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## Graphene oxide: preparation, functionalization, and electrochemical applications

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1548	Unraveling the Influence of Metal Substrates on Graphene Nucleation from First-Principles Study. <b>2016</b> , 120, 23239-23245	18
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1546	Hierarchical nanostructured polyaniline functionalized graphene/poly(vinylidene fluoride) composites for improved dielectric performances. <b>2016</b> , 103, 83-97	71
1545	DNA adsorbed on graphene and graphene oxide: Fundamental interactions, desorption and applications. <b>2016</b> , 26, 41-49	162
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1541	Bio-green synthesis of Ag <sub>2</sub> CO <sub>3</sub> , Au <sub>2</sub> CO <sub>3</sub> and Ag <sub>2</sub> Au <sub>2</sub> CO <sub>3</sub> nanocomposites using <i>Azadirachta indica</i> : its application in SERS and cell viability. <b>2016</b> , 3, 075010	28
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1529	Electronic Properties of Carbon Nanotubes and Their Applications in Electrochemical Sensors and Biosensors. <b>2016</b> , 653-664	
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1526	Conductive reduced graphene oxide/MnO <sub>2</sub> carbonized cotton fabrics with enhanced electro-chemical, -heating, and -mechanical properties. <b>2016</b> , 326, 428-437	24
1525	A supramolecular pyrenyl glycoside-coated 2D MoS <sub>2</sub> composite electrode for selective cell capture. <b>2016</b> , 52, 11689-11692	13

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1486	Hybrid Nanomaterials Based on Graphene and Gold Nanoclusters for Efficient Electrocatalytic Reduction of Oxygen. <b>2016</b> , 11, 336	8
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1476	Single-Step Synthesis of Halogenated Graphene through Electrochemical Exfoliation and Its Utilization as Electrodes for Zinc Bromine Redox Flow Battery. <b>2016</b> , 163, A2899-A2910	37
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1461	Self-assembly preparation of gold nanoparticle decorated 1-pyrenemethylamine functionalized graphene oxide/carbon nanotube composites for highly sensitive detection of nitrite. <b>2016</b> , 8, 4926-4933	17
1460	Treelike polymeric phosphate esters grafted onto graphene oxide and its tribological properties in polyalkylene glycol for steel/steel contact at elevated temperature. <b>2016</b> , 6, 47824-47832	6
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1434	Modified glassy carbon electrodes based on carbon nanostructures for ultrasensitive electrochemical determination of furazolidone. <b>2016</b> , 61, 842-50	43
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1411	DNA-based ATP sensing. <b>2016</b> , 77, 226-241	26
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1384	Microstructure, residual stress, and intermolecular force distribution maps of graphene/polymer hybrid composites: Nanoscale morphology-promoted synergistic effects. <b>2016</b> , 92, 175-192	29
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1382	Implantable Graphene-based Neural Electrode Interfaces for Electrophysiology and Neurochemistry in In Vivo Hyperacute Stroke Model. <b>2016</b> , 8, 187-96	44
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1199	Scalable Self-Propagating High-Temperature Synthesis of Graphene for Supercapacitors with Superior Power Density and Cyclic Stability. <b>2017</b> , 29, 1604690	154
1198	Molybdenum-Doped PdPt@Pt Core-Shell Octahedra Supported by Ionic Block Copolymer-Functionalized Graphene as a Highly Active and Durable Oxygen Reduction Electrocatalyst. <b>2017</b> , 9, 1524-1535	42
1197	Preparation and application of silver nanoparticle-functionalized magnetic graphene oxide nanocomposites. <b>2017</b> , 9, 1607-1615	23
1196	Hierarchical nitrogen-doped porous graphene/reduced fluorographene/sulfur hybrids for high-performance lithium-sulfur batteries. <b>2017</b> , 19, 2567-2573	20
1195	Cation-Inhibited Transport of Graphene Oxide Nanomaterials in Saturated Porous Media: The Hofmeister Effects. <b>2017</b> , 51, 828-837	64
1194	Polyoxometalates-doped Au nanoparticles and reduced graphene oxide: A new material for the detection of uric acid in urine. <b>2017</b> , 243, 361-371	35
1193	An ultrasensitive sandwich-type electrochemical immunosensor for the determination of SKBR-3 breast cancer cell using rGO-TPA/FeHCFnano labeled Anti-HCT as a signal tag. <b>2017</b> , 243, 823-830	27
1192	Highly Efficient Visible Blue-Emitting Black Phosphorus Quantum Dot: Mussel-Inspired Surface Functionalization for Bioapplications. <b>2017</b> , 2, 7096-7105	27
1191	Homogenous graphene oxide-peptide nanofiber hybrid hydrogel as biomimetic polysaccharide hydrolase. <b>2017</b> , 9, 18066-18074	31
1190	Cooperative chiral salen TiIV catalyst supported on ionic liquid-functionalized graphene oxide accelerates asymmetric sulfoxidation in water. <b>2017</b> , 7, 5944-5952	14
1189	A Multivariate Curve Resolution evaluation of an in-situ ATR-FTIR spectroscopy investigation of the electrochemical reduction of graphene oxide. <b>2017</b> , 255, 160-167	16
1188	Electrochemical detection dopamine by Ester-calix[n]arenes/graphene nanosheets modified electrodes. <b>2017</b> , 804, 16-22	13
1187	Facile modification of graphite sheet by novel electrochemical exfoliation/oxidant method and its adsorption of caffeine from water. <b>2017</b> , 80, 747-753	6
1186	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 1: Lysozyme aggregation at pH 2 and 7.4. <b>2017</b> , 254, 375-383	11
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1183	An enantioselective electrochemical sensor for simultaneous determination of mandelic acid enantiomers using dexamethasone-based chiral nanocomposite coupled with chemometrics method. <b>2017</b> , 805, 83-90	9

1182	White-Light Photoassisted Covalent Functionalization of Graphene Using 2-Propanol. <b>2017</b> , 1, 1700214	15
1181	Recent Advances in Sensing Applications of Graphene Assemblies and Their Composites. <b>2017</b> , 27, 1702891	161
1180	Screening of Zirconium-Based Metal-Organic Frameworks for Efficient Simultaneous Removal of Antimonite (Sb(III)) and Antimonate (Sb(V)) from Aqueous Solution. <b>2017</b> , 5, 11496-11503	73
1179	Tethering mesoporous Pd nanoparticles to reduced graphene oxide sheets forms highly efficient electrooxidation catalysts. <b>2017</b> , 5, 21249-21256	26
1178	Two-Dimensional Stoichiometric Boron Oxides as a Versatile Platform for Electronic Structure Engineering. <b>2017</b> , 8, 4347-4353	31
1177	Inorganic-Organic Hybrid 3D Redox Nanoarchitecture for the Electrocatalytic Sensing of Thiols. <b>2017</b> , 5, 9412-9422	5
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1174	Antifungal graphene oxide-borneol composite. <b>2017</b> , 160, 220-227	37
1173	Direct formation of graphene shells on Al <sub>2</sub> O <sub>3</sub> nano-particles using simple thermal treatment under C <sub>2</sub> H <sub>2</sub> -H <sub>2</sub> atmospheric conditions. <b>2017</b> , 202, 215-219	5
1172	Functionalization of CVD Grown Graphene with Downstream Oxygen Plasma Treatment for Glucose Sensors. <b>2017</b> , 164, B336-B341	20
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1169	Quantum dot light-emitting diodes using a graphene oxide/PEDOT:PSS bilayer as hole injection layer. <b>2017</b> , 7, 43396-43402	15
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1167	Synthesis, Assembly, and Applications of Hybrid Nanostructures for Biosensing. <i>Chemical Reviews</i> , <b>2017</b> , 117, 12942-13038	68.1 191
1166	SbO Nanoparticles Anchored on Graphene Sheets via Alcohol Dissolution-Reprecipitation Method for Excellent Lithium-Storage Properties. <b>2017</b> , 9, 34927-34936	56
1165	Two-dimensional nanomaterial-based field-effect transistors for chemical and biological sensing. <b>2017</b> , 46, 6872-6904	210

1164	Graphene-based nanomaterials for drug and/or gene delivery, bioimaging, and tissue engineering. <b>2017</b> , 22, 1302-1317	182
1163	Heteroaggregation behavior of graphene oxide on Zr-based metal-organic frameworks in aqueous solutions: a combined experimental and theoretical study. <b>2017</b> , 5, 20398-20406	37
1162	Dynamic Cooperation of Hydrogen Binding and $\pi$ -Stacking in ssDNA Adsorption on Graphene Oxide. <b>2017</b> , 23, 13100-13104	35
1161	N-(4-Aminobutyl)-N-ethylisoluminol/CoFe <sub>2</sub> O <sub>4</sub> /graphene hybrids with unique chemiluminescence and magnetism. <b>2017</b> , 5, 7612-7620	10
1160	Covalent Functionalization of Graphene by Nucleophilic Addition Reaction: Synthesis and Optical-Limiting Properties. <b>2017</b> , 12, 2583-2590	12
1159	Enhanced photo-electrochemical response of reduced graphene oxide and CN nanosheets for rutin detection. <b>2017</b> , 506, 329-337	24
1158	Influence of anchoring of a pyrazoline dye 3-naphthyl-1-phenyl-5 (4-amino phenyl)-2-pyrazoline (NPAP) in manipulating the electronic and chemical properties of a graphene oxide via amidation: Synthesis, characterization and photophysics. <b>2017</b> , 192, 527-533	5
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1156	Synthesis of MoS <sub>2</sub> Quantum Dots Uniformly Dispersed on Low Dimensional MoS <sub>2</sub> Nanosheets and Unravelling its Multiple Emissive States. <b>2017</b> , 2, 5942-5949	6
1155	Sonication-Assisted Synthesis of Hydantoin Derivative-Decorated Graphene Oxide-Based Sensor for Guanine. <b>2017</b> , 2, 5832-5837	1
1154	Electrochemical characterization of Au/ZnO/PPy/RGO nanocomposite and its application for simultaneous determination of ascorbic acid, epinephrine, and uric acid. <b>2017</b> , 801, 466-479	51
1153	Photochlorination-induced transformation of graphene oxide: Mechanism and environmental fate. <b>2017</b> , 124, 372-380	35
1152	Fabrication of TiO <sub>2</sub> -Reduced Graphene Oxide Nanorod Composition Spreads Using Combinatorial Hydrothermal Synthesis and Their Photocatalytic and Photoelectrochemical Applications. <b>2017</b> , 19, 585-593	18
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1145	Reduced and Surface-Modified Graphene Oxide with Nonlinear Resistivity. <b>2017</b> , 38, 1700291	11
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1142	Aging-resistant nanofluids containing covalent functionalized boron nitride nanosheets. <b>2017</b> , 28, 405704	9
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1116	One-step and low-temperature synthesis of iodine-doped graphene and its multifunctional applications for hydrogen evolution reaction and electrochemical sensing. <b>2017</b> , 246, 1155-1162	16
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1114	Highly efficient enrichment of low-abundance intact proteins by core-shell structured FeO-chitosan@graphene composites. <b>2017</b> , 174, 845-852	26
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1107	Electrochemical Determination of Carbendazim in Food Samples Using an Electrochemically Reduced Nitrogen-Doped Graphene Oxide-Modified Glassy Carbon Electrode. <b>2017</b> , 10, 1479-1487	15
1106	Preparation and electrochemical performance of polymer-derived SiBCN-graphene composite as anode material for lithium ion batteries. <b>2017</b> , 43, 1210-1216	16
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1098	Voltammetric determination of levofloxacin using a glassy carbon electrode modified with poly(o-aminophenol) and graphene quantum dots. <b>2017</b> , 184, 127-135	36
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1091	A nanocomposite consisting of silica-coated magnetite and phenyl-functionalized graphene oxide for extraction of polycyclic aromatic hydrocarbon from aqueous matrices. <b>2017</b> , 55, 164-173	27
1090	Ultrafine nano-Si material prepared from NaCl-assisted magnesiothermic reduction of scalable silicate: graphene-enhanced Li-storage properties as advanced anode for lithium-ion batteries. <b>2017</b> , 694, 208-216	18
1089	Monitoring molecular dynamics of bacterial cellulose composites reinforced with graphene oxide by carboxymethyl cellulose addition. <b>2017</b> , 157, 353-360	21
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1086	Iron-embedded nitrogen doped carbon frameworks as robust catalyst for oxygen reduction reaction in microbial fuel cells. <b>2017</b> , 202, 550-556	123
1085	A facile and green strategy for preparing newly-designed 3D graphene/gold film and its application in highly efficient electrochemical mercury assay. <b>2017</b> , 89, 871-879	51
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1081	Extreme mechanical reinforcement in graphene oxide based thin-film nanocomposites via covalently tailored nanofiller matrix compatibilization. <b>2017</b> , 114, 367-376	42
1080	Bandgap engineering of ultrathin graphene-like carbon nitride nanosheets with controllable oxygenous functionalization. <b>2017</b> , 113, 63-75	84
1079	Silver ferrite-graphene nanocomposite and its good photocatalytic performance in air and visible light for organic dye removal. <b>2017</b> , 31, e3589	20
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1077	Cancer Biomarker Immunosensing Monitoring Strategies via Graphene Surface-Engineered Materials. <b>2017</b> , 59-81	1
1076	Early detection of Alzheimer's disease using a biosensor based on electrochemically-reduced graphene oxide and gold nanowires for the quantification of serum microRNA-137. <b>2017</b> , 7, 55709-55719	63
1075	High Degree Reduction of Graphene Oxide toward a High Carrier Mobility. <b>2017</b> , 60, 300-306	1

1074	MnO Nanosheet-based Fluorescence Sensing Platform for Sensitive Detection of Endonuclease. <b>2017</b> , 33, 783-788	12
1073	Microwave-Assisted thiol-ene click chemistry of carbon nanoforms. <b>2017</b> , 533, 48-54	10
1072	Electrochemical H <sub>2</sub> O <sub>2</sub> sensor based on graphene oxide-iron oxide nanoparticles composite. <b>2017</b> ,	
1071	Hidden Relaxation Channels in Aqueous Methylene Blue after Functionalization of Graphene Oxide Probed by Transient Absorption Spectroscopy. <b>2017</b> , 30, 389-394	3
1070	2. Controlled Functionalization of Graphene by Oxo-addends. <b>2017</b> ,	1
1069	Broadband graphene oxide anti-reflection coating on silicon nanostructures. <b>2017</b> ,	
1068	Electrical and optical properties of reduced graphene oxide thin film deposited onto polyethylene terephthalate by spin coating technique. <b>2017</b> , 56, 7774-7780	11
1067	Simple light-emitting electrochemical cell using reduced graphene oxide and a ruthenium (II) complex. <b>2017</b> , 56, 6476-6484	11
1066	Recent Development on Nanocomposites of Graphene for Supercapacitor Applications. <b>2017</b> , 1,	22
1065	Carbon-Based Nanomaterials Functionalized with Ionic Liquids for Microextraction in Sample Preparation. <b>2017</b> , 4, 14	22
1064	Graphene-Based Materials for Biosensors: A Review. <b>2017</b> , 17,	249
1063	Phenylalanine-Rich Peptide Mediated Binding with Graphene Oxide and Bioinspired Synthesis of Silver Nanoparticles for Electrochemical Sensing. <b>2017</b> , 7, 160	13
1062	Graphene composites with synthetic polymers. <b>2017</b> , 141-154	
1061	Alginate-Based Hybrid Nanocomposite Materials. <b>2017</b> , 603-648	2
1060	Synthesis and Characterization of a CuNi/graphene Oxide Nanocomposite for Non-enzymatic Glucose Detection. <b>2017</b> , 2,	2
1059	Effect of Graphene Oxide (GO) on the Morphology and Microstructure of Cement Hydration Products. <b>2017</b> , 7,	21
1058	Controlled Functionalization of Graphene by Oxo-addends. <b>2017</b> , 2,	2
1057	3.7 Basic Aspects in Proton-Conducting Membranes for Fuel Cells. <b>2017</b> , 171-205	0

1056	Naturally-derived biopolymer nanocomposites: Interfacial design, properties and emerging applications. <b>2018</b> , 125, 1-41	130
1055	Black titania/graphene oxide nanocomposite films with excellent photothermal property for solar steam generation. <b>2018</b> , 33, 674-684	53
1054	Graphene-based aptasensors: from molecule-interface interactions to sensor design and biomedical diagnostics. <b>2018</b> , 143, 1526-1543	64
1053	A novel immunoprobe composed of reduced graphene oxide-hemin-thionin-Au nanohybrid for ultrasensitive detection of tumor marker. <b>2018</b> , 258, 141-147	17
1052	Phosphate functionalized graphene oxide with enhanced catalytic activity for Biginelli type reaction under microwave condition. <b>2018</b> , 331, 300-310	39
1051	Determining how polymer-bubble interactions impact algal separation using the novel Dissolved air flotation process. <b>2018</b> , 201, 139-147	13
1050	Impact of Edge Groups on the Hydration and Aggregation Properties of Graphene Oxide. <b>2018</b> , 122, 2578-2586	11
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1047	Nanoscale Electrochemical Sensing and Processing in Microreactors. <b>2018</b> , 11, 421-440	5
1046	Detection of Lead Using a Sensitive Anodic Stripping Voltammetric Method Based on Composite Mesoporous Silica/Bismuth Oxychloride Modified Electrode. <b>2018</b> , 3, 2423-2429	7
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1043	Exploring the Emissive States of Heteroatom-Doped Graphene Quantum Dots. <b>2018</b> , 122, 6483-6492	54
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1041	Fractal characterization of graphene oxide nanosheet. <b>2018</b> , 220, 40-43	10
1040	Wrapping Nanocellulose Nets around Graphene Oxide Sheets. <b>2018</b> , 130, 8644-8649	14
1039	Wrapping Nanocellulose Nets around Graphene Oxide Sheets. <b>2018</b> , 57, 8508-8513	67

1038	Tailoring the properties of oxygenated graphene with different oxidation degrees for noble-metal-free photocatalytic hydrogen evolution. <b>2018</b> , 315, 93-102	13
1037	A sensitive electrochemical sensor for ofloxacin based on a graphene/zinc oxide composite film. <b>2018</b> , 10, 1961-1967	20
1036	Truncated aptamers for total and glycated hemoglobin, and their integration into a graphene oxide-based fluorometric method for high-throughput screening for diabetes. <b>2018</b> , 185, 256	17
1035	Simple preparation of reduced graphene oxide coatings for solid phase micro-extraction (SPME) of furfural to be detected by gas chromatography/mass spectrometry. <b>2018</b> , 213, 556-561	17
1034	Density Functional Theory Calculations of the Quantum Capacitance of Graphene Oxide as a Supercapacitor Electrode. <b>2018</b> , 19, 1579-1583	20
1033	Green reduction of graphene oxide by sugarcane bagasse extract and its application for the removal of cadmium in aqueous solution. <b>2018</b> , 189, 128-134	56
1032	Evidence of Ion-Beam-Induced Annealing in Graphene Oxide Films Using in Situ X-Ray Diffraction and Spectroscopy Techniques. <b>2018</b> , 122, 9632-9640	12
1031	Constructing phosphorus, nitrogen, silicon-co-contained boron nitride nanosheets to reinforce flame retardant properties of unsaturated polyester resin. <b>2018</b> , 109, 546-554	51
1030	Influence of graphene oxide with different oxidation levels on the properties of epoxy composites. <b>2018</b> , 161, 74-84	63
1029	Graphene-based two-dimensional Janus materials. <b>2018</b> , 10, 217-237	69
1028	Fluoride ion-promoted hydrothermal synthesis of oxygenated g-C <sub>3</sub> N <sub>4</sub> with high photocatalytic activity. <b>2018</b> , 549, 67-75	16
1027	Underwater acoustic properties of graphene nanoplatelet-modified rubber. <b>2018</b> , 37, 609-616	10
1026	Nanocomposites formed by in situ growth of NiDOBDC nanoparticles on graphene oxide sheets for enhanced CO <sub>2</sub> and H <sub>2</sub> storage. <b>2018</b> , 265, 35-42	22
1025	Graphene oxide: An efficient material and recent approach for biotechnological and biomedical applications. <b>2018</b> , 86, 173-197	163
1024	A simple and fast method for the simultaneous determination of Imperatorin, Isoimperatorin and Umbelliferone at TiO <sub>2</sub> /GO composite film modified GCE. <b>2018</b> , 260, 650-656	1
1023	Rational Synthesis and Assembly of NiS Nanorods for Enhanced Electrochemical Sodium-Ion Storage. <b>2018</b> , 12, 1829-1836	81
1022	Emergent Pseudocapacitance of 2D Nanomaterials. <b>2018</b> , 8, 1702930	172
1021	Enhanced photocatalytic properties of ZnO nanorods by electrostatic self-assembly with reduced graphene oxide. <b>2018</b> , 20, 6959-6969	47

1020	Development of reduced graphene oxide (rGO)-isabgol nanocomposite dressings for enhanced vascularization and accelerated wound healing in normal and diabetic rats. <b>2018</b> , 517, 251-264	67
1019	Simplified production of graphene oxide assisted by high shear exfoliation of graphite with controlled oxidation. <b>2018</b> , 42, 4507-4512	9
1018	Ultrahigh-capacity and fast-rate removal of graphene oxide by calcined MgAl layered double hydroxide. <b>2018</b> , 156, 61-68	7
1017	One-step electrodeposition of reduced graphene oxide on three-dimensional porous nano nickel-copper foam electrode and its use in supercapacitor. <b>2018</b> , 813, 152-162	23
1016	Rapid oxidation of CVD-grown graphene using mild atmospheric pressure O <sub>2</sub> plasma jet. <b>2018</b> , 350, 1085-10908	
1015	An engineered one-site aptamer with higher sensitivity for label-free detection of adenosine on graphene oxide. <b>2018</b> , 96, 957-963	7
1014	Reduced graphene oxide modified melamine formaldehyde (rGO@MF) superhydrophobic sponge for efficient oil/water separation. <b>2018</b> , 25, 1475-1488	34
1013	High Mechanical Property of Laminated Electromechanical Sensors by Carbonized Nanolignocellulose/Graphene Composites. <b>2018</b> , 10, 7344-7351	10
1012	Dynamic performance of an amorphous polymer composite under controlled loading of reduced graphene oxide based on entanglement of filler with polymer chains. <b>2018</b> , 25, 1	5
1011	Structure stability of polyaniline/graphene nanocomposites in gamma-ray environment. <b>2018</b> , 315, 627-638	5
1010	Mechanistic insight into the in vitro toxicity of graphene oxide against biofilm forming bacteria using laser-induced breakdown spectroscopy. <b>2018</b> , 10, 4475-4487	41
1009	Bimetallic CoNiS nanocrystallites embedded in nitrogen-doped carbon anchored on reduced graphene oxide for high-performance supercapacitors. <b>2018</b> , 10, 4051-4060	45
1008	Magnetic nano-graphene oxide-supported molybdenum (Fe <sub>3</sub> O <sub>4</sub> /GO-Mo) as a green, efficient, and recyclable catalyst for synthesis of L-hydroxy hydroperoxides. <b>2018</b> , 149, 551-556	10
1007	One-Pot Biosynthesis of Reduced Graphene Oxide/Prussian Blue Microcubes Composite and Its Sensitive Detection of Prophylactic Drug Dimetridazole. <b>2018</b> , 165, B27-B33	27
1006	Optimizing the Crystallinity and Phase Separation of PTB7:PC71BM Films by Modified Graphene Oxide. <b>2018</b> , 122, 2572-2581	12
1005	A Superior Oxygen Reduction Reaction Electrocatalyst Based on Reduced Graphene Oxide and Iron(II) Phthalocyanine-Supported Sub-2 nm Platinum Nanoparticles. <b>2018</b> , 1, 711-721	17
1004	Spectroscopic ellipsometry investigation of the optical properties of graphene oxide dip-coated on magnetron sputtered gold thin films. <b>2018</b> , 123, 055303	10
1003	Catalytic Behavior of Graphene Oxides for Converting CO <sub>2</sub> into Cyclic Carbonates at One Atmospheric Pressure. <b>2018</b> , 6, 4204-4211	27



1002	The influence of mesoporous SiO <sub>2</sub> -graphene hybrid improved the flame retardancy of epoxy resins. <b>2018</b> , 29, 1478-1486	14
1001	□Cyclodextrin-epichlorohydrin polymer/graphene oxide nanocomposite: preparation and characterization. <b>2018</b> , 72, 1299-1313	24
1000	Pickering emulsion polymerized core-shell structured poly(methyl methacrylate)/ graphene oxide particles and their electrorheological characteristics. <b>2018</b> , 66, 195-202	12
999	A novel design concept for fabricating 3D graphene with the assistant of anti-solvent precipitated sulphates and its Li-ion storage properties. <b>2018</b> , 6, 3444-3453	72
998	Synthesis and characterization of graphene oxide sheets integrated with gold nanoparticles and their applications to adsorptive removal and catalytic reduction of water contaminants.. <b>2018</b> , 8, 3599-3610	38
997	DNA-hosted copper nanoclusters/graphene oxide based fluorescent biosensor for protein kinase activity detection. <b>2018</b> , 1012, 66-73	36
996	Recyclable Supramolecular Ruthenium Catalyst for the Selective Aerobic Oxidation of Alcohols on Water: Application to Total Synthesis of Brittonin A. <b>2018</b> , 6, 3264-3278	19
995	Atmospheric Dry Hydrogen Plasma Reduction of Inkjet-Printed Flexible Graphene Oxide Electrodes. <b>2018</b> , 11, 941-947	22
994	Simultaneous drug delivery and cellular imaging using graphene oxide. <b>2018</b> , 6, 813-819	40
993	A mechanism study on toxicity of graphene oxide to Daphnia magna: Direct link between bioaccumulation and oxidative stress. <b>2018</b> , 234, 953-959	59
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990	Study of Fluorescence Quenching Ability of Graphene Oxide with a Layer of Rigid and Tunable Silica Spacer. <b>2018</b> , 34, 603-611	36
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988	Potentiodynamic formation of diaminobenzene films on an electrochemically reduced graphene oxide surface: Determination of nitrite in water samples. <b>2018</b> , 85, 97-106	13
987	Sensitive fluorescence sensing of T4 polynucleotide kinase activity and inhibition based on DNA/polydopamine nanospheres platform. <b>2018</b> , 180, 271-276	20
986	3D nano-arrays of silver nanoparticles and graphene quantum dots with excellent surface-enhanced Raman scattering. <b>2018</b> , 34, 679-687	5
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983	Hexaazatriphenylene derivatives/GO composites as organic cathodes for lithium ion batteries. <b>2018</b> , 6, 2752-2757	44
982	Surface Oxidation of Graphene Oxide Determines Membrane Damage, Lipid Peroxidation, and Cytotoxicity in Macrophages in a Pulmonary Toxicity Model. <b>2018</b> , 12, 1390-1402	154
981	Ecotoxicology of manufactured graphene oxide nanomaterials and derivation of preliminary guideline values for freshwater environments. <b>2018</b> , 37, 1340-1348	15
980	Modification of WS <sub>2</sub> nanosheets with controllable layers via oxygen ion irradiation. <b>2018</b> , 439, 240-245	11
979	Nanomaterial-based optical chemical sensors for the detection of heavy metals in water: Recent advances and challenges. <b>2018</b> , 100, 155-166	140
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975	Nanofluid lubrication and high pressure Raman studies of oxygen functionalized graphene nanosheets. <b>2018</b> , 61, 97-105	7
974	Protonated carbon nitride induced hierarchically ordered Fe <sub>2</sub> O <sub>3</sub> /HC <sub>3</sub> N <sub>4</sub> /rGO architecture with enhanced electrochemical sensing of nitrite. <b>2018</b> , 260, 490-498	29
973	Fast room-temperature reduction of graphene oxide by methane/argon plasma for flexible electronics. <b>2018</b> , 452, 481-486	34
972	Copper nanowires-MOFs-graphene oxide hybrid nanocomposite targeting glucose electro-oxidation in neutral medium. <b>2018</b> , 277, 176-184	39
971	Determination of tetracycline and cefotaxime residues in honey by micro-solid phase extraction based on electrospun nanofibers coupled with HPLC. <b>2018</b> , 140, 241-247	39
970	Mechanical enhancement of self-healing waterborne polyurethane by graphene oxide. <b>2018</b> , 121, 73-79	56
969	Spectroscopic and electronic properties of polyallylamine functionalized graphene oxide films. <b>2018</b> , 154, 110-114	8
968	Evolution of Graphene Oxide and Graphene: From Imagination to Industrialization. <b>2018</b> , 4, 598-620	42
967	Manganese hexacyanoferrate/multi-walled carbon nanotubes nanocomposite: Facile synthesis, characterization and application to high performance supercapacitors. <b>2018</b> , 276, 92-101	28

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965	Versatile graphene biosensors for enhancing human cell therapy. <b>2018</b> , 117, 283-302	17
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963	Effects of Graphene Oxide and/or Cd <sup>2+</sup> on Seed Germination, Seedling Growth, and Uptake to Cd <sup>2+</sup> in Solution Culture. <b>2018</b> , 229, 1	19
962	A holistic review of cement composites reinforced with graphene oxide. <b>2018</b> , 171, 291-302	88
961	Actinide Speciation in Environment and Their Separation Using Functionalized Nanomaterials and Nanocomposites. <b>2018</b> , 1-47	2
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959	Investigating the nanostructures and proton transfer properties of Nafion-GO hybrid membranes. <b>2018</b> , 555, 327-336	39
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950	Fabrication of thiazole derivatives functionalized graphene decorated with fluorine, chlorine and iodine@SnO <sub>2</sub> nanoparticles for highly sensitive detection of heavy metal ions. <b>2018</b> , 546, 153-162	16
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947	Prevailing Research Trends in Carbon Nanohorn and Polymer-based Hybrids. <b>2018</b> , 57, 118-132	8
946	Two-Dimensional Layered Materials as Catalyst Supports. <b>2018</b> , 4, 28-40	39
945	Graphene oxide@gold nanorods-based multiple-assisted electrochemiluminescence signal amplification strategy for sensitive detection of prostate specific antigen. <b>2018</b> , 99, 92-98	85
944	Label-free glucose biosensor based on enzymatic graphene oxide-functionalized tilted fiber grating. <b>2018</b> , 254, 1033-1039	87
943	Adsorption and co-adsorption of graphene oxide and Ni(II) on iron oxides: A spectroscopic and microscopic investigation. <b>2018</b> , 233, 125-131	68
942	Effect of the oxidation degree on self-assembly, adsorption and barrier properties of nano-graphene. <b>2018</b> , 260, 102-115	25
941	Janus DNA orthogonal adsorption of graphene oxide and metal oxide nanoparticles enabling stable sensing in serum. <b>2018</b> , 5, 65-69	73
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939	Soft-graphene oxide-organopolysulfide nanocomposites for superior pseudocapacitive lithium storage. <b>2018</b> , 29, 603-605	4
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937	Ultrafine nano-network structured bacterial cellulose as reductant and bridging ligands to fabricate ultrathin K-birnessite type MnO <sub>2</sub> nanosheets for supercapacitors. <b>2018</b> , 433, 419-427	44
936	A robust and effective intact protein fractionation strategy by GO/PEI/Au/PEG nanocomposites for human plasma proteome analysis. <b>2018</b> , 178, 49-56	6
935	Preparation of highly sensitive Pt nanoparticles-carbon quantum dots/ionic liquid functionalized graphene oxide nanocomposites and application for H <sub>2</sub> O <sub>2</sub> detection. <b>2018</b> , 255, 1500-1506	109
934	Nitrogen-doped carbon nanotubes decorated poly (L-Cysteine) as a novel, ultrasensitive electrochemical sensor for simultaneous determination of theophylline and caffeine. <b>2018</b> , 178, 449-457	42
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926	pH-dependent K provides new insights in understanding the adsorption mechanism of ionizable organic chemicals on carbonaceous materials. <b>2018</b> , 618, 269-275	14
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920	One-step radiolytic synthesis of heteroatom (N and S) co-doped graphene for supercapacitors. <b>2018</b> , 259, 587-597	53
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916	Self-assembly of graphene oxide nanosheets in t-butanol/water medium under gamma-ray radiation. <b>2018</b> , 29, 931-934	9
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913	Magnetic iron oxide/graphene oxide nanocomposites: Formation and interaction mechanism for efficient removal of methylene blue and p-tert-butylphenol from aqueous solution. <b>2018</b> , 205, 240-252	22

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911	Oxidative Functionalization of Asphaltenes from Heavy Crude Oil. <b>2018</b> , 91, 1835-1840	13
910	Eco-Friendly In Situ Fabrication of Reduced Graphene Oxide Gold Nanocomposites for Catalysis and Dye Degradation. <b>2018</b> , 92, 2750-2756	5
909	Reversible Switched pH-Responsive Hydroquinone Electrochemical Sensor Based on Composite Film of Polystyrene-b-Poly (Acrylic Acid) and Graphene Oxide. <b>2018</b> , 30, 2888-2898	6
908	Adsorption of P-Nitrophenol Onto Partially Reduced Graphene Oxide: An Experimental and Theoretical Study. <b>2018</b> , 43, 189-200	0
907	The Preparation and Characterization of Fluorinated Graphene Oxide with Different Degrees of Oxidation. <b>2018</b> , 792, 89-97	
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904	Aggregation prevention: reduction of graphene oxide in mixed medium of alkylphenol polyoxyethylene (7) ether and 2-methoxyethanol.. <b>2018</b> , 8, 39140-39148	7
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900	Structure of fluorographene and its polymorphous varieties. <b>2018</b> , 1124, 022010	7
899	Novel fabrication of functionalized graphene oxide via magnetite and 1-butyl-3-methylimidazolium tetrafluoroborate. <b>2018</b> , 16, 403-411	8
898	Laser-Cut Polymer Tape Templates for Scalable Filtration Fabrication of User-Designed and Carbon-Nanomaterial-Based Electrochemical Sensors. <b>2018</b> , 3, 2518-2525	11
897	Collagen Functionalized With Graphene Oxide Enhanced Biomimetic Mineralization and in Situ Bone Defect Repair. <b>2018</b> , 10, 44080-44091	45
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890	Graphene: Diversified Flexible 2D Material for Wearable Vital Signs Monitoring. <b>2018</b> , 4, 1800574	38
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879	Plasma Treatment of Graphene Oxide. <b>2018</b> ,	2
878	Formation of Sublimable Nanographene Oxides by Reacting Coronene Films with Atomic Oxygen. <b>2018</b> , 122, 28588-28600	5
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867	Plasmonic Interface Modified with Graphene Oxide Sheets Overlayer for Sensitivity Enhancement. <b>2018</b> , 10, 34916-34923	35
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861	Controllable synthesis of graphene scrolls and their performance for supercapacitors.. <b>2018</b> , 8, 19164-19170	8
860	Graphene Oxide Film Based Moisture-driven Nanogenerator and Its Application as Self-powered Relative Humidity Sensor. <b>2018</b> , 47, 853-856	4
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858	Optical limiting properties of (reduced) graphene oxide covalently functionalized by coordination complexes. <b>2018</b> , 375, 489-513	31
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844	Facilely Prepared N-Doped Graphene/Pt/TiO <sub>2</sub> as an Efficient Anode for Acetaminophen Degradation. <b>2018</b> , 148, 2418-2431	3
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