyanine onto nitrogen-doped graphene and its application in photodegradation reaction under visible-light. **2023**, 122721 ○
- 7 A surface-enhanced Raman scattering sensor for the detection of benzo[a]pyrene in foods based on a gold nanostars@reduced graphene oxide substrate. **2023**, 136171 ○
- 6 Biomimetic Aerogel with Aligned Porous Structures from Ice Templating for Water Evaporation-Induced Electricity Generation. ○
- 5 Confocal Microscopy for In Situ Multi-Modal Characterization and Patterning of Laser-Reduced Graphene Oxide. ○
- 4 Fabrication and structural elucidation of graphene oxide-based nanocomposites (GO-Ag, rGO-Ag) for degradation of methylene blue. **2023**, 237, 645-662 ○
- 3 Graphene oxide nanobrick wall for gas barrier and fire protection of polystyrene. **2023**, 58, 7594-7601 ○
- 2 Enhanced degradation of cefalexin using Co₂SnO₄@rGO as an effective peroxymonosulfate activator in hybrid ozonation system. **2023**, 11, 110076 ○
- 1 The potential of functionalized graphene-based composites for removing heavy metals and organic pollutants. **2023**, 53, 103809 ○