

CITATION REPORT

List of articles citing

Evaluation of solution-processed reduced graphene oxide films as transparent conductors

DOI: 10.1021/nn700375n
ACS Nano, 2008, 2, 463-70.

Source: <https://exaly.com/paper-pdf/43581960/citation-report.pdf>

Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| # | Paper | IF | Citations |
|------|--|------|-----------|
| 2349 | Detection and Quantification of Graphene-Family Nanomaterials in the Environment. | | 0 |
| 2348 | Graphene-Based Hole-Selective Layers for High-Efficiency Solution-Processed, Large-Area, Flexible, Hydrogen-Evolving Organic Photocathodes. | | |
| 2347 | Enhanced Mechanical Properties of Graphene (Reduced Graphene Oxide)/Aluminum Composites with a Bioinspired Nanolaminated Structure. | | |
| 2346 | Mimicking the Active Sites of Organophosphorus Hydrolase on the Backbone of Graphene Oxide to Destroy Nerve Agent Simulants. | | |
| 2345 | Highly Conductive and Transparent Reduced Graphene Oxide Nanoscale Films via Thermal Conversion of Polymer-Encapsulated Graphene Oxide Sheets. | | |
| 2344 | Tunable Broadband Nanocarbon Transparent Conductor by Electrochemical Intercalation. | | |
| 2343 | Shape-Adaptable 2D Titanium Carbide (MXene) Heater. | | |
| 2342 | Transfer-Free Fabrication of Graphene Scaffolds on Highk Dielectrics from MetalOrganic Oligomers. | | |
| 2341 | The Computational Complexity of Approximation Algorithms for Robust Stability in Rank-Two Matrix Polytopes. 1993 , | | 1 |
| 2340 | Organic Photovoltaic Devices Based on a Novel Acceptor Material: Graphene. 2008 , 20, 3924-3930 | | 750 |
| 2339 | Mechanically Strong, Electrically Conductive, and Biocompatible Graphene Paper. 2008 , 20, 3557-3561 | | 1665 |
| 2338 | Deoxygenation of Exfoliated Graphite Oxide under Alkaline Conditions: A Green Route to Graphene Preparation. 2008 , 20, 4490-4493 | | 1517 |
| 2337 | Reduced graphene oxide molecular sensors. 2008 , 8, 3137-40 | | 1484 |
| 2336 | Organic solar cells with solution-processed graphene transparent electrodes. 2008 , 92, 263302 | | 788 |
| 2335 | TiO ₂ -graphene nanocomposites. UV-assisted photocatalytic reduction of graphene oxide. <i>ACS Nano</i> , 2008 , 2, 1487-91 | 16.7 | 2230 |
| 2334 | Graphene oxide dispersions in organic solvents. 2008 , 24, 10560-4 | | 2195 |
| 2333 | Diazonium functionalization of surfactant-wrapped chemically converted graphene sheets. 2008 , 130, 16201-6 | | 844 |

| | | |
|------|--|------|
| 2332 | Wafer-scale reduced graphene oxide films for nanomechanical devices. 2008 , 8, 3441-5 | 348 |
| 2331 | Tunable electrical conductivity of individual graphene oxide sheets reduced at "low" temperatures. 2008 , 8, 4283-7 | 745 |
| 2330 | Transparent and conducting electrodes for organic electronics from reduced graphene oxide. 2008 , 92, 233305 | 336 |
| 2329 | Field emission from graphene based composite thin films. 2008 , 93, 233502 | 226 |
| 2328 | Effect of Water Vapor on Electrical Properties of Individual Reduced Graphene Oxide Sheets. 2008 , 112, 20264-20268 | 293 |
| 2327 | X-ray absorption spectroscopy of graphite oxide. 2008 , 82, 67004 | 229 |
| 2326 | Graphene-based single-bacterium resolution biodevice and DNA transistor: interfacing graphene derivatives with nanoscale and microscale biocomponents. 2008 , 8, 4469-76 | 1038 |
| 2325 | High-Efficiency Loading and Controlled Release of Doxorubicin Hydrochloride on Graphene Oxide. 2008 , 112, 17554-17558 | 805 |
| 2324 | Materials science. Graphene-based materials. 2008 , 320, 1170-1 | 1257 |
| 2323 | Magnetically modified single and turbostratic stacked graphenes from tris(2,2'-bipyridyl) iron(II) ion-exchanged graphite oxide. 2008 , 112, 14461-9 | 41 |
| 2322 | Catalyst-Free Growth of Networked Nanographite on Si and SiO ₂ Substrates by Photoemission-Assisted Plasma-Enhanced Chemical Vapor Deposition. 2009 , 7, 882-890 | 35 |
| 2321 | LARGE-AREA GRAPHENE-BASED FLEXIBLE TRANSPARENT CONDUCTING FILMS. 2009 , 04, 83-90 | 47 |
| 2320 | Recent progress in graphene-related nanotechnologies. 2009 , 3, 164-76 | 23 |
| 2319 | Polymer Photovoltaic Cells Based on Solution-Processable Graphene and P3HT. 2009 , 19, 894-904 | 437 |
| 2318 | Molecular-Level Dispersion of Graphene into Poly(vinyl alcohol) and Effective Reinforcement of their Nanocomposites. 2009 , 19, 2297-2302 | 1350 |
| 2317 | Evolution of Electrical, Chemical, and Structural Properties of Transparent and Conducting Chemically Derived Graphene Thin Films. 2009 , 19, 2577-2583 | 1451 |
| 2316 | Efficient Reduction of Graphite Oxide by Sodium Borohydride and Its Effect on Electrical Conductance. 2009 , 19, 1987-1992 | 1831 |
| 2315 | A Graphene Hybrid Material Covalently Functionalized with Porphyrin: Synthesis and Optical Limiting Property. 2009 , 21, 1275-1279 | 915 |

| | | |
|------|---|------|
| 2314 | Soft Transfer Printing of Chemically Converted Graphene. 2009 , 21, 2098-2102 | 166 |
| 2313 | Carbon-Based Field-Effect Transistors for Nanoelectronics. 2009 , 21, 2586-2600 | 215 |
| 2312 | Aqueous Stabilization and Self-Assembly of Graphene Sheets into Layered Bio-Nanocomposites using DNA. 2009 , 21, 3159-3164 | 425 |
| 2311 | Composites of Graphene with Large Aromatic Molecules. 2009 , 21, 3191-3195 | 677 |
| 2310 | Patterned Graphene Electrodes from Solution-Processed Graphite Oxide Films for Organic Field-Effect Transistors. 2009 , 21, 3488-3491 | 323 |
| 2309 | Chemical Vapor Deposition Repair of Graphene Oxide: A Route to Highly-Conductive Graphene Monolayers. 2009 , 21, 4683-4686 | 189 |
| 2308 | Application of graphene and graphene-based materials in clean energy-related devices. 2009 , 33, 1161-1170 | 108 |
| 2307 | Facile, noncovalent decoration of graphene oxide sheets with nanocrystals. 2009 , 2, 192-200 | 136 |
| 2306 | A hybrid material of graphene and poly (3,4-ethyldioxythiophene) with high conductivity, flexibility, and transparency. 2009 , 2, 343-348 | 282 |
| 2305 | Photoconductivity of bulk-film-based graphene sheets. 2009 , 5, 1682-7 | 75 |
| 2304 | A facile and novel synthesis of Ag-graphene-based nanocomposites. 2009 , 5, 2253-9 | 458 |
| 2303 | Polyaniline electrochromic devices with transparent graphene electrodes. 2009 , 55, 491-497 | 211 |
| 2302 | Thermal stability of graphite oxide. 2009 , 470, 255-258 | 366 |
| 2301 | Controlling work function of reduced graphite oxide with Au-ion concentration. 2009 , 475, 91-95 | 96 |
| 2300 | UV-reduction of graphene oxide and its application as an interfacial layer to reduce the back-transport reactions in dye-sensitized solar cells. 2009 , 483, 124-127 | 219 |
| 2299 | Synthesis and characterization of a graphene π 60 hybrid material. 2009 , 47, 334-337 | 154 |
| 2298 | Synthesis of high-quality graphene with a pre-determined number of layers. 2009 , 47, 493-499 | 584 |
| 2297 | Electromagnetic interference shielding of graphene/epoxy composites. 2009 , 47, 922-925 | 1044 |

| | | | |
|------|---|------|------|
| 2296 | A new parameter based on graphene for characterizing transparent, conductive materials. 2009 , 47, 2936-2939 | | 31 |
| 2295 | Synthesis, characterization and optical limiting property of covalently oligothiophene-functionalized graphene material. 2009 , 47, 3113-3121 | | 198 |
| 2294 | Exfoliated graphite oxide decorated by PDMAEMA chains and polymer particles. 2009 , 25, 11808-14 | | 242 |
| 2293 | Fast and Facile Preparation of Graphene Oxide and Reduced Graphene Oxide Nanoplatelets. 2009 , 21, 3514-3520 | | 737 |
| 2292 | Room-temperature ferromagnetism of graphene. 2009 , 9, 220-4 | | 533 |
| 2291 | Supercapacitor Devices Based on Graphene Materials. 2009 , 113, 13103-13107 | | 2018 |
| 2290 | Atomic and electronic structure of graphene-oxide. 2009 , 9, 1058-63 | | 921 |
| 2289 | Improving gas sensing properties of graphene by introducing dopants and defects: a first-principles study. 2009 , 20, 185504 | | 732 |
| 2288 | Liquid phase production of graphene by exfoliation of graphite in surfactant/water solutions. 2009 , 131, 3611-20 | | 1821 |
| 2287 | A Method for Fabrication of Graphene Oxide Nanoribbons from Graphene Oxide Wrinkles. 2009 , 113, 19119-19122 | | 48 |
| 2286 | Superparamagnetic graphene oxide-Fe ₃ O ₄ nanoparticles hybrid for controlled targeted drug carriers. 2009 , 19, 2710 | | 889 |
| 2285 | Langmuir-Blodgett assembly of graphite oxide single layers. 2009 , 131, 1043-9 | | 1489 |
| 2284 | Synthesis of graphene sheets with high electrical conductivity and good thermal stability by hydrogen arc discharge exfoliation. <i>ACS Nano</i> , 2009 , 3, 411-7 | 16.7 | 702 |
| 2283 | Hydrothermal Dehydration for the Green Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. 2009 , 21, 2950-2956 | | 1285 |
| 2282 | Enhanced nonlinear optical properties of graphene-oligothiophene hybrid material. 2009 , 17, 23959-64 | | 56 |
| 2281 | Tailoring the characteristics of graphite oxides by different oxidation times. 2009 , 42, 065418 | | 168 |
| 2280 | Polymer-assisted direct deposition of uniform carbon nanotube bundle networks for high performance transparent electrodes. <i>ACS Nano</i> , 2009 , 3, 1423-30 | 16.7 | 142 |
| 2279 | Electrical conductivity of graphene films with a poly(allylamine hydrochloride) supporting layer. 2009 , 25, 11008-13 | | 50 |

| | | |
|------|--|---------|
| 2278 | Salt-Induced Charge Screening and Significant Conductivity Enhancement of Conducting Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate). 2009 , 42, 4141-4147 | 174 |
| 2277 | Transfer of large-area graphene films for high-performance transparent conductive electrodes. 2009 , 9, 4359-63 | 2532 |
| 2276 | Surface and interference coenhanced Raman scattering of graphene. <i>ACS Nano</i> , 2009 , 3, 933-9 | 16.7 81 |
| 2275 | Transparent self-assembled films of reduced graphene oxide platelets. 2009 , 95, 103104 | 155 |
| 2274 | Preparation of graphene dispersions and graphene-polymer composites in organic media. 2009 , 19, 3591 | 276 |
| 2273 | An electrical method for the measurement of the thermal and electrical conductivity of reduced graphene oxide nanostructures. 2009 , 20, 405704 | 113 |
| 2272 | Plasma Fluorination of Chemically Derived Graphene Sheets and Subsequent Modification With Butylamine. 2009 , 21, 3433-3438 | 135 |
| 2271 | Graphene oxide amplified electrogenerated chemiluminescence of quantum dots and its selective sensing for glutathione from thiol-containing compounds. 2009 , 81, 9710-5 | 366 |
| 2270 | Atomic force and scanning tunneling microscopy imaging of graphene nanosheets derived from graphite oxide. 2009 , 25, 5957-68 | 575 |
| 2269 | Low-temperature solution processing of graphene-carbon nanotube hybrid materials for high-performance transparent conductors. 2009 , 9, 1949-55 | 899 |
| 2268 | Solution phase production of graphene with controlled thickness via density differentiation. 2009 , 9, 4031-6 | 643 |
| 2267 | High-yield dielectrophoretic assembly of two-dimensional graphene nanostructures. 2009 , 94, 053110 | 33 |
| 2266 | Reduced graphene oxide for room-temperature gas sensors. 2009 , 20, 445502 | 556 |
| 2265 | Gas detection using low-temperature reduced graphene oxide sheets. 2009 , 94, 083111 | 325 |
| 2264 | Reduction Kinetics of Graphene Oxide Determined by Electrical Transport Measurements and Temperature Programmed Desorption. 2009 , 113, 18480-18486 | 173 |
| 2263 | Porphyrin and fullerene covalently functionalized graphene hybrid materials with large nonlinear optical properties. 2009 , 113, 9681-6 | 399 |
| 2262 | Chemically converted graphene induced molecular flattening of 5,10,15,20-tetrakis(1-methyl-4-pyridinio)porphyrin and its application for optical detection of cadmium(II) ions. 2009 , 131, 13490-7 | 455 |
| 2261 | A novel approach to create a highly ordered monolayer film of graphene nanosheets at the liquid-liquid interface. 2009 , 9, 167-72 | 206 |

| | | |
|------|--|----------|
| 2260 | Coassembly of graphene oxide and nanowires for large-area nanowire alignment. 2009 , 131, 5851-7 | 180 |
| 2259 | Infrared-Triggered Actuators from Graphene-Based Nanocomposites. 2009 , 113, 9921-9927 | 318 |
| 2258 | Graphene-semiconductor nanocomposites: excited-state interactions between ZnO nanoparticles and graphene oxide. 2009 , 25, 13869-73 | 536 |
| 2257 | Covalent Functionalization of Surfactant-Wrapped Graphene Nanoribbons. 2009 , 21, 5284-5291 | 125 |
| 2256 | Electrical and Spectroscopic Characterizations of Ultra-Large Reduced Graphene Oxide Monolayers. 2009 , 21, 5674-5680 | 425 |
| 2255 | Transparent, highly conductive graphene electrodes from acetylene-assisted thermolysis of graphite oxide sheets and nanographene molecules. 2009 , 20, 434007 | 91 |
| 2254 | Electrocatalytically Active Graphene-Platinum Nanocomposites. Role of 2-D Carbon Support in PEM Fuel Cells. 2009 , 113, 7990-7995 | 846 |
| 2253 | Nonlinear optical properties of graphene oxide in nanosecond and picosecond regimes. 2009 , 94, 021902 | 260 |
| 2252 | Flash reduction and patterning of graphite oxide and its polymer composite. 2009 , 131, 11027-32 | 743 |
| 2251 | Photoreduction of Graphene Oxide Nanosheet by UV-light Illumination under H ₂ . 2010 , 39, 750-752 | 22 |
| 2250 | The chemistry of graphene oxide. 2010 , 39, 228-40 | 8747 |
| 2249 | Carbon nanotube thin films: fabrication, properties, and applications. 2010 , 110, 5790-844 | 786 |
| 2248 | The chemistry of graphene. 2010 , 20, 2277 | 1222 |
| 2247 | Transparent, flexible conducting hybrid multilayer thin films of multiwalled carbon nanotubes with graphene nanosheets. <i>ACS Nano</i> , 2010 , 4, 3861-8 | 16.7 285 |
| 2246 | Graphene/Polyaniline Nanofiber Composites as Supercapacitor Electrodes. 2010 , 22, 1392-1401 | 1884 |
| 2245 | Nitrene addition to exfoliated graphene: a one-step route to highly functionalized graphene. 2010 , 46, 4097-9 | 130 |
| 2244 | Fabrication of graphene flakes composed of multi-layer graphene sheets using a thermal plasma jet system. 2010 , 21, 095601 | 28 |
| 2243 | Graphene/Polymer Nanocomposites. 2010 , 43, 6515-6530 | 2683 |

| | | |
|------|---|------|
| 2242 | Graphene oxides for homogeneous dispersion of carbon nanotubes. 2010 , 2, 3217-22 | 114 |
| 2241 | Simple photoreduction of graphene oxide nanosheet under mild conditions. 2010 , 2, 3461-6 | 190 |
| 2240 | Density functional theory calculations and molecular dynamics simulations of the adsorption of biomolecules on graphene surfaces. 2010 , 31, 1007-16 | 137 |
| 2239 | Efficient and large-scale synthesis of few-layered graphene using an arc-discharge method and conductivity studies of the resulting films. 2010 , 3, 661-669 | 233 |
| 2238 | Towards flexible all-carbon electronics: Flexible organic field-effect transistors and inverter circuits using solution-processed all-graphene source/drain/gate electrodes. 2010 , 3, 714-721 | 47 |
| 2237 | Microwave synthesis of large few-layer graphene sheets in aqueous solution of ammonia. 2010 , 3, 126-137 | 105 |
| 2236 | Thinnest two-dimensional nanomaterial-graphene for solar energy. 2010 , 3, 782-96 | 185 |
| 2235 | Graphite Oxide as a Photocatalyst for Hydrogen Production from Water. 2010 , 20, 2255-2262 | 663 |
| 2234 | Microstructuring of graphene oxide nanosheets using direct laser writing. 2010 , 22, 67-71 | 278 |
| 2233 | Blue photoluminescence from chemically derived graphene oxide. 2010 , 22, 505-9 | 1643 |
| 2232 | Electrically conductive "alkylated" graphene paper via chemical reduction of amine-functionalized graphene oxide paper. 2010 , 22, 892-6 | 524 |
| 2231 | Aqueous-processable noncovalent chemically converted graphene-quantum dot composites for flexible and transparent optoelectronic films. 2010 , 22, 638-42 | 277 |
| 2230 | Chemically derived graphene oxide: towards large-area thin-film electronics and optoelectronics. 2010 , 22, 2392-415 | 1818 |
| 2229 | Graphene oxide: surface activity and two-dimensional assembly. 2010 , 22, 1954-8 | 537 |
| 2228 | Determination of the local chemical structure of graphene oxide and reduced graphene oxide. 2010 , 22, 4467-72 | 881 |
| 2227 | All-carbon electronic devices fabricated by directly grown single-walled carbon nanotubes on reduced graphene oxide electrodes. 2010 , 22, 3058-61 | 186 |
| 2226 | Graphene and graphene oxide: synthesis, properties, and applications. 2010 , 22, 3906-24 | 7620 |
| 2225 | Thin film field-effect phototransistors from bandgap-tunable, solution-processed, few-layer reduced graphene oxide films. 2010 , 22, 4872-6 | 196 |

| | | |
|------|---|------|
| 2224 | Amphiphilic Graphene Composites. 2010 , 122, 9616-9619 | 27 |
| 2223 | Amphiphilic graphene composites. 2010 , 49, 9426-9 | 301 |
| 2222 | Recent advances in graphene based polymer composites. 2010 , 35, 1350-1375 | 2609 |
| 2221 | Graphene oxide/ferric hydroxide composites for efficient arsenate removal from drinking water. 2010 , 182, 162-8 | 261 |
| 2220 | Efficient bulk-heterojunction photovoltaic cells with transparent multi-layer graphene electrodes. 2010 , 11, 1864-1869 | 106 |
| 2219 | A novel synthesis of graphene by dichromate oxidation. 2010 , 167, 133-136 | 59 |
| 2218 | The preparation of hybrid films of carbon nanotubes and nano-graphite/graphene with excellent mechanical and electrical properties. 2010 , 48, 2825-2830 | 94 |
| 2217 | Comparison of the thermal properties between composites reinforced by raw and amino-functionalized carbon materials. 2010 , 70, 2176-2182 | 75 |
| 2216 | Preparation of a graphene oxide- β hthalocyanine hybrid through strong π interactions. 2010 , 48, 211-216 | 171 |
| 2215 | Porphyrin counter anion in imidazolium-modified graphene-oxide. 2010 , 48, 854-860 | 91 |
| 2214 | Fabrication of highly conducting and transparent graphene films. 2010 , 48, 1815-1823 | 253 |
| 2213 | Fast and simple fabrication of a large transparent chemically-converted graphene film by spray-coating. 2010 , 48, 1945-1951 | 271 |
| 2212 | Investigation of optical modulated conductance effects based on a graphene oxide- β zobenzene hybrid. 2010 , 48, 3236-3241 | 106 |
| 2211 | Polymer photovoltaic devices with transparent graphene electrodes produced by spin-casting. 2010 , 48, 3308-3311 | 97 |
| 2210 | Improvement of mechanical properties of graphene oxide/poly(allylamine) composites by chemical crosslinking. 2010 , 48, 3376-3381 | 115 |
| 2209 | A graphene oxide-based molecularly imprinted polymer platform for detecting endocrine disrupting chemicals. 2010 , 48, 3427-3433 | 143 |
| 2208 | Preparation of carbon-based transparent and conductive thin films by pyrolysis of silylated graphite oxides. 2010 , 48, 4009-4014 | 15 |
| 2207 | Direct reduction of graphene oxide films into highly conductive and flexible graphene films by hydrohalic acids. 2010 , 48, 4466-4474 | 1305 |

| | | |
|------|--|------|
| 2206 | Preparation of extended alkylated graphene oxide conducting layers and effect study on the electrical properties of PEDOT:PSS polymer composites. 2010 , 494, 264-268 | 30 |
| 2205 | Gaseous products of thermo- and photo-reduction of graphite oxide. 2010 , 498, 287-291 | 57 |
| 2204 | Seeing graphene-based sheets. 2010 , 13, 28-38 | 147 |
| 2203 | Graphene, a promising transparent conductor. 2010 , 13, 52-59 | 407 |
| 2202 | Electrodeposition of transparent and conducting graphene/carbon nanotube thin films. 2010 , 207, 2461-2466 | 52 |
| 2201 | Growth of few-layer graphene by gas-source molecular beam epitaxy using cracked ethanol. 2010 , 247, NA-NA | 3 |
| 2200 | Multilayer stacked low-temperature-reduced graphene oxide films: preparation, characterization, and application in polymer memory devices. 2010 , 6, 1536-42 | 104 |
| 2199 | Large-yield preparation of high-electronic-quality graphene by a Langmuir-Schaefer approach. 2010 , 6, 35-9 | 70 |
| 2198 | Flexible, transparent, conducting films of randomly stacked graphene from surfactant-stabilized, oxide-free graphene dispersions. 2010 , 6, 458-64 | 342 |
| 2197 | Water-soluble magnetic-functionalized reduced graphene oxide sheets: in situ synthesis and magnetic resonance imaging applications. 2010 , 6, 169-73 | 323 |
| 2196 | Functional graphene oxide as a nanocarrier for controlled loading and targeted delivery of mixed anticancer drugs. 2010 , 6, 537-44 | 1398 |
| 2195 | Graphene oxide, highly reduced graphene oxide, and graphene: versatile building blocks for carbon-based materials. 2010 , 6, 711-23 | 2103 |
| 2194 | Production of graphene sheets by direct dispersion with aromatic healing agents. 2010 , 6, 1100-7 | 150 |
| 2193 | High-concentration solvent exfoliation of graphene. 2010 , 6, 864-71 | 810 |
| 2192 | Conjugated-polyelectrolyte-functionalized reduced graphene oxide with excellent solubility and stability in polar solvents. 2010 , 6, 663-9 | 260 |
| 2191 | Channel-length-dependent field-effect mobility and carrier concentration of reduced graphene oxide thin-film transistors. 2010 , 6, 1210-5 | 71 |
| 2190 | Structural evolution during the reduction of chemically derived graphene oxide. 2010 , 2, 581-7 | 1399 |
| 2189 | Graphene oxide as a chemically tunable platform for optical applications. 2010 , 2, 1015-24 | 2633 |

| | | | |
|------|---|------|------|
| 2188 | Spontaneous high-concentration dispersions and liquid crystals of graphene. 2010 , 5, 406-11 | | 488 |
| 2187 | Graphene photonics and optoelectronics. 2010 , 4, 611-622 | | 5678 |
| 2186 | Solubilization of Reduced Graphene in Water through Noncovalent Interaction with Dendrimers. 2010 , 39, 1160-1161 | | 28 |
| 2185 | Preparation of Bulk ¹³ C-Enriched Graphene Materials. 2010 , 2010, 1-5 | | 15 |
| 2184 | Preparation and characterization of LiFePO ₄ /graphene-oxide composites. 2010 , 1266, 30201 | | |
| 2183 | Voltage-induced incandescent light emission from large-area graphene films. 2010 , 96, 143107 | | 28 |
| 2182 | Dielectrophoretic integration of single- and few-layer graphenes. 2010 , 107, 034302 | | 21 |
| 2181 | Flexible Chemical Sensors. 2010 , 247-273 | | 2 |
| 2180 | Thin Graphitic Structure Formation on Various Substrates by Gas-Source Molecular Beam Epitaxy Using Cracked Ethanol. 2010 , 49, 04DH13 | | 22 |
| 2179 | Facile covalent functionalization of graphene oxide using microwaves: bottom-up development of functional graphitic materials. 2010 , 20, 9052 | | 74 |
| 2178 | Preparation and Evaluation of Graphite Oxide Reduced at 220 °C. 2010 , 22, 5625-5629 | | 184 |
| 2177 | Self-Assembled Graphene/Carbon Nanotube Hybrid Films for Supercapacitors. 2010 , 1, 467-470 | | 999 |
| 2176 | Monodisperse chemically modified graphene obtained by density gradient ultracentrifugal rate separation. <i>ACS Nano</i> , 2010 , 4, 3381-9 | 16.7 | 176 |
| 2175 | Electrochemical Deposition of Polypyrrole/Sulfonated Graphene Composite Films. 2010 , 114, 22783-22789 | | 213 |
| 2174 | Reducing Graphene Oxide on a Visible-Light BiVO ₄ Photocatalyst for an Enhanced Photoelectrochemical Water Splitting. 2010 , 1, 2607-2612 | | 768 |
| 2173 | Graphene and mobile ions: the key to all-plastic, solution-processed light-emitting devices. <i>ACS Nano</i> , 2010 , 4, 637-42 | 16.7 | 242 |
| 2172 | General route toward patterning of graphene oxide by a combination of wettability modulation and spin-coating. <i>ACS Nano</i> , 2010 , 4, 5749-54 | 16.7 | 50 |
| 2171 | Direct fabrication of photoconductive patterns on LBL assembled graphene oxide/PDDA/titania hybrid films by photothermal and photocatalytic reduction. 2010 , 20, 5190 | | 88 |

| | | | |
|------|---|------|------|
| 2170 | High mobility, printable, and solution-processed graphene electronics. 2010 , 10, 92-8 | | 413 |
| 2169 | A roadmap to high quality chemically prepared graphene. 2010 , 43, 374015 | | 48 |
| 2168 | Non-Annealed Graphene Paper as a Binder-Free Anode for Lithium-Ion Batteries. 2010 , 114, 12800-12804 | | 223 |
| 2167 | Fully solution-processed inverted polymer solar cells with laminated nanowire electrodes. <i>ACS Nano</i> , 2010 , 4, 30-4 | 16.7 | 253 |
| 2166 | Use of butylamine modified graphene sheets in polymer solar cells. 2010 , 20, 995-1000 | | 92 |
| 2165 | Flexible, Magnetic, and Electrically Conductive Graphene/Fe ₃ O ₄ Paper and Its Application for Magnetic-Controlled Switches. 2010 , 114, 17465-17471 | | 162 |
| 2164 | Scalable coating and properties of transparent, flexible, silver nanowire electrodes. <i>ACS Nano</i> , 2010 , 4, 2955-63 | 16.7 | 1734 |
| 2163 | Efficient preparation of large-area graphene oxide sheets for transparent conductive films. <i>ACS Nano</i> , 2010 , 4, 5245-52 | 16.7 | 775 |
| 2162 | Highly uniform 300 mm wafer-scale deposition of single and multilayered chemically derived graphene thin films. <i>ACS Nano</i> , 2010 , 4, 524-8 | 16.7 | 189 |
| 2161 | Graphene nanoribbon thin films using layer-by-layer assembly. 2010 , 10, 4356-62 | | 63 |
| 2160 | Local current mapping and patterning of reduced graphene oxide. 2010 , 132, 14130-6 | | 126 |
| 2159 | Conductivity of ruthenate nanosheets prepared via electrostatic self-assembly: characterization of isolated single nanosheet crystallite to mono- and multilayer electrodes. 2010 , 26, 18049-54 | | 43 |
| 2158 | Nanolithography of single-layer graphene oxide films by atomic force microscopy. 2010 , 26, 6164-6 | | 62 |
| 2157 | Dip-pen nanolithography of electrical contacts to single graphene flakes. <i>ACS Nano</i> , 2010 , 4, 6409-16 | 16.7 | 21 |
| 2156 | Toward all-carbon electronics: fabrication of graphene-based flexible electronic circuits and memory cards using maskless laser direct writing. 2010 , 2, 3310-7 | | 47 |
| 2155 | Fabrication and evaluation of solution-processed reduced graphene oxide electrodes for p- and n-channel bottom-contact organic thin-film transistors. <i>ACS Nano</i> , 2010 , 4, 6343-52 | 16.7 | 65 |
| 2154 | Surface energy modification by spin-cast, large-area graphene film for block copolymer lithography. <i>ACS Nano</i> , 2010 , 4, 5464-70 | 16.7 | 122 |
| 2153 | Highly conductive PEDOT:PSS films prepared through a treatment with zwitterions and their application in polymer photovoltaic cells. 2010 , 20, 9740 | | 167 |

| | | | |
|------|---|------|------|
| 2152 | Supercapacitors based on flexible graphene/polyaniline nanofiber composite films. <i>ACS Nano</i> , 2010 , 4, 1963-70 | 16.7 | 1934 |
| 2151 | Preparation and properties of a graphene reinforced nanocomposite conducting plate. 2010 , 20, 8496 | | 105 |
| 2150 | Graphene oxide nanocolloids. 2010 , 132, 17667-9 | | 320 |
| 2149 | Organic light-emitting diodes on solution-processed graphene transparent electrodes. <i>ACS Nano</i> , 2010 , 4, 43-8 | 16.7 | 838 |
| 2148 | Enhanced nonlinear optical responses in donor-acceptor ionic complexes via photo induced energy transfer. 2010 , 18, 25928-35 | | 35 |
| 2147 | Chemical doping of large-area stacked graphene films for use as transparent, conducting electrodes. <i>ACS Nano</i> , 2010 , 4, 3839-44 | 16.7 | 295 |
| 2146 | Layered nanostructures of polyaniline with graphene oxide as the dopant and template. 2010 , 160, 1617-1622 | | 64 |
| 2145 | Exfoliation of graphite oxide in propylene carbonate and thermal reduction of the resulting graphene oxide platelets. <i>ACS Nano</i> , 2010 , 4, 1227-33 | 16.7 | 615 |
| 2144 | Solvent-Assisted Thermal Reduction of Graphite Oxide. 2010 , 114, 14819-14825 | | 241 |
| 2143 | A Simple Approach for Preparing Transparent Conductive Graphene Films Using the Controlled Chemical Reduction of Exfoliated Graphene Oxide in an Aqueous Suspension. 2010 , 114, 14433-14440 | | 96 |
| 2142 | A new approach to fabricate graphene nanosheets in organic medium: combination of reduction and dispersion. 2010 , 20, 1722 | | 205 |
| 2141 | Are there fundamental limitations on the sheet resistance and transmittance of thin graphene films?. <i>ACS Nano</i> , 2010 , 4, 2713-20 | 16.7 | 462 |
| 2140 | Two-dimensional carbon nanostructures: Fundamental properties, synthesis, characterization, and potential applications. 2010 , 108, 071301 | | 216 |
| 2139 | Sonolytic Design of Graphene/Au Nanocomposites. Simultaneous and Sequential Reduction of Graphene Oxide and Au(III). 2010 , 1, 1987-1993 | | 184 |
| 2138 | Porphyrin Functionalized Graphene Sheets in Aqueous Suspensions: From the Preparation of Graphene Sheets to Highly Conductive Graphene Films. 2010 , 114, 8227-8234 | | 273 |
| 2137 | Improvement of transparent conducting nanotube films by addition of small quantities of graphene. <i>ACS Nano</i> , 2010 , 4, 4238-46 | 16.7 | 102 |
| 2136 | Soluble P3HT-grafted graphene for efficient bilayer-heterojunction photovoltaic devices. <i>ACS Nano</i> , 2010 , 4, 5633-40 | 16.7 | 415 |
| 2135 | Tunable assembly of graphene oxide surfactant sheets: wrinkles, overlaps and impacts on thin film properties. 2010 , 6, 6096 | | 189 |

| | | |
|------|--|----------|
| 2134 | Formation of Graphene Features from Direct Laser-Induced Reduction of Graphite Oxide. 2010 , 1, 2633-2636 | 174 |
| 2133 | Photodegradation of Graphene Oxide Sheets by TiO ₂ Nanoparticles after a Photocatalytic Reduction. 2010 , 114, 12955-12959 | 367 |
| 2132 | Vitamin C Is an Ideal Substitute for Hydrazine in the Reduction of Graphene Oxide Suspensions. 2010 , 114, 6426-6432 | 1065 |
| 2131 | Mechanical properties of monolayer graphene oxide. <i>ACS Nano</i> , 2010 , 4, 6557-64 | 16.7 831 |
| 2130 | Preparation of graphene relying on porphyrin exfoliation of graphite. 2010 , 46, 5091-3 | 140 |
| 2129 | Nanostructured carbon electrodes. 2010 , 20, 3553 | 58 |
| 2128 | Graphene oxide nanosheets based organic field effect transistor for nonvolatile memory applications. 2010 , 97, 023310 | 89 |
| 2127 | High yield fabrication of chemically reduced graphene oxide field effect transistors by dielectrophoresis. 2010 , 21, 165202 | 108 |
| 2126 | Highly efficient restoration of graphitic structure in graphene oxide using alcohol vapors. <i>ACS Nano</i> , 2010 , 4, 5285-92 | 16.7 227 |
| 2125 | Stable, conductive supramolecular composite of graphene sheets with conjugated polyelectrolyte. 2010 , 26, 6708-12 | 109 |
| 2124 | Enhanced reversible photoswitching of azobenzene-functionalized graphene oxide hybrids. 2010 , 26, 18508-11 | 49 |
| 2123 | Two-dimensional graphene bridges enhanced photoinduced charge transport in dye-sensitized solar cells. <i>ACS Nano</i> , 2010 , 4, 887-94 | 16.7 840 |
| 2122 | The role of intercalated water in multilayered graphene oxide. <i>ACS Nano</i> , 2010 , 4, 5861-8 | 16.7 303 |
| 2121 | Valence band of graphite oxide. 2010 , 92, 37005 | 55 |
| 2120 | Effect of graphene oxide nanomaterial in electroclinic liquid crystals. 2010 , 108, 124110 | 22 |
| 2119 | Highly conductive and transparent single-walled carbon nanotube thin films fabricated by gel coating. 2011 , 21, 17842 | 23 |
| 2118 | Novel synthesis of graphene foils in mesostructured silica between hexagonal and lamellar phases. 2011 , 47, 2297-9 | 7 |
| 2117 | Graphene-NiO Composite Electrode for Supercapacitors. 2011 , 345, 75-78 | 1 |

| | | | |
|------|--|------|------|
| 2116 | Transfer printing of graphene strip from the graphene grown on copper wires. 2011 , 22, 185309 | | 26 |
| 2115 | Synthesis of TiO ₂ /graphene composites via visible-light photocatalytic reduction of graphene oxide. 2011 , 26, 970-973 | | 23 |
| 2114 | The preparation and electrical properties of the functionalized graphene/poly (ether sulfone) nanocomposites. 2011 , 23, 592-601 | | 11 |
| 2113 | High-performance transparent conductive films using rheologically derived reduced graphene oxide. <i>ACS Nano</i> , 2011 , 5, 870-8 | 16.7 | 78 |
| 2112 | Transparent electrode with a nanostructured coating. <i>ACS Nano</i> , 2011 , 5, 2082-9 | 16.7 | 18 |
| 2111 | Transparent conducting films from NbSe ₃ nanowires. 2011 , 22, 285202 | | 6 |
| 2110 | Catalyst-Free Direct Growth of Triangular Nano-Graphene on All Substrates. 2011 , 115, 14488-14493 | | 53 |
| 2109 | Hybrid nanostructure heterojunction solar cells fabricated using vertically aligned ZnO nanotubes grown on reduced graphene oxide. 2011 , 22, 405401 | | 24 |
| 2108 | Graphene transistors via in situ voltage-induced reduction of graphene-oxide under ambient conditions. 2011 , 133, 14320-6 | | 50 |
| 2107 | Graphite Oxide with Different Oxygenated Levels for Hydrogen and Oxygen Production from Water under Illumination: The Band Positions of Graphite Oxide. 2011 , 115, 22587-22597 | | 232 |
| 2106 | Nanomaterials for Alternative Energy. 2011 , 199-246 | | |
| 2105 | Low-temperature exfoliation of multilayer-graphene material from FeCl ₃ and CH ₃ NO ₂ co-intercalated graphite compound. 2011 , 47, 5265-7 | | 34 |
| 2104 | Adsorption of nitrogen oxides on graphene and graphene oxides: insights from density functional calculations. 2011 , 134, 044710 | | 147 |
| 2103 | An effective strategy for small-sized and highly-dispersed palladium nanoparticles supported on graphene with excellent performance for formic acid oxidation. 2011 , 21, 3384 | | 220 |
| 2102 | Highly conductive chemically converted graphene prepared from mildly oxidized graphene oxide. 2011 , 21, 7376 | | 164 |
| 2101 | A review of chemical vapour deposition of graphene on copper. 2011 , 21, 3324-3334 | | 1106 |
| 2100 | Graphene oxides dispersing and hosting graphene sheets for unique nanocomposite materials. <i>ACS Nano</i> , 2011 , 5, 3052-8 | 16.7 | 82 |
| 2099 | Comprehension of Nanocomposites. 2011 , 777-819 | | 2 |

| | | |
|------|--|----------|
| 2098 | Chemically modified graphene: flame retardant or fuel for combustion?. 2011 , 21, 3277-3279 | 63 |
| 2097 | Langmuir-Blodgett Assembly of Soft Carbon Sheets. 2011 , 1344, 1 | |
| 2096 | Self-assembly of graphene onto electrospun polyamide 66 nanofibers as transparent conductive thin films. 2011 , 22, 475603 | 41 |
| 2095 | Preparation of non-covalently functionalized graphene using 9-anthracene carboxylic acid. 2011 , 22, 405603 | 43 |
| 2094 | 57 Applications of Nanoparticles Containing Porphyrins and Related Systems. 2011 , 349-417 | 1 |
| 2093 | Melatonin as a powerful bio-antioxidant for reduction of graphene oxide. 2011 , 21, 10907 | 236 |
| 2092 | Size fractionation of graphene oxide sheets by pH-assisted selective sedimentation. 2011 , 133, 6338-42 | 264 |
| 2091 | Multi-functionalized graphene oxide based anticancer drug-carrier with dual-targeting function and pH-sensitivity. 2011 , 21, 3448-3454 | 452 |
| 2090 | PEDOT:PSS films with significantly enhanced conductivities induced by preferential solvation with cosolvents and their application in polymer photovoltaic cells. 2011 , 21, 4927 | 379 |
| 2089 | Fabrication of uniform graphene discs via transversal cutting of carbon nanofibers. <i>ACS Nano</i> , 2011 , 5, 6254-61 | 16.7 23 |
| 2088 | Synthesis and strong optical limiting response of graphite oxide covalently functionalized with gallium phthalocyanine. 2011 , 22, 205704 | 32 |
| 2087 | Synthesis of ethanol-soluble few-layer graphene nanosheets for flexible and transparent conducting composite films. 2011 , 22, 295606 | 45 |
| 2086 | Achieving high specific charge capacitances in Fe ₃ O ₄ /reduced graphene oxide nanocomposites. 2011 , 21, 3422 | 378 |
| 2085 | Microwave-assisted synthesis of ZnO/graphene composite for photocatalytic reduction of Cr(VI). 2011 , 1, 1189 | 183 |
| 2084 | Effect of Oxygen Content on Structures of Graphite Oxides. 2011 , 50, 6132-6137 | 99 |
| 2083 | High strength graphene oxide/polyvinyl alcohol composite hydrogels. 2011 , 21, 10399 | 320 |
| 2082 | The effects of percolation in nanostructured transparent conductors. 2011 , 36, 774-781 | 193 |
| 2081 | Evolution of order during vacuum-assisted self-assembly of graphene oxide paper and associated polymer nanocomposites. <i>ACS Nano</i> , 2011 , 5, 6601-9 | 16.7 140 |

| | | |
|------|---|----------|
| 2080 | Graphene based Schottky junction solar cells on patterned silicon-pillar-array substrate. 2011 , 99, 233505 | 68 |
| 2079 | NiO/Graphene Composite for Enhanced Charge Separation and Collection in p-Type Dye Sensitized Solar Cell. 2011 , 115, 12209-12215 | 149 |
| 2078 | Graphene based new energy materials. 2011 , 4, 1113 | 1637 |
| 2077 | Microwave-assisted synthesis of TiO ₂ -reduced graphene oxide composites for the photocatalytic reduction of Cr(VI). 2011 , 1, 1245 | 140 |
| 2076 | Graphene oxide with covalently linked porphyrin antennae: Synthesis, characterization and photophysical properties. 2011 , 21, 109-117 | 207 |
| 2075 | Graphene nanosheets deposited on polyurethane films by self-assembly for preparing transparent, conductive films. 2011 , 21, 14876 | 22 |
| 2074 | Highly Ordered Monolayer, Multilayer, and Hybrid Films of Graphene Oxide Obtained by the Bubble Deposition Method. 2011 , 115, 14678-14681 | 28 |
| 2073 | Photoactive graphene sheets prepared by "click" chemistry. 2011 , 47, 5747-9 | 102 |
| 2072 | Stretchable, elastic materials and devices for solar energy conversion. 2011 , 4, 3314 | 322 |
| 2071 | Graphene oxide nanosheets/multi-walled carbon nanotubes hybrid as an excellent electrocatalytic material towards VO ₂ ⁺ /VO ₂ ²⁺ redox couples for vanadium redox flow batteries. 2011 , 4, 4710 | 252 |
| 2070 | Hierarchical graphene nanocones over 3D platform of carbon fabrics: a route towards fully foldable graphene based electron source. 2011 , 3, 4135-41 | 32 |
| 2069 | Production of graphene by exfoliation of graphite in a volatile organic solvent. 2011 , 22, 365601 | 56 |
| 2068 | Water-Soluble Graphite Nanoplatelets Formed by Oleum Exfoliation of Graphite. 2011 , 23, 9-13 | 35 |
| 2067 | Synthesis of polymer-protected graphene by solvent-assisted thermal reduction process. 2011 , 22, 345601 | 27 |
| 2066 | Low-temperature synthesis of large-area graphene-based transparent conductive films using surface wave plasma chemical vapor deposition. 2011 , 98, 091502 | 178 |
| 2065 | Nitrogen doped SrTiO ₃ coupled with graphene sheets as photocatalysts for increased photocatalytic hydrogen production. <i>ACS Nano</i> , 2011 , 5, 3483-92 | 16.7 292 |
| 2064 | Nonlinear optical and optical limiting properties of graphene oxide/Be ₃ O ₄ hybrid material. 2011 , 13, 075202 | 77 |
| 2063 | Electrochemical performance of a graphene-polypyrrole nanocomposite as a supercapacitor electrode. 2011 , 22, 295202 | 132 |

| | | | |
|------|---|------|-----|
| 2062 | Enhanced electrical properties of reduced graphene oxide multilayer films by in-situ insertion of a TiO ₂ layer. <i>ACS Nano</i> , 2011 , 5, 8884-91 | 16.7 | 49 |
| 2061 | A three-dimensional vertically aligned functionalized multilayer graphene architecture: an approach for graphene-based thermal interfacial materials. <i>ACS Nano</i> , 2011 , 5, 2392-401 | 16.7 | 244 |
| 2060 | Highly controllable transparent and conducting thin films using layer-by-layer assembly of oppositely charged reduced graphene oxides. 2011 , 21, 3438-3442 | | 181 |
| 2059 | Wrapping bacteria by graphene nanosheets for isolation from environment, reactivation by sonication, and inactivation by near-infrared irradiation. 2011 , 115, 6279-88 | | 454 |
| 2058 | Nanofillers. 2011 , 1 | | |
| 2057 | High Throughput Preparation of Large Area Transparent Electrodes Using Non-Functionalized Graphene Nanoribbons. 2011 , 23, 935-939 | | 19 |
| 2056 | Nanotechnology Research Directions for Societal Needs in 2020. 2011 , | | 151 |
| 2055 | Effect of extended polymer chains on properties of transparent graphene nanosheets conductive film. 2011 , 21, 18236 | | 103 |
| 2054 | Electrochemical deposition of polyaniline nanosheets mediated by sulfonated polyaniline functionalized graphenes. 2011 , 21, 13978 | | 50 |
| 2053 | Ethanol-assisted graphene oxide-based thin film formation at pentane-water interface. 2011 , 27, 9174-81 | | 66 |
| 2052 | Reductive-oxidation electrogenerated chemiluminescence (ECL) generation at a transparent silver nanowire electrode. 2011 , 27, 3121-7 | | 12 |
| 2051 | Transparent, luminescent, antibacterial and patternable film forming composites of graphene oxide/reduced graphene oxide. 2011 , 3, 2643-54 | | 100 |
| 2050 | Transparent conductive films consisting of ultralarge graphene sheets produced by Langmuir-Blodgett assembly. <i>ACS Nano</i> , 2011 , 5, 6039-51 | 16.7 | 351 |
| 2049 | In Situ Polymerization of Graphene, Graphite Oxide, and Functionalized Graphite Oxide into Epoxy Resin and Comparison Study of On-the-Flame Behavior. 2011 , 50, 7772-7783 | | 257 |
| 2048 | Fused silver nanowires with metal oxide nanoparticles and organic polymers for highly transparent conductors. <i>ACS Nano</i> , 2011 , 5, 9877-82 | 16.7 | 326 |
| 2047 | Band Gap Opening of Graphene after UV/Ozone and Oxygen Plasma Treatments. 2011 , 1284, 117 | | 1 |
| 2046 | A strategy for fabricating single layer graphene sheets based on a layer-by-layer self-assembly. 2011 , 47, 7182-4 | | 39 |
| 2045 | Controlled van der Waals heteroepitaxy of InAs nanowires on carbon honeycomb lattices. <i>ACS Nano</i> , 2011 , 5, 7576-84 | 16.7 | 60 |

| | | | |
|------|---|------|------|
| 2044 | Rational design of hybrid graphene films for high-performance transparent electrodes. <i>ACS Nano</i> , 2011 , 5, 6472-9 | 16.7 | 265 |
| 2043 | A simple and efficient method to prepare graphene by reduction of graphite oxide with sodium hydrosulfite. 2011 , 22, 045704 | | 167 |
| 2042 | Preventing Graphene Sheets from Restacking for High-Capacitance Performance. 2011 , 115, 23192-23197 | | 310 |
| 2041 | Graphene-containing thermoresponsive nanocomposite hydrogels of poly(N-isopropylacrylamide) prepared by frontal polymerization. 2011 , 21, 8727 | | 179 |
| 2040 | Low-temperature growth of graphene by chemical vapor deposition using solid and liquid carbon sources. <i>ACS Nano</i> , 2011 , 5, 3385-90 | 16.7 | 304 |
| 2039 | Incorporation of graphene in quantum dot sensitized solar cells based on ZnO nanorods. 2011 , 47, 6084-6 | | 78 |
| 2038 | Microwave-assisted synthesis of graphene/ZnO nanocomposite for electrochemical supercapacitors. 2011 , 509, 5488-5492 | | 166 |
| 2037 | Enhanced photocatalytic degradation of methylene blue by ZnO-reduced graphene oxide composite synthesized via microwave-assisted reaction. 2011 , 509, 10086-10091 | | 172 |
| 2036 | Vertical alignment of reduced graphene oxide/Fe-oxide hybrids using the magneto-evaporation method. 2011 , 47, 5211-3 | | 9 |
| 2035 | High-performance self-assembled graphene hydrogels prepared by chemical reduction of graphene oxide. 2011 , 26, 9-15 | | 249 |
| 2034 | High-resolution separation of graphene oxide by capillary electrophoresis. 2011 , 83, 9100-6 | | 38 |
| 2033 | Fluorescence and electroluminescence quenching evidence of interfacial charge transfer in poly (3-hexylthiophene): graphene oxide bulk heterojunction photovoltaic devices. <i>ACS Nano</i> , 2011 , 5, 942-51 ^{16.7} | 16.7 | 74 |
| 2032 | Rapid preparation of noble metal nanocrystals via facile coreduction with graphene oxide and their enhanced catalytic properties. 2011 , 3, 3737-42 | | 44 |
| 2031 | Ultrathin planar graphene supercapacitors. 2011 , 11, 1423-7 | | 1020 |
| 2030 | One-pot hydrothermal synthesis of Ag-reduced graphene oxide composite with ionic liquid. 2011 , 21, 7795 | | 136 |
| 2029 | Graphene and carbon nanotube composite electrodes for supercapacitors with ultra-high energy density. 2011 , 13, 17615-24 | | 525 |
| 2028 | A new graphene-modified protic ionic liquid-based composite membrane for solid polymer electrolytes. 2011 , 21, 10448 | | 78 |
| 2027 | Evaluation Criteria for Reduced Graphene Oxide. 2011 , 115, 11327-11335 | | 409 |

| | | | |
|------|--|------|-----|
| 2026 | Fullerene-Grafted Graphene for Efficient Bulk Heterojunction Polymer Photovoltaic Devices. 2011 , 2, 1113-8 | | 195 |
| 2025 | Oxidation of SO ₂ to SO ₃ catalyzed by graphene oxide foams. 2011 , 21, 13934 | | 118 |
| 2024 | The synthesis and fluorescence quenching properties of well soluble hybrid graphene material covalently functionalized with indolizine. 2011 , 22, 075202 | | 20 |
| 2023 | Sodium deoxycholate functionalized graphene and its composites with polyvinyl alcohol. 2011 , 44, 445302 | | 14 |
| 2022 | Electric field-induced nanopatterning of reduced graphene oxide on Si and a p/n diode junction. 2011 , 21, 5805 | | 10 |
| 2021 | Assembly of chemically modified graphene: methods and applications. 2011 , 21, 3311-3323 | | 231 |
| 2020 | Partially oxidized graphene as a precursor to graphene. 2011 , 21, 11217 | | 66 |
| 2019 | Blood compatible graphene/heparin conjugate through noncovalent chemistry. 2011 , 12, 336-41 | | 185 |
| 2018 | Hierarchically ordered macro-mesoporous TiO ₂ /graphene composite films: improved mass transfer, reduced charge recombination, and their enhanced photocatalytic activities. <i>ACS Nano</i> , 2011 , 5, 590-6 | 16.7 | 655 |
| 2017 | Trends and Frontiers in Graphene-Based Polymer Nanocomposites. 2011 , 67, 32-42 | | 92 |
| 2016 | Synthesis of Aqueous Dispersion of Graphenes via Reduction of Graphite Oxide in the Solution of Conductive Polymer. 2011 , | | |
| 2015 | Synthesis of Graphene Films by Chemical Vapor Deposition for Transparent Conducting Electrodes of GaN Light-Emitting Diodes. 2011 , | | |
| 2014 | P-167: Characteristics of Polymer Light Emitting Diode with Solution Processed Graphene Oxide Layer. 2011 , 42, 1729-1732 | | 1 |
| 2013 | Current trends in materials for dye sensitized solar cells. 2011 , 5, 46-61 | | 24 |
| 2012 | WITHDRAWN: Folding and cracking of graphene oxide sheets upon deposition. 2011 , | | |
| 2011 | Submillimeter-scale Graphene Patterning through Ink-jet Printing of Graphene Oxide Ink. 2011 , 40, 54-55 | | 23 |
| 2010 | Enhanced Solvent Exfoliation of Graphite to Graphene Dispersion in the Presence of Polymer Additive. 2011 , 40, 567-569 | | 16 |
| 2009 | Spin coated graphene films as the transparent electrode in organic photovoltaic devices. 2011 , 520, 1238-1241 | 70 | |

| | | |
|------|--|----------|
| 2008 | Graphene oxide-Ag nanocomposite: In situ photochemical synthesis and application as a surface-enhanced Raman scattering substrate. 2011 , 520, 179-185 | 50 |
| 2007 | A novel approach for synthesis of TiO ₂ /graphene nanocomposites and their photoelectrical properties. 2011 , 64, 621-624 | 39 |
| 2006 | Aniline- and N,N-dimethylformamide-assisted processing route for graphite nanoplates: intercalation and exfoliation pathway. 2011 , 65, 1371-1374 | 4 |
| 2005 | A study on the preparation of highly conductive graphene. 2011 , 65, 2582-2584 | 27 |
| 2004 | Ultrasonication-assisted ultrafast reduction of graphene oxide by zinc powder at room temperature. 2011 , 49, 5389-5397 | 296 |
| 2003 | Understanding the Enhancement in Photoelectrochemical Properties of Photocatalytically Prepared TiO ₂ -Reduced Graphene Oxide Composite. 2011 , 115, 6004-6009 | 377 |
| 2002 | High-quality thin graphene films from fast electrochemical exfoliation. <i>ACS Nano</i> , 2011 , 5, 2332-9 | 16.7 765 |
| 2001 | Solution processing of transparent conductors: from flask to film. 2011 , 40, 5406-41 | 276 |
| 2000 | Thickness Control of Graphene Overlayer via Layer-by-Layer Growth on Graphene Templates by Chemical Vapor Deposition. 2011 , 50, 06GE04 | 9 |
| 1999 | Graphene filled polymer nanocomposites. 2011 , 21, 3301-3310 | 596 |
| 1998 | Dual path mechanism in the thermal reduction of graphene oxide. 2011 , 133, 17315-21 | 356 |
| 1997 | Graphene counter electrodes for dye-sensitized solar cells prepared by electrophoretic deposition. 2011 , 21, 7548 | 234 |
| 1996 | Controlling graphite oxide bandgap width by reduction in hydrogen. 2011 , 37, 942-945 | 15 |
| 1995 | Bi- and trilayer graphene solutions. 2011 , 6, 439-45 | 304 |
| 1994 | Solid-state microwave irradiation synthesis of high quality graphene nanosheets under hydrogen containing atmosphere. 2011 , 21, 680-686 | 128 |
| 1993 | Role of poly(N-vinyl-2-pyrrolidone) as stabilizer for dispersion of graphene via hydrophobic interaction. 2011 , 46, 1316-1321 | 72 |
| 1992 | Preparation of MnO ₂ /graphene composite as electrode material for supercapacitors. 2011 , 46, 3517-3522 | 114 |
| 1991 | Sonochemical synthesis and application of rhodium/graphene nanocomposite. 2011 , 13, 2769-2777 | 20 |

| | | |
|------|--|------|
| 1990 | Noncovalent wrapping of chemically modified graphene with π -conjugated disk-like molecules. 2011 , 289, 925-932 | 27 |
| 1989 | Effect of the perfluoroalkyl groups on the preparation of carbon-based transparent and conductive thin films from silylated graphite oxides. 2011 , 132, 669-672 | 3 |
| 1988 | Large carbon cluster anions generated by laser ablation of graphene. 2011 , 22, 2033-41 | 18 |
| 1987 | Preparation, characterization, and electrocatalytic performance of graphene-methylene blue thin films. 2011 , 4, 124-130 | 34 |
| 1986 | High-quality single-layer graphene via reparative reduction of graphene oxide. 2011 , 4, 434-439 | 80 |
| 1985 | Graphene-based conducting inks for direct inkjet printing of flexible conductive patterns and their applications in electric circuits and chemical sensors. 2011 , 4, 675-684 | 355 |
| 1984 | Ionic liquid-assisted one-step hydrothermal synthesis of TiO ₂ -reduced graphene oxide composites. 2011 , 4, 795-806 | 123 |
| 1983 | Doping graphene films via chemically mediated charge transfer. 2011 , 6, 111 | 34 |
| 1982 | Graphene-based materials: synthesis, characterization, properties, and applications. 2011 , 7, 1876-902 | 1968 |
| 1981 | Spray deposition of highly transparent, low-resistance networks of silver nanowires over large areas. 2011 , 7, 2621-8 | 254 |
| 1980 | Flexible and transparent electrothermal film heaters based on graphene materials. 2011 , 7, 3186-92 | 311 |
| 1979 | Thermo-Responsive Assembly of Chemically Reduced Graphene and Poly(N-isopropylacrylamide). 2011 , 212, 336-341 | 37 |
| 1978 | One-Step Electrochemical Synthesis of Graphene/Polyaniline Composite Film and Its Applications. 2011 , 21, 2989-2996 | 434 |
| 1977 | Electromechanical Actuators Based on Graphene and Graphene/Fe ₃ O ₄ Hybrid Paper. 2011 , 21, 3778-3784 | 159 |
| 1976 | Emerging transparent electrodes based on thin films of carbon nanotubes, graphene, and metallic nanostructures. 2011 , 23, 1482-513 | 1737 |
| 1975 | Reduced graphene oxide electrodes for large area organic electronics. 2011 , 23, 1558-62 | 83 |
| 1974 | Graphene as transparent electrode material for organic electronics. 2011 , 23, 2779-95 | 612 |
| 1973 | Micropatterning of graphene sheets by inkjet printing and its wideband dipole-antenna application. 2011 , 23, 2113-8 | 209 |

| | | |
|------|--|-----|
| 1972 | Smooth nanowire/polymer composite transparent electrodes. 2011 , 23, 2905-10 | 496 |
| 1971 | Sulfonated graphene for persistent aromatic pollutant management. 2011 , 23, 3959-63 | 598 |
| 1970 | Graphene - a promising material for organic photovoltaic cells. 2011 , 23, 5342-58 | 218 |
| 1969 | Self-assembly and embedding of nanoparticles by in situ reduced graphene for preparation of a 3D graphene/nanoparticle aerogel. 2011 , 23, 5679-83 | 755 |
| 1968 | Graphene oxide noncovalent photosensitizer and its anticancer activity in vitro. 2011 , 17, 12084-91 | 91 |
| 1967 | Synthesis and characterization of red-luminescent graphene oxide functionalized with silica-coated Eu ³⁺ complex nanoparticles. 2011 , 17, 7007-12 | 23 |
| 1966 | Semiconductor/reduced graphene oxide nanocomposites derived from photocatalytic reactions. 2011 , 164, 353-357 | 155 |
| 1965 | Magnetic Fe ₃ O ₄ -graphene oxide/polystyrene: Fabrication and characterization of a promising nanocomposite. 2011 , 172, 540-549 | 241 |
| 1964 | Photocatalytic reduction of graphene oxides hybridized by ZnO nanoparticles in ethanol. 2011 , 49, 11-18 | 324 |
| 1963 | Graphene oxide nanoplatelets as excellent electrochemical active materials for VO ₂ ^{+/} and V ²⁺ /V ³⁺ redox couples for a vanadium redox flow battery. 2011 , 49, 693-700 | 210 |
| 1962 | Electronic structure of graphite oxide and thermally reduced graphite oxide. 2011 , 49, 1362-1366 | 187 |
| 1961 | The production of graphene nanosheets decorated with silver nanoparticles for use in transparent, conductive films. 2011 , 49, 1550-1560 | 293 |
| 1960 | Pulsed laser assisted reduction of graphene oxide. 2011 , 49, 2431-2436 | 166 |
| 1959 | Improved electrical and optical characteristics of transparent graphene thin films produced by acid and doping treatments. 2011 , 49, 2905-2916 | 74 |
| 1958 | Graphene and nanostructured MnO ₂ composite electrodes for supercapacitors. 2011 , 49, 2917-2925 | 616 |
| 1957 | One-step synthesis of NH ₂ -graphene from in situ graphene-oxide reduction and its improved electrochemical properties. 2011 , 49, 3250-3257 | 322 |
| 1956 | Noncovalent modified graphene sheets with ruthenium(II) complexes used as electrochemiluminescent materials and photosensors. 2011 , 49, 4239-4245 | 37 |
| 1955 | Preparation of chitosan/graphene oxide composite film with enhanced mechanical strength in the wet state. 2011 , 83, 653-658 | 410 |

| | | |
|------|--|------|
| 1954 | Cellulose/graphite oxide composite films with improved mechanical properties over a wide range of temperature. 2011 , 83, 966-972 | 118 |
| 1953 | Multilayer films of cationic graphene-polyelectrolytes and anionic graphene-polyelectrolytes fabricated using layer-by-layer self-assembly. 2011 , 257, 4982-4989 | 43 |
| 1952 | Structural evolution of graphite oxide during heat treatment. 2011 , 511, 110-115 | 34 |
| 1951 | CuO/graphene composite as anode materials for lithium-ion batteries. 2011 , 56, 2306-2311 | 339 |
| 1950 | Preparation of graphene/polyaniline composites by simple chemical procedure and its improved field emission properties. 2011 , 49, 2245-2252 | 108 |
| 1949 | Graphene oxide monolayers as supporting films for high resolution transmission electron microscopy. 2011 , 257, 5754-5758 | 6 |
| 1948 | Enhanced Li capacity at high lithiation potentials in graphene oxide. 2011 , 196, 5697-5703 | 50 |
| 1947 | Photovoltaic properties of graphene oxide sheets beaded with ZnO nanoparticles. 2011 , 184, 881-887 | 35 |
| 1946 | Preparation of water soluble graphene using polyethylene glycol: Comparison of covalent approach and noncovalent approach. 2011 , 17, 298-303 | 48 |
| 1945 | Graphene based materials: Past, present and future. 2011 , 56, 1178-1271 | 2607 |
| 1944 | Graphene-based polymer nanocomposites. 2011 , 52, 5-25 | 2439 |
| 1943 | Folding and cracking of graphene oxide sheets upon deposition. 2011 , 605, 1669-1675 | 26 |
| 1942 | Layer-by-layer growth of graphene layers on graphene substrates by chemical vapor deposition. 2011 , 519, 6447-6452 | 42 |
| 1941 | Preparation of Functionalized Graphene Sheets. 2011 , 15, 1133-1150 | 36 |
| 1940 | Scalable nanoimprint patterning of thin graphitic oxide sheets and in situ reduction. 2011 , 29, 011023 | 6 |
| 1939 | Oxygen sensors made by monolayer graphene under room temperature. 2011 , 99, 243502 | 96 |
| 1938 | Electric field assisted thermal annealing reorganization of graphene oxide/polystyrene latex films. 2011 , 5, 819-824 | 5 |
| 1937 | Ultra-thin graphene edges at the nanowire tips: a cascade cold cathode with two-stage field amplification. 2011 , 22, 505703 | 41 |

| | | |
|------|---|-----|
| 1936 | Nano-Flower MnO ₂ Coated Graphene Composite Electrodes for Energy Storage Devices. 2011 , 1303, 157 | |
| 1935 | Resistive Switching in Al/Graphene Oxide/Al Structure. 2011 , 50, 070110 | 20 |
| 1934 | Preparation of Single- and Few-Layer Graphene Sheets Using Co Deposition on SiC Substrate. 2011 , 2011, 1-7 | 26 |
| 1933 | Development and Characterization of Amorphous Thermoplastic Matrix Graphene Nanocomposites. 2012 , 5, 1972-1985 | 14 |
| 1932 | Direct deposition of semitransparent conducting pyrolytic carbon films. 2012 , 6, 061703 | 27 |
| 1931 | Rate of belowground carbon allocation differs with successional habit of two afro-montane trees. 2012 , 7, e45540 | 10 |
| 1930 | Spray deposition of Silver Nanowire transparent conductive networks. 2012 , | 1 |
| 1929 | PATTERNING AND ASSEMBLING NANOMATERIALS BY DIP COATING. 2012 , 189-233 | 1 |
| 1928 | Layer-by-Layer Assembled Transparent Conductive Graphene Films for Silicon Thin-Film Solar Cells. 2012 , 51, 11PF01 | 4 |
| 1927 | Conductivity of Graphene-Like Thin Films Prepared from Chemically Exfoliated Carbon Nanotubes (CNTs), Highly Oriented Pyrolytic Graphite (HOPG), Natural Flake Graphite, and Carbon Powder. 2012 , 1451, 125-130 | 0 |
| 1926 | Periodic microstructures fabricated by multiplex interfering femtosecond laser beams on graphene sheet. 2012 , 8, 221 | 1 |
| 1925 | - Epoxy Nanocomposites: Graphene a Promising Filler. 2012 , 338-375 | |
| 1924 | Site-selective Deposition of Graphene Oxide Layer on Patterned Self-assembled Monolayer. 2012 , 41, 290-291 | 3 |
| 1923 | Different Characterization Techniques to Evaluate Graphene and Its Properties. 2012 , 118-161 | |
| 1922 | Highly transparent and conducting ultralarge graphene oxide/single-walled carbon nanotube hybrid films produced by Langmuir-Blodgett assembly. 2012 , 22, 25072 | 127 |
| 1921 | Interfacial rheology and structure of tiled graphene oxide sheets. 2012 , 28, 7990-8000 | 86 |
| 1920 | Perspectives of applied graphene: Polymer solar cells. 2012 , 37, 1805-1828 | 127 |
| 1919 | The application of graphene based materials for actuators. 2012 , 22, 3671 | 120 |

| | | |
|------|--|----------|
| 1918 | Green synthesis of biphasic TiO ₂ -reduced graphene oxide nanocomposites with highly enhanced photocatalytic activity. 2012 , 4, 3893-901 | 457 |
| 1917 | Electrochemical reduction of graphene oxide films: Preparation, characterization and their electrochemical properties. 2012 , 57, 3045-3050 | 77 |
| 1916 | Synthesis and structural, spectroscopic and nonlinear optical measurements of graphene oxide and its composites with metal and metal free porphyrins. 2012 , 22, 3059 | 141 |
| 1915 | Solution-Processed Graphite Membrane from Reassembled Graphene Oxide. 2012 , 24, 594-599 | 77 |
| 1914 | Design of Nanostructured Hybrid Materials Based on Carbon and Metal Oxides for Li Ion Batteries. 2012 , 116, 26685-26693 | 73 |
| 1913 | Design of graphene-based TiO ₂ photocatalysts--a review. 2012 , 19, 3676-87 | 240 |
| 1912 | Ultraviolet-visible spectroscopy of graphene oxides. 2012 , 2, 032146 | 196 |
| 1911 | Graphene oxide as a substrate for Raman enhancement. 2012 , 109, 81-85 | 11 |
| 1910 | Amino-grafted graphene as a stable and metal-free solid basic catalyst. 2012 , 22, 7456 | 78 |
| 1909 | Review of Electrochemical Capacitors Based on Carbon Nanotubes and Graphene. 2012 , 01, 1-13 | 88 |
| 1908 | Bottom-up synthesis of large-scale graphene oxide nanosheets. 2012 , 22, 5676 | 193 |
| 1907 | Fabrication of unipolar graphene field-effect transistors by modifying source and drain electrode interfaces with zinc porphyrin. 2012 , 4, 1434-9 | 10 |
| 1906 | One-step synthesis of CdS@TiO ₂ @chemically reduced graphene oxide composites via microwave-assisted reaction for visible-light photocatalytic degradation of methyl orange. 2012 , 2, 754 | 69 |
| 1905 | Fabrication of highly-aligned, conductive, and strong graphene papers using ultralarge graphene oxide sheets. <i>ACS Nano</i> , 2012 , 6, 10708-19 | 16.7 282 |
| 1904 | Electrical annealing and temperature dependent transversal conduction in multilayer reduced graphene oxide films for solid-state molecular devices. 2012 , 14, 14277-81 | 15 |
| 1903 | Synthesis of graphene-based nanomaterials and their application in energy-related and environmental-related areas. 2012 , 2, 9286 | 203 |
| 1902 | Layer-by-layer graphene/TCNQ stacked films as conducting anodes for organic solar cells. <i>ACS Nano</i> , 2012 , 6, 5031-9 | 16.7 187 |
| 1901 | Real-time DNA detection using Pt nanoparticle-decorated reduced graphene oxide field-effect transistors. 2012 , 4, 293-7 | 164 |

| | | |
|------|--|-----|
| 1900 | Solution-processable graphene linked to 3,5-dinitrobenzoyl as an electron acceptor in organic bulk heterojunction photovoltaic devices. 2012 , 50, 5554-5561 | 29 |
| 1899 | Fluorescence quenching of cationic organic dye by graphene: interaction and its mechanism. 2012 , 7, 608 | 25 |
| 1898 | Recent Advances in Fabrication and Characterization of Graphene-Polymer Nanocomposites. 2012 , 01, 30-49 | 172 |
| 1897 | One-step synthesis of metal nanoparticle decorated graphene by liquid phase exfoliation. 2012 , 22, 20342 | 47 |
| 1896 | Electronic structure of graphene oxide and reduced graphene oxide monolayers. 2012 , 101, 103103 | 50 |
| 1895 | Characterization and electrical properties of honeycomb-patterned poly(ϵ -caprolactone)/reduced graphene oxide composite film. 2012 , 33, 2159-2168 | 12 |
| 1894 | KCl-assisted, chemically reduced graphene oxide for high-performance supercapacitor electrodes. 2012 , 16, 3635-3641 | 7 |
| 1893 | Decoration of ultrafine platinum-ruthenium particles on functionalized graphene sheets in supercritical fluid and their electrocatalytic property. 2012 , 14, 1 | 17 |
| 1892 | Grafting of graphene oxide with stimuli-responsive polymers by using ATRP for drug release. 2012 , 14, 1 | 36 |
| 1891 | Covalent functionalization of graphene oxide by 9-(4-aminophenyl)acridine and its derivatives. 2012 , 23, 1411-1414 | 11 |
| 1890 | Novel graphene/polyaniline nanocomposites and its photocatalytic activity toward the degradation of rose Bengal dye. 2012 , 210, 220-228 | 137 |
| 1889 | Supercritical fluid conversion of graphene oxides. 2012 , 61, 206-211 | 38 |
| 1888 | Chemically-modified graphene sheets as an active layer for eco-friendly metal electroplating on plastic substrates. 2012 , 521, 270-274 | 10 |
| 1887 | Synthesis of graphene and its application as wide-band saturable absorbers. 2012 , | 1 |
| 1886 | Graphene Based Transparent Conductive Electrode. 2012 , 468-471, 1823-1826 | 0 |
| 1885 | Graphene oxide/titania hybrid films with dual-UV-responsive surfaces of tunable wettability. 2012 , 2, 10829 | 14 |
| 1884 | Strong reduced graphene oxide-polymer composites: hydrogels and wires. 2012 , 2, 6988 | 87 |
| 1883 | Arrays of vertically aligned tubular-structured graphene for flexible field emitters. 2012 , 22, 11277 | 17 |

| | | |
|------|---|----------|
| 1882 | Reduced graphene oxides by microwave-assisted ionothermal treatment. 2012 , 36, 1684 | 13 |
| 1881 | Spontaneous reduction and dispersion of graphene nano-platelets with in situ synthesized hydrazine assisted by hexamethyldisilazane. 2012 , 22, 20477 | 8 |
| 1880 | A nanohybrid of graphene oxide/fluorescein derived silyl ether for photocurrent generation triggered by F ⁺ ions. 2012 , 2, 4623 | 6 |
| 1879 | Wormlike micelle assisted rod coating: a general method for facile fabrication of large-area conductive nanomaterial thin layer onto flexible plastics. 2012 , 4, 2891-6 | 14 |
| 1878 | Tunable synthesis of carbon nanosheet/silicon nanowire hybrids for field emission applications. 2012 , 26, 83-88 | 10 |
| 1877 | The Prospective Two-Dimensional Graphene Nanosheets: Preparation, Functionalization and Applications. 2012 , 4, 1-9 | 113 |
| 1876 | Microlitre scale solution processing for controlled, rapid fabrication of chemically derived graphene thin films. 2012 , 22, 3606 | 46 |
| 1875 | Tunable band gaps and p-type transport properties of boron-doped graphenes by controllable ion doping using reactive microwave plasma. <i>ACS Nano</i> , 2012 , 6, 1970-8 | 16.7 206 |
| 1874 | Nanocomposites of reduced graphene oxide nanosheets and conducting polymer for stretchable transparent conducting electrodes. 2012 , 22, 23759 | 79 |
| 1873 | Ecological approach to graphene oxide reinforced poly (methyl methacrylate) nanocomposites. 2012 , 4, 3596-601 | 67 |
| 1872 | Competitive Growth and Etching of Epitaxial Graphene. 2012 , 116, 26929-26931 | 18 |
| 1871 | Highly conductive PEDOT:PSS films prepared through a treatment with geminal diols or amphiphilic fluoro compounds. 2012 , 13, 1785-1792 | 44 |
| 1870 | Graphene for energy harvesting/storage devices and printed electronics. 2012 , 10, 1-8 | 98 |
| 1869 | Facile synthesis and morphology control of graphene oxide/polyaniline nanocomposites via in-situ polymerization process. 2012 , 53, 2574-2582 | 80 |
| 1868 | Enhanced dispersion of carbon nanotube in silicone rubber assisted by graphene. 2012 , 53, 3378-3385 | 122 |
| 1867 | Preparation and characterization of chitosan/graphene oxide composites for the adsorption of Au(III) and Pd(II). 2012 , 93, 350-7 | 290 |
| 1866 | Graphene oxide: preparation, functionalization, and electrochemical applications. 2012 , 112, 6027-53 | 2515 |
| 1865 | Preparation of transparent, conductive films by graphene nanosheet deposition on hydrophilic or hydrophobic surfaces through control of the pH value. 2012 , 22, 2545-2552 | 37 |

| | | | |
|------|---|------|-----|
| 1864 | Graphene-based materials for catalysis. 2012 , 2, 54-75 | | 791 |
| 1863 | Chemically homogeneous and thermally reversible oxidation of epitaxial graphene. 2012 , 4, 305-9 | | 260 |
| 1862 | Edge-carboxylated graphene nanosheets via ball milling. 2012 , 109, 5588-93 | | 496 |
| 1861 | Production of graphite chloride and bromide using microwave sparks. 2012 , 2, 662 | | 110 |
| 1860 | Oxidation resistance of iron and copper foils coated with reduced graphene oxide multilayers. <i>ACS Nano</i> , 2012 , 6, 7763-9 | 16.7 | 146 |
| 1859 | Low-temperature aluminum reduction of graphene oxide, electrical properties, surface wettability, and energy storage applications. <i>ACS Nano</i> , 2012 , 6, 9068-78 | 16.7 | 81 |
| 1858 | Electromechanical actuator with controllable motion, fast response rate, and high-frequency resonance based on graphene and polydiacetylene. <i>ACS Nano</i> , 2012 , 6, 4508-19 | 16.7 | 125 |
| 1857 | Methanol electrocatalytic oxidation on highly dispersed platinum/ruthenium/graphene catalysts prepared in supercritical carbon dioxide/methanol solution. 2012 , 2, 9651 | | 33 |
| 1856 | Influence of different buffer gases on synthesis of few-layered graphene by arc discharge method. 2012 , 258, 4523-4531 | | 111 |
| 1855 | Preparation of Ni-reduced graphene oxide nanocomposites by Pd-activated electroless deposition and their magnetic properties. 2012 , 258, 8603-8608 | | 34 |
| 1854 | Controllable synthesis of functional nanocomposites: Covalently functionalize graphene sheets with biocompatible L-lysine. 2012 , 258, 8623-8628 | | 26 |
| 1853 | Fabrication of oxide-free graphene suspension and transparent thin films using amide solvent and thermal treatment. 2012 , 258, 8837-8844 | | 24 |
| 1852 | Optoelectronic properties of graphene oxide thin film processed by cost-effective route. 2012 , 259, 460-464 | | 19 |
| 1851 | Fabrication of magnetic Ni nanoparticles functionalized water-soluble graphene sheets nanocomposites as sorbent for aromatic compounds removal. 2012 , 229-230, 42-7 | | 40 |
| 1850 | Mn ₂ O ₃ decorated graphene nanosheet: An advanced material for the photocatalytic degradation of organic dyes. 2012 , 177, 855-861 | | 48 |
| 1849 | One-pot photochemical synthesis of ultrathin Au nanocrystals on co-reduced graphene oxide and its application. 2012 , 383, 140-7 | | 24 |
| 1848 | A facile route to fabricate stable reduced graphene oxide dispersions in various media and their transparent conductive thin films. 2012 , 383, 36-42 | | 53 |
| 1847 | Graphene: an emerging electronic material. 2012 , 24, 5782-825 | | 603 |

| | | |
|------|--|---------|
| 1846 | Graphene-based electrodes. 2012 , 24, 5979-6004 | 756 |
| 1845 | New routes to graphene, graphene oxide and their related applications. 2012 , 24, 4924-55 | 282 |
| 1844 | Centimeter-sized dried foam films of graphene: preparation, mechanical and electronic properties. 2012 , 24, 6229-33 | 35 |
| 1843 | Covalent modification of reduced graphene oxide by means of diazonium chemistry and use as a drug-delivery system. 2012 , 18, 14708-16 | 64 |
| 1842 | Low-temperature solid-state microwave reduction of graphene oxide for transparent electrically conductive coatings on flexible polydimethylsiloxane (PDMS). 2012 , 13, 3700-6 | 17 |
| 1841 | Functionalization of reduced graphite oxide sheets with a zwitterionic surfactant. 2012 , 13, 3682-90 | 32 |
| 1840 | Synthesis and applications of graphene-based TiO(2) photocatalysts. 2012 , 5, 1868-82 | 200 |
| 1839 | High-throughput arrays for rapid characterization of solution-processable transparent conducting electrodes. 2012 , 8, 3746-51 | 7 |
| 1838 | Graphene nanostructures toward clean energy technology applications. 2012 , 1, 317-336 | 29 |
| 1837 | Influence of graphene oxide on metal-insulator-semiconductor tunneling diodes. 2012 , 7, 343 | 25 |
| 1836 | The effect of ambient humidity on the electrical properties of graphene oxide films. 2012 , 7, 363 | 135 |
| 1835 | UV-assisted photocatalytic synthesis of TiO2-reduced graphene oxide with enhanced photocatalytic activity in decomposition of sarin in gas phase. 2012 , 50, 147-156 | 54 |
| 1834 | Transparent, Conductive, and Flexible Multiwalled Carbon Nanotube/Graphene Hybrid Electrodes with Two Three-Dimensional Microstructures. 2012 , 116, 4970-4978 | 97 |
| 1833 | Solution-processed graphene materials and composites. 2012 , 37, 1167-1175 | 16 |
| 1832 | Multiple-bilayered RGOβporphyrin films: from preparation to application in photoelectrochemical cells. 2012 , 22, 18879 | 40 |
| 1831 | In situ intercalation replacement and selective functionalization of graphene nanoribbon stacks. <i>ACS Nano</i> , 2012 , 6, 4231-40 | 16.7 94 |
| 1830 | Graphene and Its Synthesis. 2012 , 415-438 | 5 |
| 1829 | Hydrogenated Graphene as Metal-free Catalyst for Fenton-like Reaction. 2012 , 25, 335-338 | 19 |

| | | | |
|------|--|------|-----|
| 1828 | Gum arabic assisted exfoliation and fabrication of Ag/graphene-based hybrids. 2012 , 22, 13764 | | 61 |
| 1827 | Review on the latest design of graphene-based inorganic materials. 2012 , 4, 6205-18 | | 81 |
| 1826 | Synthesis and properties of graphene oxide/graphene nanostructures. 2012 , 60, 1789-1793 | | 15 |
| 1825 | Evaluation of solution-processable carbon-based electrodes for all-carbon solar cells. <i>ACS Nano</i> , 2012 , 6, 10384-95 | 16.7 | 142 |
| 1824 | The dependence of the optoelectrical properties of silver nanowire networks on nanowire length and diameter. 2012 , 23, 185201 | | 107 |
| 1823 | Effect of 1- Pyrene Carboxylic-Acid Functionalization of Graphene on Its Capacitive Energy Storage. 2012 , 116, 20688-20693 | | 73 |
| 1822 | Covalently linked, water-dispersible, cyclodextrin: reduced-graphene oxide sheets. 2012 , 28, 12432-7 | | 82 |
| 1821 | Screen printed, transparent, and flexible electrodes based on graphene nanoplatelet pastes. 2012 , | | 3 |
| 1820 | Synthetic core-shell Ni@Pd nanoparticles supported on graphene and used as an advanced nanoelectrocatalyst for methanol oxidation. 2012 , 36, 2533 | | 66 |
| 1819 | Adsorption and Dissociation of Ammonia on Graphene Oxides: A First-Principles Study. 2012 , 116, 8778-8791 | | 114 |
| 1818 | Production and processing of graphene and 2d crystals. 2012 , 15, 564-589 | | 745 |
| 1817 | Chemoselective photodeoxidation of graphene oxide using sterically hindered amines as catalyst: synthesis and applications. <i>ACS Nano</i> , 2012 , 6, 3027-33 | 16.7 | 73 |
| 1816 | Non-covalently modified graphene sheets by imidazolium ionic liquids for multifunctional polymer nanocomposites. 2012 , 22, 5666 | | 135 |
| 1815 | Pd nanoparticles supported on low-defect graphene sheets: for use as high-performance electrocatalysts for formic acid and methanol oxidation. 2012 , 22, 22533 | | 149 |
| 1814 | Langmuir-Blodgett assembly of ultra-large graphene oxide films for transparent electrodes. 2012 , 22, 2504-2511 | | 24 |
| 1813 | Interfacial polymerized polyaniline/graphite oxide nanocomposites toward electrochemical energy storage. 2012 , 53, 5953-5964 | | 148 |
| 1812 | Deposition and remobilization of graphene oxide within saturated sand packs. 2012 , 235-236, 194-200 | | 116 |
| 1811 | Silver/graphene nanocomposite: Thermal decomposition preparation and its catalytic performance. 2012 , 135, 780-785 | | 28 |

| | | | |
|------|---|------|-----|
| 1810 | An improved synthesis route to graphene for molecular sensor applications. 2012 , 136, 304-308 | | 26 |
| 1809 | Preparation of reduced graphene oxide/gelatin composite films with reinforced mechanical strength. 2012 , 47, 2245-2251 | | 38 |
| 1808 | Graphene-based multilayers: Critical evaluation of materials assembly techniques. 2012 , 7, 430-447 | | 112 |
| 1807 | Workfunction-tunable, N-doped reduced graphene transparent electrodes for high-performance polymer light-emitting diodes. <i>ACS Nano</i> , 2012 , 6, 159-67 | 16.7 | 275 |
| 1806 | Highly conductive poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) films treated with an amphiphilic fluoro compound as the transparent electrode of polymer solar cells. 2012 , 5, 5325-5332 | | 209 |
| 1805 | Graphene oxide reduced and modified by soft nanoparticles and its catalysis of the Knoevenagel condensation. 2012 , 22, 4772 | | 115 |
| 1804 | Optically transparent cathode for Co(III/II) mediated dye-sensitized solar cells based on graphene oxide. 2012 , 4, 6999-7006 | | 105 |
| 1803 | Efficiency enhancement of graphene/silicon-pillar-array solar cells by HNO ₃ and PEDOT-PSS. 2012 , 4, 2130-3 | | 69 |
| 1802 | Highly tunable charge transport in layer-by-layer assembled graphene transistors. <i>ACS Nano</i> , 2012 , 6, 2432-40 | 16.7 | 77 |
| 1801 | Electrophoretic deposition of high quality transparent conductive graphene films on insulating glass substrates. 2012 , 352, 012003 | | 11 |
| 1800 | The deposition of iron and silver nanoparticles in graphene-polyelectrolyte brushes. 2012 , 23, 085704 | | 29 |
| 1799 | A mussel-inspired polydopamine coating as a versatile platform for the in situ synthesis of graphene-based nanocomposites. 2012 , 4, 5864-7 | | 246 |
| 1798 | Photochemical Engineering of Graphene Oxide Nanosheets. 2012 , 116, 19822-19827 | | 104 |
| 1797 | Temperature-dependent electrical property transition of graphene oxide paper. 2012 , 23, 455705 | | 86 |
| 1796 | Significant different conductivities of the two grades of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate), Clevios P and Clevios PH1000, arising from different molecular weights. 2012 , 4, 4131-40 | | 118 |
| 1795 | Analysis of flavonoids by graphene-based surface-assisted laser desorption/ionization time-of-flight mass spectrometry. 2012 , 137, 5809-16 | | 39 |
| 1794 | A hybrid reduction procedure for preparing flexible transparent graphene films with improved electrical properties. 2012 , 22, 18306 | | 14 |
| 1793 | Layer-by-layer self-assembled graphene oxide/silica microsphere composites as stationary phase for high performance liquid chromatography. 2012 , 137, 5237-44 | | 32 |

| | | |
|------|--|---------|
| 1792 | SOLUTION PROCESSED GRAPHENE THIN FILMS AND THEIR APPLICATIONS IN ORGANIC SOLAR CELLS. 2012 , 26, 1242004 | 7 |
| 1791 | A flexible UV nanosensor based on reduced graphene oxide decorated ZnO nanostructures. 2012 , 4, 2678-84 | 105 |
| 1790 | Nanoscale frictional characteristics of graphene nanoribbons. 2012 , 101, 123104 | 13 |
| 1789 | Clean nanotube unzipping by abrupt thermal expansion of molecular nitrogen: graphene nanoribbons with atomically smooth edges. <i>ACS Nano</i> , 2012 , 6, 2261-72 | 16.7 48 |
| 1788 | Direct writing of electronic devices on graphene oxide by catalytic scanning probe lithography. 2012 , 3, 1194 | 76 |
| 1787 | Supercritical Carbon-Dioxide-Assisted Deposition of Pt Nanoparticles on Graphene Sheets and Their Application as an Electrocatalyst for Direct Methanol Fuel Cells. 2012 , 116, 21374-21381 | 57 |
| 1786 | Microwave- and nitronium ion-enabled rapid and direct production of highly conductive low-oxygen graphene. 2012 , 134, 5850-6 | 105 |
| 1785 | Unique synthesis of graphene-based materials for clean energy and biological sensing applications. 2012 , 57, 3000-3009 | 18 |
| 1784 | Reduced graphene oxide produced by rapid-heating reduction and its use in carbon-based field-effect transistors. 2012 , 112, 033701 | 4 |
| 1783 | Crumpled nanopaper from graphene oxide. 2012 , 12, 486-9 | 144 |
| 1782 | Enhanced photocatalytic degradation of methylene blue by ZnO/reduced graphene oxide/carbon nanotube composites synthesized via microwave-assisted reaction. 2012 , 2, 2297 | 124 |
| 1781 | Characterization and drug release behavior of highly responsive chip-like electrically modulated reduced graphene oxide/poly(vinyl alcohol) membranes. 2012 , 22, 17311 | 79 |
| 1780 | Intercalating oleylamines in graphite oxide. 2012 , 28, 2904-8 | 28 |
| 1779 | COMPUTATIONAL SIMULATIONS OF NANOSTRUCTURED SOLAR CELLS. 2012 , 02, 1230007 | 3 |
| 1778 | Inkjet printing of conductive materials: a review. 2012 , 38, 193-213 | 294 |
| 1777 | Electromagnetic properties of Fe ₃ O ₄ -functionalized graphene and its composites with a conducting polymer. 2012 , 50, 927-935 | 64 |
| 1776 | Chemical approaches toward graphene-based nanomaterials and their applications in energy-related areas. 2012 , 8, 630-46 | 335 |
| 1775 | Transparent and conducting graphene-RNA-based nanocomposites. 2012 , 8, 699-706 | 22 |

| | | |
|------|--|----------|
| 1774 | A novel and highly efficient photocatalyst based on P25-graphdiyne nanocomposite. 2012 , 8, 265-71 | 248 |
| 1773 | Highly wrinkled cross-linked graphene oxide membranes for biological and charge-storage applications. 2012 , 8, 423-31 | 93 |
| 1772 | Flexible field emission from thermally welded chemically doped graphene thin films. 2012 , 8, 272-80 | 28 |
| 1771 | Exfoliation and reassembly of cobalt oxide nanosheets into a reversible lithium-ion battery cathode. 2012 , 8, 1110-6 | 31 |
| 1770 | Carbon nanomaterials for advanced energy conversion and storage. 2012 , 8, 1130-66 | 1149 |
| 1769 | High-efficiency and room-temperature reduction of graphene oxide: a facile green approach towards flexible graphene films. 2012 , 8, 1180-4, 1124 | 35 |
| 1768 | Extraordinary physical properties of functionalized graphene. 2012 , 8, 2138-51 | 153 |
| 1767 | Tunable biomolecular interaction and fluorescence quenching ability of graphene oxide: application to "turn-on" DNA sensing in biological media. 2012 , 8, 2469-76 | 54 |
| 1766 | Graphene-based composites. 2012 , 41, 666-86 | 3116 |
| 1765 | Assembly and benign step-by-step post-treatment of oppositely charged reduced graphene oxides for transparent conductive thin films with multiple applications. 2012 , 4, 3558-66 | 44 |
| 1764 | Radiation induced reduction: an effective and clean route to synthesize functionalized graphene. 2012 , 22, 7775 | 149 |
| 1763 | Facile photoreduction of graphene oxide by an NAD(P)H model: Hantzsch 1,4-dihydropyridine. 2012 , 28, 8224-9 | 29 |
| 1762 | Poly(vinyl alcohol) nanocomposites filled with poly(vinyl alcohol)-grafted graphene oxide. 2012 , 4, 2387-94 | 213 |
| 1761 | Successful stabilization of graphene oxide in electrolyte solutions: enhancement of biofunctionalization and cellular uptake. <i>ACS Nano</i> , 2012 , 6, 63-73 | 16.7 203 |
| 1760 | Chemical Approaches to Produce Graphene Oxide and Related Materials. 2012 , 205-234 | 5 |
| 1759 | A silica sol-gel design strategy for nanostructured metallic materials. 2012 , 11, 460-7 | 95 |
| 1758 | Carbon-based nanostructured materials and their composites as supercapacitor electrodes. 2012 , 22, 767-784 | 579 |
| 1757 | Graphene-based transparent flexible electrodes for polymer solar cells. 2012 , 22, 24254 | 90 |

| | | | |
|------|---|------|------|
| 1756 | Significant enhancement of blue emission and electrical conductivity of N-doped graphene. 2012 , 22, 17992 | | 159 |
| 1755 | Highly conductive graphene by low-temperature thermal reduction and in situ preparation of conductive polymer nanocomposites. 2012 , 4, 4968-71 | | 58 |
| 1754 | Chemically modified graphene oxides as a hole transport layer in organic solar cells. 2012 , 48, 8078-80 | | 99 |
| 1753 | Visibly transparent polymer solar cells produced by solution processing. <i>ACS Nano</i> , 2012 , 6, 7185-90 | 16.7 | 434 |
| 1752 | The preparation of functionalized graphene oxide for targeted intracellular delivery of siRNA. 2012 , 22, 6649 | | 87 |
| 1751 | The application of graphene as electrodes in electrical and optical devices. 2012 , 23, 112001 | | 265 |
| 1750 | A novel solid-state thermal rectifier based on reduced graphene oxide. 2012 , 2, 523 | | 137 |
| 1749 | Difference in formation of carbon cluster cations by laser ablation of graphene and graphene oxide. 2012 , 47, 523-8 | | 27 |
| 1748 | Functionalization of Graphene Oxide by Two-Step Alkylation. 2012 , 213, 1101-1106 | | 17 |
| 1747 | The Fabrication, Properties, and Uses of Graphene/Polymer Composites. 2012 , 213, 1060-1077 | | 454 |
| 1746 | Behavior of polyaniline-dodecylbenzene sulfonic acid/reduced graphene oxide nanocomposite films. 2012 , 33, 388-396 | | 20 |
| 1745 | Atomic Oxygen on Graphite: Chemical Characterization and Thermal Reduction. 2012 , 116, 9900-9908 | | 113 |
| 1744 | An overview of the applications of graphene-based materials in supercapacitors. 2012 , 8, 1805-34 | | 1082 |
| 1743 | Nanostructured hybrid transparent conductive films with antibacterial properties. <i>ACS Nano</i> , 2012 , 6, 5157-63 | 16.7 | 120 |
| 1742 | Greener Electrochemical Synthesis of High Quality Graphene Nanosheets Directly from Pencil and its SPR Sensing Application. 2012 , 22, 2352-2362 | | 116 |
| 1741 | Highly Conductive Few-Layer Graphene/Al ₂ O ₃ Nanocomposites with Tunable Charge Carrier Type. 2012 , 22, 3882-3889 | | 122 |
| 1740 | Synthesis and characterization of amphiphilic reduced graphene oxide with epoxidized methyl oleate. 2012 , 24, 2123-9 | | 23 |
| 1739 | Solution-processed metallic conducting polymer films as transparent electrode of optoelectronic devices. 2012 , 24, 2436-40 | | 822 |

| | | |
|------|---|---------|
| 1738 | Rod-coating: towards large-area fabrication of uniform reduced graphene oxide films for flexible touch screens. 2012 , 24, 2874-8 | 244 |
| 1737 | Comparing the Fundamental Physics and Device Performance of Transparent, Conductive Nanostructured Networks with Conventional Transparent Conducting Oxides. 2012 , 2, 353-360 | 121 |
| 1736 | Highly concentrated aqueous dispersions of graphene exfoliated by sodium taurodeoxycholate: dispersion behavior and potential application as a catalyst support for the oxygen-reduction reaction. 2012 , 18, 6972-8 | 69 |
| 1735 | Designs, Synthesis, Characterization and Direct Electrochemistry of Zinc-Porphyrin Bearing Pyrene Noncovalent Functionalized Graphene Oxide Sheet. 2012 , 30, 1722-1728 | 7 |
| 1734 | Fabrication and characterization of free-standing polypyrrole/graphene oxide nanocomposite paper. 2012 , 14, 1 | 45 |
| 1733 | Metal-Free Growth of Nanographene on Silicon Oxides for Transparent Conducting Applications. 2012 , 22, 2123-2128 | 142 |
| 1732 | Efficient reduction of graphene oxide catalyzed by copper. 2012 , 14, 3083-8 | 11 |
| 1731 | Hybrid films with graphene oxide and metal nanoparticles could now replace indium tin oxide. <i>ACS Nano</i> , 2012 , 6, 4565-72 | 16.7 41 |
| 1730 | Tuning the magnetic and transport properties of metal adsorbed graphene by co-adsorption with 1,2-dichlorobenzene. 2012 , 14, 11626-32 | 20 |
| 1729 | Ultrafast reduction of graphene oxide with Zn powder in neutral and alkaline solutions at room temperature promoted by the formation of metal complexes. 2012 , 22, 9109 | 51 |
| 1728 | Focusing on energy and optoelectronic applications: a journey for graphene and graphene oxide at large scale. 2012 , 45, 598-607 | 280 |
| 1727 | Trigol based reduction of graphite oxide to graphene with enhanced charge storage activity. 2012 , 22, 11140 | 30 |
| 1726 | Restructuring of Graphene Oxide Sheets into Monodisperse Nanospheres. 2012 , 24, 2554-2557 | 28 |
| 1725 | Terahertz Properties of Graphene. 2012 , 33, 797-815 | 59 |
| 1724 | A simple and controllable nanostructure comprising non-conductive poly(vinylidene fluoride) and graphene nanosheets for supercapacitor. 2012 , 6, 149-159 | 4 |
| 1723 | Vapour-phase graphene epitaxy at low temperatures. 2012 , 5, 258-264 | 30 |
| 1722 | One-step metal electroplating and patterning on a plastic substrate using an electrically-conductive layer of few-layer graphene. 2012 , 50, 612-621 | 20 |
| 1721 | Flexible conductive graphene paper obtained by direct and gentle annealing of graphene oxide paper. 2012 , 50, 835-844 | 182 |

| | | |
|------|---|------|
| 1720 | Improved electrical conductivity of a non-covalently dispersed graphene-carbon nanotube film by chemical p-type doping. 2012 , 50, 943-951 | 34 |
| 1719 | The reduction of graphene oxide. 2012 , 50, 3210-3228 | 3551 |
| 1718 | Stability of multi-walled carbon nanotubes in commonly used acidic media. 2012 , 50, 1465-1476 | 45 |
| 1717 | Amorphous structural models for graphene oxides. 2012 , 50, 1690-1698 | 93 |
| 1716 | Escherichia coli bacteria reduce graphene oxide to bactericidal graphene in a self-limiting manner. 2012 , 50, 1853-1860 | 412 |
| 1715 | Graphene layers produced from carbon nanotubes by friction. 2012 , 50, 1934-1941 | 13 |
| 1714 | Correlation between carbon-oxygen atomic ratio and field emission performance of few-layer reduced graphite oxide. 2012 , 50, 2657-2665 | 14 |
| 1713 | Increasing the antioxidant activity of green tea polyphenols in the presence of iron for the reduction of graphene oxide. 2012 , 50, 3015-3025 | 194 |
| 1712 | A simple route towards high-concentration surfactant-free graphene dispersions. 2012 , 50, 3113-3116 | 42 |
| 1711 | Self-assembly of silver-graphene hybrid on electrospun polyurethane nanofibers as flexible transparent conductive thin films. 2012 , 50, 3473-3481 | 45 |
| 1710 | A nonvolatile memory device made of a graphene nanoribbon and a multiferroic BiFeO ₃ gate dielectric layer. 2012 , 50, 3854-3858 | 40 |
| 1709 | Structural, magnetic, and textural properties of iron oxide-reduced graphene oxide hybrids and their use for the electrochemical detection of chromium. 2012 , 50, 4209-4219 | 136 |
| 1708 | Increased chemical enhancement of Raman spectra for molecules adsorbed on fluorinated reduced graphene oxide. 2012 , 50, 4512-4517 | 41 |
| 1707 | A mechanically strong, flexible and conductive film based on bacterial cellulose/graphene nanocomposite. 2012 , 87, 644-649 | 244 |
| 1706 | UV-assisted photocatalytic synthesis of ZnO-reduced graphene oxide composites with enhanced photocatalytic activity in reduction of Cr(VI). 2012 , 183, 238-243 | 343 |
| 1705 | Fabrication of magnetically separable palladium-graphene nanocomposite with unique catalytic property of hydrogenation. 2012 , 519-520, 59-63 | 36 |
| 1704 | Lateral size selection of surfactant-stabilised graphene flakes using size exclusion chromatography. 2012 , 531, 169-172 | 19 |
| 1703 | The production of polyaniline/graphene hybrids for use as a counter electrode in dye-sensitized solar cells. 2012 , 66, 151-157 | 140 |

| | | |
|------|---|-----|
| 1702 | Self assembled graphene/carbon nanotube/polystyrene hybrid nanocomposite by in situ microemulsion polymerization. 2012 , 48, 252-259 | 110 |
| 1701 | Directed nanoparticle reduction on graphene. 2012 , 15, 118-125 | 29 |
| 1700 | Supercapacitor electrode based on three-dimensional graphene-polyaniline hybrid. 2012 , 134, 576-580 | 116 |
| 1699 | Graphene sheets/Ag ₂ S nanocomposites: Synthesis and their application in supercapacitor materials. 2012 , 68, 416-418 | 42 |
| 1698 | Simple and eco-friendly solvothermal synthesis of luminescent reduced graphene oxide small sheets. 2012 , 78, 170-173 | 13 |
| 1697 | Spectroscopic and electrochemical characteristics of a carboxylated graphene-ZnO composites. 2012 , 199, 379-385 | 67 |
| 1696 | Graphene anchored with nickel nanoparticles as a high-performance anode material for lithium ion batteries. 2012 , 209, 1-6 | 111 |
| 1695 | A simple solvothermal route to synthesize graphene-modified LiFePO ₄ cathode for high power lithium ion batteries. 2012 , 210, 47-53 | 98 |
| 1694 | Influence of pH condition on colloidal suspension of exfoliated graphene oxide by electrostatic repulsion. 2012 , 186, 99-103 | 8 |
| 1693 | Photodecomposition effects of graphene oxide coated on TiO ₂ thin film prepared by electron-beam evaporation method. 2012 , 520, 5417-5420 | 15 |
| 1692 | Spectroscopic studies of large sheets of graphene oxide and reduced graphene oxide monolayers prepared by Langmuir-Blodgett technique. 2012 , 520, 5991-5996 | 63 |
| 1691 | Polyaniline-intercalated graphene oxide sheet and its transition to a nanotube through a self-curling process. 2012 , 53, 1079-1085 | 39 |
| 1690 | Graphene-DNA hybrid materials: Assembly, applications, and prospects. 2012 , 37, 515-529 | 123 |
| 1689 | Photoreduction of graphite oxide nanosheets with vacuum ultraviolet radiation. 2012 , 46, 117-121 | 21 |
| 1688 | Highly Conductive and Transparent PEDOT:PSS Films with a Fluorosurfactant for Stretchable and Flexible Transparent Electrodes. 2012 , 22, 421-428 | 889 |
| 1687 | Inkjet printing high-resolution, large-area graphene patterns by coffee-ring lithography. 2012 , 24, 436-40 | 138 |
| 1686 | Solution-processed ultrathin chemically derived graphene films as soft top contacts for solid-state molecular electronic junctions. 2012 , 24, 1333-9 | 75 |
| 1685 | Annealing effect on the optoelectronic properties of graphene oxide thin films. 2013 , 3, 477-483 | 14 |

| | | |
|------|---|-----|
| 1684 | Effect of hydroiodic acid-reduction of graphene oxide on electrical properties of polybenzimidazobenzophenanthroline/graphene oxide nanocomposites. 2013 , 21, 1254-1262 | 4 |
| 1683 | Transparent metal electrodes from ordered nanosphere arrays. 2013 , 114, 054502 | 34 |
| 1682 | Self-assembly to monolayer graphene film with high electrical conductivity. 2013 , 22, 52-57 | 13 |
| 1681 | Graphene oxide: efficiency of reducing agents. 2013 , 49, 7391-3 | 105 |
| 1680 | Pd-doped reduced graphene oxide sensing films for H ₂ detection. 2013 , 183, 478-487 | 84 |
| 1679 | Silicon nanowires for Li-based battery anodes: a review. 2013 , 1, 9566 | 262 |
| 1678 | Biodegradable amylose films reinforced by graphene oxide and polyvinyl alcohol. 2013 , 142, 1-11 | 23 |
| 1677 | Solution-processable graphene oxide as an insulator layer for metal/insulator/semiconductor silicon solar cells. 2013 , 3, 17918 | 12 |
| 1676 | Effects of covalent surface modifications on the electrical and electrochemical properties of graphene using sodium 4-aminoazobenzene-4'-sulfonate. 2013 , 54, 310-322 | 54 |
| 1675 | Enhancement of thermal and mechanical properties of flexible graphene oxide/carbon nanotube hybrid films through direct covalent bonding. 2013 , 48, 7011-7021 | 13 |
| 1674 | Spray coated high-conductivity PEDOT:PSS transparent electrodes for stretchable and mechanically-robust organic solar cells. 2013 , 110, 98-106 | 146 |
| 1673 | Reduced Graphene Oxide: Control of Water Miscibility, Conductivity, and Defects by Photocatalysis. 2013 , 5, 3060-3067 | 21 |
| 1672 | Applications of Nanomaterials in Sensors and Diagnostics. 2013 , | 24 |
| 1671 | Synthesis of graphene on Co/SiC structure. 2013 , 24, 3793-3799 | 14 |
| 1670 | Graphene synthesis by thermal chemical vapor deposition using solid precursor. 2013 , 24, 2151-2155 | 12 |
| 1669 | Structure control of ultra-large graphene oxide sheets by the Langmuir-Blodgett method. 2013 , 3, 4680 | 31 |
| 1668 | Third harmonic generation in graphene and few-layer graphite films. 2013 , 87, | 202 |
| 1667 | Influence of graphene synthesizing techniques on the photocatalytic performance of graphene-TiO ₂ nanocomposites. 2013 , 15, 15528-37 | 37 |

| | | | |
|------|---|------|-----|
| 1666 | Direct exfoliation of graphite using a non-ionic polymer surfactant for fabrication of transparent and conductive graphene films. 2013 , 1, 1870 | | 57 |
| 1665 | Balancing light absorptivity and carrier conductivity of graphene quantum dots for high-efficiency bulk heterojunction solar cells. <i>ACS Nano</i> , 2013 , 7, 7207-12 | 16.7 | 152 |
| 1664 | New Materials for Transparent Electrodes. 2013 , 139-174 | | |
| 1663 | Edge-selectively sulfurized graphene nanoplatelets as efficient metal-free electrocatalysts for oxygen reduction reaction: the electron spin effect. 2013 , 25, 6138-45 | | 465 |
| 1662 | Co3O4-reduced graphene oxide nanocomposite as an effective peroxidase mimetic and its application in visual biosensing of glucose. 2013 , 796, 92-100 | | 154 |
| 1661 | Direct production of graphene nanosheets for near infrared photoacoustic imaging. <i>ACS Nano</i> , 2013 , 7, 8147-57 | 16.7 | 85 |
| 1660 | Raman spectroscopy for the study of reduction mechanisms and optimization of conductivity in graphene oxide thin films. 2013 , 1, 6905 | | 210 |
| 1659 | Hidden Role of a Hydroxyl Group in Mediating the Oxygen Line Defect on a Graphene Surface. 2013 , 117, 17832-17838 | | 4 |
| 1658 | Soluble reduced graphene oxide sheets grafted with polypyridylruthenium-derivatized polystyrene brushes as light harvesting antenna for photovoltaic applications. <i>ACS Nano</i> , 2013 , 7, 7992-8002 | 16.7 | 35 |
| 1657 | Mosaic-like monolayer of graphene oxide sheets decorated with tetrabutylammonium ions. <i>ACS Nano</i> , 2013 , 7, 8082-8 | 16.7 | 27 |
| 1656 | Visible light photocatalytic degradation of dyes by bismuth oxide-reduced graphene oxide composites prepared via microwave-assisted method. 2013 , 408, 145-50 | | 81 |
| 1655 | Preparation of highly stacked graphene papers via site-selective functionalization of graphene oxide. 2013 , 1, 12893 | | 43 |
| 1654 | Reduction of graphene oxide films on Al foil for hybrid transparent conductive film applications. 2013 , 63, 454-459 | | 42 |
| 1653 | From graphite to graphene: direct liquid-phase exfoliation of graphite to produce single- and few-layered pristine graphene. 2013 , 1, 10592 | | 222 |
| 1652 | The coordination chemistry of graphene oxide: Interactions with metal ions in water. 2013 , 39, 487-492 | | 17 |
| 1651 | In situ exfoliation of graphite oxide nanosheets in polymer nanocomposites using miniemulsion polymerization. 2013 , 54, 6078-6088 | | 14 |
| 1650 | Folic acid-conjugated graphene-ZnO nanohybrid for targeting photodynamic therapy under visible light irradiation. 2013 , 1, 5003-5013 | | 82 |
| 1649 | Metal free sensitizer and catalyst for dye sensitized solar cells. 2013 , 6, 3439 | | 326 |

| | | |
|------|---|---------|
| 1648 | Silver nanowire/optical adhesive coatings as transparent electrodes for flexible electronics. 2013 , 5, 10165-72 | 127 |
| 1647 | Enhanced room temperature sensing of Co ₃ O ₄ -intercalated reduced graphene oxide based gas sensors. 2013 , 188, 902-908 | 160 |
| 1646 | Cytotoxicity and variant cellular internalization behavior of water-soluble sulfonated nanographene sheets in liver cancer cells. 2013 , 8, 208 | 13 |
| 1645 | FLG/high aspect ratio MWNTs hybrid film prepared by hot spray technique. 2013 , 96, 57-59 | 4 |
| 1644 | Electrical and mechanical properties of graphene oxide on flexible substrate. 2013 , 74, 1783-1793 | 34 |
| 1643 | Electrical characterization of graphene films synthesized by low-temperature microwave plasma chemical vapor deposition. 2013 , 103, 153106 | 18 |
| 1642 | Highly conductive and transparent reduced graphene oxide/aluminium doped zinc oxide nanocomposite for the next generation solar cell applications. 2013 , 36, 299-303 | 26 |
| 1641 | Preparation of flexible organic solar cells with highly conductive and transparent metal-oxide multilayer electrodes based on silver oxide. 2013 , 5, 9933-41 | 48 |
| 1640 | Leaf-like Graphene Oxide with a Carbon Nanotube Midrib and Its Application in Energy Storage Devices. 2013 , 23, n/a-n/a | 2 |
| 1639 | Shear-directed assembly of graphene oxide in aqueous dispersions into ordered arrays. 2013 , 29, 13162-7 | 15 |
| 1638 | Synthesis of 3D nitrogen-doped graphene/Fe ₃ O ₄ by a metal ion induced self-assembly process for high-performance Li-ion batteries. 2013 , 1, 14658 | 101 |
| 1637 | Large scale production of highly-qualified graphene by ultrasonic exfoliation of expanded graphite under the promotion of (NH ₄) ₂ CO ₃ decomposition. 2013 , 24, 475602 | 8 |
| 1636 | Properties and applications of chemically functionalized graphene. 2013 , 25, 423201 | 75 |
| 1635 | High-Quality Transparent Electrodes Spin-Cast from Preformed Antimony-Doped Tin Oxide Nanocrystals for Thin Film Optoelectronics. 2013 , 25, 4901-4907 | 53 |
| 1634 | Photovoltaic Performance of Flexible Graphene-Electrodes Prepared by a Simple Chemical Vapor Graphitization. 2013 , 581, 7-12 | 2 |
| 1633 | Large area films of alternating graphene-carbon nanotube layers processed in water. <i>ACS Nano</i> , 2013 , 7, 10788-98 | 16.7 73 |
| 1632 | Enhanced photovoltaic performance of semiconductor-sensitized ZnO-CdS coupled with graphene oxide as a novel photoactive material. 2013 , 5, 11673-82 | 52 |
| 1631 | Formation of graphene on SiC by chemical vapor deposition with liquid sources. 2013 , 231, 189-192 | 9 |

| | | |
|------|---|-----|
| 1630 | Iron Nanoparticles Supported on Graphene Oxide: A Robust, Magnetically Separable Heterogeneous Catalyst for the Oxidative Cyanation of Tertiary Amines. 2013 , 78, 860-865 | 34 |
| 1629 | A novel composite of SiO ₂ -coated graphene oxide and molecularly imprinted polymers for electrochemical sensing dopamine. 2013 , 45, 25-33 | 199 |
| 1628 | Synthesis and properties of near IR induced self-healable polyurethane/graphene nanocomposites. 2013 , 49, 3889-3896 | 66 |
| 1627 | Fabrication of a completely transparent and highly flexible ITO nanoparticle electrode at room temperature. 2013 , 5, 164-72 | 39 |
| 1626 | Superhydrophilic graphite surfaces and water-dispersible graphite colloids by electrochemical exfoliation. 2013 , 139, 064703 | 9 |
| 1625 | A bifunctional approach for the preparation of graphene and ionic liquid-based hybrid gels. 2013 , 1, 43-48 | 31 |
| 1624 | Application of graphene-based nanostructures in dye-sensitized solar cells. 2013 , 250, 2643-2648 | 24 |
| 1623 | Preparation of Flexible, Highly Transparent, Cross-Linked Cellulose Thin Film with High Mechanical Strength and Low Coefficient of Thermal Expansion. 2013 , 1, 1474-1479 | 49 |
| 1622 | Solid-phase electrochemical reduction of graphene oxide films in alkaline solution. 2013 , 8, 397 | 46 |
| 1621 | Improved field emission property of graphene by laser irradiation. 2013 , 284, 113-117 | 16 |
| 1620 | Towards low temperature thermal exfoliation of graphite oxide for graphene production. 2013 , 62, 11-24 | 108 |
| 1619 | Preparation and electrical conductivity of novel vanadate borate glass system containing graphene oxide. 2013 , 376, 117-125 | 23 |
| 1618 | Layer-by-layer self-assembly of ultrathin multilayer films composed of magnetite/reduced graphene oxide bilayers for supercapacitor application. 2013 , 436, 104-112 | 51 |
| 1617 | Stepwise Reduction of Immobilized Monolayer Graphene Oxides. 2013 , 25, 4839-4848 | 12 |
| 1616 | Folic acid-conjugated graphene oxide as a transporter of chemotherapeutic drug and siRNA for reversal of cancer drug resistance. 2013 , 15, 1 | 24 |
| 1615 | Enhancing electrochemical performance of LiFePO ₄ by in situ reducing flexible graphene. 2013 , 49, 955-959 | 5 |
| 1614 | Radical-assisted chemical doping for chemically derived graphene. 2013 , 8, 534 | 7 |
| 1613 | Glycidyl methacrylate-modified gum arabic mediated graphene exfoliation and its use for enhancing mechanical performance of hydrogel. 2013 , 54, 3921-3930 | 24 |

| | | |
|------|--|-----|
| 1612 | An overview of the engineered graphene nanostructures and nanocomposites. 2013 , 3, 22790 | 167 |
| 1611 | A reduced graphene oxide sound-emitting device: a new use for Joule heating. 2013 , 3, 17672 | 20 |
| 1610 | Shuttling Photoelectrochemical Electron Transport in Tricomponent CdS/rGO/TiO ₂ Nanocomposites. 2013 , 117, 20406-20414 | 53 |
| 1609 | Secondary doping methods to significantly enhance the conductivity of PEDOT:PSS for its application as transparent electrode of optoelectronic devices. 2013 , 34, 423-436 | 226 |
| 1608 | Self-organization of Zr(IV) porphyrinoids on graphene oxide surfaces by axial metal coordination. 2013 , 52, 10576-82 | 15 |
| 1607 | Photoelectrochemical Properties of Graphene and Its Derivatives. 2013 , 3, 325-356 | 88 |
| 1606 | Excellent optoelectrical properties of graphene oxide thin films deposited on a flexible substrate by Langmuir-Blodgett assembly. 2013 , 1, 6869 | 51 |
| 1605 | 25th anniversary article: a decade of organic/polymeric photovoltaic research. 2013 , 25, 6642-71 | 978 |
| 1604 | High-intensity pulse light sintering of silver nanowire transparent films on polymer substrates: the effect of the thermal properties of substrates on the performance of silver films. 2013 , 5, 11820-8 | 88 |
| 1603 | Role of direct covalent bonding in enhanced heat dissipation property of flexible graphene oxide-carbon nanotube hybrid film. 2013 , 545, 116-123 | 12 |
| 1602 | Solid phase extraction of trace amount of Cu(II) using functionalized-graphene. 2013 , 87, 1851-1858 | 4 |
| 1601 | Graphene-aramid nanofiber nanocomposite paper with high mechanical and electrical performance. 2013 , 3, 17664 | 50 |
| 1600 | BSA-rGO nanocomposite hydrogel formed by UV polymerization and in situ reduction applied as biosensor electrode. 2013 , 1, 5393-5397 | 19 |
| 1599 | Hydrogen-free PECVD growth of few-layer graphene on an ultra-thin nickel film at the threshold dissolution temperature. 2013 , 1, 3862 | 60 |
| 1598 | Property Control of Graphene by Employing Semi-Ionic Liquid Fluorination. 2013 , 23, 3329-3334 | 38 |
| 1597 | Chemoselective reduction of graphene oxide and its application in nonvolatile organic transistor memory devices. 2013 , 3, 25788 | 15 |
| 1596 | Fabricating graphene oxide/poly(3-butylthiophene) hybrid materials with different morphologies and crystal structures. 2013 , 3, 4254 | 12 |
| 1595 | Microbial oxidation of dispersed graphite by nitrifying bacteria 2011.2. 2013 , 5, 8982-5 | 10 |

| | | |
|------|--|-----|
| 1594 | Apoptosis induction and inhibition of drug resistant tumor growth in vivo involving daunorubicin-loaded graphene-gold composites. 2013 , 1, 493-499 | 10 |
| 1593 | Applications of Graphene. 2013 , 333-437 | 6 |
| 1592 | Ionic liquid-assisted exfoliation of graphite oxide for simultaneous reduction and functionalization to graphenes with improved properties. 2013 , 1, 2663 | 51 |
| 1591 | A new method for manufacturing graphene and electrochemical characteristic of graphene-supported Pt nanoparticles in methanol oxidation. 2013 , 225, 356-363 | 69 |
| 1590 | Excimer laser reduction and patterning of graphite oxide. 2013 , 53, 81-89 | 85 |
| 1589 | Use of Optical Contrast To Estimate the Degree of Reduction of Graphene Oxide. 2013 , 117, 620-625 | 40 |
| 1588 | Flexible Organic Photovoltaic Cells with In Situ Nonthermal Photoreduction of Spin-Coated Graphene Oxide Electrodes. 2013 , 23, 2742-2749 | 148 |
| 1587 | Graphene-related nanomaterials: tuning properties by functionalization. 2013 , 5, 4541-83 | 524 |
| 1586 | Influence of the electrochemical reduction process on the performance of graphene-based capacitors. 2013 , 51, 94-101 | 47 |
| 1585 | The Atomic Structure of Graphene and Its Few-layer Counterparts. 2013 , 5-59 | 1 |
| 1584 | Graphitic design: prospects of graphene-based nanocomposites for solar energy conversion, storage, and sensing. 2013 , 46, 2235-43 | 248 |
| 1583 | Rapid and non-destructive identification of graphene oxide thickness using white light contrast spectroscopy. 2013 , 52, 528-534 | 38 |
| 1582 | Carbon nanomaterials for electronics, optoelectronics, photovoltaics, and sensing. 2013 , 42, 2824-60 | 941 |
| 1581 | Recent advances in the efficient reduction of graphene oxide and its application as energy storage electrode materials. 2013 , 5, 52-71 | 392 |
| 1580 | Large-scale production of edge-selectively functionalized graphene nanoplatelets via ball milling and their use as metal-free electrocatalysts for oxygen reduction reaction. 2013 , 135, 1386-93 | 497 |
| 1579 | Recent trend in graphene for optoelectronics. 2013 , 15, 1 | 16 |
| 1578 | Highly Efficient Removal of Cu(II) from Aqueous Solution by Using Graphene Oxide. 2013 , 224, 1 | 105 |
| 1577 | Effect of pH-induced chemical modification of hydrothermally reduced graphene oxide on supercapacitor performance. 2013 , 233, 313-319 | 159 |

| | | |
|------|--|-----|
| 1576 | Inverse opal structured γ -Fe ₂ O ₃ on graphene thin films: enhanced photo-assisted water splitting. 2013 , 5, 1939-44 | 66 |
| 1575 | Synthesis of graphene-conjugated polymer nanocomposites for electronic device applications. 2013 , 5, 1440-51 | 72 |
| 1574 | Ultratough artificial nacre based on conjugated cross-linked graphene oxide. 2013 , 52, 3750-5 | 249 |
| 1573 | Electrochemically Assisted Injection in Combination with Capillary Electrophoresis-Mass Spectrometry (EAI-CE-MS) [Mechanistic and Quantitative Studies of the Reduction of 4-Nitrotoluene at Various Carbon-Based Screen-Printed Electrodes. 2013 , 25, 117-122 | 15 |
| 1572 | Graphene/polymer composites for energy applications. 2013 , 51, 231-253 | 199 |
| 1571 | A green hydrothermal approach for the preparation of graphene/ γ -MnO ₂ 3D network as anode for lithium ion battery. 2013 , 108, 465-471 | 67 |
| 1570 | Deposition and transport of graphene oxide in saturated and unsaturated porous media. 2013 , 229, 444-449 | 101 |
| 1569 | Observation of tunable superluminal propagation in the single-layer graphene oxide solution. 2013 , 295, 226-229 | 3 |
| 1568 | Ultrafast room-temperature reduction of graphene oxide to graphene with excellent dispersibility by lithium naphthalenide. 2013 , 63, 165-174 | 21 |
| 1567 | Using graphene nanosheets as a conductive additive to enhance the capacitive performance of γ -MnO ₂ . 2013 , 104, 198-207 | 32 |
| 1566 | Solution-processed PEDOT:PSS films with conductivities as indium tin oxide through a treatment with mild and weak organic acids. 2013 , 5, 13082-8 | 184 |
| 1565 | Enhanced chemical reactions of oxygen at grain boundaries in polycrystalline graphene. 2013 , 64, 158-162 | 20 |
| 1564 | Effect of fluorine plasma treatment with chemically reduced graphene oxide thin films as hole transport layer in organic solar cells. 2013 , 287, 91-96 | 27 |
| 1563 | Electrochemical approaches to the production of graphene flakes and their potential applications. 2013 , 54, 1-21 | 253 |
| 1562 | Nonlinear Optical Properties and Broadband Optical Power Limiting Action of Graphene Oxide Colloids. 2013 , 117, 6842-6850 | 139 |
| 1561 | Acetone-induced graphene oxide film formation at the water-air interface. 2013 , 8, 437-43 | 27 |
| 1560 | One-step hydrothermal synthesis, characterization and visible-light catalytic property of Ag-reduced graphene oxide composite. 2013 , 48, 1453-1457 | 20 |
| 1559 | Size distribution-controlled preparation of graphene oxide nanosheets with different C/O ratios. 2013 , 139, 8-11 | 30 |

| | | | |
|------|---|------|-----|
| 1558 | Preparation of graphene oxide coated polystyrene microspheres by Pickering emulsion polymerization. 2013 , 394, 192-8 | | 103 |
| 1557 | Graphene-hollow PPy sphere 3D-nanoarchitecture with enhanced electrochemical performance. 2013 , 5, 3052-7 | | 98 |
| 1556 | Transparent, flexible conducting graphene hybrid films with a subpercolating network of silver nanowires. 2013 , 1, 2970 | | 84 |
| 1555 | Graphene-based inkjet printing of flexible bioelectronic circuits and sensors. 2013 , | | 3 |
| 1554 | Reduced graphene oxide/copper nanowire hybrid films as high-performance transparent electrodes. <i>ACS Nano</i> , 2013 , 7, 1811-6 | 16.7 | 227 |
| 1553 | A low-temperature method to produce highly reduced graphene oxide. 2013 , 4, 1539 | | 371 |
| 1552 | Highly transparent low resistance ZnO/Ag nanowire/ZnO composite electrode for thin film solar cells. <i>ACS Nano</i> , 2013 , 7, 1081-91 | 16.7 | 370 |
| 1551 | Flexible transparent electrodes made of electrochemically exfoliated graphene sheets from low-cost graphite pieces. 2013 , 34, 315-319 | | 48 |
| 1550 | Critical parameters in exfoliating graphite into graphene. 2013 , 15, 4428-35 | | 64 |
| 1549 | Graphene and its derivatives for the development of solar cells, photoelectrochemical, and photocatalytic applications. 2013 , 6, 1362 | | 324 |
| 1548 | Highly atom-economic synthesis of graphene/MnO ₂ hybrid composites for electrochemical supercapacitors. 2013 , 5, 2999-3005 | | 115 |
| 1547 | Stability and exfoliation of germanane: a germanium graphane analogue. <i>ACS Nano</i> , 2013 , 7, 4414-21 | 16.7 | 748 |
| 1546 | Evidence of band bending and surface Fermi level pinning in graphite oxide. 2013 , 57, 227-231 | | 9 |
| 1545 | Graphene-Based Polymer Composites and Their Applications. 2013 , 52, 319-331 | | 412 |
| 1544 | Controlling the effective surface area and pore size distribution of sp ² carbon materials and their impact on the capacitance performance of these materials. 2013 , 135, 5921-9 | | 247 |
| 1543 | Improved heat dissipation in gallium nitride light-emitting diodes with embedded graphene oxide pattern. 2013 , 4, 1452 | | 140 |
| 1542 | Self-organized graphene nanosheets with corrugated, ordered tip structures for high-performance flexible field emission. 2013 , 9, 2182-8 | | 16 |
| 1541 | Graphene-based electrochemical sensors. 2013 , 9, 1160-72 | | 434 |

| | | |
|------|---|---------|
| 1540 | Functional Graphenic Materials Via a Johnson-Claissen Rearrangement. 2013 , 23, 1873-1882 | 45 |
| 1539 | Using self-assembly to prepare a graphene-silver nanowire hybrid film that is transparent and electrically conductive. 2013 , 58, 198-207 | 71 |
| 1538 | Bioinspired wafer-scale production of highly stretchable carbon films for transparent conductive electrodes. 2013 , 52, 5535-8 | 108 |
| 1537 | Electronic, Thermal, and Structural Properties of Graphene Oxide Frameworks. 2013 , 117, 8276-8281 | 22 |
| 1536 | Formation of nitrogen-doped graphene nanoribbons via chemical unzipping. <i>ACS Nano</i> , 2013 , 7, 2192-2046.7 | 61 |
| 1535 | Graphene-Based Nanomaterials: Synthesis, Properties, and Optical and Optoelectronic Applications. 2013 , 23, 1984-1997 | 212 |
| 1534 | Facile and straightforward synthesis of superparamagnetic reduced graphene oxide-Fe ₃ O ₄ hybrid composite by a solvothermal reaction. 2013 , 24, 025604 | 51 |
| 1533 | Graphene MEMS: AFM probe performance improvement. <i>ACS Nano</i> , 2013 , 7, 4164-70 | 16.7 58 |
| 1532 | Reduction of graphene oxide to highly conductive graphene by Lawesson's reagent and its electrical applications. 2013 , 1, 3104 | 127 |
| 1531 | Graphene-Based Chemical and Biosensors. 2013 , 103-141 | 9 |
| 1530 | Facile preparation and electrochemical characterization of graphene/ZnO nanocomposite for supercapacitor applications. 2013 , 140, 405-411 | 93 |
| 1529 | Manipulating the electronic and chemical properties of graphene via molecular functionalization. 2013 , 88, 132-159 | 138 |
| 1528 | Pyrolic-structure enriched nitrogen doped graphene for highly efficient next generation supercapacitors. 2013 , 1, 2904 | 179 |
| 1527 | Using a non-covalent modification to prepare a high electromagnetic interference shielding performance graphene nanosheet/water-borne polyurethane composite. 2013 , 60, 57-66 | 213 |
| 1526 | Surface energy engineered, high-resolution micropatterning of solution-processed reduced graphene oxide thin films. 2013 , 25, 894-8 | 31 |
| 1525 | Chlorination of reduced graphene oxide enhances the dielectric constant of reduced graphene oxide/polymer composites. 2013 , 25, 2308-13 | 156 |
| 1524 | Graphene in lithium ion battery cathode materials: A review. 2013 , 240, 66-79 | 436 |
| 1523 | A new rapid chemical route to prepare reduced graphene oxide using copper metal nanoparticles. 2013 , 24, 215604 | 26 |

| | | |
|------|---|-----|
| 1522 | A high-performance supercapacitor-battery hybrid energy storage device based on graphene-enhanced electrode materials with ultrahigh energy density. 2013 , 6, 1623 | 759 |
| 1521 | Optimization of silver nanowire networks for polymer light emitting diode electrodes. 2013 , 24, 125202 | 131 |
| 1520 | Production of High-Concentration Graphene Dispersions in Low-Boiling-Point Organic Solvents by Liquid-Phase Noncovalent Exfoliation of Graphite with a Hyperbranched Polyethylene and Formation of Graphene/Ethylene Copolymer Composites. 2013 , 117, 10730-10742 | 105 |
| 1519 | Highly conductive reduced graphene oxide produced via pressure-assisted reduction at mild temperature for flexible and transparent electrodes. 2013 , 49, 4887-9 | 24 |
| 1518 | Use of graphene as a matrix to minimize reduction in the process of matrix-assisted laser desorption/ionization. 2013 , 27, 1278-82 | 7 |
| 1517 | Graphene oxide-P25 photocatalysts for degradation of diphenhydramine pharmaceutical and methyl orange dye. 2013 , 275, 361-368 | 124 |
| 1516 | Graphene-embedded 3D TiO ₂ inverse opal electrodes for highly efficient dye-sensitized solar cells: morphological characteristics and photocurrent enhancement. 2013 , 5, 4200-4 | 51 |
| 1515 | Enhanced conductivity of reduced graphene oxide decorated with aluminium oxide nanoparticles by oxygen annealing. 2013 , 5, 5725-31 | 13 |
| 1514 | Stable colloidal dispersion of functionalized reduced graphene oxide in aqueous medium for transparent conductive film. 2013 , 406, 69-74 | 41 |
| 1513 | Ultratough Artificial Nacre Based on Conjugated Cross-linked Graphene Oxide. 2013 , 125, 3838-3843 | 67 |
| 1512 | One step synthesis and capacitive performance of graphene nanosheets/Mn ₃ O ₄ composite. 2013 , 89, 18-23 | 66 |
| 1511 | Reduction of Suspended Graphene Oxide Single Sheet Nanopaper: The Effect of Crumpling. 2013 , 117, 3185-3191 | 27 |
| 1510 | Color in the corners: ITO-free white OLEDs with angular color stability. 2013 , 25, 4006-13 | 212 |
| 1509 | Novel Carbon-Based Nanomaterials. 2013 , 61-87 | 5 |
| 1508 | High-efficiency ITO-free polymer solar cells using highly conductive PEDOT:PSS/surfactant bilayer transparent anodes. 2013 , 6, 1956 | 188 |
| 1507 | Ultrafast spectral migration of photoluminescence in graphene oxide. 2013 , 13, 344-9 | 56 |
| 1506 | Electrochemically Driven Covalent Functionalization of Graphene from Fluorinated Aryl Iodonium Salts. 2013 , 117, 12038-12044 | 54 |
| 1505 | Synthesis of free standing conducting graphene paper by thermal reduction of graphene oxide paper. 2013 , | 4 |

| | | |
|------|---|-----|
| 1504 | Fabrication of transparent, flexible conducting graphene thin films via soft transfer printing method. 2013 , 276, 437-446 | 23 |
| 1503 | Hydrogen Kinetics on Scalable Graphene Growth by Atmospheric Pressure Chemical Vapor Deposition with Acetylene. 2013 , 117, 14348-14353 | 61 |
| 1502 | Graphene oxide film as solid lubricant. 2013 , 5, 6369-75 | 125 |
| 1501 | Ultrathin reduced graphene oxide films as transparent top-contacts for light switchable solid-state molecular junctions. 2013 , 25, 4164-70 | 68 |
| 1500 | Scalable solid-template reduction for designed reduced graphene oxide architectures. 2013 , 5, 7676-81 | 12 |
| 1499 | Progress in the electrochemical modification of graphene-based materials and their applications. 2013 , 107, 425-440 | 96 |
| 1498 | Graphene-based Li-ion hybrid supercapacitors with ultrahigh performance. 2013 , 6, 581-592 | 174 |
| 1497 | Single step synthesis of chitin/chitosan-based graphene oxide/ZnO hybrid composites for better electrical conductivity and optical properties. 2013 , 90, 194-202 | 31 |
| 1496 | Investigation of photocatalytic activities over ZnO-TiO ₂ -reduced graphene oxide composites synthesized via microwave-assisted reaction. 2013 , 394, 441-4 | 57 |
| 1495 | Tuning the Electronic Structure of Graphite Oxide through Ammonia Treatment for Photocatalytic Generation of H ₂ and O ₂ from Water Splitting. 2013 , 117, 6516-6524 | 136 |
| 1494 | Polyaniline modified graphene and carbon nanotube composite electrode for asymmetric supercapacitors of high energy density. 2013 , 241, 423-428 | 152 |
| 1493 | Graphene for Transparent Electrodes and Organic Electronic Devices. 2013 , 81-102 | |
| 1492 | High yield production and purification of few layer graphene by gum arabic assisted physical sonication. 2013 , 3, 1378 | 144 |
| 1491 | Terahertz, optical, and Raman signatures of monolayer graphene behavior in thermally reduced graphene oxide films. 2013 , 113, 183502 | 17 |
| 1490 | Exploiting nanocarbons in dye-sensitized solar cells. 2014 , 348, 53-93 | 26 |
| 1489 | Graphite/graphene oxide composite as high capacity and binder-free anode material for lithium ion batteries. 2013 , 241, 619-626 | 46 |
| 1488 | Synthesis and super capacitance of goethite/reduced graphene oxide for supercapacitors. 2013 , 141, 310-317 | 25 |
| 1487 | Facile, scalable synthesis of edge-halogenated graphene nanoplatelets as efficient metal-free electrocatalysts for oxygen reduction reaction. 2013 , 3, 1810 | 278 |

| | | |
|------|--|-----|
| 1486 | Porous 3D graphene-based bulk materials with exceptional high surface area and excellent conductivity for supercapacitors. 2013 , 3, 1408 | 532 |
| 1485 | Green chemistry for organic solar cells. 2013 , 6, 2053 | 216 |
| 1484 | Bioinspired Wafer-Scale Production of Highly Stretchable Carbon Films for Transparent Conductive Electrodes. 2013 , 125, 5645-5648 | 37 |
| 1483 | A simple way to synthesize well-dispersed Gd ₂ O ₃ nanoparticles onto reduced graphene oxide sheets. 2013 , 48, 37-40 | 8 |
| 1482 | Low-temperature synthesis of graphene on Fe ₂ O ₃ using inductively coupled plasma chemical vapor deposition. 2013 , 92, 437-439 | 14 |
| 1481 | Ultrathin polymer films for transparent electrode applications prepared by controlled nucleation. 2013 , 5, 11654-60 | 40 |
| 1480 | Large-area fabrication of periodic sub-15 nm-width single-layer graphene nanorings. 2013 , 25, 199-204 | 18 |
| 1479 | Holistic method for evaluating large area transparent conducting electrodes. 2013 , 5, 730-6 | 31 |
| 1478 | Solution-processable graphene nanomeshes with controlled pore structures. 2013 , 3, 1996 | 77 |
| 1477 | Environmentally friendly, one-pot synthesis of folic acid-decorated graphene oxide-based drug delivery system. 2013 , 15, 1 | 12 |
| 1476 | Spontaneous intercalation of long-chain alkyl ammonium into edge-selectively oxidized graphite to efficiently produce high-quality graphene. 2013 , 3, 2636 | 35 |
| 1475 | Capsule-embedded reduced graphene oxide: synthesis, mechanism and electrical properties. 2013 , 1, 958-966 | 18 |
| 1474 | Graphene oxide can induce in vitro and in vivo mutagenesis. 2013 , 3, 3469 | 94 |
| 1473 | Transparent and highly conductive liquid-phase exfoliated graphite films treated with low-temperature air-annealing. 2013 , 143, 85-92 | 10 |
| 1472 | Effect of wetted graphene on the performance of Pt/PPy-graphene electrocatalyst for methanol electrooxidation in acid medium. 2013 , 17, 1339-1348 | 9 |
| 1471 | Ethylene glycol assisted hydrothermal synthesis of graphene sheets supporting CdS nanospheres for quenched photoluminescence. 2013 , 16, 429-434 | 12 |
| 1470 | Graphene oxide-based drug delivery vehicles: functionalization, characterization, and cytotoxicity evaluation. 2013 , 15, 1 | 59 |
| 1469 | Rolling silver nanowire electrodes: simultaneously addressing adhesion, roughness, and conductivity. 2013 , 5, 12663-71 | 97 |

| | | |
|------|---|-----|
| 1468 | THE INFLUENCE OF OXYGEN-CONTAINING FUNCTIONAL GROUPS ON THE SURFACE BEHAVIOR AND ROUGHNESS CHARACTERISTICS OF GRAPHENE OXIDE. 2013 , 08, 1350045 | 36 |
| 1467 | Pressure-dependent synthesis of high-quality few-layer graphene by plasma-enhanced arc discharge and their thermal stability. 2013 , 15, 1 | 45 |
| 1466 | Ultrahigh humidity sensitivity of graphene oxide. 2013 , 3, 2714 | 427 |
| 1465 | Electric field assisted oxygen removal from the basal plane of the graphitic material. 2013 , 34, 305-10 | 8 |
| 1464 | Graphene nanosheets by low-temperature thermal reduction of graphene oxide using RF-CVD. 2013 , 8, 311-319 | 7 |
| 1463 | Microwave transmission in graphene oxide. 2013 , 24, 015201 | 4 |
| 1462 | Carbon Nanotubes and Graphene. 2013 , 76-127 | |
| 1461 | Broadband photoresponse and rectification of novel graphene oxide/n-Si heterojunctions. 2013 , 21, 26034-43 | 36 |
| 1460 | Self-amplitude and self-phase modulation of the charcoal mode-locked erbium-doped fiber lasers. 2013 , 21, 25184-96 | 19 |
| 1459 | Study of the deposition of graphene oxide by matrix-assisted pulsed laser evaporation. 2013 , 46, 505309 | 14 |
| 1458 | Fabrication and characterisation of graphene oxide-epoxy nanocomposite. 2013 , | 5 |
| 1457 | Stable Reduced Graphene Oxide Suspension Modified by PAMAM. 2013 , 341-342, 213-216 | |
| 1456 | Fabrication and characterisation of the graphene ring micro electrode (GRIME) with an integrated, concentric Ag/AgCl reference electrode. 2013 , 13, 3635-51 | 15 |
| 1455 | Electrochemical Sensor for o-Nitrophenol Based on β -Cyclodextrin Functionalized Graphene Nanosheets. 2013 , 2013, 1-6 | 13 |
| 1454 | Fabrication of Uniformly Growing Graphene Films via the Dip-Coating Method. 2013 , 320, 185-189 | |
| 1453 | All-carbon-based field effect transistors fabricated by aerosol jet printing on flexible substrates. 2013 , 23, 065027 | 27 |
| 1452 | Study of simultaneous reduction and nitrogen doping of graphene oxide Langmuir-Blodgett monolayer sheets by ammonia plasma treatment. 2013 , 24, 355704 | 38 |
| 1451 | VOCs Sensing Property of Graphene Oxide Thin Film by Reduction Rate. 2013 , 440, 64-68 | 1 |

1450 Graphite Oxide. **2013**, 571-604

1449 Facile Size-Controllable Synthesis of Colorful Quasi-Cubic Fe_3O_4 Materials from Nanoscale to Microscale and Their Properties Related to the Size Effect. **2013**, 78, 875-883 10

1448 Carbon monoxide-induced reduction and healing of graphene oxide. **2013**, 31, 040601 13

1447 Diffusion and desorption of oxygen atoms on graphene. **2013**, 25, 405301 16

1446 Hybrid graphene/amorphous carbon films with tadpole-like structures for high-performance photovoltaic applications. **2013**, 3, 22295 13

1445 Fabrication of Graphene-Based Films Using Microwave-Plasma-Enhanced Chemical Vapor Deposition. **2013**, 52, 01AK04 8

1444 Anode modification of polymer light-emitting diode using graphene oxide interfacial layer: The role of ultraviolet-ozone treatment. **2013**, 103, 073305 12

1443 Terahertz conductivity of reduced graphene oxide films. **2013**, 21, 7633-40 41

1442 Single layer graphene nano-patterning based on local anodic lithography in ambient conditions. **2013**,

1441 Observation of spin-glass behavior in nickel adsorbed few layer graphene. **2013**, 113, 024307 10

1440 Biotin-streptavidin detection with a graphene-oxide supported radio-frequency resonator. **2013**, 102, 193701 4

1439 Formulation of chemically reduced graphene oxide assembly with poly(4-vinyl pyridine) through noncovalent interaction. **2013**, 130, 2538-2543 12

1438 Near-edge x-ray absorption fine structure spectroscopy study of nitrogen incorporation in chemically reduced graphene oxide. **2013**, 31, 041204 30

1437 Transient thermal effect, nonlinear refraction and nonlinear absorption properties of graphene oxide sheets in dispersion. **2013**, 21, 7511-20 85

1436 Solubilization of Chemically Reduced Graphene Oxide Using Coffee Catechol. **2013**, 42, 189-190 8

1435 Facile Low-Temperature Synthesis and Photocatalytic Activity of Graphene Oxide/ TiO_2 Composite. **2013**, 86, 1065-1070 7

1434 Plasma Enhanced CVD of Transparent and Conductive Tin Oxide Thin Films. **2013**, 99-105

1433 Transparent Electrodes From Graphene/Single Wall Carbon Nanotube Composites. **2013**,

| | | |
|------|---|----|
| 1432 | In situ Raman spectroelectrochemistry of graphene oxide. 2013 , 250, 2662-2667 | 20 |
| 1431 | The role of oxidative debris on graphene oxide films. 2013 , 14, 4002-9 | 30 |
| 1430 | Photoresist-free patterning by mechanical abrasion of water-soluble lift-off resists and bare substrates: toward green fabrication of transparent electrodes. 2013 , 8, e83939 | 6 |
| 1429 | Films of Carbon Nanomaterials for Transparent Conductors. 2013 , 6, 2155-2181 | 16 |
| 1428 | Building up graphene-based conductive polymer composite thin films using reduced graphene oxide prepared by β -ray irradiation. 2013 , 2013, 954324 | 7 |
| 1427 | . 2013 , | 31 |
| 1426 | Aerosol Processing of Graphene and Its Application to Oil Absorbent and Glucose Biosensor. 2014 , 31, 111-125 | 9 |
| 1425 | . 2014 , | 2 |
| 1424 | FABRICATION AND CHARACTERIZATION OF HYDROGEN SENSORS BASED ON TRANSFERRED GRAPHENE SYNTHESIZED BY ANNEALING OF Ni/3C-SiC THIN FILMS. 2014 , 21, 1450050 | 2 |
| 1423 | Temperature and pH effect on reduction of graphene oxides in aqueous solution. 2014 , 1, 035605 | 9 |
| 1422 | Metallic and Passive Components. 2014 , 63-110 | |
| 1421 | Transparent conductive graphene films prepared by hydroiodic acid and thermal reduction. 2014 , 23, 028103 | 18 |
| 1420 | Fabrication and characterization of reduced graphene oxide modified nickel hydroxide electrode for energy storage applications. 2014 , 53, 08NC02 | 4 |
| 1419 | Direct growth of graphene on quartz substrates for label-free detection of adenosine triphosphate. 2014 , 25, 165702 | 35 |
| 1418 | Effect of copper surface pre-treatment on the properties of CVD grown graphene. 2014 , 4, 127107 | 20 |
| 1417 | Tensile Properties of Nitrate Glycerol Ether Cellulose/Graphene Oxide Nanocomposites. 2014 , 154, 147-153 | 14 |
| 1416 | Laser micromachining of oxygen reduced graphene-oxide films. 2014 , | 2 |
| 1415 | Screen-printed resistive pressure sensors containing graphene nanoplatelets and carbon nanotubes. 2014 , 14, 17304-12 | 40 |

| | | |
|------|--|-----|
| 1414 | Flexible and transparent reduced graphene oxide and silk fibroin composite films with kilo-ohm square resistance. 2014 , 11, 298 | 4 |
| 1413 | Preparation of reduced graphene oxide films by dip coating technique and their electrical conductivity. 2014 , 29, 14-20 | 12 |
| 1412 | Broadband near infrared optical power limiting of few layered graphene oxides. 2014 , 104, 191112 | 39 |
| 1411 | Arrayed rGOSH/PMASH Microcapsule Platform Integrating Surface Topography, Chemical Cues, and Electrical Stimulation for Three-Dimensional Neuron-Like Cell Growth and Neurite Sprouting. 2014 , 24, 3715-3724 | 21 |
| 1410 | P-93: Highly Conductive and Uniform Graphene hybrid Electrode with Chemical Reduction for Flexible Organic Light-Emitting Diodes. 2014 , 45, 1336-1339 | |
| 1409 | One-pot preparation of Ni-graphene hybrids with enhanced catalytic performance. 2014 , 316, 568-574 | 22 |
| 1408 | Enhanced Electrochemical Performance of Reduced Graphene Oxides by H ₂ /Ar Plasma Treatment. 2014 , 118, 28440-28447 | 24 |
| 1407 | Fabrication of large-area and high-crystallinity photoreduced graphene oxide films via reconstructed two-dimensional multilayer structures. 2014 , 6, e119-e119 | 36 |
| 1406 | Transparent Ultrathin Oxygen-Doped Silver Electrodes for Flexible Organic Solar Cells. 2014 , 24, 1551-1561 | 116 |
| 1405 | Comparison and Characterization of Two Preparation Methods of Graphene Oxide. 2014 , 989-994, 125-129 | |
| 1404 | Preparation and properties of dopamine reduced graphene oxide and its composites of epoxy. 2014 , 131, n/a-n/a | 31 |
| 1403 | Chemical bonding and stability of multilayer graphene oxide layers. 2014 , | |
| 1402 | Estimating Young's modulus of graphene with Raman scattering enhanced by micrometer tip. 2014 , 25, 255703 | 12 |
| 1401 | Large-scale graphene-based composite films for flexible transparent electrodes fabricated by electrospray deposition. 2014 , 1, 046404 | 1 |
| 1400 | Few layer graphene paper from electrochemical process for heat conduction. 2014 , 18, 208-213 | 8 |
| 1399 | Inkjet Printing Graphene-Based Transparent Conductive Films. 2014 , 1699, 36 | 1 |
| 1398 | Transparent electrodes for organic optoelectronic devices: a review. 2014 , 4, 040990 | 191 |
| 1397 | Non-Covalent Functionalization of Graphene and Multiwalled Carbon Nanotubes Composites for Transparent Conductive Films. 2014 , 602-603, 921-925 | |

1396 2. Synthesis, characterisation and properties of graphene. **2014,**

1395 Patterning of graphene microscale structures using electrohydrodynamic atomisation deposition of photoresist moulds. **2014, 9, 136-140** 2

1394 Microfabrication of passive electronic components with printed graphene-oxide deposition. **2014,**

1393 Graphene-based cathodes for liquid-junction dye sensitized solar cells: Electrocatalytic and mass transport effects. **2014, 128, 349-359** 84

1392 Accelerated differentiation of neural stem cells into neurons on ginseng-reduced graphene oxide sheets. **2014, 66, 395-406** 187

1391 Surfactant-free synthesis of graphene-functionalized carbon nanotube film as a catalytic counter electrode in dye-sensitized solar cells. **2014, 247, 999-1004** 66

1390 Au nanoparticle/graphene oxide hybrids as stabilizers for Pickering emulsions and Au nanoparticle/graphene oxide@polystyrene microspheres. **2014, 71, 238-248** 70

1389 Chlorine molecule adsorbed on graphene and doped graphene: A first-principle study. **2014, 436, 54-58** 18

1388 Water-soluble Microwave-exfoliated Graphene Nanosheet/Platinum Nanoparticle Composite and Its Application in Dye-Sensitized Solar Cells. **2014, 132, 186-192** 18

1387 Redox- and photovoltaic-active nanocomposite thin films of graphene oxide and a ruthenium terpyridyl complex. **2014, 134, 319-326** 16

1386 Diazonium functionalization of graphene nanosheets and impact response of aniline modified graphene/bismaleimide nanocomposites. **2014, 53, 466-474** 78

1385 Graphene oxide films as separators of polyaniline-based supercapacitors. **2014, 245, 33-36** 66

1384 Synthesis and characterization of graphene and carbon nanotubes: A review on the past and recent developments. **2014, 20, 1171-1185** 248

1383 Simultaneous synthesis and patterning of graphene electrodes by reactive inkjet printing. **2014, 66, 172-177** 31

1382 Graphene-Ruthenium(II) complex composites for sensitive ECL immunosensors. **2014, 10, 706-16** 65

1381 Chitin/graphene oxide composite films with enhanced mechanical properties prepared in NaOH/urea aqueous solution. **2014, 21, 1781-1791** 17

1380 Copper/silver nanoparticle incorporated graphene films prepared by a low-temperature solution method for transparent conductive electrodes. **2014, 25, 174-180** 18

1379 Thermally stable and highly conductive free-standing hybrid films based on reduced graphene oxide. **2014, 49, 380-391** 6

| | | |
|------|---|-----|
| 1378 | A review of production methods of carbon nanotube and graphene thin films for electrothermal applications. 2014 , 6, 3037-45 | 141 |
| 1377 | X-ray absorption spectroscopy studies of electronic structure recovery and nitrogen local structure upon thermal reduction of graphene oxide in an ammonia environment. 2014 , 4, 634-644 | 49 |
| 1376 | A direct route towards preparing pH-sensitive graphene nanosheets with anti-cancer activity. 2014 , 4, 4085-4093 | 29 |
| 1375 | A new strategy for the synthesis of 3-D Pt nanoparticles on reduced graphene oxide through surface functionalization, Application for methanol oxidation and oxygen reduction. 2014 , 130, 397-405 | 51 |
| 1374 | Is graphene a promising nano-material for promoting surface modification of implants or scaffold materials in bone tissue engineering?. 2014 , 20, 477-91 | 81 |
| 1373 | Multifunctional polymer foams with carbon nanoparticles. 2014 , 39, 486-509 | 157 |
| 1372 | Electrical measurement of PVA/graphene nanofibers for transparent electrode applications. 2014 , 191, 113-119 | 26 |
| 1371 | A practical carbon dioxide gas sensor using room-temperature hydrogen plasma reduced graphene oxide. 2014 , 193, 692-700 | 196 |
| 1370 | Thermo-sensitive graphene oxide-polymer nanoparticle hybrids: synthesis, characterization, biocompatibility and drug delivery. 2014 , 2, 1362-1370 | 64 |
| 1369 | Structural diversity of bulky graphene materials. 2014 , 10, 2200-14 | 39 |
| 1368 | Functional Polymer Nanocomposites with Graphene: A Review. 2014 , 299, 906-931 | 108 |
| 1367 | Preparation, characterization, and nonlinear optical properties of graphene oxide-carboxymethyl cellulose composite films. 2014 , 57, 84-89 | 35 |
| 1366 | Direct exfoliation of graphite to graphene by a facile chemical approach. 2014 , 10, 2233-8 | 26 |
| 1365 | Polystyrene-graphene oxide modified glassy carbon electrode as a new class of polymeric nanosensors for electrochemical determination of histamine. 2014 , 25, 655-658 | 49 |
| 1364 | The reduction of graphene oxide by elemental copper and its application in the fabrication of graphene supercapacitor. 2014 , 18, 1621-1626 | 40 |
| 1363 | Facile synthesis of soluble graphene quantum dots and its improved property in detecting heavy metal ions. 2014 , 118, 72-6 | 45 |
| 1362 | Optical and electronic properties of thin films and solutions of functionalized forms of graphene and related carbon materials. 2014 , 72, 82-88 | 23 |
| 1361 | Fabrication of Co ₃ O ₄ /graphene oxide composites using supercritical fluid and their catalytic application for the decomposition of ammonium perchlorate. 2014 , 16, 2001 | 56 |

| | | |
|------|--|-----|
| 1360 | Graphene oxide-based transparent conductive films. 2014 , 64, 200-247 | 219 |
| 1359 | Rapid and controllable synthesis of nitrogen doped reduced graphene oxide using microwave-assisted hydrothermal reaction for high power-density supercapacitors. 2014 , 73, 106-113 | 88 |
| 1358 | Photocatalytic synthesis of aniline from nitrobenzene using Ag-reduced graphene oxide nanocomposite. 2014 , 40, 5539-5546 | 55 |
| 1357 | In-situ electro-polymerization of graphene nanoribbon/polyaniline composite film: Application to sensitive electrochemical detection of dobutamine. 2014 , 196, 582-588 | 36 |
| 1356 | A graphene-based transparent electrode for use in flexible optoelectronic devices. 2014 , 2, 2646-2656 | 121 |
| 1355 | Conductive nanomaterials for printed electronics. 2014 , 10, 3515-35 | 576 |
| 1354 | Paper-based ultracapacitors with carbon nanotubes-graphene composites. 2014 , 115, 164301 | 29 |
| 1353 | Pulsed laser irradiation for environment friendly reduction of graphene oxide suspensions. 2014 , 301, 183-188 | 58 |
| 1352 | Magnetically separable palladium-graphene nanocomposite as heterogeneous catalyst for the synthesis of 2-alkylquinolines via one pot reaction of anilines with alkenyl ethers. 2014 , 55, 2406-2409 | 19 |
| 1351 | Graphene-based electrodes for enhanced organic thin film transistors based on pentacene. 2014 , 16, 16701-10 | 23 |
| 1350 | Reconfigurable topography for rapid solution processing of transparent conductors. 2014 , 26, 706-11 | 23 |
| 1349 | Quantitative evaluation of electrophoretic deposition kinetics of graphene oxide. 2014 , 67, 656-661 | 50 |
| 1348 | A Review of Graphene-Based Nanostructural Materials for Both Catalyst Supports and Metal-Free Catalysts in PEM Fuel Cell Oxygen Reduction Reactions. 2014 , 4, 1301523 | 365 |
| 1347 | Enhanced dielectric performance in polymer composite films with carbon nanotube-reduced graphene oxide hybrid filler. 2014 , 10, 3405-11 | 97 |
| 1346 | Ultrathin Flexible Graphene Film: An Excellent Thermal Conducting Material with Efficient EMI Shielding. 2014 , 24, 4542-4548 | 577 |
| 1345 | Proton selective ionic graphene-based membrane for high concentration direct methanol fuel cells. 2014 , 467, 217-225 | 60 |
| 1344 | Graphene materials and their use in dye-sensitized solar cells. 2014 , 114, 6323-48 | 331 |
| 1343 | 25th anniversary article: carbon nanotube- and graphene-based transparent conductive films for optoelectronic devices. 2014 , 26, 1958-91 | 310 |

| | | |
|------|--|---------|
| 1342 | Self-assembly of graphene oxide at interfaces. 2014 , 26, 5586-612 | 273 |
| 1341 | Facile, rapid and upscaled synthesis of green luminescent functional graphene quantum dots for bioimaging. 2014 , 4, 21101 | 52 |
| 1340 | Freeze-drying-induced changes in the properties of graphene oxides. 2014 , 25, 235601 | 21 |
| 1339 | Morphology control of surfactant-assisted graphene oxide films at the liquid-gas interface. 2014 , 30, 2170-7 | 31 |
| 1338 | A flexible and high-voltage internal tandem supercapacitor based on graphene-based porous materials with ultrahigh energy density. 2014 , 10, 2285-92 | 51 |
| 1337 | High-Current-Density Edge Electron Emission and Electron Beam Shaping for Vacuum Electronics Using Flexible Graphene Paper. 2014 , 61, 1776-1780 | 3 |
| 1336 | High-durable AgNi nanomesh film for a transparent conducting electrode. 2014 , 10, 3767-74 | 84 |
| 1335 | Self-Healing Reduced Graphene Oxide Films by Supersonic Kinetic Spraying. 2014 , 24, 4986-4995 | 131 |
| 1334 | Work-Function-Tunable Chlorinated Graphene Oxide as an Anode Interface Layer in High-Efficiency Polymer Solar Cells. 2014 , 4, 1400591 | 75 |
| 1333 | Investigation of molybdenum carbide nano-rod as an efficient and durable electrocatalyst for hydrogen evolution in acidic and alkaline media. 2014 , 154-155, 232-237 | 162 |
| 1332 | Ultrasensitive nonenzymatic immunosensor based on bimetallic gold/silver nanoclusters synthesized by simple mortar grinding route. 2014 , 194, 64-70 | 35 |
| 1331 | Role of 1D metallic nanowires in polydomain graphene for highly transparent conducting films. 2014 , 26, 4575-81 | 41 |
| 1330 | PdCu nanoparticles supported on graphene: an efficient and recyclable catalyst for reduction of nitroarenes. 2014 , 70, 6100-6105 | 71 |
| 1329 | Free-standing graphene oxide thin films assembled by a pressurized ultrafiltration method for dehydration of ethanol. 2014 , 458, 199-208 | 167 |
| 1328 | Graphene synthesis and application for solar cells. 2014 , 29, 299-319 | 58 |
| 1327 | Magnetically induced anisotropic orientation of graphene oxide locked by in situ hydrogelation. <i>ACS Nano</i> , 2014 , 8, 4640-9 | 16.7 85 |
| 1326 | Direct observation of single layer graphene oxide reduction through spatially resolved, single sheet absorption/emission microscopy. 2014 , 14, 3172-9 | 30 |
| 1325 | Graphene oxide nanosheets promoted regioselective and green synthesis of new dicoumarols. 2014 , 4, 17891-17895 | 34 |

| | | |
|------|--|-----|
| 1324 | Thin film formation of Pd/reduced-graphene oxide and Pd nanoparticles at oil/water interface, suitable as effective catalyst for Suzuki-Miyaura reaction in water. 2014 , 4, 1078 | 55 |
| 1323 | Lipid-lipid interactions in aminated reduced graphene oxide interface for biosensing application. 2014 , 30, 4192-201 | 63 |
| 1322 | Controlled release of anticancer drug using graphene oxide as a drug-binding effector in konjac glucomannan/sodium alginate hydrogels. 2014 , 113, 223-9 | 133 |
| 1321 | Photoreduction of Graphene Oxides: Methods, Properties, and Applications. 2014 , 2, 10-28 | 191 |
| 1320 | Thermally reduced solution-processed graphene oxide thin film: An efficient infrared photodetector. 2014 , 593, 198-203 | 25 |
| 1319 | Flexible, transparent, and conductive defrosting glass. 2014 , 556, 13-17 | 33 |
| 1318 | Transparent conductive thin film of ultra large reduced graphene oxide monolayers. 2014 , 295, 59-65 | 51 |
| 1317 | Mask-free and programmable patterning of graphene by ultrafast laser direct writing. 2014 , 430, 13-17 | 31 |
| 1316 | Role of thickness and intercalated water in the facile reduction of graphene oxide employing camera flash. 2014 , 25, 075702 | 10 |
| 1315 | Resistive switching memories in MoS ₂ nanosphere assemblies. 2014 , 104, 033504 | 55 |
| 1314 | Integrating porphyrin nanoparticles into a 2D graphene matrix for free-standing nanohybrid films with enhanced visible-light photocatalytic activity. 2014 , 6, 978-85 | 80 |
| 1313 | ZnO/Polyfluorene Hybrid LED on an Efficient Hole-Transport Layer of Graphene Oxide and Transparent Graphene Electrode. 2014 , 2, 326-330 | 15 |
| 1312 | Recent Progress in Colloidal Quantum Dot-Sensitized Solar Cells. 2014 , 1-38 | 1 |
| 1311 | Effect of dry oxidation on the energy gap and chemical composition of CVD graphene on nickel. 2014 , 293, 1-11 | 22 |
| 1310 | Li adsorption on edge-oxidized graphene nanoribbons predicted by DFT calculations. 2014 , 619, 105-113 | 19 |
| 1309 | Non-oxidized graphene nanoplatelets as an efficient hole transport layer in organic light-emitting diodes. 2014 , 15, 792-797 | 2 |
| 1308 | Aqueous-Phase Oxidation of Epitaxial Graphene on the Silicon Face of SiC(0001). 2014 , 118, 1014-1020 | 13 |
| 1307 | Comparison of the Catalytic Oxidation Reaction on Graphene Oxide and Reduced Graphene Oxide. 2014 , 118, 1142-1147 | 10 |

| | | |
|------|---|-----|
| 1306 | Room temperature reduction of multilayer graphene oxide film on a copper substrate: Penetration and participation of copper phase in redox reactions. 2014 , 69, 563-570 | 21 |
| 1305 | Functional materials from the covalent modification of reduced graphene oxide and β -cyclodextrin as a drug delivery carrier. 2014 , 38, 140-145 | 35 |
| 1304 | Infrared light actuated shape memory effects in crystalline polyurethane/graphene chemical hybrids. 2014 , 23, 025038 | 24 |
| 1303 | A polyaniline/graphene nanocomposite prepared by in situ polymerization of polyaniline onto polyanion grafted graphene and its electrochemical properties. 2014 , 4, 7673-7681 | 8 |
| 1302 | Improved anode materials for lithium-ion batteries comprise non-covalently bonded graphene and silicon nanoparticles. 2014 , 247, 991-998 | 66 |
| 1301 | Investigation of Transport and Recombination Properties in Graphene/Titanium Dioxide Nanocomposite for Dye-Sensitized Solar Cell Photoanodes. 2014 , 131, 154-159 | 48 |
| 1300 | High-yield graphene production by electrochemical exfoliation of graphite: Novel ionic liquid (IL) acetonitrile electrolyte with low IL content. 2014 , 71, 58-69 | 79 |
| 1299 | Supercritical Deposition Route of Preparing Pt/Graphene Composites and Their Catalytic Performance toward Methanol Electrooxidation. 2014 , 118, 1182-1190 | 42 |
| 1298 | Determination of dopamine, epinephrine, and norepinephrine by open-tubular capillary electrochromatography using graphene oxide molecularly imprinted polymers as the stationary phase. 2014 , 37, 2239-47 | 28 |
| 1297 | Plasmon-assisted and visible-light induced graphene oxide reduction and efficient fluorescence quenching. 2014 , 50, 13481-4 | 10 |
| 1296 | Preparation of graphene oxide/epoxy nanocomposites with significantly improved mechanical properties. 2014 , 116, 053518 | 110 |
| 1295 | New Insights into the Electronic Transport of Reduced Graphene Oxide Using Scanning Electrochemical Microscopy. 2014 , 5, 4162-6 | 12 |
| 1294 | Crown ethers in graphene. 2014 , 5, 5389 | 102 |
| 1293 | Molecular-level dispersion of graphene into epoxidized natural rubber: Morphology, interfacial interaction and mechanical reinforcement. 2014 , 55, 6803-6810 | 56 |
| 1292 | A high-performance electrocatalyst for oxygen reduction based on reduced graphene oxide modified with oxide nanoparticles, nitrogen dopants, and possible metal-N-C sites. 2014 , 2, 1631-1635 | 41 |
| 1291 | Low-temperature solution-processable Ni(OH) ₂ ultrathin nanosheet/N-graphene nanohybrids for high-performance supercapacitor electrodes. 2014 , 6, 5960-6 | 41 |
| 1290 | High-performance CO ₂ -philic graphene oxide membranes under wet-conditions. 2014 , 50, 13563-6 | 93 |
| 1289 | A bolaamphiphilic amino acid appended photo-switching supramolecular gel and tuning of photo-switching behaviour. 2014 , 16, 6041-9 | 21 |

| | | |
|------|--|-----|
| 1288 | Nanostructured Mn ₃ O ₄ /reduced graphene oxide hybrid and its applications for efficient catalytic decomposition of Orange II and high lithium storage capacity. 2014 , 4, 41838-41847 | 30 |
| 1287 | Micro-contact printing of graphene oxide nanosheets for fabricating patterned polymer brushes. 2014 , 50, 7103-6 | 31 |
| 1286 | A fast room-temperature strategy for direct reduction of graphene oxide films towards flexible transparent conductive films. 2014 , 2, 10969-10973 | 25 |
| 1285 | Glycol assisted synthesis of graphene-MnO ₂ -polyaniline ternary composites for high performance supercapacitor electrodes. 2014 , 16, 7872-80 | 110 |
| 1284 | Elucidating the nanoscale origins of organic electronic function by conductive atomic force microscopy. 2014 , 2, 3118-3128 | 40 |
| 1283 | Reduction intermediates of graphene oxide for low temperature reduction electrode material. 2014 , 4, 22476-22480 | 7 |
| 1282 | Graphene on Metal Grids as the Transparent Conductive Material for Dye Sensitized Solar Cell. 2014 , 118, 25863-25868 | 32 |
| 1281 | Theoretical investigations on one- and two-photon absorptions for a series of covalently functionalized hybrid materials based on graphene. 2014 , 38, 5391-5401 | 8 |
| 1280 | Spiers Memorial Lecture. Advances of carbon nanomaterials. 2014 , 173, 9-46 | 20 |
| 1279 | Inkjet printing of flexible high-performance carbon nanotube transparent conductive films by "coffee ring effect". 2014 , 6, 11084-9 | 137 |
| 1278 | Interface engineering for efficient and stable chemical-doping-free graphene-on-silicon solar cells by introducing a graphene oxide interlayer. 2014 , 2, 16877-16883 | 74 |
| 1277 | Wet-Spun Continuous Graphene Films. 2014 , 26, 6786-6795 | 149 |
| 1276 | Formation of snowman-like Pt/Pd thin film and Pt/Pd/reduced-graphene oxide thin film at liquid-liquid interface by use of organometallic complexes, suitable for methanol fuel cells. 2014 , 4, 13796 | 43 |
| 1275 | A flexible and binder-free reduced graphene oxide/Na ₂ /3[Ni ₁ /3Mn ₂ /3]O ₂ composite electrode for high-performance sodium ion batteries. 2014 , 2, 6723-6726 | 46 |
| 1274 | Near room temperature reduction of graphene oxide Langmuir-Blodgett monolayers by hydrogen plasma. 2014 , 16, 11708-18 | 23 |
| 1273 | Sheet resistance characterization of locally anisotropic transparent conductive films made of aligned metal-enriched single-walled carbon nanotubes. 2014 , 16, 18759-64 | 6 |
| 1272 | Carboxylated graphene oxide/Mn ₂ O ₃ nanorod composites for their electrochemical characteristics. 2014 , 2, 4292 | 45 |
| 1271 | Assembly of Patterned Graphene Film Aided by Wetting/Nonwetting Surface on Liquid Interface. 2014 , 13, 589-593 | 3 |

- 1270 Graphene oxide nanosheets as metal-free catalysts in the three-component reactions based on aryl glyoxals to generate novel pyranocoumarins. **2014**, 38, 3586-3590 32
- 1269 Electron-phonon interaction in bulk layered graphene and its oxide in the presence of alcohols in a device: equilibrium molecular doping. **2014**, 2, 8585-8592 4
- 1268 Fabrication and characterization of flexible silk fibroin films reinforced with graphene oxide for biomedical applications. **2014**, 4, 40312-40320 42
- 1267 Self-assembly of a thin highly reduced graphene oxide film and its high electrocatalytic activity. **2014**, 25, 405601 13
- 1266 Generation of . **2014**, 372, 1-7 9
- 1265 Fluorescence from graphene oxide and the influence of ionic, π -interactions and heterointerfaces: electron or energy transfer dynamics. **2014**, 16, 21183-203 35
- 1264 One-pot synthesis of Palladium Silver nanoparticles decorated reduced graphene oxide and their application for ethanol oxidation in alkaline media. **2014**, 143, 207-215 93
- 1263 Thin partially reduced oxide-graphene films: structural, optical, and electrical properties. **2014**, 9, 363-368 23
- 1262 Simple coating method of carbonaceous film onto copper nanopowder using PVP as solid carbon source. **2014**, 148, 859-867 8
- 1261 Inkjet-printed highly conductive transparent patterns with water based Ag-doped graphene. **2014**, 2, 19095-19101 53
- 1260 Modification of graphene oxide by a facile coprecipitation method and click chemistry for use as a drug carrier. **2014**, 4, 28807-28813 17
- 1259 Using a layer-by-layer assembly method to fabricate a uniform and conductive nitrogen-doped graphene anode for indium-tin oxide-free organic light-emitting diodes. **2014**, 6, 15753-9 18
- 1258 Fluorographene with high fluorine/carbon ratio: a nanofiller for preparing low- κ polyimide hybrid films. **2014**, 6, 16182-8 71
- 1257 Large area uniformly oriented multilayer graphene with high transparency and conducting properties derived from highly oriented polyethylene films. **2014**, 2, 6048-6055 5
- 1256 Macroscopic Graphene Structures: Preparation, Properties, and Applications. **2014**, 291-350 3
- 1255 Near-Infrared Light-Driven, Highly Efficient Bilayer Actuators Based on Polydopamine-Modified Reduced Graphene Oxide. **2014**, 24, 5412-5419 169
- 1254 Hybrid metal grid-polymer-carbon nanotube electrodes for high luminance organic light emitting diodes. **2014**, 25, 345202 7
- 1253 Factors controlling transport of graphene oxide nanoparticles in saturated sand columns. **2014**, 33, 998-1004 76

| | | | |
|------|--|------|-----|
| 1252 | Spray coating of crack templates for the fabrication of transparent conductors and heaters on flat and curved surfaces. 2014 , 6, 13688-96 | | 107 |
| 1251 | Mussel-inspired, ultralight, multifunctional 3D nitrogen-doped graphene aerogel. 2014 , 80, 174-182 | | 128 |
| 1250 | Capillary-Force-Assisted Self-Assembly (CAS) of Highly Ordered and Anisotropic Graphene-Based Thin Films. 2014 , 118, 259-267 | | 16 |
| 1249 | Organometallic precursor route for the fabrication of PtSn bimetallic nanotubes and Pt3Sn/reduced-graphene oxide nanohybrid thin films at oil/water interface and study of their electrocatalytic activity in methanol oxidation. 2014 , 769, 1-6 | | 33 |
| 1248 | Facile and scalable one-step production of organically modified graphene oxide by a two-phase extraction. 2014 , 80, 229-234 | | 18 |
| 1247 | Chemically bonded TiO ₂ -bronze nanosheet/reduced graphene oxide hybrid for high-power lithium ion batteries. <i>ACS Nano</i> , 2014 , 8, 1491-9 | 16.7 | 254 |
| 1246 | Exploring the synergetic effects of graphene oxide (GO) and polyvinylpyrrolidone (PVP) on poly(vinylidene fluoride) (PVDF) ultrafiltration membrane performance. 2014 , 316, 537-548 | | 208 |
| 1245 | Transition of gas sensing behavior in non-reduced graphene oxides with thermal annealing. 2014 , 136, 164-167 | | 13 |
| 1244 | Structure and supercapacitor performance of graphene materials obtained from brominated and fluorinated graphites. 2014 , 78, 137-146 | | 57 |
| 1243 | Chemical structure and interlayer distance correlation of graphite oxide in the heating process as revealed by in situ Fourier transform infrared spectroscopy and wide-angle X-ray diffraction techniques. 2014 , 68, 570-6 | | 5 |
| 1242 | Optical transmission control in graphene oxide and its organic composites with ultrashort laser pulses. 2014 , 16, 015205 | | 14 |
| 1241 | Uniform dispersion of graphene oxide in aluminum powder by direct electrostatic adsorption for fabrication of graphene/aluminum composites. 2014 , 25, 325601 | | 117 |
| 1240 | Photoactive films of photosystem I on transparent reduced graphene oxide electrodes. 2014 , 30, 8990-4 | | 34 |
| 1239 | Heavily Doped poly(3,4-ethylenedioxythiophene) Thin Films with High Carrier Mobility Deposited Using Oxidative CVD: Conductivity Stability and Carrier Transport. 2014 , 24, n/a-n/a | | 29 |
| 1238 | Artificial photosynthesis over graphene-semiconductor composites. Are we getting better?. 2014 , 43, 8240-54 | | 477 |
| 1237 | A rapid microwave heating route to synthesize graphene modified LiFePO ₄ /C nanocomposite for rechargeable lithium-ion batteries. 2014 , 40, 15801-15806 | | 33 |
| 1236 | Multifunctional graphene quantum dots for simultaneous targeted cellular imaging and drug delivery. 2014 , 122, 638-644 | | 225 |
| 1235 | Hollow fiber-supported graphene oxide molecularly imprinted polymers for the determination of dopamine using HPLC-PDA. 2014 , 6, 7518-7524 | | 21 |

| | | |
|------|---|-----|
| 1234 | Graphene as a transparent conducting and surface field layer in planar Si solar cells. 2014 , 9, 349 | 38 |
| 1233 | Tunable self-assembly structure of graphene oxide/cellulose nanocrystal hybrid films fabricated by vacuum filtration technique. 2014 , 4, 39301-39304 | 29 |
| 1232 | Graphene-wrapped ZnO hollow spheres with enhanced electromagnetic wave absorption properties. 2014 , 2, 16403-16409 | 447 |
| 1231 | Edge-iodine/sulfonic acid-functionalized graphene nanoplatelets as efficient electrocatalysts for oxygen reduction reaction. 2014 , 2, 8690-8695 | 39 |
| 1230 | Mechanical characteristics of individual multi-layer graphene-oxide sheets under direct tensile loading. 2014 , 80, 279-289 | 30 |
| 1229 | Enhanced transport of phenanthrene and 1-naphthol by colloidal graphene oxide nanoparticles in saturated soil. 2014 , 48, 10136-44 | 63 |
| 1228 | Large-area, conductive and flexible reduced graphene oxide (RGO) membrane fabricated by electrophoretic deposition (EPD). 2014 , 6, 1747-53 | 77 |
| 1227 | Exfoliation and reduction of graphene oxide at low temperature and its resulting electrocapacitive properties. 2014 , 49, 4989-4997 | 15 |
| 1226 | The rheological behaviour of concentrated dispersions of graphene oxide. 2014 , 49, 6311-6320 | 68 |
| 1225 | Study on the PMMA/GO nanocomposites with good thermal stability prepared by in situ Pickering emulsion polymerization. 2014 , 117, 755-763 | 27 |
| 1224 | Ion-Transfer Voltammetry at Carbon Nanofibre Membranes Produced by 500 °C Graphitisation/Graphenisation of Electrospun Poly-Acrylonitrile. 2014 , 26, 69-75 | 2 |
| 1223 | High-concentration graphene dispersions with minimal stabilizer: a scaffold for enzyme immobilization for glucose oxidation. 2014 , 20, 5752-61 | 38 |
| 1222 | Graphene oxide architectures prepared by molecular combing on hydrophilic-hydrophobic micropatterns. 2014 , 10, 2239-44 | 18 |
| 1221 | Acetylcholinesterase biosensor based on a gold nanoparticle-polypyrrole-reduced graphene oxide nanocomposite modified electrode for the amperometric detection of organophosphorus pesticides. 2014 , 139, 3055-60 | 144 |
| 1220 | Synthesis and Structural Mechanical Property Characteristics of Graphene Polymer Nanocomposites. 2014 , 335-375 | 5 |
| 1219 | Precisely patterning graphene sheets through a liquid-bridge induced strategy. 2014 , 10, 2570-7 | 13 |
| 1218 | Drastic Change in Photoluminescence Properties of Graphene Quantum Dots by Chromatographic Separation. 2014 , 2, 983-989 | 59 |
| 1217 | Combining the silver nanowire bridging effect with chemical doping for highly improved conductivity of CVD-grown graphene films. 2014 , 2, 5902 | 22 |

| | | |
|------|--|-----|
| 1216 | Laser-Mediated Programmable N Doping and Simultaneous Reduction of Graphene Oxides. 2014 , 2, 120-125 | 54 |
| 1215 | Tunable electronic and magnetic properties of graphene-like ZnO monolayer upon doping and CO adsorption: a first-principles study. 2014 , 2, 13129-13135 | 57 |
| 1214 | Extraction of Ni(II) on micro crystalline naphthalene modified with organic-solution-processable functionalized nano graphene. 2014 , 88, 1177-1183 | 2 |
| 1213 | Structural and electronic properties of Pd-decorated graphene oxides and their effects on the adsorption of nitrogen oxides: insights from density functional calculations. 2014 , 4, 23084-23096 | 26 |
| 1212 | Co(OH) nanosheet-decorated graphene-CNT composite for supercapacitors of high energy density. 2014 , 15, 014206 | 41 |
| 1211 | Double-stranded DNA-graphene hybrid: preparation and anti-proliferative activity. 2014 , 6, 3347-56 | 23 |
| 1210 | Functionalized graphene nanoribbon films as a radiofrequency and optically transparent material. 2014 , 6, 16661-8 | 19 |
| 1209 | Fluoropolymer-assisted graphene electrode for organic light-emitting diodes. 2014 , 15, 3154-3161 | 19 |
| 1208 | Graphene preparation by annealing of Co/SiC structure. 2014 , 320, 544-551 | 8 |
| 1207 | Graphene Oxide: Some New Insights into an Old Material. 2014 , 341-374 | 6 |
| 1206 | One-Step Hydrothermal Synthesis of 2D Hexagonal Nanoplates of Fe ₂ O ₃ /Graphene Composites with Enhanced Photocatalytic Activity. 2014 , 24, 5719-5727 | 289 |
| 1205 | Organic bulk heterojunction photovoltaic structures: design, morphology and properties. 2014 , 83, 575-599 | 32 |
| 1204 | Restructural confirmation and photocatalytic applications of graphene oxide-gold composites synthesized by Langmuir-Blodgett method. 2014 , 80, 290-304 | 17 |
| 1203 | Graphene oxide based magnetic nanocomposites for efficient treatment of breast cancer. 2014 , 37, 278-85 | 28 |
| 1202 | Integration of tailored reduced graphene oxide nanosheets and electrospun polyamide-66 nanofabrics for a flexible supercapacitor with high-volume- and high-area-specific capacitance. 2014 , 73, 87-98 | 60 |
| 1201 | Electrochemistry of graphene and related materials. 2014 , 114, 7150-88 | 802 |
| 1200 | Large scale production of highly conductive reduced graphene oxide sheets by a solvent-free low temperature reduction. 2014 , 69, 327-335 | 42 |
| 1199 | Effective reduction of graphene oxide thin films by a fluorinating agent: Diethylaminosulfur trifluoride. 2014 , 76, 133-140 | 49 |

| | | |
|------|--|----------|
| 1198 | Formation of uniform reduced graphene oxide films on modified PET substrates using drop-casting method. 2014 , 17, 66-73 | 43 |
| 1197 | Multifunctional PEG-GO/CuS nanocomposites for near-infrared chemo-photothermal therapy. 2014 , 35, 5805-13 | 181 |
| 1196 | Effect of combined chemical and electrochemical reduction of graphene oxide on morphology and structure of electrodeposited ZnO. 2014 , 40, 10351-10357 | 24 |
| 1195 | Electrical and optical properties of transparent flexible electrodes: Effects of UV ozone and oxygen plasma treatments. 2014 , 15, 721-728 | 20 |
| 1194 | In-situ synthesizing superior high-rate LiFePO ₄ /C nanorods embedded in graphene matrix. 2014 , 117, 105-112 | 45 |
| 1193 | Fully solution-processed semitransparent organic solar cells with a silver nanowire cathode and a conducting polymer anode. <i>ACS Nano</i> , 2014 , 8, 2857-63 | 16.7 106 |
| 1192 | Investigations on reduced graphene oxide film embedded with silver nanowire as a transparent conducting electrode. 2014 , 128, 264-269 | 57 |
| 1191 | Highly conductive, flexible and scalable graphene hybrid thin films with controlled domain size as transparent electrodes. 2014 , 50, 6645-8 | 9 |
| 1190 | Anomalous capacitive behaviors of graphene oxide based solid-state supercapacitors. 2014 , 14, 1938-43 | 63 |
| 1189 | Reduction dependent wetting properties of graphene oxide. 2014 , 77, 473-480 | 34 |
| 1188 | Effects of processing and material parameters on synthesis of monolayer ultralarge graphene oxide sheets. 2014 , 77, 244-254 | 51 |
| 1187 | Chemically derived graphene. 2014 , 50-80 | 6 |
| 1186 | Unusual morphologies of reduced graphene oxide and polyaniline nanofibers-reduced graphene oxide composites for high performance supercapacitor applications. 2014 , 4, 22551-22560 | 26 |
| 1185 | Rapid fabrication of graphene/ZnO composite thin film. 2014 , 53, 05HA01 | 1 |
| 1184 | Silica-assistant synthesis of three-dimensional graphene architecture and its application as anode material for lithium ion batteries. 2014 , 8, 62-70 | 50 |
| 1183 | Design and synthesis of pyrophosphate acid/graphene composites with wide stacked pores for methylene blue removal. 2014 , 253, 130-137 | 19 |
| 1182 | High performance polyurethane nanocomposite films prepared from a masterbatch of graphene oxide in polyether polyol. 2014 , 253, 356-365 | 84 |
| 1181 | A highly efficient synthetic process of graphene films with tunable optical properties. 2014 , 314, 71-77 | 21 |

| | | |
|------|---|-----|
| 1180 | Hydrogen-assisted pulsed KrF-laser irradiation for the in situ photoreduction of graphene oxide films. 2014 , 77, 857-867 | 19 |
| 1179 | Work Function Engineering of Graphene. 2014 , 4, 267-300 | 183 |
| 1178 | Graphene-Based Materials for Electrochemical Energy Storage. 2014 , 195-258 | |
| 1177 | Highly crystalline graphene formation from graphene oxides by ultrahigh temperature process using solar furnace. 2015 , 1786, 31-36 | 1 |
| 1176 | Correlating Chemical Structure and Charge Transport in Reduced Graphene Oxide for Transparent Conductor and Interconnect Applications. 2015 , | 3 |
| 1175 | Graphene based resonance structure to enhance the optical pressure between two planar surfaces. 2015 , 23, 33681-90 | 5 |
| 1174 | Surface-Engineered Graphene Quantum Dots Incorporated into Polymer Layers for High Performance Organic Photovoltaics. 2015 , 5, 14276 | 48 |
| 1173 | 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 |
| 1172 | Graphene Oxide as a Heterogeneous Reagent Promoted Synthesis of 2-Substituted 1,3-Benzazoles in Water. 2015 , 88, 1693-1706 | 10 |
| 1171 | A Photoinduced Electron Transfer System by Graphene Oxide Non-covalently Linked Porphyrin Antennae in Water. 2015 , 83, 950-955 | 5 |
| 1170 | Graphene oxide/carbon nanoparticle thin film based IR detector: Surface properties and device characterization. 2015 , 5, 107228 | 22 |
| 1169 | Graphene as Transparent Electrodes for Solar Cells. 2015 , 249-280 | 3 |
| 1168 | Oxidative stress and antibacterial properties of a graphene oxide-cystamine nanohybrid. 2015 , 10, 549-56 | 40 |
| 1167 | Controlling the growth of epitaxial graphene on metalized diamond (111) surface. 2015 , 107, 181603 | 6 |
| 1166 | Visible-light Induced Reduction of Graphene Oxide Using Plasmonic Nanoparticle. 2015 , | 1 |
| 1165 | Highly oxidized graphene nanosheets via the oxidization of detonation carbon. 2015 , 120, 543-549 | 5 |
| 1164 | Copper/Graphene/Clay Nanohybrid: A Highly Efficient Heterogeneous Nanocatalyst for the Synthesis of Novel 1,2,3-Triazolyl Carboacyclic Nucleosides via Click-Huisgen 1,3-Dipolar Cycloaddition. 2015 , 98, 1210-1224 | 18 |
| 1163 | Flexible Asymmetric Supercapacitor Based on Structure-Optimized Mn ₃ O ₄ /Reduced Graphene Oxide Nanohybrid Paper with High Energy and Power Density. 2015 , 25, 7291-7299 | 137 |

| | | |
|------|--|-----|
| 1162 | Design Considerations for Unconventional Electrochemical Energy Storage Architectures. 2015 , 5, 1402115 | 224 |
| 1161 | Transparente Elektroden aus Nanokristalltinten für flexible Bauelemente. 2015 , 127, 9896-9910 | 4 |
| 1160 | Scanning Electrochemical Microscopy as a Characterization Tool for Reduced Graphene Oxide Field Effect Transistors. 2015 , 13, 366-372 | 4 |
| 1159 | A High-Performance Nitro-Explosives Schottky Sensor Boosted by Interface Modulation. 2015 , 25, 4039-4048 | 52 |
| 1158 | Miniaturized Supercapacitors: Focused Ion Beam Reduced Graphene Oxide Supercapacitors with Enhanced Performance Metrics. 2015 , 5, 1500665 | 48 |
| 1157 | N ₂ -Plasma-Assisted One-Step Alignment and Patterning of Graphene Oxide on a SiO ₂ /Si Substrate Via the Langmuir-Blodgett Technique. 2015 , 2, 1400515 | 9 |
| 1156 | Transparent Electrodes Printed with Nanocrystal Inks for Flexible Smart Devices. 2015 , 54, 9760-74 | 119 |
| 1155 | Atomic Layer Deposition of Hafnium(IV) Oxide on Graphene Oxide: Probing Interfacial Chemistry and Nucleation by using X-ray Absorption and Photoelectron Spectroscopies. 2015 , 16, 2842-2848 | 7 |
| 1154 | Morphologically Controlled Bioinspired Dopamine-Polypyrrole Nanostructures with Tunable Electrical Properties. 2015 , 1, 1500205 | 40 |
| 1153 | Environmentally friendly synthesis of p-doped reduced graphene oxide with high dispersion stability by using red table wine. 2015 , 10, 1192-7 | 5 |
| 1152 | . 2015 , | 6 |
| 1151 | Solution processable graphene oxide hole transport layers and their application in P3HT:HTPPER active layer based BHJSC. 2015 , 39, 254-263 | 1 |
| 1150 | High-Performance Supercapacitors Based on Ionic Liquids and a Graphene Nanostructure. 2015 , | 7 |
| 1149 | Aligned Graphene Oxide Nanofillers: An Approach to Prepare Highly Thermally Conductive and Electrically Insulative Transparent Polymer Composites. 2015 , 2015, 1-6 | 3 |
| 1148 | Transparent Conductive Films of Copper Nanofiber Network Fabricated by Electrospinning. 2015 , 2015, 1-8 | 6 |
| 1147 | Ionic Conductance, Thermal and Morphological Behavior of PEO-Graphene Oxide-Salts Composites. 2015 , 2015, 1-6 | 7 |
| 1146 | . 2015 , | 13 |
| 1145 | New life for an old antibiotic. 2015 , 7, 7324-33 | 21 |

| | | |
|------|---|------|
| 1144 | Study on optical nonlinearity and optical limiting property of porphyrin-oxygenated carbon nanomaterial blends. 2015 , 11, 161-165 | 2 |
| 1143 | Broad family of carbon nanoallotropes: classification, chemistry, and applications of fullerenes, carbon dots, nanotubes, graphene, nanodiamonds, and combined superstructures. 2015 , 115, 4744-822 | 1137 |
| 1142 | Graphene Nanocomposites in Optoelectronics. 2015 , 131-156 | 0 |
| 1141 | Soft nano-wrapping on graphene oxide by using metal-organic network films composed of tannic acid and Fe ions. 2015 , 17, 8609-13 | 42 |
| 1140 | Facile Fabrication of Graphene Membranes with Readily Tunable Structures. 2015 , 7, 13745-57 | 32 |
| 1139 | A green, simple and cost-effective approach to synthesize high quality graphene by electrochemical exfoliation via process optimization. 2015 , 5, 54762-54768 | 27 |
| 1138 | Photochemistry of Graphene. 2015 , 213-238 | |
| 1137 | Photofunctional Layered Materials. 2015 , | 8 |
| 1136 | Methane adsorption on intrinsic, vacancy and N-doped graphene: A first-principles study. 2015 , 252, 1757-1766 | 11 |
| 1135 | Graphene Oxide. 2015 , | 61 |
| 1134 | The Chemistry of Graphene Oxide. 2015 , 61-95 | 162 |
| 1133 | Polyolefin/Graphene Nanocomposite Materials. 2015 , 129-154 | 2 |
| 1132 | Impact of trace graphene oxide in coagulation bath on morphology and performance of polysulfone ultrafiltration membrane. 2015 , 147, 364-371 | 23 |
| 1131 | Cytotoxicity effect of graphene oxide on human MDA-MB-231 cells. 2015 , 25, 312-9 | 27 |
| 1130 | Graphene nanosheet reinforced ZrB ₂ SiC ceramic composite by thermal reduction of graphene oxide. 2015 , 5, 47060-47065 | 58 |
| 1129 | Construction of chitin/graphene oxide hybrid hydrogels. 2015 , 22, 2035-2043 | 36 |
| 1128 | Synthesis of graphene nanosheets via chemical reduction of graphite oxide and application in the adsorption. 2015 , 88, 356-360 | 1 |
| 1127 | Functionalized graphene and other two-dimensional materials for photovoltaic devices: device design and processing. 2015 , 44, 5638-79 | 238 |

| | | |
|------|---|-----|
| 1126 | Graphene based metal and metal oxide nanocomposites: synthesis, properties and their applications. 2015 , 3, 18753-18808 | 446 |
| 1125 | Improved Reduction of Graphene Oxide. 2015 , 2, 423-430 | 14 |
| 1124 | Blown Bubble Assembly of Graphene Oxide Patches for Transparent Electrodes in Carbon-Silicon Solar Cells. 2015 , 7, 28330-6 | 4 |
| 1123 | Challenges and opportunities for graphene as transparent conductors in optoelectronics. 2015 , 10, 681-700 | 58 |
| 1122 | Investigation of the effects of temperature and time on reduction of graphene oxide by microwave hydrothermal reactor. 2015 , 38, 1699-1704 | 9 |
| 1121 | Fabrication of ZnO/Ag Nanowire/ZnO Thin Films for Optoelectronic Applications. 2015 , 622, 134-139 | 5 |
| 1120 | Electron-stimulated reduction of graphite oxide. 2015 , 102, 443-447 | 2 |
| 1119 | Graphene Oxide: A Fertile Nanosheet for Various Applications. 2015 , 84, 121012 | 19 |
| 1118 | Conversion of pencil graphite to graphene/polypyrrole nanofiber composite electrodes and its doping effect on the supercapacitive properties. 2015 , 55, 2118-2126 | 9 |
| 1117 | Application and Uses of Graphene Oxide and Reduced Graphene Oxide. 2015 , 39-55 | 43 |
| 1116 | Porous carbon with high capacitance and graphitization through controlled addition and removal of sulfur-containing compounds. 2015 , 12, 567-577 | 62 |
| 1115 | Reduced graphene oxide/titania nanocomposite-modified photoanode for efficient dye-sensitized solar cells. 2015 , 39, 812-824 | 44 |
| 1114 | Robust two-dimensional topological insulators in methyl-functionalized bismuth, antimony, and lead bilayer films. 2015 , 15, 1083-9 | 145 |
| 1113 | An advanced electrocatalyst with exceptional electrocatalytic activity via ultrafine Pt-based trimetallic nanoparticles on pristine graphene. 2015 , 87, 116-127 | 42 |
| 1112 | Progress in the preparation and application of three-dimensional graphene-based porous nanocomposites. 2015 , 7, 5563-77 | 107 |
| 1111 | Adsorption and removal of graphene dispersants. 2015 , 446, 282-9 | 23 |
| 1110 | Enhanced mechanical properties of short carbon fiber reinforced polyethersulfone composites by graphene oxide coating. 2015 , 59, 155-165 | 138 |
| 1109 | Raman characterization of defects and dopants in graphene. 2015 , 27, 083002 | 339 |

| | | |
|------|--|-----|
| 1108 | Electrochemical synthesis of sulfur-doped graphene sheets for highly efficient oxygen reduction. 2015 , 58, 417-424 | 16 |
| 1107 | Experimental design for optimizing the corrosion resistance of pulse reverse electrodeposited graphene oxide thin film. 2015 , 19, 1367-1380 | 27 |
| 1106 | Graphene/Polymer Nanocomposites: Role in Electronics. 2015 , 1-24 | 11 |
| 1105 | Preparation of aqueous graphene suspensions by ultrasonication in the presence of a fluorine-containing surfactant. 2015 , 51, 98-105 | 4 |
| 1104 | Transparent conductive reduced graphene oxide thin films produced by spray coating. 2015 , 58, 1-5 | 20 |
| 1103 | Polymer/Pristine Graphene Based Composites: From Emulsions to Strong, Electrically Conducting Foams. 2015 , 48, 687-693 | 43 |
| 1102 | Graphene Derivatives in Photocatalysis. 2015 , 249-276 | 0 |
| 1101 | One-step hydrothermal synthesis of graphene decorated V ₂ O ₅ nanobelts for enhanced electrochemical energy storage. 2015 , 5, 8151 | 141 |
| 1100 | Fabrication of transparent and ultraviolet shielding composite films based on graphene oxide and cellulose acetate. 2015 , 123, 217-27 | 98 |
| 1099 | 3D MoS ₂ /Graphene Microspheres Consisting of Multiple Nanospheres with Superior Sodium Ion Storage Properties. 2015 , 25, 1780-1788 | 436 |
| 1098 | Reduced graphene oxide hydrogel film with a continuous ion transport network for supercapacitors. 2015 , 7, 3712-8 | 37 |
| 1097 | Rapid synthesis of graphene/amorphous MnO ₂ composite with enhanced electrochemical performance for electrochemical capacitor. 2015 , 194, 41-47 | 28 |
| 1096 | Thermal treatment and chemical doping of semi-transparent graphene films. 2015 , 18, 53-60 | 9 |
| 1095 | Graphene-based transparent conductive electrodes for GaN-based light emitting diodes: Challenges and countermeasures. 2015 , 12, 419-436 | 73 |
| 1094 | Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poisson's ratio. 2015 , 6, 6141 | 389 |
| 1093 | An iron-based green approach to 1-h production of single-layer graphene oxide. 2015 , 6, 5716 | 302 |
| 1092 | Deposition of graphene by sublimation of pyrolytic carbon. 2015 , 47, 851-863 | 9 |
| 1091 | Multilayer graphene synthesized using magnetron sputtering for planar supercapacitor application. 2015 , 93, 160-164 | 18 |

| | | |
|------|---|-----|
| 1090 | Fast route to obtain Al ₂ O ₃ -based nanocomposites employing graphene oxide: Synthesis and sintering. 2015 , 64, 245-251 | 16 |
| 1089 | Enhanced thermal resistance of GO/C/phenolic nanocomposite by introducing ZrB ₂ nanoparticles. 2015 , 76, 174-179 | 35 |
| 1088 | Graphite oxide Auger-electron diagnostics. 2015 , 199, 51-55 | 4 |
| 1087 | Large-scale plasma patterning of transparent graphene electrode on flexible substrates. 2015 , 31, 2914-21 | 13 |
| 1086 | Sonoelectrochemical intercalation and exfoliation for the preparation of defective graphene sheets and their application as nonenzymatic H ₂ O ₂ sensors and oxygen reduction catalysts. 2015 , 5, 21988-21998 | 20 |
| 1085 | Reduction of graphene oxide film with poly (vinyl alcohol). 2015 , 625, 36-40 | 8 |
| 1084 | Influence of the surface treatment with low-energy (hbox {Ar}^{\{+\}}) plasma on graphene and defected graphene layers. 2015 , 47, 901-912 | 0 |
| 1083 | Optical Properties of Silver Nanoparticles Integrated Graphene Oxide Thin Films on Glass and Silicon Substrates. 2015 , 10, 1063-1069 | 6 |
| 1082 | Montmorillonite/graphene oxide/chitosan composite: Synthesis, characterization and properties. 2015 , 79, 923-33 | 43 |
| 1081 | Synthesis and Characterization of Phosphate Intercalated Graphite Oxide. 2015 , 23, 6-10 | 6 |
| 1080 | NiMo catalysts supported on graphene-modified mesoporous TiO ₂ toward highly efficient hydrodesulfurization of dibenzothiophene. 2015 , 502, 157-165 | 24 |
| 1079 | High definition conductive carbon films from solution processing of nitrogen-containing oligomers. 2015 , 94, 1044-1051 | 3 |
| 1078 | Crumpled graphene: preparation and applications. 2015 , 5, 66767-66796 | 52 |
| 1077 | Graphene oxide: A promising nanomaterial for energy and environmental applications. 2015 , 16, 488-515 | 406 |
| 1076 | Heterocyclic aramid nanoparticle-assisted graphene exfoliation for fabrication of pristine graphene-based composite paper. 2015 , 17, 1 | 7 |
| 1075 | Preparation of polyvinyl alcohol/chitosan hydrogel compounded with graphene oxide to enhance the adsorption properties for Cu(II) in aqueous solution. 2015 , 22, 1 | 47 |
| 1074 | Synthesis and Development of Graphene-Inorganic Semiconductor Nanocomposites. 2015 , 115, 8294-343 | 199 |
| 1073 | Towards the continuous production of high crystallinity graphene via electrochemical exfoliation with molecular in situ encapsulation. 2015 , 7, 15362-73 | 94 |

| | | | |
|------|--|------|-----|
| 1072 | Simultaneous Electrochemical Reduction and Delamination of Graphene Oxide Films. <i>ACS Nano</i> , 2015 , 9, 8737-43 | 16.7 | 52 |
| 1071 | Nanocomposites with engineering polymers: A review. 2015 , 15-29 | | 2 |
| 1070 | Alloy-Based Anode Materials. 2015 , 189-229 | | 2 |
| 1069 | Graphene for Transparent Conductors. 2015 , | | 29 |
| 1068 | Ultrathin graphene and graphene oxide layers as a diffusion barrier for advanced Cu metallization. 2015 , 106, 063112 | | 24 |
| 1067 | Reduced graphene oxide enhances horseradish peroxidase stability by serving as radical scavenger and redox mediator. 2015 , 94, 531-538 | | 68 |
| 1066 | Effects of reduction methods on the structure and thermal conductivity of free-standing reduced graphene oxide films. 2015 , 58, 54-61 | | 52 |
| 1065 | Bendable ITO-free Organic Solar Cells with Highly Conductive and Flexible PEDOT:PSS Electrodes on Plastic Substrates. 2015 , 7, 16287-95 | | 91 |
| 1064 | Transparent Conducting Polymers. 2015 , 359-392 | | 5 |
| 1063 | Superstructured Assembly of Nanocarbons: Fullerenes, Nanotubes, and Graphene. 2015 , 115, 7046-117 | | 381 |
| 1062 | Controlling synthesis and gas-sensing properties of ordered mesoporous In ₂ O ₃ -reduced graphene oxide (rGO) nanocomposite. 2015 , 60, 1348-1354 | | 22 |
| 1061 | Clean graphene surface through high temperature annealing. 2015 , 94, 740-748 | | 54 |
| 1060 | Graphene oxide hole injection layer for high-efficiency polymer light-emitting diodes by using electrophoretic deposition and electrical reduction. 2015 , 94, 633-640 | | 10 |
| 1059 | Efficient Direct Reduction of Graphene Oxide by Silicon Substrate. 2015 , 5, 12306 | | 30 |
| 1058 | Synthesis of functionalized few-layer graphene through fast electrochemical expansion of graphite. 2015 , 753, 42-46 | | 19 |
| 1057 | Graphene oxide amplified electrochemiluminescence of graphitic carbon nitride and its application in ultrasensitive sensing for Cu(2+). 2015 , 891, 113-9 | | 32 |
| 1056 | Nanoindentation and thermal study of polyvinylalcohol/graphene oxide nanocomposite film through organic/inorganic assembly. 2015 , 349, 27-34 | | 35 |
| 1055 | The excellent performance of amorphous Cr ₂ O ₃ , SnO ₂ , SrO and graphene oxide ferric oxide in glucose conversion into 5-HMF. 2015 , 69, 76-80 | | 38 |

| | | |
|------|--|-----|
| 1054 | Chlorine-functionalized reduced graphene oxide for methylene blue removal. 2015 , 5, 52466-52472 | 25 |
| 1053 | Surface modified magnetic nanoparticles as efficient and green sorbents: Synthesis, characterization, and application for the removal of anionic dye. 2015 , 394, 7-13 | 78 |
| 1052 | Lateral assembly of oxidized graphene flakes into large-scale transparent conductive thin films with a three-dimensional surfactant 4-sulfocalix[4]arene. 2015 , 5, 10716 | 24 |
| 1051 | Nanoscale reduction of graphene oxide thin films and its characterization. 2015 , 26, 285301 | 24 |
| 1050 | Facile preparation of flower-like NiCo ₂ O ₄ /three dimensional graphene foam hybrid for high performance supercapacitor electrodes. 2015 , 89, 328-339 | 120 |
| 1049 | Athermally photoreduced graphene oxides for three-dimensional holographic images. 2015 , 6, 6984 | 139 |
| 1048 | Reduced graphene oxide encapsulated selenium nanoparticles for high-power lithium-selenium battery cathode. 2015 , 288, 214-220 | 70 |
| 1047 | Photoelectric properties of reduced-graphene-oxide film and its photovoltaic application. 2015 , 5, 39630-39634 | |
| 1046 | A Green Synthesis of Substituted Coumarins Using Nano Graphene Oxide as Recyclable Catalyst. 2015 , 62, 389-392 | 28 |
| 1045 | Counter-ion dependent, longitudinal unzipping of multi-walled carbon nanotubes to highly conductive and transparent graphene nanoribbons. 2014 , 4, 4363 | 40 |
| 1044 | Adsorption characteristics of diclofenac and sulfamethoxazole to graphene oxide in aqueous solution. 2015 , 136, 20-6 | 185 |
| 1043 | The Effect of Laser Wavelength and Concentration on Thermal Nonlinear Refractive Index of Graphene Suspensions. 2015 , 10, 1550053 | 7 |
| 1042 | Graphene-wrapped nitrogen-containing carbon spheres for electrochemical supercapacitor application. 2015 , 113, 545-550 | 16 |
| 1041 | Observation of different charge transport regimes and large magnetoresistance in graphene oxide layers. 2015 , 89, 188-196 | 35 |
| 1040 | Preparation and properties of graphene oxide-modified poly(melamine-formaldehyde) microcapsules containing phase change material n-dodecanol for thermal energy storage. 2015 , 3, 11624-11630 ¹⁴⁷ | |
| 1039 | Preparation and Tribological Properties of Lanthanum Trifluoride Nanoparticles-Decorated Graphene Oxide Nanosheets. 2015 , 54, 4773-4780 | 33 |
| 1038 | Electroanalytical method for the determination of 5-fluorouracil using a reduced graphene oxide/chitosan modified sensor. 2015 , 5, 34292-34301 | 21 |
| 1037 | In situ FTIR and Raman spectroelectrochemical characterization of graphene oxide upon electrochemical reduction in organic solvents. 2015 , 17, 12115-23 | 43 |

| | | |
|------|--|-----|
| 1036 | Spray Coating for Polymer Solar Cells: An Up-to-Date Overview. 2015 , 3, 385-406 | 54 |
| 1035 | Fabrication and characterization of semiconducting single-walled carbon nanotube-based bulk hetero junction organic solar cell using spin coating technique. 2015 , 3, 161-169 | 3 |
| 1034 | Development of a highly active electrocatalyst via ultrafine Pd nanoparticles dispersed on pristine graphene. 2015 , 31, 2576-83 | 42 |
| 1033 | Ultraviolet-assisted reduction of BBL/graphene nanocomposite. 2015 , 23, 428-435 | 2 |
| 1032 | Graphene-based materials for flexible supercapacitors. 2015 , 44, 3639-65 | 851 |
| 1031 | Materials for Flexible, Stretchable Electronics: Graphene and 2D Materials. 2015 , 45, 63-84 | 266 |
| 1030 | Solvothermal-assisted liquid-phase exfoliation of graphite in a mixed solvent of toluene and oleylamine. 2015 , 10, 727 | 24 |
| 1029 | Graphene Filled Polymers in Photovoltaic. 2015 , 157-191 | |
| 1028 | Efficient low-temperature transparent electrocatalytic layers based on graphene oxide nanosheets for dye-sensitized solar cells. 2015 , 7, 10863-71 | 16 |
| 1027 | Sodium-Ion Intercalated Transparent Conductors with Printed Reduced Graphene Oxide Networks. 2015 , 15, 3763-9 | 41 |
| 1026 | Fast and fully-scalable synthesis of reduced graphene oxide. 2015 , 5, 10160 | 360 |
| 1025 | Carbon nanomaterials for photovoltaic process. 2015 , 15, 490-522 | 41 |
| 1024 | Covalent attachment of 3-(aminomethyl)pyridine to graphene oxide: a new stabilizer for the synthesis of a palladium thin film at the oil/water interface as an effective catalyst for the SuzukiMiyaura reaction. 2015 , 5, 47701-47708 | 29 |
| 1023 | A study on near-UV blue photoluminescence in graphene oxide prepared by LangmuirBlodgett method. 2015 , 345, 18-23 | 16 |
| 1022 | Solvent exfoliation of electronic-grade, two-dimensional black phosphorus. <i>ACS Nano</i> , 2015 , 9, 3596-60416.7 | 561 |
| 1021 | Grafting of Polyimide onto Chemically-Functionalized Graphene Nanosheets for Mechanically-Strong Barrier Membranes. 2015 , 27, 2040-2047 | 53 |
| 1020 | Effects of nano graphene oxide as support on the product properties and performance of ZieglerNatta catalyst in production of UHMWPE. 2015 , 26, 315-321 | 23 |
| 1019 | Rationally designed 1D Ag@AgVO ₃ nanowire/graphene/protonated g-C ₃ N ₄ nanosheet heterojunctions for enhanced photocatalysis via electrostatic self-assembly and photochemical reduction methods. 2015 , 3, 10119-10126 | 211 |

| | | |
|------|--|-----|
| 1018 | Graphene oxide membranes on ceramic hollow fibers □Microstructural stability and nanofiltration performance. 2015 , 484, 87-94 | 131 |
| 1017 | Hydrogen-rich water for green reduction of graphene oxide suspensions. 2015 , 40, 5553-5560 | 29 |
| 1016 | Metal-organic framework composites: from fundamentals to applications. 2015 , 7, 7482-501 | 327 |
| 1015 | Preliminary comparison of different reduction methods of graphene oxide. 2015 , 38, 7-12 | 34 |
| 1014 | Graphene oxide thin films: influence of chemical structure and deposition methodology. 2015 , 31, 2697-705 | 47 |
| 1013 | Preparation of high-quality graphene with a large-size by sonication-free liquid-phase exfoliation of graphite with a new mechanism. 2015 , 5, 44783-44791 | 23 |
| 1012 | Role of oxygen functional groups in graphene oxide for reversible room-temperature NO ₂ sensing. 2015 , 91, 178-187 | 138 |
| 1011 | Environmentally friendly synthesis of graphene□silver composites with surface-enhanced Raman scattering and antibacterial activity via reduction with L-ascorbic acid/water vapor. 2015 , 39, 5272-5281 | 32 |
| 1010 | Identical steady tribological performance of graphene-oxide-strengthened polyurethane/epoxy interpenetrating polymer networks derived from graphene nanosheet. 2015 , 64, 62-68 | 34 |
| 1009 | Functionalized graphene oxide as a drug carrier for loading pirfenidone in treatment of subarachnoid hemorrhage. 2015 , 129, 21-9 | 39 |
| 1008 | Unusually High Optical Transparency in Hexagonal Nanopatterned Graphene with Enhanced Conductivity by Chemical Doping. 2015 , 11, 3143-52 | 12 |
| 1007 | Multiple roles of graphene in heterogeneous catalysis. 2015 , 44, 3023-35 | 271 |
| 1006 | Graphene oxide electrocatalyst on MnO ₂ □air cathode as an efficient electron pump for enhanced oxygen reduction in alkaline solution. 2015 , 5, 9108 | 24 |
| 1005 | Flexible transparent electrodes for organic light-emitting diodes. 2015 , 16, 71-84 | 41 |
| 1004 | 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 |
| 1003 | Novel Cr(III) surface magnetic ion-imprinted materials based on graphene oxide for selective removal of Cr(III) in aqueous solution. 2015 , 56, 204-215 | 8 |
| 1002 | Crystallization behavior, thermal property and enzymatic degradation of PVP/amylose in the presence of graphene oxide nanosheets. 2015 , 116, 53-61 | 6 |
| 1001 | Development of highly transparent Pd-coated Ag nanowire electrode for display and catalysis applications. 2015 , 350, 79-86 | 16 |

| | | |
|------|--|----------|
| 1000 | Graphene-reinforced carbon composite foams with improved strength and EMI shielding from sucrose and graphene oxide. 2015 , 50, 8018-8028 | 30 |
| 999 | Graphene-based Materials Used as the Catalyst Support for PEMFC Applications. 2015 , 2, 3797-3805 | 18 |
| 998 | Amine Functionalized polyaniline grafted to exfoliated graphite oxide: Synthesis, characterization and multi-element sensor studies. 2015 , 757, 137-143 | 3 |
| 997 | Difference in chemical reactions in bulk plasma and sheath regions during surface modification of graphene oxide film using capacitively coupled NH ₃ plasma. 2015 , 118, 103303 | 9 |
| 996 | Crucial Role of Lateral Size for Graphene Oxide in Activating Macrophages and Stimulating Pro-inflammatory Responses in Cells and Animals. <i>ACS Nano</i> , 2015 , 9, 10498-515 | 16.7 267 |
| 995 | Strongly Anisotropic Thermal Conductivity of Free-Standing Reduced Graphene Oxide Films Annealed at High Temperature. 2015 , 25, 4664-4672 | 369 |
| 994 | SnO ₂ /reduced graphene oxide composite films for electrochemical applications. 2015 , 202, 61-67 | 14 |
| 993 | Graphene functionalized with 3-mercaptopropionic acid capped zinc peroxide nanoparticles: A potential ferromagnetic material at room-temperature. 2015 , 95, 428-433 | 4 |
| 992 | Ultrahigh electrical conductivity in solution-sheared polymeric transparent films. 2015 , 112, 14138-43 | 179 |
| 991 | Ultralight carbon nanofoam from naphthalene-mediated hydrothermal sucrose carbonization. 2015 , 95, 434-441 | 22 |
| 990 | Effect of graphene oxide nanoplatelets on electrochemical properties of steel substrate in saline media. 2015 , 163, 130-137 | 18 |
| 989 | Enhanced film conductance of silver nanowire-based flexible transparent & conductive networks by bending. 2015 , 2, 075009 | 10 |
| 988 | A Novel Method of Fabricating Flexible Transparent Conductive Large Area Graphene Film. 2015 , 32, 076802 | 3 |
| 987 | Cross-linked graphene membrane for high-performance organics separation of emulsions. 2015 , 495, 439-444 | 41 |
| 986 | A Smart Magnetically Active Nanovehicle for on-Demand Targeted Drug Delivery: Where van der Waals Force Balances the Magnetic Interaction. 2015 , 7, 24229-41 | 26 |
| 985 | Controllable Magnetism of CoO Nanoparticles Modified by the Reduced Graphene Oxide. 2015 , 119, 25585-25590 | 3 |
| 984 | Graphene Oxide and Pluronic Copolymer Aggregates: Possible Route to Modulate the Adsorption of Fluorophores and Imaging of Live Cells. 2015 , 119, 25023-25035 | 20 |
| 983 | Light Actuation of Graphene-Oxide Incorporated Liquid Crystalline Elastomer Nanocomposites. 2015 , 616, 83-92 | 17 |

| | | |
|-----|---|-----|
| 982 | Fabrication of Graphene-Based Transparent Conducting Thin Films. 2015 , 95-122 | 4 |
| 981 | Synthesis, Structure, and Properties of Graphene and Graphene Oxide. 2015 , 29-94 | 16 |
| 980 | Adsorption of quinoline from liquid hydrocarbons on graphite oxide and activated carbons. 2015 , 5, 74684-74691 | |
| 979 | Graphene Oxide: A Convenient Metal-Free Carbocatalyst for Facilitating Aerobic Oxidation of 5-Hydroxymethylfurfural into 2, 5-Diformylfuran. 2015 , 5, 5636-5646 | 125 |
| 978 | Controlling Solid-Gas Reactions at Nanoscale for Enhanced Thin Film Morphologies and Device Performances in Solution-Processed Cu ₂ ZnSn(S,Se) ₄ Solar Cells. 2015 , 137, 11069-75 | 15 |
| 977 | Highly Monodisperse NiO QDs Embedded in rGO Sheets: Synergetic Effect of Adsorption and Antibacterial Properties in Water Treatment. 2015 , 161, 51-61 | |
| 976 | Green fabrication of porous silk fibroin/graphene oxide hybrid scaffolds for bone tissue engineering. 2015 , 5, 78660-78668 | 37 |
| 975 | Nanoscale reduction of graphene oxide under ambient conditions. 2015 , 95, 1069-1075 | 28 |
| 974 | Insight into effect of hydrothermal preparation process of nanofillers on dielectric, creep and electromechanical performance of polyurethane dielectric elastomer/reduced graphene oxide composites. 2015 , 26, 10164-10171 | 19 |
| 973 | Graphite mediated reduction of graphene oxide monolayer sheets. 2015 , 95, 843-851 | 14 |
| 972 | Directed self-assembly of graphene oxide on an electrospun polymer fiber template. 2015 , 95, 888-894 | 8 |
| 971 | Theoretical investigation on two-dimensional non-traditional carbon materials employing three-membered ring and four-membered ring as building blocks. 2015 , 95, 1033-1038 | 18 |
| 970 | Versatile Wafer-Scale Technique for the Formation of Ultrasoft and Thickness-Controlled Graphene Oxide Films Based on Very Large Flakes. 2015 , 7, 21270-7 | 10 |
| 969 | Ultralight free-standing reduced graphene oxide membranes for oil-in-water emulsion separation. 2015 , 3, 20113-20117 | 87 |
| 968 | Preparation of a Three-Dimensional Reduced Graphene Oxide Film by Using the Langmuir-Blodgett Method. 2015 , 31, 10426-34 | 32 |
| 967 | The effect of surface modification by reduced graphene oxide on the electrocatalytic activity of nickel towards the hydrogen evolution reaction. 2015 , 17, 26864-74 | 66 |
| 966 | NIR-Vis-UV Light-Responsive Actuator Films of Polymer-Dispersed Liquid Crystal/Graphene Oxide Nanocomposites. 2015 , 7, 27494-501 | 173 |
| 965 | Physico-mechanical properties of a microwave-irradiated kenaf carbamate/graphene oxide membrane. 2015 , 22, 3851-3863 | 13 |

| | | |
|-----|---|-----|
| 964 | 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 |
| 963 | A simple visible light photo-assisted method for assembling and curing multilayer GO thin films. 2015 , 165, 125-133 | 4 |
| 962 | Solid-state synthesis of Ti ₂ Nb ₁₀ O ₂₉ /reduced graphene oxide composites with enhanced lithium storage capability. 2015 , 300, 272-278 | 77 |
| 961 | Unusual nonlinear absorption response of graphene oxide in the presence of a reduction process. 2015 , 12, 025401 | 13 |
| 960 | High Performance Flexible Supercapacitor Electrodes Composed of Ultralarge Graphene Sheets and Vanadium Dioxide. 2015 , 5, 1401890 | 75 |
| 959 | Facile synthesis of graphene oxide in a Couette-Taylor flow reactor. 2015 , 83, 217-223 | 32 |
| 958 | Laser-ablation production of graphene oxide nanostructures: from ribbons to quantum dots. 2015 , 7, 2708-15 | 51 |
| 957 | Impact of distributions and mixtures on the charge transfer properties of graphene nanoflakes. 2015 , 7, 1864-71 | 12 |
| 956 | Nonlinear optical and optical limiting properties of fullerene, multi-walled carbon nanotubes, graphene and their derivatives with oxygen-containing functional groups. 2015 , 17, 015501 | 17 |
| 955 | 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 |
| 954 | Formation of graphene aqueous suspensions using fluorinated surfactant-assisted ultrasonication of pristine graphite. 2015 , 84, 38-46 | 24 |
| 953 | Green synthesis and characterization of graphene nanosheets. 2015 , 63, 51-57 | 151 |
| 952 | Transparent conductive electrodes from graphene/PEDOT:PSS hybrid inks for ultrathin organic photodetectors. 2015 , 27, 669-75 | 215 |
| 951 | Pyrolytic carbon-coated Si nanoparticles on elastic graphene framework as anode materials for high-performance lithium-ion batteries. 2015 , 82, 161-167 | 96 |
| 950 | Characterisation of reduced graphene oxide: Effects of reduction variables on electrical conductivity. 2015 , 193, 49-60 | 199 |
| 949 | Grafting of silane and graphene oxide onto PBO fibers: Multifunctional interphase for fiber/polymer matrix composites with simultaneously improved interfacial and atomic oxygen resistant properties. 2015 , 106, 32-38 | 85 |
| 948 | Novel one-pot green synthesis of graphene in aqueous medium under microwave irradiation using a regenerative catalyst and the study of its electrochemical properties. 2015 , 39, 420-430 | 27 |
| 947 | Graphene oxide-polyamide 6 nanocomposites produced via in situ polymerization. 2015 , 28, 372-389 | 29 |

| | | |
|-----|--|------|
| 946 | Effect of reducing system on capacitive behavior of reduced graphene oxide film: Application for supercapacitor. 2015 , 221, 338-344 | 8 |
| 945 | Graphene Oxide: Physics and Applications. 2015 , | 30 |
| 944 | Novel eco-friendly synthesis of graphene directly from graphite using 2,2,6,6-tetramethylpiperidine 1-oxyl and study of its electrochemical properties. 2015 , 275, 90-98 | 36 |
| 943 | Emerging applications of graphene and its derivatives in carbon capture and conversion: Current status and future prospects. 2015 , 41, 1515-1545 | 45 |
| 942 | Control of doping by matrix in few-layer graphene/metal oxide composites with highly enhanced electrical conductivity. 2015 , 81, 83-90 | 32 |
| 941 | Synergy of oxygen and a piranha solution for eco-friendly production of highly conductive graphene dispersions. 2015 , 17, 869-881 | 18 |
| 940 | Combined effects of defects and hydroxyl groups on the electronic transport properties of reduced graphene oxide. 2015 , 118, 885-892 | 10 |
| 939 | Palladium complex immobilized on graphene oxide/magnetic nanoparticle composites for ester synthesis by aerobic oxidative esterification of alcohols. 2015 , 489, 17-23 | 42 |
| 938 | Synthesis of dimension-controlled silver nanowires for highly conductive and transparent nanowire films. 2015 , 83, 84-90 | 27 |
| 937 | Magnetic Pd/Fe ₃ O ₄ /reduced-graphene oxide nanohybrid as an efficient and recoverable catalyst for Suzuki-Miyaura coupling reaction in water. 2015 , 396, 90-95 | 62 |
| 936 | Fluorinated graphene as high performance dielectric materials and the applications for graphene nanoelectronics. 2014 , 4, 5893 | 114 |
| 935 | Hollow reduced graphene oxide microspheres as a high-performance anode material for Li-ion batteries. 2015 , 153, 540-545 | 19 |
| 934 | All Solution-Processed Chalcogenide Solar Cells [From Single Functional Layers Towards a 13.8% Efficient CIGS Device. 2015 , 25, 12-27 | 73 |
| 933 | Bacteriorhodopsin as a superior substitute for hydrazine in chemical reduction of single-layer graphene oxide sheets. 2015 , 81, 158-166 | 230 |
| 932 | Characterization of iridium dioxide/carbon nanotube nanocomposites grown onto graphene for supercapacitor. 2015 , 619, 131-137 | 23 |
| 931 | One-pot green synthesis of reduced graphene oxide (RGO)/Fe ₃ O ₄ nanocomposites and its catalytic activity toward methylene blue dye degradation. 2015 , 136 Pt B, 256-64 | 137 |
| 930 | Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. 2015 , 7, 4598-810 | 2015 |
| 929 | Langmuir-Blodgett Methodology: A Versatile Technique to Build 2D Material Films. 2016 , | 2 |

| | | |
|-----|---|-----|
| 928 | Application of the Taguchi Method to Optimize Graphene Coatings on Copper Nanoparticles Formed Using a Solid Carbon Source. 2016 , 57, 1177-1182 | 1 |
| 927 | . 2016 , | 66 |
| 926 | Transparent Electrodes: A Review of the Use of Carbon-Based Nanomaterials. 2016 , 2016, 1-12 | 34 |
| 925 | Synthesis of Graphene-Based Nanocomposite and Investigations of Its Thermal and Electrical Properties. 2016 , 2016, 1-9 | 7 |
| 924 | Polymer Nanocomposites-A Comparison between Carbon Nanotubes, Graphene, and Clay as Nanofillers. 2016 , 9, | 413 |
| 923 | Review of Recent Developments on Using an Off-Lattice Monte Carlo Approach to Predict the Effective Thermal Conductivity of Composite Systems with Complex Structures. 2016 , 6, | 10 |
| 922 | Environmental Synthesis of Few Layers Graphene Sheets Using Ultrasonic Exfoliation with Enhanced Electrical and Thermal Properties. 2016 , 11, e0152699 | 29 |
| 921 | Synthesis and applications of carbon nanomaterials for energy generation and storage. 2016 , 7, 149-96 | 86 |
| 920 | Rapid one-step synthesis of conductive and porous MnO ₂ /graphene nanocomposite for high performance supercapacitors. 2016 , 776, 134-138 | 19 |
| 919 | Effect of Amine Adlayer on Electrochemical Uric Acid Sensor Conducted on Electrochemically Reduced Graphene Oxide. 2016 , 37, 276-281 | |
| 918 | Fabrication of Ti ₃ C ₂ T _x MXene Transparent Thin Films with Tunable Optoelectronic Properties. 2016 , 2, 1600050 | 407 |
| 917 | Electrospun poly(3-hexylthiophene)/poly(ethylene oxide)/graphene oxide composite nanofibers: effects of graphene oxide reduction. 2016 , 27, 1465-1475 | 22 |
| 916 | Bismuth Tungstate-Reduced Graphene Oxide Self-Assembled Nanocomposites for the Selective Photocatalytic Oxidation of Alcohols in Water. 2016 , 8, 1399-1409 | 24 |
| 915 | Graphene as Transparent Electrodes: Fabrication and New Emerging Applications. 2016 , 12, 1400-19 | 131 |
| 914 | Ionic Liquid-Assisted Synthesis of TiO ₂ /Carbon Hybrid Nanostructures for Lithium-Ion Batteries. 2016 , 26, 1338-1346 | 91 |
| 913 | Highly Conductive Optical Quality Solution-Processed Films of 2D Titanium Carbide. 2016 , 26, 4162-4168 | 470 |
| 912 | Ultrarobust Transparent Cellulose Nanocrystal-Graphene Membranes with High Electrical Conductivity. 2016 , 28, 1501-9 | 234 |
| 911 | Stretchable conductive films based on carbon nanomaterials prepared by spray coating. 2016 , 133, n/a-n/a | 13 |

| | | |
|-----|---|-----|
| 910 | Glass fiber coated with graphene constructed through electrostatic self-assembly and its application in poly(lactic acid) composite. 2016 , 133, n/a-n/a | 7 |
| 909 | Superelastic, Macroporous Polystyrene-Mediated Graphene Aerogels for Active Pressure Sensing. 2016 , 11, 1071-5 | 32 |
| 908 | A facile fabrication of chemically converted graphene oxide thin films and their uses as absorber materials for solar cells. 2016 , 122, 1 | |
| 907 | Graphene oxide nanocomposites for potential wearable solar cells—A review. 2016 , 31, 1633-1647 | 6 |
| 906 | Improved synthesis and growth of graphene oxide for field effect transistor biosensors. 2016 , 18, 61 | 5 |
| 905 | Using Asphaltene Supermolecules Derived from Coal for the Preparation of Efficient Carbon Electrodes for Supercapacitors. 2016 , 120, 15105-15113 | 32 |
| 904 | Flexible Transparent Reduced Graphene Oxide Sensor Coupled with Organic Dye Molecules for Rapid Dual-Mode Ammonia Gas Detection. 2016 , 26, 4329-4338 | 84 |
| 903 | Novel Composites of γ -Fe ₂ O ₃ Tetraikadecahedron and Graphene Oxide as an Effective Photoelectrode with Enhanced Photocurrent Performances. 2016 , 26, 3331-3339 | 165 |
| 902 | Bendable Solar Cells from Stable, Flexible, and Transparent Conducting Electrodes Fabricated Using a Nitrogen-Doped Ultrathin Copper Film. 2016 , 26, 4180-4191 | 75 |
| 901 | Enhancing Toughness in Boron Carbide with Reduced Graphene Oxide. 2016 , 99, 257-264 | 32 |
| 900 | 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 |
| 899 | Oxidation Prevention Properties of Reduced Graphene Oxide Mixed with 1-Octanethiol-Coated Copper Nanopowder Composites. 2016 , 2016, 1-8 | 1 |
| 898 | Efficient control of ultrafast optical nonlinearity of reduced graphene oxide by infrared reduction. 2016 , 120, 013101 | 31 |
| 897 | Mechanical properties of polymer composites reinforced by functionalized graphene prepared via direct exfoliation of graphite flakes in styrene. 2016 , 6, 112486-112492 | 17 |
| 896 | Competition between deformability and charge transport in semiconducting polymers for flexible and stretchable electronics. 2016 , 3, 021302 | 69 |
| 895 | Determination of Hg ²⁺ in Tap Water Based on the Electrochemiluminescence of Ru(phen) ₃ ²⁺ and Thymine at Bare and Graphene Oxide-Modified Glassy Carbon Electrodes. 2016 , 34, 1297-1303 | 4 |
| 894 | Adsorption behavior of B-doped/N-doped graphene sheets toward NO ₂ , NO and NH ₃ molecules: A first-principles study. 2016 , 14, 1600110 | 7 |
| 893 | Electron beam irradiated silver nanowires for a highly transparent heater. 2015 , 5, 17716 | 40 |

| | | |
|-----|--|----|
| 892 | Optical properties of graphene-based materials in transparent polymer matrices. 2016 , 109, 081905 | 2 |
| 891 | Concurrent Formation of Carbon-Carbon Bonds and Functionalized Graphene by Oxidative Carbon-Hydrogen Coupling Reaction. 2016 , 6, 25824 | 37 |
| 890 | Wafer scale integration of reduced graphene oxide by novel laser processing at room temperature in air. 2016 , 120, 105304 | 18 |
| 889 | Physical investigation of electrophoretically deposited graphene oxide and reduced graphene oxide thin films. 2016 , 120, 195307 | 20 |
| 888 | Robust Room-Temperature Quantum Spin Hall Effect in Methyl-functionalized InBi honeycomb film. 2016 , 6, 23242 | 22 |
| 887 | Material characteristics and equivalent circuit models of stacked graphene oxide for capacitive humidity sensors. 2016 , 6, 035203 | 9 |
| 886 | Functionalization of Graphene Oxide by Two-Step Alkylation. 2016 , 43-52 | |
| 885 | Porous reduced graphene oxide membrane with enhanced gauge factor. 2016 , 108, 013108 | 6 |
| 884 | Nanomaterial resistant microorganism mediated reduction of graphene oxide. 2016 , 146, 39-46 | 11 |
| 883 | A novel Au-loaded magnetic metal organic framework/graphene multifunctional composite: Green synthesis and catalytic application. 2016 , 38, 132-140 | 13 |
| 882 | All-solution-processed multilayer polymer/dendrimer light emitting diodes. 2016 , 35, 164-170 | 17 |
| 881 | Properties of Pristine Graphene Composites Arising from the Mechanism of Graphene-Stabilized Emulsion Formation. 2016 , 55, 6777-6782 | 20 |
| 880 | In situ reduction of iron oxide with graphene for convenient synthesis of various graphene hybrids. 2016 , 107, 138-145 | 12 |
| 879 | Strong and ductile graphene oxide reinforced PVA nanocomposites. 2016 , 684, 254-260 | 92 |
| 878 | Fe ₂ O ₃ nanocrystals-anchored macro/meso-porous graphene as a highly efficient adsorbent toward removal of methylene blue. 2016 , 476, 200-205 | 63 |
| 877 | Effect of laser irradiation on CO gas detecting response of reduced graphene oxide sensor. 2016 , 6, 52817-52825 | |
| 876 | Vacuum-Ultraviolet Promoted Oxidative Micro Photoetching of Graphene Oxide. 2016 , 8, 10627-35 | 20 |
| 875 | Fabrication of manganese dioxide/carbon/attapulgite composites derived from spent bleaching earth for adsorption of Pb(II) and Brilliant green. 2016 , 6, 36534-36543 | 34 |

| | | |
|-----|---|-----|
| 874 | Two new magnetic nanocomposites of graphene and 12-tungstophosphoric acid: characterization and comparison of the catalytic properties in the green synthesis of 1,8-dioxo-octahydroxanthenes. 2016 , 6, 36433-36440 | 6 |
| 873 | Modifications in development of graphene oxide synthetic routes. 2016 , 294, 458-477 | 54 |
| 872 | Deposition Kinetics of Graphene Oxide on Charged Self-Assembled Monolayers. 2016 , 120, 8333-8342 | 9 |
| 871 | Rethinking Coal: Thin Films of Solution Processed Natural Carbon Nanoparticles for Electronic Devices. 2016 , 16, 2951-7 | 33 |
| 870 | Electrical Transport and Network Percolation in Graphene and Boron Nitride Mixed-Platelet Structures. 2016 , 8, 8721-7 | 15 |
| 869 | Semi-transparent, conductive thin films of electrochemical exfoliated graphene. 2016 , 6, 39275-39283 | 15 |
| 868 | Polyethylenimine-Mediated Electrostatic Assembly of MnO ₂ Nanorods on Graphene Oxides for Use as Anodes in Lithium-Ion Batteries. 2016 , 8, 11499-506 | 42 |
| 867 | A DFT and TDDFT investigation of interactions between pyrene and amino acids with cyclic side chains. 2016 , 1081, 49-61 | 3 |
| 866 | Charge Transport Properties of Improved Reduced-Graphene-Oxide-Based Field-Effect Transistors. 2016 , 1-1 | 0 |
| 865 | Graphene/ZIF-8 composites with tunable hierarchical porosity and electrical conductivity. 2016 , 4, 7710-7717 | 93 |
| 864 | Hydrothermal synthesis of graphene nanosheets and its application in electrically conductive adhesives. 2016 , 178, 181-184 | 17 |
| 863 | Effect of post-spinning on the electrical and electrochemical properties of wet spun graphene fibre. 2016 , 6, 46427-46432 | 6 |
| 862 | Electrical characterization and conductivity optimization of laser reduced graphene oxide on insulator using point-contact methods. 2016 , 6, 46231-46237 | 11 |
| 861 | Freestanding graphene nanosheets and large-area/patterned graphene nanofilms from indium-catalyzed graphite. 2016 , 6, 44788-44793 | 3 |
| 860 | PEDOT:PSS Films with Metallic Conductivity through a Treatment with Common Organic Solutions of Organic Salts and Their Application as a Transparent Electrode of Polymer Solar Cells. 2016 , 8, 11629-38 | 147 |
| 859 | Electrostatic Assembly Preparation of High-Toughness Zirconium Diboride-Based Ceramic Composites with Enhanced Thermal Shock Resistance Performance. 2016 , 8, 11675-81 | 21 |
| 858 | Sandwich structure of graphene-protected silicon/carbon nanofibers for lithium-ion battery anodes. 2016 , 210, 53-60 | 57 |
| 857 | Electrocatalytic oxidation behavior of NADH at Pt/Fe ₃ O ₄ /reduced-graphene oxide nanohybrids modified glassy carbon electrode and its determination. 2016 , 67, 237-246 | 15 |

| | | | |
|-----|--|------|----|
| 856 | High Yield Synthesis of Aspect Ratio Controlled Graphenic Materials from Anthracite Coal in Supercritical Fluids. <i>ACS Nano</i> , 2016 , 10, 5293-303 | 16.7 | 51 |
| 855 | CuS nanotrough-networks for highly stable transparent conducting electrodes. 2016 , 4, 4733-4739 | | 12 |
| 854 | Effect of the graphene derived from thermal reduction within matrix on the performance of graphene/poly (methyl methacrylate) composites. 2016 , 120, 215-221 | | 5 |
| 853 | A comparative theoretical study of CO oxidation reaction by O ₂ molecule over Al- or Si-decorated graphene oxide. 2016 , 69, 8-16 | | 8 |
| 852 | Application of graphene in dye and quantum dots sensitized solar cell. 2016 , 137, 531-550 | | 28 |
| 851 | Mixed surfactant modified graphene oxide nanocarriers for DOX delivery to cisplatin-resistant human ovarian carcinoma cells. 2016 , 6, 87258-87269 | | 12 |
| 850 | Transfer-Free Fabrication of Graphene Scaffolds on High-k Dielectrics from Metal-Organic Oligomers. 2016 , 8, 25469-75 | | 1 |
| 849 | . 2018 , | | 7 |
| 848 | . 2018 , | | 18 |
| 847 | GelMa/PEGDA containing graphene oxide as an IPN hydrogel with superior mechanical performance. 2018 , 5, 15790-15799 | | 18 |
| 846 | Structural and ionic conductivity studies of PVA/PVP: KNO ₃ composite polymer electrolyte films. 2018 , 5, 26365-26371 | | 1 |
| 845 | Optimizing phthalocyanine based dye-sensitized solar cells: The role of reduced graphene oxide. 2018 , 246, 236-245 | | 3 |
| 844 | Investigation of surface potentials in reduced graphene oxide flake by Kelvin probe force microscopy. 2018 , 57, 06HD02 | | 1 |
| 843 | Highly Improved Solar Energy Harvesting for Fuel Production from CO by a Newly Designed Graphene Film Photocatalyst. 2018 , 8, 16741 | | 10 |
| 842 | AlGaN Ultraviolet Metal Semiconductor Metal Photodetectors with Reduced Graphene Oxide Contacts. 2018 , 8, 2098 | | 5 |
| 841 | Non-thermal and low-destructive X-ray induced graphene oxide reduction. 2018 , 124, 175303 | | 1 |
| 840 | Thiolated Graphene@Polyester Fabric-Based Multilayer Piezoresistive Pressure Sensors for Detecting Human Motion. 2018 , 10, 41784-41792 | | 62 |
| 839 | Graphene and CNT Based EMI Shielding Materials. 2018 , 241-261 | | 1 |

| | | |
|-----|--|----|
| 838 | Recent Progress in Electromagnetic Absorbing Materials. 2018 , 147-166 | 2 |
| 837 | A brief review on plasma for synthesis and processing of electrode materials. 2018 , 3, 28-47 | 30 |
| 836 | Resonant Rutherford backscattering spectrometric analysis on ion beam reduced graphene oxide. 2018 , | 1 |
| 835 | Carbon Nanostructures as a Multi-Functional Platform for Sensing Applications. 2018 , 6, 60 | 18 |
| 834 | Introduction to Isotopic Materials Science. 2018 , | 0 |
| 833 | Rapid and efficient synthesis of reduced graphene oxide nano-sheets using CO ambient atmosphere as a reducing agent. 2018 , 29, 19402-19412 | 7 |
| 832 | Highly Hydrophobic Electrospun Reduced Graphene Oxide/Poly(vinylidene fluoride-co-hexafluoropropylene) Membranes for Use in Membrane Distillation. 2018 , 57, 14535-14543 | 27 |
| 831 | Control of Electrical and Thermal Transport Properties by Hybridization of Two-Dimensional Tungsten Disulfide and Reduced Graphene Oxide for Thermoelectric Applications. 2018 , 6, 15487-15493 | 4 |
| 830 | Effect of Silver Nanowire Plasmons on Graphene Oxide Coatings Reduction for Highly Transparent Electrodes. 2018 , 2018, 1-7 | 1 |
| 829 | Demonstration of Fowler-Nordheim Tunneling in Simple Solution-Processed Thin Films. 2018 , 10, 36082-36087 | 5 |
| 828 | Electroactive Scaffolds for Neurogenesis and Myogenesis: Graphene-Based Nanomaterials. 2018 , 14, e1801983 | 57 |
| 827 | Carbon nanoscrolls: synthesis and applications. 2018 , 29, 18891-18904 | 5 |
| 826 | High-yield scalable graphene nanosheet production from compressed graphite using electrochemical exfoliation. 2018 , 8, 14525 | 91 |
| 825 | Deposition of engineered nanoparticles (ENPs) on surfaces in aquatic systems: a review of interaction forces, experimental approaches, and influencing factors. 2018 , 25, 33056-33081 | 18 |
| 824 | Advances in Flexible Supercapacitors for Portable and Wearable Smart Gadgets. 2018 , 209-246 | 4 |
| 823 | Electrochemical detection of graphene oxide. 2018 , 96, 77-82 | 14 |
| 822 | Graphene Applications in Advanced Thermal Management. 2018 , 823-865 | |
| 821 | Light sintering of ultra-smooth and robust silver nanowire networks embedded in poly(vinyl-butylal) for flexible OLED. 2018 , 8, 14170 | 28 |

| | | |
|-----|--|----|
| 820 | Synergistic effect of silane and graphene oxide for enhancing the photoelectrochemical water oxidation performance of WO ₃ NS arrays. 2018 , 292, 322-330 | 10 |
| 819 | Ultra-strong polyethyleneimine-graphene oxide nanocomposite film via synergistic interactions and its use for humidity sensing. 2018 , 115, 341-347 | 8 |
| 818 | Determination of the antioxidant propyl gallate in meat by using a screen-printed electrode modified with CoSe nanoparticles and reduced graphene oxide. 2018 , 185, 520 | 17 |
| 817 | The Compromise Between Conductivity and Transparency. 2018 , 1-30 | 1 |
| 816 | Spray-On Reduced Graphene Oxide-Poly(vinyl alcohol) Supercapacitors for Flexible Energy and Power. 2018 , 5, 1801237 | 5 |
| 815 | Large Magnetoresistance and Electrical Transport Properties in Reduced Graphene Oxide Thin Film. 2018 , 54, 1-9 | 23 |
| 814 | Graphene Electrocatalysts for I-Mediated Dye-Sensitized Solar Cells. 2018 , 123-153 | |
| 813 | Atomic and electronic structure of graphene oxide/Cu interface. 2018 , 665, 99-108 | 6 |
| 812 | A New Approach of Fabricating Graphene Nanoplates@Natural Rubber Latex Composite and Its Characteristics and Mechanical Properties. 2018 , 4, 50 | 5 |
| 811 | Dynamic Agitation-Induced Centrifugal Purification of Nanowires Enabling Transparent Electrodes with 99.2% Transmittance. 2018 , 28, 1804479 | 22 |
| 810 | Effect of Low-Temperature Heating on the Properties of Graphene Oxide Aerogel. 2018 , 52, 355-359 | 2 |
| 809 | A novel multifunctional Ag and Sr co-doped TiO@rGO ternary nanocomposite with enhanced -nitrophenol degradation, and bactericidal and hydrogen evolution activity.. 2018 , 8, 31822-31829 | 13 |
| 808 | Reduced graphene oxide decorated with thionine, excellent nanocomposite material for a powerful electrochemical supercapacitor. 2018 , 43, 19102-19110 | 13 |
| 807 | Flexible transparent electrodes for organic light-emitting diodes simply fabricated with AuCl ₃ -modied graphene. 2018 , 63, 71-77 | 15 |
| 806 | Spatially resolved solid-state reduction of graphene oxide thin films. 2018 , 5, 1176-1184 | 10 |
| 805 | Graphene Oxide- Inorganic Composite Membrane: A Review. 2018 , 395, 012005 | 7 |
| 804 | Photothermal reduction of thick graphene oxide multilayer films via direct laser writing: Morphology, structural and chemical properties. 2018 , 122, 36-45 | 11 |
| 803 | Fabrication of magnetic carboxyl-functionalized attapulgite/calcium alginate beads for lead ion removal from aqueous solutions. 2018 , 120, 789-800 | 22 |

| | | |
|-----|--|-----|
| 802 | Limit Cycle Oscillation in Digitally Controlled DC Microgrid. 2018, | |
| 801 | Improved Sampling Efficiency in Particle Filter for Systems with Multi-Step Randomly Delayed Measurements. 2018, | |
| 800 | Electrical, Mechanical, and Electromagnetic Shielding Properties of Silver Nanowire-Based Transparent Conductive Films. 2018, 215, 1800014 | 14 |
| 799 | Improved thermal stability of Al/Ti ₂ /n-Ge ohmic contact by inserting single layer graphene. 2018, | |
| 798 | Catalytic degradation of organophosphorous nerve agent simulants by polymer beads@graphene oxide with organophosphorus hydrolase-like activity based on rational design of functional bimetallic nuclear ligand. 2018, 355, 65-73 | 9 |
| 797 | Highly conductive silver nanowire transparent electrode by selective welding for organic light emitting diode. 2018, 60, 9-15 | 33 |
| 796 | Modification of Carbon-Based Electroactive Materials for Supercapacitor Applications. 2018, 393-413 | 1 |
| 795 | The pH dependent reactions of graphene oxide with small molecule thiols.. 2018, 8, 18388-18395 | 9 |
| 794 | Breakdown of water super-permeation in electrically insulating graphene oxide films: role of dual interlayer spacing. 2018, 29, 325706 | 3 |
| 793 | Optimization of UHMWPE/graphene nanocomposite preparation by single-supported Ziegler-Natta catalytic system via RSM. 2018, 29, 1889-1894 | 7 |
| 792 | Graphene oxide antagonizes the toxic response to arsenic via activation of protective autophagy and suppression of the arsenic-binding protein LEC-1 in <i>Caenorhabditis elegans</i> . 2018, 5, 1711-1728 | 15 |
| 791 | Enhancement of conductivity and transparency for of poly(3,4-ethylenedioxythiophene) films using photo-acid generator as dopant. 2018, 147, 30-37 | 1 |
| 790 | All-Solution-Processed Metal-Oxide-Free Flexible Organic Solar Cells with Over 10% Efficiency. 2018, 30, e1800075 | 127 |
| 789 | Electrolyte-assisted hydrothermal synthesis of holey graphene films for all-solid-state supercapacitors. 2018, 6, 11471-11478 | 46 |
| 788 | The tribological behaviors of polyacrylate/graphene oxide and polyacrylate/surfactant-modified reduced graphene oxide composite coatings on flexible leather substrates. 2018, 122, 64-71 | 20 |
| 787 | Efficient promotion of charge separation with reduced graphene oxide (rGO) in BiVO ₄ /rGO photoanode for greatly enhanced photoelectrochemical water splitting. 2018, 185, 325-332 | 85 |
| 786 | Separation and purification using GO and r-GO membranes.. 2018, 8, 23130-23151 | 52 |
| 785 | Graphene and Graphene Oxide for Fuel Cell Technology. 2018, 57, 9333-9350 | 67 |

| | | |
|-----|--|-----|
| 784 | Graphene as a Material \square An Overview of Its Properties and Characteristics and Development Potential for Practical Applications. 2018, | 8 |
| 783 | Sonochemical Preparation and Subsequent Fixation of Oxygen-Free Graphene Sheets at N,N-Dimethyloctylamine-Aqua Boundary. 2018, 2018, 1-11 | 9 |
| 782 | Biomedical Applications of Graphene Nanomaterials and Beyond. 2018, 4, 2653-2703 | 123 |
| 781 | Carbon and Metal Oxides Based Nanomaterials for Flexible High Performance Asymmetric Supercapacitors. 2018, | 3 |
| 780 | Carbon nanomaterials for electroanalysis in pharmaceutical applications. 2018, 169-225 | 5 |
| 779 | Structural and Electrical Properties of Graphene Oxide-Doped PVA/PVP Blend Nanocomposite Polymer Films. 2018, 2018, 1-11 | 17 |
| 778 | Graphene Oxide-Assisted Accumulation and Layer-by-Layer Assembly of Antibacterial Peptide for Sustained Release Applications. 2018, 10, 24937-24946 | 28 |
| 777 | Properties of a granulated nitrogen-doped graphene oxide aerogel. 2018, 498, 236-243 | 9 |
| 776 | Transparent bifacial a-Si:H solar cells employing silver oxide embedded transparent rear electrodes for improved transparency. 2018, 170, 940-946 | 6 |
| 775 | Tailoring the Thermal and Mechanical Properties of Graphene Film by Structural Engineering. 2018, 14, e1801346 | 70 |
| 774 | Nanoadsorbents-based polymer nanocomposite for environmental remediation. 2018, 243-260 | 4 |
| 773 | High-throughput label-free microcontact printing graphene-based biosensor for valley fever. 2018, 170, 219-223 | 3 |
| 772 | Potential of Graphene for Miniature Sensors and Conducting Devices for Biomedical Applications. 2018, | |
| 771 | Fabrication of free-standing graphene oxide films using a facile approach toluene swollen paraffin peeling and green reduction of these films into highly conductive reduced graphene oxide films. 2018, 354, 149-161 | 9 |
| 770 | The chemistry and topography of stabilized and functionalized graphene oxide coatings. 2018, 15, 1800084 | 8 |
| 769 | Enhanced photocatalytic dye degradation and hydrogen production ability of BiFeO-rGO nanocomposite and mechanism insight. 2018, 8, 11090 | 54 |
| 768 | Graphene Hydrogel Decorated with N, O Co-Doped Carbon Dots for Flexible Supercapacitor Electrodes. 2018, 165, A2217-A2224 | 14 |
| 767 | Mn O /N-Doped Graphite Catalysts from Wastewater for the Degradation of Methylene Blue. 2018, 24, 14554-14559 | 6 |

| | | |
|-----|---|---------|
| 766 | Encapsulation of Microorganisms, Enzymes, and Redox Mediators in Graphene Oxide and Reduced Graphene Oxide. 2018 , 609, 197-219 | 3 |
| 765 | Microwave-Assisted Solvothermal Synthesis of Nanoscaled LiFePO ₄ with Reduced Thickness along [010] Direction. 2018 , 92, 1563-1566 | |
| 764 | Porous Reduced Graphene Oxide Cyclodextrin Modified Electrode as Enhanced Sensing Platform for the Determination of Dihydrochalcone: Phloretin. 2018 , 165, H629-H637 | 3 |
| 763 | Optoelectronics Based Dynamic Advancement of Graphene: Characteristics and Applications. 2018 , 8, 171 | 5 |
| 762 | Influence of process parameters and temperature on the solid state fabrication of multilayered graphene-aluminium surface nanocomposites. 2018 , 34, 486-494 | 20 |
| 761 | Carbon based material included-shaped stabilized phase change materials for sunlight-driven energy conversion and storage: An extensive review. 2018 , 170, 1130-1161 | 93 |
| 760 | One-Step Green Hydrothermal Synthesis of Few-Layer Graphene Oxide from Humic Acid. 2018 , 8, | 20 |
| 759 | One-Step Laser Patterned Highly Uniform Reduced Graphene Oxide Thin Films for Circuit-Enabled Tattoo and Flexible Humidity Sensor Application. 2018 , 18, | 21 |
| 758 | Graphene oxide liquid crystals: a frontier 2D soft material for graphene-based functional materials. 2018 , 47, 6013-6045 | 88 |
| 757 | Strong, Conductive, Foldable Graphene Sheets by Sequential Ionic and Bridging. 2018 , 30, e1802733 | 53 |
| 756 | In Situ Observation of Resistive Switching in an Asymmetric Graphene Oxide Bilayer Structure. <i>ACS Nano</i> , 2018 , 12, 7335-7342 | 16.7 25 |
| 755 | Adsorption of Monocyclic Carbon Rings on Graphene: Energetics Revealed via Continuum Modeling. 2018 , 3, 7542-7554 | 11 |
| 754 | Facile Preparation of Tannic Acid-Poly(vinyl alcohol)/Sodium Alginate Hydrogel Beads for Methylene Blue Removal from Simulated Solution. 2018 , 3, 7523-7531 | 55 |
| 753 | Langmuir-Blodgett Deposition of Graphene Oxide-Identifying Marangoni Flow as a Process that Fundamentally Limits Deposition Control. 2018 , 34, 9683-9691 | 14 |
| 752 | New insights into chemical and electrochemical functionalization of graphene oxide electrodes by o-phenylenediamine and their potential applications. 2018 , 53, 15285-15297 | 7 |
| 751 | A review on the very high nanofiller-content nanocomposites: Their preparation methods and properties with high aspect ratio fillers. 2018 , 86, 1-39 | 62 |
| 750 | Fabrication, characterization and application of layered graphene oxide films via layer-by-layer electric-assembly. 2018 , 213, 455-460 | 6 |
| 749 | Highly robust and ultrasmooth copper nanowire electrode by one-step coating for organic light-emitting diodes. 2018 , 6, 9158-9165 | 13 |

| | | |
|-----|---|----|
| 748 | Effect of graphene on the absorption of methanol and crack healing in poly(methyl methacrylate)-based composites. 2018 , 14, 7526-7533 | |
| 747 | Rho GTPases in A549 and Caco-2 cells dominating the endocytic pathways of nanocarbons with different morphologies. 2018 , 13, 4391-4404 | 6 |
| 746 | Study of optical properties of graphene oxide and its derivatives using spectroscopic ellipsometry. 2018 , 124, 1 | 6 |
| 745 | Ultrathin film of carboxylated graphene at air-water and air-solid interfaces. 2018 , 13, 37-45 | 2 |
| 744 | Core-shell MoS ₂ @graphene composite microspheres as stable anodes for Li-ion batteries. 2018 , 42, 15340-15345 | 10 |
| 743 | Efficient assembly of high-performance reduced graphene oxide/silver nanowire transparent conductive film based on in situ light-induced reduction technology. 2018 , 459, 732-740 | 19 |
| 742 | Graphene oxide films for field effect surface passivation of silicon for solar cells. 2018 , 187, 189-193 | 44 |
| 741 | Tough and deformable glasses with bioinspired cross-ply architectures. 2018 , 75, 439-450 | 27 |
| 740 | Electrical Conductivity of Films Formed by Few-Layer Graphene Structures. 2018 , 91, 388-391 | 2 |
| 739 | A free-standing laser energy converter based on energetic graphene oxide for enhanced photothermal ignition. 2018 , 6, 13761-13768 | 10 |
| 738 | Low Cost High Performance Electrodes for Supercapacitors: Graphene Oxide Nanoribbons Incorporated in Carbon Paste Electrodes. 2018 , 7, M83-M88 | 1 |
| 737 | Wonder material graphene: properties, synthesis and practical applications. 2018 , 4, 573-602 | 8 |
| 736 | Polymeric Graphene Bulk Materials with a 3D Cross-Linked Monolithic Graphene Network. 2019 , 31, e1802403 | 52 |
| 735 | The potential application of graphene nanotechnology for renewable energy systems. 2019 , 59-80 | 2 |
| 734 | Ultrasensitive Optical Detection of Water Pressure in Microfluidics Using Smart Reduced Graphene Oxide Glass. 2019 , 7, 395 | 8 |
| 733 | A facile approach to synthesis graphene oxide/bismuth oxide nanocomposites and their superior sunlight driven photocatalytic activity. 2019 , 197, 163035 | 3 |
| 732 | Raman spectroscopy coupled with AFM scan head: A versatile combination for tailoring graphene oxide/reduced graphene oxide hybrid materials. 2019 , 495, 143539 | 19 |
| 731 | FUNCTIONALIZED GRAPHENE-BASED MATERIALS AS INNOVATIVE ADSORBENTS OF ORGANIC POLLUTANTS: A CONCISE OVERVIEW. 2019 , 36, 1-31 | 34 |

| | | |
|-----|--|-----|
| 730 | Design and application of nanoporous graphene oxide film for CO ₂ , H ₂ , and C ₂ H ₂ gases sensing. 2019 , 8, 4510-4520 | 34 |
| 729 | Lead ruthenate nanocrystals on reduced graphene oxides as an efficient bifunctional catalyst for metal-air batteries. 2019 , 79, 409-417 | 0 |
| 728 | Recent progress in the synthesis of graphene and derived materials for next generation electrodes of high performance lithium ion batteries. 2019 , 75, 100786 | 247 |
| 727 | Multidimensional Co-Exfoliated Activated Graphene-Based Carbon Hybrid for Supercapacitor Electrode. 2019 , 7, 1900578 | 5 |
| 726 | Ag Layer Thickness Dependency of Electrical and Optical Properties of SiZnSnO/Ag/SiZnSnO Multilayer for High Performance and In-Free Transparent Conducting Electrode. 2019 , 20, 417-419 | 1 |
| 725 | Moisture-Responsive Graphene Actuators Prepared by Two-Beam Laser Interference of Graphene Oxide Paper. 2019 , 7, 464 | 13 |
| 724 | Capacitance of graphene films: effect of the number of layers of the constituent graphene flakes. 2019 , 23, 2281-2290 | 3 |
| 723 | Molecular dynamics simulation of interface-mediated GO-GO interaction at the air-water interface. 2019 , 291, 111340 | 1 |
| 722 | Room temperature ammonia gas sensor using ester functionalization of graphene oxide. 2019 , 6, 095618 | 4 |
| 721 | A review on synthesis of graphene, h-BN and MoS ₂ for energy storage applications: Recent progress and perspectives. 2019 , 12, 2655-2694 | 156 |
| 720 | Reduced graphene oxide and PEG-grafted TEMPO-oxidized cellulose nanocrystal reinforced poly-lactic acid nanocomposite film for biomedical application. 2019 , 104, 109956 | 30 |
| 719 | One-step hydrothermal synthesis of In ₂ S ₃ nanoparticles doped graphene oxide hybrids as efficient counter electrodes in dye-sensitized solar cells. 2019 , 494, 1-7 | 6 |
| 718 | Graphene-Based Nanomaterials: From Production to Integration With Modern Tools in Neuroscience. 2019 , 13, 26 | 11 |
| 717 | Ultra-light, high flexible and efficient CNTs/Ti ₃ C ₂ -sodium alginate foam for electromagnetic absorption application. 2019 , 35, 2859-2867 | 30 |
| 716 | Rapid and scalable fabrication of reduced graphene oxide conducting films by ethanol-assisted thermal annealing of graphene oxide. 2019 , 58, S11B07 | 14 |
| 715 | Synthesis, Properties, and Applications of Graphene. 2019 , 25-90 | 7 |
| 714 | 2-Dimensional rGO introduced PMN-PT and P(VDF-TrFE) flexible films for enhanced piezoelectric energy harvester. 2019 , 494, 1000-1006 | 14 |
| 713 | Nitrogenated holey graphene (C ₂ N) surface as highly selective electrochemical sensor for ammonia. 2019 , 296, 111929 | 39 |

| | | |
|-----|---|-----|
| 712 | Facile deposition of reduced graphene oxide-based transparent conductive film with microwave assisted method. 2019 , 692, 137618 | 7 |
| 711 | State-of-the-art advancements in studies and applications of graphene: a comprehensive review. 2019 , 6, 100026 | 5 |
| 710 | Electrically sintered silver nanowire networks for use as transparent electrodes and heaters. 2019 , 6, 116316 | 7 |
| 709 | Liquid-Gated Transistors Based on Reduced Graphene Oxide for Flexible and Wearable Electronics. 2019 , 29, 1905375 | 19 |
| 708 | Kupferkatalysierte Triborierung: Einfache, atomökonomische Synthese von 1,1,1-Triborylalkanen aus terminalen Alkinen und HBpin. 2019 , 131, 19099-19103 | 2 |
| 707 | Assessment of wastewater on-line monitoring system in an important industrial park in Tianjin, China. 2019 , 349, 012031 | |
| 706 | 2D Metal Carbides and Nitrides (MXenes). 2019 , | 130 |
| 705 | Electrochemically Reduced Graphene Oxide: A Smart Material for Electrochemical Sensing. 2019 , 603-629 | 2 |
| 704 | Laser Direct-Writing Graphene Oxide to Graphene Mechanisms to Applications. 2019 , 237-287 | 0 |
| 703 | Graphene-Based Materials for Supercapacitors and Conductive Additives of Lithium Ion Batteries. 2019 , 219-298 | |
| 702 | Self- and Directed-Assembly of Metallic and Nonmetallic Fluorophors: Considerations into Graphene and Graphene Oxides for Sensing and Imaging Applications. 2019 , 469-505 | 1 |
| 701 | Graphene-Based Sensors: Applications in Electrochemical (Bio)sensing. 2019 , 349-369 | 2 |
| 700 | Facile and highly efficient preparation of semi-transparent, patterned and large-sized reduced graphene oxide films by electrochemical reduction on indium tin oxide glass surface. 2019 , 692, 137626 | 3 |
| 699 | Enhanced Epoxy/GO Composites Mechanical and Thermal Properties by Removing Air Bubbles with Shear Mixing and Ultrasonication. 2019 , 4, 11417-11425 | 2 |
| 698 | Gold nano-mesh synthesis by continuous-flow X-ray irradiation. 2019 , 26, 1929-1935 | 1 |
| 697 | Graphene Nano Sheet Fabrication Using Light. 2019 , 7, 1094-1099 | 1 |
| 696 | Continuous flow photolytic reduction of graphene oxide. 2019 , 55, 11438-11441 | 7 |
| 695 | Performance Enhancement of Solar Cell by Incorporating Bilayer RGO-ITO Smart Conducting Antireflection Coating. 2019 , 3, 1800109 | 2 |

| | | |
|-----|--|----|
| 694 | A study of synergistic effect on oxygen reduction activity and capacitive performance of NiCo ₂ O ₄ /rGO hybrid catalyst for rechargeable metal-air batteries and supercapacitor applications. 2019 , 176, 107327 | 17 |
| 693 | Reduced Graphene Oxide-NiO Photocathodes for p-Type Dye-Sensitized Solar Cells. 2019 , 2, 7345-7353 | 12 |
| 692 | Recent progress of solution-processed Cu nanowires transparent electrodes and their applications.. 2019 , 9, 26961-26980 | 7 |
| 691 | Electrochemical performance enhancement of flexible graphene supercapacitor electrodes by carbon dots modification and NiCo ₂ S ₄ electrodeposition. 2019 , 809, 151802 | 21 |
| 690 | Effects of reduction temperatures on morphological, optical, and electrical properties of reduced graphene oxide (rGO) thin films. 2019 , 16, 1702-1707 | 1 |
| 689 | Graphene oxide mitigates endocrine disruption effects of bisphenol A on zebrafish at an early development stage. 2019 , 697, 134158 | 7 |
| 688 | Effect of aspect ratio of graphene oxide on properties of poly (vinyl alcohol) nanocomposites. 2019 , 5, 84-93 | 14 |
| 687 | Cross-nanoflower CoS ₂ in-situ self-assembled on rGO sheet as advanced anode for lithium/sodium ion battery. 2019 , 326, 134992 | 25 |
| 686 | Electronic and optoelectronic applications of solution-processed two-dimensional materials. 2019 , 20, 992-1009 | 8 |
| 685 | Effects of solution chemistry on the attachment of graphene oxide onto clay minerals. 2019 , 21, 506-513 | 12 |
| 684 | Lanthanide complexes as molecular dopants for realizing air-stable n-type graphene logic inverters with symmetric transconductance. 2019 , 6, 743-750 | 6 |
| 683 | Bio-interfactants as double-sided tapes for graphene oxide. 2019 , 11, 4236-4247 | 3 |
| 682 | Layer-by-Layer Grown Electrodes Composed of Cationic Fe ₃ O ₄ Nanoparticles and Graphene Oxide Nanosheets for Electrochemical Energy Storage Devices. 2019 , 123, 3393-3401 | 24 |
| 681 | UV-Induced reduction of graphene oxide in cellulose nanofibril composites. 2019 , 43, 681-688 | 27 |
| 680 | Graphene oxide/nanometal composite membranes for nanofiltration: synthesis, mass transport mechanism, and applications. 2019 , 43, 2846-2860 | 9 |
| 679 | The impact of processing on the cytotoxicity of graphene oxide. 2019 , 1, 817-826 | 15 |
| 678 | Broadband ultrafast nonlinear optical studies revealing exciting multi-photon absorption coefficients in phase pure zero-dimensional CsPbBr perovskite films. 2019 , 11, 945-954 | 41 |
| 677 | Binder-free graphene oxide doughs. 2019 , 10, 422 | 24 |

| | | |
|-----|---|----|
| 676 | Unraveling the Enhancement of the Interfacial Compatibility between Metal-Organic Framework and Functionalized Graphene Oxide. 2019 , 123, 4984-4993 | 4 |
| 675 | Graphene based self-healing materials. 2019 , 146, 371-387 | 34 |
| 674 | Dual-carbon confined SnO ₂ as ultralong-life anode for Li-ion batteries. 2019 , 45, 7830-7838 | 23 |
| 673 | Water-dispersible graphene-wrapped MnO ₂ nanospheres and their applications in coin cell supercapacitors. 2019 , 25, 4425-4436 | 3 |
| 672 | Photoelectrochemical Nanosensors. 2019 , 197-229 | 1 |
| 671 | Enhanced photoresponsivity in carbon quantum dots-coupled graphene/silicon Schottky-junction photodetector. 2019 , 16, 076201 | 15 |
| 670 | Hollow MoS ₂ /rGO composites as high-performance anode materials for lithium-ion batteries. 2019 , 25, 4659-4666 | 8 |
| 669 | Mechanical Properties of Films of Graphene Oxide Doped with Chitosan. 2019 , 93, 538-541 | 1 |
| 668 | Polymer Composites: Reinforcing Fillers. 2019 , 1-72 | 4 |
| 667 | Room-temperature-operated fast and reversible vertical-heterostructure-diode gas sensor composed of reduced graphene oxide and AlGa _N /Ga _N . 2019 , 296, 126684 | 23 |
| 666 | Understanding the relative efficacies and versatile roles of 2D conductive nanosheets in hybrid-type photocatalyst. 2019 , 257, 117875 | 14 |
| 665 | Mechanics of Strong and Tough Cellulose Nanopaper. 2019 , 71, | 48 |
| 664 | Graphene as a Transparent and Conductive Electrode for Organic Optoelectronic Devices. 2019 , 5, 1900247 | 18 |
| 663 | Nanosurfer flash-mobs: electric-field-choreographed silver migration on graphene oxide. 2019 , 1, 2180-2187 | 2 |
| 662 | Enhanced deoxygenation efficiency of graphene oxide under solid-state microwave irradiation via chemical pre-reduction. 2019 , 97, 107445 | 6 |
| 661 | Effect of graphene interlayer on resistance spot welded AISI-1008 steel joints. 2019 , 6, 0865c3 | 12 |
| 660 | Amphiphilic Graphene Aerogel with High Oil and Water Adsorption Capacity and High Contact Area for Interface Reaction. 2019 , 11, 22794-22800 | 30 |
| 659 | Multifunctional Slow-Release Fertilizer Prepared from Lignite Activated by a 3D-Molybdate-Sulfur Hierarchical Hollow Nanosphere Catalyst. 2019 , 7, 10533-10543 | 16 |

| | | |
|-----|---|----|
| 658 | Simulation and optimization of layer thickness of amorphous oxide SiZO/Ag/SiZO multilayer to enhance transmittance of transparent electrodes without sacrificing sheet resistance. 2019 , 798, 622-627 | 5 |
| 657 | Facile situ synthesis of C@SnO ₂ /Sn@rGO hybrid nanosheets as high performance anode materials for lithium-ion batteries. 2019 , 801, 402-408 | 18 |
| 656 | Influence of functional groups on the degradation of graphene oxide nanomaterials. 2019 , 6, 2203-2214 | 33 |
| 655 | Voltammetric determination of the antimalarial drug chloroquine using a glassy carbon electrode modified with reduced graphene oxide on WS quantum dots. 2019 , 186, 415 | 17 |
| 654 | Inkjet printed graphene as an interconnect for optoelectronic devices. 2019 , 30, 12500-12509 | 5 |
| 653 | Evaluation of a Nanocomposite Based on Reduced Graphene Oxide and Gold Nanoparticles as an Electrochemical Platform for Detection of Sulfamethazine. 2019 , 3, 59 | 5 |
| 652 | Highly Easy and Low Cost Fabrication of Graphite-based Flexible Transparent Conducting Film. 2019 , 1204, 012084 | 2 |
| 651 | Scalable Synthesis of Highly Conductive Graphene-Based Thin Film for Supercapacitor Application. 2019 , 18, 494-501 | 4 |
| 650 | Flexible and ultrathin polyelectrolyte conductive coatings formed with reduced graphene oxide as a base for advanced new materials. 2019 , 484, 501-510 | 6 |
| 649 | Multilayer hybrid nanosheet of mesoporous carbon layered metal oxide as a highly efficient electrocatalyst for LiD ₂ batteries. 2019 , 254, 523-530 | 18 |
| 648 | Preparation of graphene oxide and alkali lignin nanohybrids and its application to reinforcing polymer. 2019 , 53, 649-664 | 4 |
| 647 | Facile production of silver-reduced graphene oxide nanocomposite with highly effective antibacterial performance. 2019 , 7, 103160 | 13 |
| 646 | Bending Effects in Graphene: Implication for Flexible Transparent Electronics. 2019 , 256, 1900095 | 3 |
| 645 | Graphene Fibers: Advancing Applications in Sensor, Energy Storage and Conversion. 2019 , 37, 535-547 | 14 |
| 644 | First-principles calculations of B/N co-doped graphene for sensing NO and NO ₂ molecules. 2019 , 113, 121-129 | 3 |
| 643 | Efficient Conversion of Lignin Waste to High Value Bio-Graphene Oxide Nanomaterials. 2019 , 11, | 11 |
| 642 | Photovoltaic Characteristics of Multiwalled Carbon Nanotube Counter-Electrode Materials for Dye-Sensitized Solar Cells Produced by Chemical Treatment and Addition of Dispersant. 2019 , 9, 250 | 8 |
| 641 | Functionalized Carbon Materials for Electronic Devices: A Review. 2019 , 10, | 42 |

| | | |
|-----|--|----|
| 640 | Development of Direct-Laser-Printable Light-Powered Nanocomposites. 2019 , 11, 19541-19553 | 31 |
| 639 | Emerging Trends in the Syntheses of Heterocycles Using Graphene-based Carbocatalysts: An Update. 2019 , 377, 13 | 10 |
| 638 | Structural Recovery of Highly Oxidized Single-Walled Carbon Nanotubes Fabricated by Kneading and Electrochemical Applications. 2019 , 31, 3468-3475 | 18 |
| 637 | Transition Metal Dichalcogenide Anchored in 3D Nickel Framework with Graphene Support for Efficient Electrocatalytic Hydrogen Evolution. 2019 , 3, 1800168 | 5 |
| 636 | One-step and low-temperature deposited Ag nanowires/TiO _x hybrid transparent conductive thin film and its application in antistatic coating. 2019 , 6, 076430 | 7 |
| 635 | Thermal characteristics of epoxy composites with graphite and alumina. 2019 , 676, 115-119 | 6 |
| 634 | An in situ formed graphene oxide/polyacrylic acid composite cage on silicon microparticles for lithium ion batteries via an esterification reaction. 2019 , 7, 12763-12772 | 20 |
| 633 | Graphene Oxide Films Obtained by Vacuum Filtration: X-Ray Diffraction Evidence of Crystalline Reorganization. 2019 , 2019, 1-12 | 40 |
| 632 | A Flexible e-skin based on micro-structured PZT thin films prepared via a low-temperature PLD method. 2019 , 7, 4760-4769 | 18 |
| 631 | Cationic Porphyrin-Graphene Oxide Hybrid: Donor-Acceptor Composite for Efficient Photoinduced Electron Transfer. 2019 , 20, 1054-1066 | 11 |
| 630 | Thermo-Responsive Graphene Oxide/Poly(Ethyl Ethylene Phosphate) Nanocomposite via Ring Opening Polymerization. 2019 , 9, | 9 |
| 629 | General Self-Assembly Method for Deposition of Graphene Oxide into Uniform Close-Packed Monolayer Films. 2019 , 35, 4460-4470 | 7 |
| 628 | Effects of low-molecular weight organic acids on the transport of graphene oxide nanoparticles in saturated sand columns. 2019 , 666, 94-102 | 22 |
| 627 | Mordant inspired wet-spinning of graphene fibers for high performance flexible supercapacitors. 2019 , 7, 6869-6876 | 27 |
| 626 | The dual effects of RGO films in TiO ₂ /CdSe heterojunction: Enhancing photocatalytic activity and improving photocorrosion resistance. 2019 , 481, 1515-1523 | 25 |
| 625 | Electrochemical intercalation of MoO ₃ -MoS ₂ composite electrodes: Charge storage mechanism of non-hydrated cations. 2019 , 307, 176-187 | 18 |
| 624 | Self-assembly design and synthesis of pulp fiber/graphene for flexible and high performance electrode based on polyacrylamide. 2019 , 43, 6394-6403 | 3 |
| 623 | Efficient Production of High-Quality Polystyrene-Functionalized Graphene via Graphite Exfoliation in Chloroform with a Heterobifunctional Hyperbranched Polyethylene as Stabilizer. 2019 , 220, 1800577 | 3 |

| | | |
|-----|--|-----|
| 622 | Graphene and graphene derivatives toughening polymers: Toward high toughness and strength. 2019 , 370, 831-854 | 137 |
| 621 | Spectroscopic studies to investigate the effect of different plasma parameters on the geometrical and electronic structure of graphene. 2019 , 115, 433-440 | 2 |
| 620 | One-Dimensional Metal Nanostructures: From Colloidal Syntheses to Applications. 2019 , 119, 8972-9073 | 148 |
| 619 | Analysis of enhanced hole transport in naphthalene dicarboxyimide (NDI)-based n-type polymer field-effect transistors using solution-processed reduced graphene oxide electrodes. 2019 , 481, 52-58 | 1 |
| 618 | Transparent Electrothermal Heaters Based on Vertically-Oriented Graphene Glass Hybrid Materials. 2019 , 9, | 4 |
| 617 | Recent developments in graphene-based polymer composite membranes: Preparation, mass transfer mechanism, and applications. 2019 , 136, 47761 | 24 |
| 616 | Electronic, electrical and magnetic behaviours of reduced graphene-oxide functionalized with silica coated gold nanoparticles. 2019 , 483, 106-113 | 13 |
| 615 | Nanoscale mapping of noise-source-controlled hopping and tunneling conduction in domains of reduced graphene oxide. 2019 , 148, 326-335 | 3 |
| 614 | Graphene based adsorbents for remediation of noxious pollutants from wastewater. 2019 , 127, 160-180 | 246 |
| 613 | Electrospun metal oxide nanofibrous mat as a transparent conductive layer. 2019 , 70, 131-139 | 11 |
| 612 | Laser transmission welding and surface modification of graphene film for flexible supercapacitor applications. 2019 , 483, 481-488 | 27 |
| 611 | Recent Progress of Graphene-Based Photoelectrode Materials for Dye-Sensitized Solar Cells. 2019 , 2019, 1-16 | 18 |
| 610 | Effect of graphene-derivatives on the responsivity of PNIPAM-based thermosensitive nanocomposites [A review]. 2019 , 116, 106-116 | 9 |
| 609 | Simultaneous Silicon Oxide Growth and Electrophoretic Deposition of Graphene Oxide. 2019 , 35, 3717-3723 | 4 |
| 608 | Review of carbon-based electrode materials for supercapacitor energy storage. 2019 , 25, 1419-1445 | 172 |
| 607 | The impact of graphene oxide on cementitious composites. 2019 , 69-95 | 1 |
| 606 | Effects of Reduced Graphene Oxide (rGO) at Different Concentrations on Tribological Properties of Liquid Base Lubricants. 2019 , 7, 11 | 9 |
| 605 | High performance hybrid supercapacitor based on doped zucchini-derived carbon dots and graphene. 2019 , 12, 198-207 | 49 |

| | | |
|-----|---|-----|
| 604 | A review of polymeric nanocomposite membranes for water purification. 2019 , 73, 19-46 | 151 |
| 603 | Applications of graphene oxide in case of nanomedicines and nanocarriers for biomolecules: review study. 2019 , 51, 12-41 | 41 |
| 602 | Highly Conductive Graphene Paper with Vertically Aligned Reduced Graphene Oxide Sheets Fabricated by Improved Electro Spray Deposition Technique. 2019 , 11, 10810-10817 | 27 |
| 601 | Engineered Coffee-rings of reduced graphene oxide as ultrathin contact guidance to enable patterning of living cells. 2019 , 6, 1066-1079 | 19 |
| 600 | Removal of Tetracycline Pollutants by Adsorption and Magnetic Separation Using Reduced Graphene Oxide Decorated with Fe ₃ O ₄ Nanoparticles. 2019 , 9, | 39 |
| 599 | Metal-Organic Frameworks (MOFs) Compositing with Nanomaterials for Next-Generation Supercapacitive Energy Storage Devices. 2019 , 811-831 | 2 |
| 598 | Controllable synthesis of hollow microspheres with Fe@Carbon dual-shells for broad bandwidth microwave absorption. 2019 , 147, 172-181 | 82 |
| 597 | Study of the initial stages of deposition of graphene-like films by sublimation of amorphous carbon. 2019 , | |
| 596 | Modification of carbon black by thermal treatment in air-atmosphere. 2019 , | 2 |
| 595 | Recent progress in 2D group IV-IV monochalcogenides: synthesis, properties and applications. 2019 , 30, 252001 | 52 |
| 594 | Largely enhanced oxidation of graphite flakes via ammonium persulfate-assisted gas expansion for the preparation of graphene oxide sheets. 2019 , 146, 618-626 | 19 |
| 593 | ECAISS 2019 Organizing Committee. 2019 , | |
| 592 | Simulation modelling for productivity improvement of sorting process in a ceramic plant. 2019 , | |
| 591 | Grating Coupler Biosensor with a Low Refractive Index Buffer Layer for Bulk and Surface Sensitivity Enhancements. 2019 , | |
| 590 | Computational Comparison Between MPC and SR-MPC For Fast Dynamic System in Presence of Hard Constraints. 2019 , | 0 |
| 589 | Absorption Behavior of Graphene Nanoplates toward Oils and Organic Solvents in Contaminated Water. 2019 , 11, 7228 | 3 |
| 588 | Propagation Process of Streamers and Time History of Reduced Electric Field During Nanosecond Pulsed Discharge in Coaxial Electrode in Atmospheric Air. 2019 , | |
| 587 | Symposium on Services Computing Program Committee. 2019 , | |

| | | |
|-----|--|----|
| 586 | Non-Planarization Cu-Cu Direct Bonding and Gang Bonding with Low Temperature and Short Duration in Ambient Atmosphere. 2019 , | 1 |
| 585 | Counting Devices: Revisiting Existing Approaches in Today's Settings. 2019 , | 1 |
| 584 | Mechanically strong and electrically conductive multilayer MXene nanocomposites. 2019 , 11, 20295-20300 | 52 |
| 583 | Synthesis of high surface area porous carbon from anaerobic digestate and its electrochemical study as an electrode material for ultracapacitors.. 2019 , 9, 36343-36350 | 8 |
| 582 | RGO induced structural and microstructural properties of P3HT in the performance and stability of polymer solar cells. 2019 , 6, 125338 | 3 |
| 581 | Chitosan-Derived Porous Activated Carbon for the Removal of the Chemical Warfare Agent Simulant Dimethyl Methylphosphonate. 2019 , 9, | 5 |
| 580 | Simultaneous detection of acetaminophen and 4-aminophenol with an electrochemical sensor based on silver-palladium bimetal nanoparticles and reduced graphene oxide.. 2019 , 9, 31440-31446 | 13 |
| 579 | Solution-processable reduced graphene oxide template layer for molecular orientation control of organic semiconductors.. 2019 , 9, 32940-32945 | 4 |
| 578 | Carbon Nanomaterials for Targeted Cancer Therapy Drugs: A Critical Review. 2019 , 19, 502-522 | 34 |
| 577 | Carbon-Based Photocathode Materials for Solar Hydrogen Production. 2019 , 31, e1801446 | 54 |
| 576 | PEGylated doxorubicin cloaked nano-graphene oxide for dual-responsive photochemical therapy. 2019 , 557, 66-73 | 25 |
| 575 | An enzyme-free sensitive electrochemical microRNA-16 biosensor by applying a multiple signal amplification strategy based on Au/PPy-rGO nanocomposite as a substrate. 2019 , 196, 329-336 | 35 |
| 574 | Efficient Fractionation of Graphene Oxide Based on Reversible Adsorption of Polymer and Size-Dependent Sodium Ion Storage. 2019 , 11, 2218-2224 | 3 |
| 573 | One-step growth of reduced graphene oxide on arbitrary substrates. 2019 , 144, 457-463 | 10 |
| 572 | Enhanced detoxification of p-bromophenol by novel Zr/Ag-TiO ₂ @rGO ternary composite: Degradation kinetics and phytotoxicity evolution studies. 2019 , 170, 355-362 | 23 |
| 571 | Electrically Conductive Thin Films Derived from Bulk Graphite and Liquid-Liquid Interface Assembly. 2019 , 6, 1801570 | 10 |
| 570 | Facile synthesis of copper sulfide decorated reduced graphene oxide nanocomposite for high sensitive detection of toxic antibiotic in milk. 2019 , 52, 382-390 | 54 |
| 569 | Continuous Langmuir-Blodgett Deposition and Transfer by Controlled Edge-to-Edge Assembly of Floating 2D Materials. 2019 , 35, 51-59 | 28 |

| | | |
|-----|--|-----|
| 568 | Laser-derived graphene: A three-dimensional printed graphene electrode and its emerging applications. 2019 , 24, 81-102 | 86 |
| 567 | Transparent Conductive Electrodes Based on Graphene-Related Materials. 2018 , 10, | 29 |
| 566 | Reduced Graphene Oxide/Refined Cu Matrix Composites: An Experimental and First-Principles Study. 2019 , 54, 1800191 | 0 |
| 565 | Applications of 2D MXenes in energy conversion and storage systems. 2019 , 48, 72-133 | 878 |
| 564 | Highly reliable copper nanowire electrode with enhanced transmittance and robustness for organic light emitting diodes. 2019 , 65, 70-76 | 7 |
| 563 | Asymmetric finger-shape metallization in Graphene-on-Si solar cells for enhanced carrier trapping. 2019 , 91, 13-21 | 7 |
| 562 | A review of three-dimensional graphene-based materials: Synthesis and applications to energy conversion/storage and environment. 2019 , 143, 610-640 | 124 |
| 561 | A simple two-step fabrication route for Cu composite reinforced by three-dimensional graphene network. 2019 , 70, 484-488 | 4 |
| 560 | Surface roughness regulation of reduced-graphene oxide/iodine - Based electrodes and their application in polymer solar cells. 2019 , 540, 272-284 | 13 |
| 559 | Bacterial cellulose nanocomposites: An all-nano type of material. 2019 , 98, 1277-1293 | 98 |
| 558 | Reduced Graphene Oxide-Nanostructured Silicon Photosensors with High Photoresponsivity at Room Temperature. 2019 , 2, 2086-2098 | 3 |
| 557 | Conductive cotton fabric through thermal reduction of graphene oxide enhanced by commercial antioxidants used in the plastics industry. 2019 , 26, 2191-2199 | 10 |
| 556 | Effective reduction of graphene oxide via a hybrid microwave heating method by using mildly reduced graphene oxide as a susceptor. 2019 , 473, 222-229 | 29 |
| 555 | Wetting-Induced Climbing for Transferring Interfacially Assembled Large-Area Ultrathin Pristine Graphene Film. 2019 , 31, e1806742 | 13 |
| 554 | Scalable modulation of reduced graphene oxide properties via regulating graphite oxide precursors. 2019 , 782, 17-27 | 6 |
| 553 | Effect of the synthesis method on the properties of lithium doped graphene oxide composites with tin oxide nanoparticles: Towards white luminescence. 2019 , 129, 133-139 | 4 |
| 552 | Sonocatalytic decolorization of methylene blue from aqueous media by La:ZnO/GO nanocomposites. 2019 , 45, 1985-2005 | 5 |
| 551 | Ink-based 3D printing technologies for graphene-based materials: a review. 2019 , 2, 1-33 | 97 |

| | | |
|-----|---|-----|
| 550 | Application of Hybrid rGO-ITO Bilayer TCO on a-Si Solar Cell for Performance Enhancement. 2019 , 9, 12-17 | 4 |
| 549 | Efficient Welding of Silver Nanowires embedded in a Poly(vinylidene fluoride) Film for Robust Wearable Electronics. 2019 , 4, 1800438 | 8 |
| 548 | Simultaneous intercalated assembly of mesostructured hybrid carbon nanofiber/reduced graphene oxide and its use in electrochemical sensing. 2019 , 30, 025601 | 3 |
| 547 | Thermal Properties of Polymer/Carbon Nanocomposites. 2019 , 235-270 | 2 |
| 546 | Morphology and Spectroscopy of Polymer/Carbon Composites. 2019 , 295-338 | |
| 545 | Edge-Functionalized Graphene Nanoplatelets as Metal-Free Electrocatalysts for Dye-Sensitized Solar Cells. 2019 , 31, e1804440 | 29 |
| 544 | Incorporation of magnetic nanoparticle to graphene oxide via simple emulsion method and their cytotoxicity. 2019 , 9, 43-48 | 4 |
| 543 | Electrooxidation of formic acid enhanced by surfactant-free palladium nanocubes on surface modified graphene catalyst. 2019 , 471, 176-184 | 9 |
| 542 | Effect of alkyl chain length grafted to graphene nanoplatelets on the characteristics of polypropylene nanocomposites. 2019 , 59, 752-756 | 3 |
| 541 | Electrical and optical responses of composite films based on N,N-dimethylamino-4-(N-methylstilbazolium 2,4,6-trimethylbenzenesulfonate (DSTMS)-graphene. 2019 , 30, 1699-1705 | |
| 540 | Engineering of ZnO/rGO nanocomposite photocatalyst towards rapid degradation of toxic dyes. 2019 , 223, 456-465 | 74 |
| 539 | Preparation and characterization of thiosemicarbazide functionalized graphene oxide as nanoadsorbent sheets for removal of lead cations. 2019 , 16, 6207-6216 | 7 |
| 538 | Effect of MnO ₂ :rGO ratio on the performance of a microbial fuel cell: An experimental optimization study. 2019 , 41, 600-610 | 5 |
| 537 | A review of graphene based transparent conducting films for use in solar photovoltaic applications. 2019 , 99, 83-99 | 52 |
| 536 | Effect of hydrogen peroxide on properties of graphene oxide in Hummers method. 2019 , 141, 515-522 | 93 |
| 535 | Facile synthesis of graphene oxide-silver nanocomposite for decontamination of water from multiple pollutants by adsorption, catalysis and antibacterial activity. 2019 , 230, 199-211 | 55 |
| 534 | Graphene and MXene-based transparent conductive electrodes and supercapacitors. 2019 , 16, 102-125 | 217 |
| 533 | Atom-Thick Membranes for Water Purification and Blue Energy Harvesting. 2020 , 30, 1902394 | 25 |

- 532 High capacitive rGO/WO₃ nanocomposite: the simplest and fastest route of preparing it. **2020**, 10, 165-175 6
- 531 DFT study of non-covalent interaction mechanisms of solvents with GO surfaces and the solvent-mediated GO interaction. **2020**, 499, 143926 2
- 530 Direct patterning of reduced graphene oxide/graphene oxide memristive heterostructures by electron-beam irradiation. **2020**, 38, 237-243 8
- 529 Highly antibacterial rGO/Cu₂O nanocomposite from a biomass precursor: Synthesis, performance, and mechanism. **2020**, 2, 172-179 10
- 528 Synthesis of graphene oxide doped poly(2-acrylamido-2-methyl propane sulfonic acid) [GO@p(AMPS)] composite hydrogel with pseudo-plastic thixotropic behavior. **2020**, 77, 3921-3935 11
- 527 A taurine-functionalized 3D graphene-based foam for electrochemical determination of hydrogen peroxide. **2020**, 208, 120356 8
- 526 Preparation, characterization and tribological properties of polyalphaolefin with magnetic reduced graphene oxide/Fe₃O₄. **2020**, 141, 105952 24
- 525 Robust sandwiched fluorinated graphene for highly reliable flexible electronics. **2020**, 499, 143839 10
- 524 Copper(II)-Cyclodextrin and CuO functionalized graphene oxide composite for fast removal of thiophenic sulfides with high efficiency. **2020**, 228, 115385 7
- 523 Nd:YAG pulsed laser production of reduced-graphene oxide as hole transporting layer in polymer solar cells and the influences of solvent type. **2020**, 76, 105459 6
- 522 Solution-based, flexible, and transparent patterned reduced graphene oxide electrodes for lab-on-chip applications. **2020**, 31, 075302 12
- 521 Graphene related materials for thermal management. **2020**, 7, 012001 82
- 520 Controllable synthesis of MoS₂/graphene low-dimensional nanocomposites and their electrical properties. **2020**, 504, 144193 6
- 519 A molecular dynamics study on the interfacial properties of carbene-functionalized graphene/polymer nanocomposites. **2020**, 16, 387-400 9
- 518 Room temperature ammonia gas sensor using Meta Toluic acid functionalized graphene oxide. **2020**, 240, 121922 18
- 517 Assessment on the mechanical, structural, and thermal attributes of green graphene-based water soluble polymer electrolyte composites. **2020**, 137, 48376 1
- 516 Aluminum Matrix Composites Reinforced with Graphene: A Review on Production, Microstructure, and Properties. **2020**, 45, 289-337 27
- 515 Free chlorine induced phototransformation of graphene oxide in water: Reaction kinetics and product characterization. **2020**, 381, 122609 13

| | | |
|-----|--|----|
| 514 | Anticorrosion reinforcement of waterborne polyacrylate coating with nano-TiO ₂ loaded graphene. 2020 , 137, 48733 | 4 |
| 513 | A Natural Light Visible Colorimetric Responses Fluorescent Probe for Hydrazine Detection. 2020 , 36, 323-327 | 8 |
| 512 | Bi ₄ TaO ₈ Cl/Graphene nanocomposite for photocatalytic water splitting. 2020 , 31, 381-386 | 2 |
| 511 | Polymer Electrolytes for Supercapacitor and Challenges. 2020 , 231-297 | 5 |
| 510 | Green and sono synthetic approach for direct-functionalization of reduced graphene oxide with poly(styrene-alt-maleic anhydride) by Diels Alder Reaction. 2020 , 504, 144482 | 1 |
| 509 | Photoinduced Directional Proton Transport through Printed Asymmetric Graphene Oxide Superstructures: A New Driving Mechanism under Full-Area Light Illumination. 2020 , 30, 1907549 | 13 |
| 508 | Graphene oxide reduction using green chemistry. 2020 , 26, 3327-3331 | 5 |
| 507 | Modified reduced graphene oxide as stabilizer for Pickering w/o emulsions. 2020 , 55, 1946-1958 | 6 |
| 506 | Fe ₃ O ₄ @rGO hybrids intercalated nanocellulose-based aerogels for enhanced ferromagnetic and mechanical properties. 2020 , 137, 48564 | 3 |
| 505 | Facilely prepared layer-by-layer graphene membrane-based pressure sensor with high sensitivity and stability for smart wearable devices. 2020 , 45, 241-247 | 17 |
| 504 | Highly Conductive Graphene Electronics by Inkjet Printing. 2020 , 49, 1765-1776 | 9 |
| 503 | Ultrahigh Ion-Selective and Durable Nafion-NdZr Composite Layer Membranes for All-Vanadium Redox Flow Batteries. 2020 , 8, 1998-2007 | 24 |
| 502 | Controllable Assembly of Hybrid Electrodes by Electrophoretic Deposition for High-Performance Battery/Supercapacitor Hybrid Devices. 2020 , 3, 1784-1793 | 11 |
| 501 | Physical properties and device applications of graphene oxide. 2020 , 15, 1 | 56 |
| 500 | Efficient Cd/Ce nanoparticles supported on reduced graphene oxide for the reduction of 4-nitrophenol and the oxidation of olefins: Experimental and theoretical study. 2020 , 125, 110773 | 3 |
| 499 | Asymmetric configuration of pseudocapacitive composite and rGO electrodes for enhanced capacitive deionization. 2020 , 6, 392-403 | 12 |
| 498 | Copper nanowires in recent electronic applications: progress and perspectives. 2020 , 8, 849-872 | 24 |
| 497 | Highly flexible and conductive sodium carboxymethyl cellulose/silver nanowires composite films. 2020 , 31, 2353-2359 | 5 |

| | | |
|-----|--|-----|
| 496 | Sensitive detection of low-concentration sulfide based on the synergistic effect of rGO, np-Au, and recombinant microbial cell. 2020 , 151, 111985 | 4 |
| 495 | Two-Dimensional Transition Metal Carbides and Nitrides (MXenes): Synthesis, Properties, and Electrochemical Energy Storage Applications. 2020 , 3, 29-55 | 148 |
| 494 | High performance flexible transparent conductive electrode based on ZnO/AgOx/ZnO multilayer. 2020 , 696, 137759 | 8 |
| 493 | Urea and cow urine-based green approach to fabricate graphene-based transparent conductive films with high conductivity and transparency. 2020 , 242, 122465 | 12 |
| 492 | Electrical and Optical Properties of Flexible SiInZnO/Ag/SiInZnO Multilayer Electrodes. 2020 , 21, 117-122 | 3 |
| 491 | Photocatalytic reduction for graphene oxide by PbTiO with high polarizability and its electrocatalytic application in pyrrole detection. 2020 , 560, 502-509 | 7 |
| 490 | Plastic three-dimensional nanocarbon-polyacrylic acid sponges with high volumetric capacitance for Li-ion capacitor. 2020 , 26, e00223 | 1 |
| 489 | Readily Dispersible Chemically Functionalized Reduced Graphene Oxide Nanosheets for Solution-Processable Electrodes and Conductive Coatings. 2020 , 3, 11455-11464 | 1 |
| 488 | Broadband optical power limiting with the decoration of TiO ₂ nanoparticles on graphene oxide. 2020 , 109, 110366 | 6 |
| 487 | Enhanced cryogenic mechanical properties of carbon fiber reinforced epoxy composites by introducing graphene oxide. 2020 , 22, 100480 | 14 |
| 486 | Investigation of a new graphene strain sensor based on surface plasmon resonance. 2020 , 10, 16870 | 3 |
| 485 | Correlative Microscopy Insight on Electrodeposited Ultrathin Graphite Oxide Films. 2020 , 11, 9117-9122 | 3 |
| 484 | Effect of graphene on microstructure and mechanical properties of U-MIG-welded galvanized steel. 2020 , 31, 20332-20344 | 0 |
| 483 | Poly(lactic Acid)-Graphene Oxide-based Materials for Loading and Sustained Release of Poorly Soluble Pesticides. 2020 , 36, 12336-12345 | 10 |
| 482 | Galvanic Replacement of Liquid Metal/Reduced Graphene Oxide Frameworks. 2020 , 7, 2000626 | 18 |
| 481 | Fast and cost-effective room temperature synthesis of high quality graphene oxide with excellent structural intactness. 2020 , 25, e00198 | 0 |
| 480 | Transparent and flexible high-power supercapacitors based on carbon nanotube fibre aerogels. 2020 , 12, 16980-16986 | 12 |
| 479 | Structural, impedance and electrochemical double-layer capacitor characteristics of improved number density of charge carrier electrolytes employing potato starch blend polymers. 2020 , 26, 5773-5804 | 15 |

| | | | |
|-----|---|------|-----|
| 478 | Review of fabrication methods of large-area transparent graphene electrodes for industry. 2020 , 13, 91-113 | | 13 |
| 477 | Fiber Composites Made of Low-Dimensional Carbon Materials. 2020 , | | |
| 476 | Computational study of the water-driven graphene wrinkle life-cycle towards applications in flexible electronics. 2020 , 10, 11315 | | 2 |
| 475 | Recent developments in carbon-based two-dimensional materials: synthesis and modification aspects for electrochemical sensors. 2020 , 187, 441 | | 21 |
| 474 | An Ab-initio competitive study of adsorption mechanism of lightest alkali and halide elements towards the ALC - Monolayer. 2020 , | | 1 |
| 473 | Reduced Graphene Oxide-Based Foam as an Endocrine Disruptor Adsorbent in Aqueous Solutions. 2020 , 10, | | 2 |
| 472 | Predicted Confinement-Enhanced Stability and Extraordinary Mechanical Properties for Carbon Nanotube Wrapped Chains of Linear Carbon. <i>ACS Nano</i> , 2020 , | 16.7 | 10 |
| 471 | True Meaning of Pseudocapacitors and Their Performance Metrics: Asymmetric versus Hybrid Supercapacitors. 2020 , 16, e2002806 | | 142 |
| 470 | Synergistic effects of Janus graphene oxide and surfactants on the heavy oil/water interfacial tension and their application to enhance heavy oil recovery. 2020 , 314, 113791 | | 22 |
| 469 | Advances on Emerging Materials for Flexible Supercapacitors: Current Trends and Beyond. 2020 , 30, 2002993 | | 39 |
| 468 | Preparation of hexagonal boron nitride doped graphene film modified sensor for selective electrochemical detection of nicotine in tobacco sample. 2020 , 1132, 110-120 | | 17 |
| 467 | Enhanced toughness and strength of boron carbide ceramics with reduced graphene oxide fabricated by hot pressing. 2020 , 46, 26511-26520 | | 4 |
| 466 | Human virus detection with graphene-based materials. 2020 , 166, 112436 | | 74 |
| 465 | Rapid Reduction of Graphene Oxide Thin Films on Large-Area Silicon Substrate. 2020 , 1535, 012027 | | |
| 464 | Graphene Coating for Enhancing the Atom Oxygen Erosion Resistance of Kapton. 2020 , 10, 644 | | 2 |
| 463 | Graphene oxide and reduced graphene oxide: Efficient cargo platforms for cancer theranostics. 2020 , 60, 101974 | | 19 |
| 462 | Study of the Reduction of Fe on Reduced Graphene Oxide as a Catalyst for Carbon Monoxide Reduction. 2020 , 835, 130-134 | | 1 |
| 461 | Functionalized GO/polysulfide rubber composites with excellent comprehensive properties based interfacial optimum design. 2020 , 198, 108234 | | 9 |

| | | |
|-----|---|-----|
| 460 | Effect of exfoliation medium on the morphology of multi-layer graphene oxide and its importance for Poly(Ethylene terephthalate) based nanocomposites. 2020 , 90, 106742 | 7 |
| 459 | Three-Dimensional Binary-Conductive-Network Silver Nanowires@Thiolated Graphene Foam-Based Room-Temperature Self-Healable Strain Sensor for Human Motion Detection. 2020 , 12, 44360-44370 | 39 |
| 458 | 3D Graphene Materials: From Understanding to Design and Synthesis Control. 2020 , 120, 10336-10453 | 117 |
| 457 | Microfluidic-Oriented Synthesis of Graphene Oxide Nanosheets toward High Energy Density Supercapacitors. 2020 , 34, 11519-11526 | 8 |
| 456 | Research and Application Progress Based on the Interfacial Properties of Graphene Oxide. 2020 , 7, 2000881 | 6 |
| 455 | Disentangling the liquid phase exfoliation of two-dimensional materials: an "" perspective. 2020 , 22, 22157-22179 | 8 |
| 454 | Defect Detection in Graphene Preparation Based on Near-Field Scanning Microwave Microscopy. 2020 , 30, 757-760 | 0 |
| 453 | Nanostructured Graphene Oxide-Based Hybrids as Anodes for Lithium-Ion Batteries. 2020 , 6, 81 | 4 |
| 452 | Graphene Oxide-Based Nanohybrids as Pesticide Biosensors: Latest Developments. 2020 , | |
| 451 | Carbon Allotropes as ITO Electrode Replacement Materials in Liquid Crystal Devices. 2020 , 6, 80 | 2 |
| 450 | Relationship between surface hydrophobicity and flux for membrane separation.. 2020 , 10, 40043-40046 | 0 |
| 449 | Coordinating capillary infiltration with anodic oxidation: a multi-functional strategy for electrochemical fabrication of graphene.. 2020 , 10, 43324-43333 | |
| 448 | Tunable Wettability and Conductivity of the Graphene Oxide Surface with Insights from Density Functional Theory and Molecular Dynamics Investigations. 2020 , 124, 10541-10549 | 6 |
| 447 | MOF-derived (MoS ₂ , FeO)/graphene Z-scheme photocatalysts with excellent activity for oxygen evolution under visible light irradiation.. 2020 , 10, 17154-17162 | 8 |
| 446 | Theranostics Application of Graphene-Based Materials in Cancer Imaging, Targeting and Treatment. 2020 , | 1 |
| 445 | A Polymeric Composite Material (rGO/PANI) for Acid Blue 129 Adsorption. 2020 , 12, | 3 |
| 444 | Tiled Monolayer Films of 2D Molybdenum Disulfide Nanoflakes Assembled at Liquid/Liquid Interfaces. 2020 , 12, 25125-25134 | 5 |
| 443 | Understanding the Role of Oxidative Debris on the Structure of Graphene Oxide Films at the Air-Water Interface: A Neutron Reflectivity Study. 2020 , 12, 25453-25463 | 8 |

| | | |
|-----|--|----|
| 442 | Graphene-PVDF flexible nanohybrids for supercapacitor application. 2020 , | 1 |
| 441 | High-performance transparent conductive pyrolyzed carbon (Py-C) ultrathin film. 2020 , 8, 9243-9251 | 3 |
| 440 | Effect of graphene oxide dispersion in antiferroelectric liquid crystal mixture in the verge of SmC* to SmCA* phase transition. 2020 , 67, 91-106 | 3 |
| 439 | An ultra-effective pathway for fully removing the oxygen components of graphene oxide by a flame-assisted microwave process. 2020 , 49, 6964-6968 | 2 |
| 438 | Effect of External Magnetic Field on Hybrid Supercapacitors of Nitrogen-Doped Graphene with Magnetic Metal Oxides. 2020 , 93, 1139-1149 | 14 |
| 437 | Origin of optical bandgap fluctuations in graphene oxide. 2020 , 93, 1 | 2 |
| 436 | Low resistance, high mobility reduced graphene oxide films prepared with commercial antioxidant supplements. 2020 , 276, 128176 | 4 |
| 435 | Graphene Oxide Functionalized with Cationic Porphyrins as Materials for the Photodegradation of Rhodamine B. 2020 , 124, 15769-15780 | 14 |
| 434 | Transparent Supercapacitors: From Optical Theories to Optoelectronics Applications. 2020 , 3, 265-285 | 6 |
| 433 | Functional Nanomaterials. 2020 , | 10 |
| 432 | Graphene Foam (GF)/Manganese Oxide (MnO ₂) Nanocomposites for High Performance Supercapacitors. 2020 , 30, 101575 | 10 |
| 431 | Authentication Protocols in Internet of Vehicles: Taxonomy, Analysis, and Challenges. 2020 , 8, 54314-54344 | 34 |
| 430 | Output-Constrained Robust Sliding Mode Based Nonlinear Active Suspension Control. 2020 , 67, 10652-10662 | 19 |
| 429 | Preparation of graphene. 2020 , 39-171 | 0 |
| 428 | Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. 2020 , 113, 100665 | 37 |
| 427 | Band gap of reduced graphene oxide tuned by controlling functional groups. 2020 , 8, 4885-4894 | 43 |
| 426 | A novel hafnium-graphite oxide catalyst for the Meerwein-Ponndorf-Verley reaction and the activation effect of the solvent.. 2020 , 10, 9985-9995 | 7 |
| 425 | A Decomposition-Based Local Search for Large-Scale Many-Objective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows. 2020 , 14, 5253-5264 | 3 |

| | | |
|-----|---|--------|
| 424 | Photosynergetic Electrochemical Synthesis of Graphene Oxide. 2020 , 142, 6516-6520 | 24 |
| 423 | An improved metal cation capture on polymer with graphene oxide synthesized by gamma radiation. 2020 , 151, 104564 | 10 |
| 422 | Thermal Property Studies of In Situ Blended Graphene/Nature Rubber Nanocomposites. 2020 , 2020, 1-7 | 1 |
| 421 | Recent Advances in 2D MXenes for Photodetection. 2020 , 30, 2000907 | 74 |
| 420 | Specific Sensing Mechanism Investigation of Surface Acoustic Wave Humidity Sensors Coated With Uniform Graphene Oxide Membrane. 2020 , 29, 348-356 | 7 |
| 419 | Solution-Processed and Transparent Graphene Oxide/TiO _x Gas Barrier via an Interfacial Photocatalytic Reduction. 2020 , 7, 1901318 | 1 |
| 418 | Chemical and Temperature Sensors Based on Functionalized Reduced Graphene Oxide. 2020 , 8, 43 | 2 |
| 417 | Tuning ratios of KOH and NaOH on acetic acid-mediated chitosan-based porous carbons for improving their textural features and CO ₂ uptakes. 2020 , 40, 101212 | 30 |
| 416 | Magnetic cellulose microcrystals with tunable magneto-optical responses. 2020 , 20, 100749 | 8 |
| 415 | Electronic devices based on solution-processed two-dimensional materials. 2020 , 351-384 | 2 |
| 414 | High-yield water-phase exfoliated few-defect graphene for high performance polymer nanocomposites. 2020 , 137, 49586 | 1 |
| 413 | Synthesis of CuO/graphene nanocomposite material and the effect of gamma radiation on CuO/graphene/p-Si junction diode. 2020 , 31, 12715-12724 | 13 |
| 412 | Nano-Zn ₂ SnO ₄ /Reduced Graphene Oxide Composites for enhanced photocatalytic performance. 2020 , 254, 123505 | 2 |
| 411 | Reduced graphene oxides-wrapped ZnO with notable photocatalytic property. 2020 , 112, 337-344 | 14 |
| 410 | Graphene-based nanocomposites and their fabrication, mechanical properties and applications. 2020 , 12, 100815 | 27 |
| 409 | Revisiting the Feld's Friendship Paradox in Online Social Networks. 2020 , 8, 24062-24071 | |
| 408 | Synthesis of Three-Dimensional Graphene-Based Materials for Applications in Energy Storage. 2020 , 72, 2445-2459 | 6 |
| 407 | Direct Growth of Wafer-Scale, Transparent, p-Type Reduced-Graphene-Oxide-like Thin Films by Pulsed Laser Deposition. <i>ACS Nano</i> , 2020 , 14, 3290-3298 | 16.7 6 |

- 406 Ultrasensitive ppb-level H₂S gas sensor at room temperature based on WO₃/rGO hybrids. **2020**, 31, 5008-50168
- 405 Resistance spot welding of dissimilar AISI-1008 steel/Al-1100 alloy lap joints with a graphene interlayer. **2020**, 53, 260-274 17
- 404 Functionalization of partially reduced graphene oxide by metal complex as electrode material in supercapacitor. **2020**, 46, 2595-2612 5
- 403 Effect of TiO₂ content on the properties of polysulfone nanofiltration membranes modified with a layer of TiO₂/graphene oxide. **2020**, 242, 116770 31
- 402 Catalytic Properties of Chemically Modified Graphene Sheets to Enhance Etching of Ge Surface in Water. **2020**, 124, 6121-6129 6
- 401 Bio-inspired self-folding strategy to break the trade-off between strength and ductility in carbon-nanoarchitected materials. **2020**, 6, 10
- 400 Revealing the Improved Catalytic Properties of Modified Graphene-like Structures. **2020**, 10, 2119 2
- 399 Upgrading of furans from in situ catalytic fast pyrolysis of xylan by reduced graphene oxide supported Pt nanoparticles. **2020**, 152, 94-101 6
- 398 Graphene-based buffer layers for light-emitting diodes. **2020**, 99-116
- 397 State of the Art in Alcohol Sensing with 2D Materials. **2020**, 12, 33 29
- 396 Filler matrix interfaces of inorganic/biopolymer composites and their applications. **2020**, 95-112 3
- 395 Rosmarinus officinalis directed palladium nanoparticle synthesis: Investigation of potential anti-bacterial, anti-fungal and Mizoroki-Heck catalytic activities. **2020**, 31, 1402-1411 43
- 394 Pyrolysis mechanisms of graphene oxide revealed by ReaxFF molecular dynamics simulation. **2020**, 509, 145247 17
- 393 Hybrid Energy Storage Device: Combination of Zinc-Ion Supercapacitor and Zinc-Air Battery in Mild Electrolyte. **2020**, 12, 7239-7248 43
- 392 Solution-Processable 2D Materials Applied in Light-Emitting Diodes and Solar Cells. **2020**, 5, 1900972 25
- 391 An Integro-Differential Time-Domain Scheme for Electromagnetic Field Modeling in HTS Materials. **2020**, 56, 1-4 1
- 390 Three-dimensional nanocomposite of graphene/MWCNT hydrogel grafted with Ni₂O hydroxide nanorods as high-performance electrode for asymmetric supercapacitor. **2020**, 346, 136258 7
- 389 Self-powered forest fire alarm system based on impedance matching effect between triboelectric nanogenerator and thermosensitive sensor. **2020**, 73, 104843 35

| | | |
|-----|--|----|
| 388 | Hyperbranched lutecium phthalocyanines grafted ethylenediamine@graphene oxide with enhanced nonlinear optical properties. 2020 , 24, 1038-1046 | 0 |
| 387 | Optimized Design of SiInZnO/Ag/SiInZnO Transparent Conductive Electrode by Using Optical Admittance Simulation. 2020 , 21, 324-328 | 1 |
| 386 | Preparation of graphene electrode. 2020 , 27-57 | |
| 385 | Study of the effect of chemical composition on the surface wettability of three-dimensional graphene foams. 2020 , 31, 1839-1842 | 4 |
| 384 | Development of hydrophobic reduced graphene oxide as a new efficient approach for photochemotherapy.. 2020 , 10, 12851-12863 | 28 |
| 383 | Reducing graphene oxide using hydroiodic acid fumes and low temperature annealing for enhanced electrical conductivity. 2020 , 5, 19-25 | 5 |
| 382 | Controlling Long-Distance Photoactuation with Protein Additives. 2020 , 16, e2000043 | 11 |
| 381 | Resistance Spot Welding of Similar and Dissimilar Metals: The Effect of Graphene Interlayer. 2020 , 72, 2863-2874 | 7 |
| 380 | Using Hybridized techniques for Prediction of Software Maintainability using Imbalanced data. 2020 , | |
| 379 | Study of Optical and Electrical Properties of Graphene Oxide. 2021 , 36, 730-735 | 2 |
| 378 | Recent advancement made in the field of reduced graphene oxide-based nanocomposites used in the energy storage devices: A review. 2021 , 33, 102032 | 19 |
| 377 | Mechanically flexible, super-hydrophobic and flame-retardant hybrid nano-silica/graphene oxide wide ribbon decorated sponges for efficient oil/water separation and fire warning response. 2021 , 140, 106191 | 34 |
| 376 | Rapid synthesis of a hybrid of rGO/AuNPs/MWCNTs for sensitive sensing of 4-aminophenol and acetaminophen simultaneously. 2021 , 413, 813-820 | 7 |
| 375 | Materials Used Within Polymer Matrix Composites (PMCs) and PCM Production Via Additive Manufacturing. 2021 , 837-846 | 3 |
| 374 | Preparation of titania-reduced graphene oxide composite coatings with electro- and photosensitive properties. 2021 , 538, 148029 | 3 |
| 373 | Boosting lithium storage by facile functionalization of graphene oxide nanosheets via 2-aminoanthraquinone. 2021 , 171, 104-110 | 5 |
| 372 | Addition of small amounts of graphene oxide in the polyol during the synthesis of waterborne polyurethane urea adhesives for improving their adhesion properties. 2021 , 104, 102725 | 10 |
| 371 | Graphene film for thermal management: A review. 2021 , 3, 1-16 | 17 |

- 370 Photocatalytic degradation of bisphenol A by TiO₂@aspartic acid- β -cyclodextrin@reduced graphene oxide. **2021**, 254, 117574 17
- 369 rGO/N-porous carbon composites for enhanced CO₂ capture and energy storage performances. **2021**, 857, 157534 10
- 368 Application of graphene-metal/conductive polymer based composites in supercapacitors?. **2021**, 33, 102037 14
- 367 Silicon nanowires/reduced graphene oxide nanocomposite based novel sensor platform for detection of cyclohexane and formaldehyde. **2021**, 123, 105571 13
- 366 Rational design, synthesis, and application of silica/graphene-based nanocomposite: A review. **2021**, 198, 109367 17
- 365 A graphene oxide Cookbook: Exploring chemical and colloidal properties as a function of synthesis parameters. **2021**, 588, 725-736 4
- 364 Evolution of cellulose acetate to monolayer graphene. **2021**, 174, 24-35 9
- 363 Inorganic Nanomaterials for Photothermal-Based Cancer Theranostics. **2021**, 4, 2000207 5
- 362 Determination of carcinoembryonic antigen as a tumor marker using a novel graphene-based label-free electrochemical immunosensor. **2021**, 613, 114017 22
- 361 A Review on Graphene Oxide Two-dimensional Macromolecules: from Single Molecules to Macro-assembly. **2021**, 39, 267-308 16
- 360 Review and perspective of materials for flexible solar cells. **2021**, 1, 100001 15
- 359 Failing Forward: Stability of Transparent Electrodes Based on Metal Nanowire Networks. **2021**, 33, e2004356 25
- 358 Holey nitrogen-doped graphene aerogel for simultaneously electrochemical determination of ascorbic acid, dopamine and uric acid. **2021**, 224, 121851 21
- 357 Reduced Graphene Oxide for Advanced Energy Applications. **2021**, 115-130 0
- 356 Graphene-Based Advanced Membrane Applications in Organic Solvent Nanofiltration. **2021**, 31, 2006949 29
- 355 Two-dimensional material separation membranes for renewable energy purification, storage, and conversion. **2021**, 6, 193-211 19
- 354 Graphene-encapsulated blackberry-like porous silicon nanospheres prepared by modest magnesiothermic reduction for high-performance lithium-ion battery anode. **2021**, 40, 383-392 35
- 353 Molecular Control of Interfacial Fibronectin Structure on Graphene Oxide Steers Cell Fate. **2021**, 13, 2346-2359 6

| | | |
|-----|---|----|
| 352 | Tuning the electro-optical properties of nanowire networks. 2021 , 13, 15369-15379 | 1 |
| 351 | Eco-friendly graphene oxide-based magnesium oxide nanocomposite synthesis using fungal fermented by-products and gamma rays for outstanding antimicrobial, antioxidant, and anticancer activities. 2021 , 11, 301-321 | 8 |
| 350 | Solution-processed two-dimensional materials for next-generation photovoltaics. 2021 , 50, 11870-11965 | 21 |
| 349 | Functional materials for various organic electronic devices. 2021 , 119-165 | 2 |
| 348 | Synthesis and Characterization of Graphene Oxide Under Different Conditions, and a Preliminary Study on its Efficacy to Adsorb Cu ²⁺ . 2021 , 6, 10-16 | |
| 347 | Production of reduced graphene oxide from glucose via hydrothermal route: the crucial role of the evolved byproduct gases in deoxygenating the graphitic structure. 2021 , 36, 896-905 | |
| 346 | Nanocomposites of PEDOT:PSS with Graphene and its Derivatives for Flexible Electronic Applications: A Review. 2021 , 306, 2000716 | 17 |
| 345 | Graphene oxide affects growth and physiological indexes in <i>Larix olgensis</i> seedlings and the soil properties of Haplic Cambisols in Northeast China. 2021 , 28, 20869-20882 | 5 |
| 344 | Plant-Based Natural Dye-Stimulated Visible-Light Reduction of GO and Physicochemical Factors Influencing the Production of Oxidizing Species by a Synthesized (rGO)/TiO Nanocomposite for Environmental Remediation. 2021 , 6, 2686-2698 | 2 |
| 343 | Graphene oxide-based nanocomposites for adsorptive removal of water pollutants. 2021 , 431-448 | 1 |
| 342 | Organic sensitization of graphene oxide and reduced graphene oxide thin films for photovoltaic applications. 2021 , 45, 9657-9666 | 6 |
| 341 | Two-dimensional TiC MXene-based nanostructures for emerging optoelectronic applications. 2021 , 8, 2929-2963 | 7 |
| 340 | A novel brain-computer interface flexible electrode material with magnetorheological properties. | |
| 339 | Kinetics of the thermal reduction process in graphene oxide thin films from in-situ transport measurements. 2021 , 8, 015601 | 2 |
| 338 | An overview: recent development of semiconductor/graphene nanocomposites for photodegradation of phenol and phenolic compounds in aqueous solution. 2021 , 9, 1-23 | 4 |
| 337 | Recent advancements in transparent carbon nanotube films: chemistry and imminent challenges. 2021 , 11, 93-130 | 17 |
| 336 | ZnO nanorods/FeO-graphene oxide/metal-organic framework nanocomposite: recyclable and robust photocatalyst for degradation of pharmaceutical pollutants. 2021 , 28, 21799-21811 | 3 |
| 335 | Structural and functional applications of 3D-printed graphene-based architectures. 2021 , 56, 9007-9046 | 5 |

| | | |
|-----|--|----|
| 334 | Study on preparation of graphene oxide thin film layers: the electrical and dielectric characteristics of Au/GO/n-type Si junction structures. 2021 , 32, 7913-7925 | 6 |
| 333 | Plasma Assisted Reduction of Graphene Oxide Films. 2021 , 11, | 3 |
| 332 | A review on optoelectronic device applications of 2D transition metal carbides and nitrides. 2021 , 200, 109452 | 10 |
| 331 | Review of Graphene in Cathode Materials for Lithium-Ion Batteries. 2021 , 35, 3572-3580 | 10 |
| 330 | Controlled fabrication of biocompatible graphene oxide Langmuir-Blodgett films by size and surface property manipulation. 1-12 | |
| 329 | Molecular Insight into the Adsorption Thermodynamics and Interfacial Behavior of GOs at the Liquid-Liquid Interface. 2021 , 125, 1924-1935 | 3 |
| 328 | Graphene oxide-silver nanoparticle hybrid material: an integrated nanosafety study in zebrafish embryos. 2021 , 209, 111776 | 8 |
| 327 | Evolution of structural and electrical properties in coal-derived graphene oxide nanomaterials during high-temperature annealing. 2021 , 112, 108244 | 5 |
| 326 | Stretchable Energy Storage Devices Based on Carbon Materials. 2021 , 17, e2005015 | 12 |
| 325 | Comparison of the Electrode Properties of Graphene Oxides Reduced Chemically, Thermally, or via Microwave Irradiation. 2021 , 57, 262-268 | 0 |
| 324 | Improvements of Organic Light-Emitting Diodes Using Graphene as an Emerging and Efficient Transparent Conducting Electrode Material. 2021 , 9, 2002102 | 3 |
| 323 | Liquid-Exfoliated 2D Materials for Optoelectronic Applications. 2021 , 8, e2003864 | 23 |
| 322 | Interlayer Separation in Graphene Paper Comprising Electrochemically Exfoliated Graphene. 2021 , 11, | 1 |
| 321 | Graphene: A promising candidate for charge regulation in high-performance lithium-ion batteries. 2021 , 14, 4370 | 8 |
| 320 | Effect of graphite and graphene oxide on thorium carbide microstructural and thermal properties. 2021 , 11, 9058 | 1 |
| 319 | Fabrication of high-conductivity RGO film at a temperature lower than 1500 °C by electrical current. 2021 , 32, 11727-11736 | 1 |
| 318 | Conductive Nanofilms with Oppositely Charged Reduced Graphene Oxides as a Base for Electroactive Coatings and Sensors. 2021 , 5, 20 | 1 |
| 317 | Flexible and Wearable Graphene-Based E-Textiles. 2021 , 21-49 | 5 |

| | | |
|-----|--|----|
| 316 | Improving Ammonia Detecting Performance of Polyaniline Decorated rGO Composite Membrane with GO Doping. 2021 , 14, | 2 |
| 315 | Graphene family for hydrogen peroxide production in electrochemical system. 2021 , 769, 144491 | 5 |
| 314 | The role of copper on the restoration of graphene oxide by chemical vapor deposition. 2021 , 8, 055601 | |
| 313 | Low Surface Roughness Graphene Oxide Film Reduced with Aluminum Film Deposited by Magnetron Sputtering. 2021 , 11, | 1 |
| 312 | Effect of HDI-Modified GO on the Thermoelectric Performance of Poly(3,4-ethylenedioxythiophene):Poly(Styrenesulfonate) Nanocomposite Films. 2021 , 13, | 3 |
| 311 | Binary nanocomposites of reduced graphene oxide and cobalt (II, III) oxide for supercapacitor devices. 1-15 | 2 |
| 310 | The top performer: Towards optimized parameters for reduced graphene oxide uniformity by spin coating. 2021 , 16, 436-442 | 1 |
| 309 | GO based PVA nanocomposites: tailoring of optical and structural properties of PVA with low percentage of GO nanofillers. 2021 , 7, e06983 | 6 |
| 308 | Microstructure and electrothermal characterization of transparent reduced graphene oxide thin films manufactured by spin-coating and thermal reduction. 2021 , 24, 104107 | 2 |
| 307 | Enhanced faradic activity by construction of p-n junction within reduced graphene oxide@cobalt nickel sulfide@nickle cobalt layered double hydroxide composite electrode for charge storage in hybrid supercapacitor. 2021 , 590, 114-124 | 13 |
| 306 | Electrochemical Column Cell for Continuous Oxidative Inactivation of Pathogens and Reductive Removal of Toxic Heavy Metals. 2021 , 13, 32402-32414 | |
| 305 | Rapid Production of Thermally Exfoliated Graphene with a Large Specific Surface Area by Introducing a Spray Predrying Process. 2021 , 60, 9787-9796 | 1 |
| 304 | Effect of copper pretreatment on optical and electrical properties of camphor-based graphene by chemical vapour deposition. 1 | 1 |
| 303 | Tunable electro-optic analog-to-digital converter using graphene nanoshells in photonic crystal ring resonators. 2021 , 38, 2127 | 8 |
| 302 | Effects of graphene oxide and reduced graphene oxide on thermal and mechanical properties of expanded polystyrene-based composites. 2021 , 44, 1 | 0 |
| 301 | Defect-Free Single-Layer Graphene by 10 s Microwave Solid Exfoliation and Its Application for Catalytic Water Splitting. 2021 , 13, 28600-28609 | 4 |
| 300 | On the incorporation of the various reduced graphene oxide into poly(vinyl alcohol) nano-compositions: comparative study of the optical, structural properties and magnetodielectric effect. 2021 , 32, 19157-19178 | 2 |
| 299 | Reduced graphene oxide on silicon-based structure as novel broadband photodetector. 2021 , 11, 13015 | 4 |

| | | |
|-----|---|----|
| 298 | Modification of graphene-like, hydrogenated amorphous, hydrogenated tetrahedral amorphous carbon and amorphous carbon thin films by UV-C light. 2021 , 24, 101073 | 1 |
| 297 | Graphene oxide film guided skeletal muscle differentiation. 2021 , 126, 112174 | 3 |
| 296 | Structure Dependent Water Transport in Membranes Based on Two-Dimensional Materials. 2021 , 60, 10917-10959 | 3 |
| 295 | Effect of characterization probes on the properties of graphene oxide and reduced graphene oxide. 2021 , 127, 1 | 1 |
| 294 | Highly Conductive Carbon-Based Thin Films Produced by Low-Energy Electron Irradiation. 2021 , 50, 5529-5541 | 1 |
| 293 | Graphene, Graphene-Derivatives and Composites: Fundamentals, Synthesis Approaches to Applications. 2021 , 5, 181 | 6 |
| 292 | Effect of graphene oxide flakes size and number of layers on photocatalytic hydrogen production. 2021 , 11, 15969 | 0 |
| 291 | Ultra-conformal skin electrodes with synergistically enhanced conductivity for long-time and low-motion artifact epidermal electrophysiology. 2021 , 12, 4880 | 28 |
| 290 | Copper Nanowires for Transparent Electrodes: Properties, Challenges and Applications. 2021 , 11, 8035 | 1 |
| 289 | A prospect of cost-effective handling and transportation of graphene oxides: folding and redispersion of graphene oxide microsheets. 2021 , 32, | |
| 288 | Impact of reducing agents on the ammonia sensing performance of silver decorated reduced graphene oxide: Experiment and first principles calculations. 2021 , 558, 149886 | 8 |
| 287 | 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 |
| 286 | Structure and adhesion properties of waterborne poly(urethane urea)s containing small amounts of different graphene derivatives. 1-32 | 1 |
| 285 | 2D Titanium Carbide (MXene) Based Films: Expanding the Frontier of Functional Film Materials. 2021 , 31, 2105043 | 8 |
| 284 | Molecular simulation of adsorption thermodynamics and dynamics behavior of GOs at air-water interface. 2021 , 47, 1273-1281 | |
| 283 | Direct sunlight-driven enhanced photocatalytic performance of VO nanorods/ graphene oxide nanocomposites for the degradation of Victoria blue dye. 2021 , 199, 111369 | 5 |
| 282 | Two-dimensional graphene oxide based membranes for ionic and molecular separation: Current status and challenges. 2021 , 9, 105605 | 16 |
| 281 | Construction of Multilayer Films and Superlattice- and Mosaic-like Heterostructures of 2D Metal Oxide Nanosheets via a Facile Spin-Coating Process. 2021 , 13, 43258-43265 | 2 |

| | | |
|-----|---|---|
| 280 | Methods of Synthesis and Specific Properties of Graphene Nano Composites for Biomedical and Related Energy Storage Applications. 2021 , 17, 572-590 | 2 |
| 279 | Development of Waste Polystyrene-Based Copper Oxide/Reduced Graphene Oxide Composites and Their Mechanical, Electrical and Thermal Properties. 2021 , 11, | 5 |
| 278 | Few layer graphene/silver nanocomposite based flexible and resistive liquefied petroleum gas sensor. 2021 , 32, 23889-23899 | 0 |
| 277 | Mitigation of graphene oxide toxicity in <i>C. elegans</i> after chemical degradation with sodium hypochlorite. 2021 , 278, 130421 | 3 |
| 276 | Kinetic Insights into the Mechanism of Oxygen Reduction Reaction on FeO/C Composites. 2021 , 13, 44195-44206 | |
| 275 | Pyrazines with terminal donor groups for third-order nonlinear optics: effect of graphene oxide on nonlinear absorption. 2021 , 133, 1 | 1 |
| 274 | A Self-Growth Strategy for Simultaneous Modulation of Interlayer Distance and Lyophilicity of Graphene Layers toward Ultrahigh Potassium Storage Performance. 2105145 | 5 |
| 273 | Low-Temperature Nitrogen Doping of Nanocrystalline Graphene Films with Tunable Pyridinic-N and Pyrrolic-N by Cold-Wall Plasma-Assisted Chemical Vapor Deposition. 2021 , 6, 23710-23722 | 2 |
| 272 | Two-dimensional materials for electrochromic applications. 2021 , 3, 100060 | 5 |
| 271 | Study on the structure of reduced graphene oxide prepared by different reduction methods. 1 | 0 |
| 270 | Self-Assembled Materials Incorporating Functional Porphyrins and Carbon Nanoplatfoms as Building Blocks for Photovoltaic Energy Applications. 2021 , 9, 727574 | 0 |
| 269 | Thermal behaviour during initial stages of graphene oxidation: Implications for reaction kinetics and mechanisms. 2021 , 421, 129742 | 5 |
| 268 | Facile fabrication of ultra-large graphene film with high photothermal effect and thermal conductivity. 2021 , 563, 150354 | 2 |
| 267 | Instructive analysis of engineered carbon materials for potential application in water and wastewater treatment. 2021 , 793, 148583 | 9 |
| 266 | A multifunctional polyurethane sponge based on functionalized graphene oxide and carbon nanotubes for highly sensitive and super durable fire alarming. 2021 , 150, 106598 | 5 |
| 265 | Hierarchical nickel-based metal-organic framework/graphene oxide incorporated graphene nanoplatelet electrode with exceptional cycling stability for coin cell and pouch cell supercapacitors. 2021 , 43, 103304 | 4 |
| 264 | Polymer-graphene composites as sensing materials. 2022 , 401-424 | |
| 263 | Nanosopic humidity-dependent adhesion behaviors of 2D materials. 2022 , 572, 151394 | 3 |

| | | |
|-----|--|----|
| 262 | Electrical conductivity of polymer-graphene composites. 2022 , 107-139 | 1 |
| 261 | Sensing Materials: Graphene. 2021 , | 0 |
| 260 | Nano Coatings and Thin Films of 2D Nanomaterials (MXenes) as Transparent Conductivity Electrodes and Supercapacitors. 2021 , 99-119 | |
| 259 | Study on graphene oxide as a hole extraction layer for stable organic solar cells.. 2021 , 11, 27199-27206 | 1 |
| 258 | Flexible Graphene Textile Temperature Sensing RFID Coils Based on Spray Printing. 2021 , 1-1 | 5 |
| 257 | Prominence of conjugated polymers. 2021 , 1-25 | |
| 256 | Role of graphene in solid-state asymmetric supercapacitors. 2021 , 123-147 | |
| 255 | Emerging hybrids derived from polythiophene and graphene. 2021 , 129-156 | |
| 254 | Graphene transparent electrodes. 2021 , 487-516 | |
| 253 | A Comparative Study on the Effect of Graphene and Multi-walled Carbon Nanotubes Used as Interlayers on Resistance Spot Welded Joints of a Carbon Steel. 2021 , 143-161 | 0 |
| 252 | An anthraquinone-decorated graphene hydrogel based on carbonized cotton fibers for flexible and high performance supercapacitors. 2021 , 5, 862-873 | 2 |
| 251 | Water-Mediated Attractive Interaction between Negatively Charged GO Nanosheets at the Air/Water Interface. 2021 , 125, 845-853 | 3 |
| 250 | A highly sensitive electrochemical microRNA-21 biosensor based on intercalating methylene blue signal amplification and a highly dispersed gold nanoparticles/graphene/polypyrrole composite. 2021 , 146, 2679-2688 | 16 |
| 249 | Synthesis and Characterization of Graphene. 85-131 | 9 |
| 248 | Graphene: Synthesis, Properties and Application. 139-193 | 1 |
| 247 | Improvement of Electrical Conductivity and Transparency. 2015 , 123-178 | 1 |
| 246 | MXene Films, Coatings, and Bulk Processing. 2019 , 197-219 | 2 |
| 245 | MXenes for Transparent Conductive Electrodes and Transparent Energy Storage Devices. 2019 , 481-501 | 1 |

| | | |
|-----|--|----|
| 244 | Graphene/Reduced Graphene Oxide as Electrode Materials for Supercapacitors. 2020 , 271-296 | 13 |
| 243 | Thick Film Polymer Composites with Graphene Nanoplatelets for Use in Printed Electronics. 2014 , 73-78 | 5 |
| 242 | Nanoparticle Dispersions. 2013 , 729-776 | 1 |
| 241 | Fabrication and Reduction. 2015 , 1-13 | 2 |
| 240 | Structural Modeling and Physical Properties. 2015 , 31-56 | 3 |
| 239 | Graphene Oxide: Synthesis and Characterization. 2017 , 1-28 | 2 |
| 238 | Graphene/Metal Nanowire Hybrid Transparent Conductive Films. 2017 , 121-142 | 2 |
| 237 | Graphene Oxide (GO) Nanocomposite Based Room Temperature Gas Sensor. 2020 , 303-328 | 0 |
| 236 | Graphene-Based Biopolymer and Nano Composites: Fabrication, Characterization, and Applications. 2021 , 41-60 | 1 |
| 235 | Synthesis of Metal/Metal Oxide Supported Reduced Graphene Oxide (RGO) for the Applications of Electrocatalysis and Supercapacitors. 2019 , 1-48 | 3 |
| 234 | Synthetic routes of the reduced graphene oxide. 2020 , 74, 3767-3783 | 22 |
| 233 | Investigating the Thermo-Mechanical Properties of Aluminum/Graphene Nano-Platelets Composites Developed by Friction Stir Processing. 2020 , 21, 1539-1546 | 5 |
| 232 | Potential application of nano graphene oxide for saving energy in water thermal desalination system part I. 2020 , 2, 1 | 1 |
| 231 | DFT study on Hg0 adsorption over graphene oxide decorated by transition metals (Zn, Cu and Ni). 2020 , 525, 146519 | 9 |
| 230 | Restoration of the graphitic structure by defect repair during the thermal reduction of graphene oxide. 2020 , 166, 74-90 | 49 |
| 229 | Light Induced Modification of Graphene Oxide Layers on GaN Basis. 2016 , 130, 1169-1171 | 1 |
| 228 | Comparative Morphological Analysis of Graphene on Copper Substrate obtained by CVD from a Liquid Precursor. 2017 , 131, 1497-1506 | 4 |
| 227 | Vortex beam generation from reduced graphene oxide(rGO)-polymer. 2019 , 9, 4497 | 2 |

| | | |
|-----|--|----|
| 226 | Enhancement of barrier and anti-corrosive performance of zinc-rich epoxy coatings using nano-silica/graphene oxide hybrid. 2020 , 38, 497-513 | 8 |
| 225 | Recent advances in the catalytic applications of GO/rGO for green organic synthesis. 2020 , 9, 515-537 | 11 |
| 224 | Facile sonochemical-assisted synthesis of orthorhombic phase black phosphorus/rGO hybrids for effective photothermal therapy. 2020 , 9, 3023-3034 | 4 |
| 223 | Non-Organic Dielectric Layers for Graphene and Flexible Electronics. 018-024 | 2 |
| 222 | Plasmon-enhanced nanosoldering of silver nanoparticles for high-conductive nanowires electrodes. 2021 , 4, 200101-200101 | 6 |
| 221 | 2D printing technologies using graphene based materials. 2017 , 187, 220-234 | 4 |
| 220 | Synthesis and stability analysis of folic acid-graphene oxide nanoparticles for drug delivery and targeted cancer therapies. 81-85 | 3 |
| 219 | Preparation and Characterization of Graphene Oxide/ β -cyclodextrin Supramolecular Hybrid Material. 2012 , 27, 596-602 | 3 |
| 218 | ISOTHERMAL CURING BEHAVIORS OF EPOXY/GRAPHITE OXIDES NANOCOMPOSITES. 2012 , 012, 25-32 | 3 |
| 217 | The Prospective Two-Dimensional Graphene Nanosheets: Preparation, Functionalization and Applications. 2012 , 4, 1 | 11 |
| 216 | Synthesis and Characterization of Graphene Oxide and Reduced Graphene Oxide Thin Films Deposited by Spray Pyrolysis Method. 2016 , 05, 143-154 | 59 |
| 215 | A Review Paper on Graphene Coated Fibres. 2019 , 08, 53-74 | 3 |
| 214 | A Two-Step Method for the Preparation of Highly Conductive Graphene Film and Its Gas-Sensing Property. 2015 , 06, 963-977 | 2 |
| 213 | Graphene Oxide/Multilayer-Graphene Synthesized from Electrochemically Exfoliated Graphite and Its Influence on Mechanical Behavior of Polyurethane Composites. 2018 , 09, 565-575 | 1 |
| 212 | Characterization of Graphite Oxide Reduced by Thermal and/or Chemical Treatments. 2015 , 16, 274-279 | 3 |
| 211 | Effects of the Ag Layer Embedded in NIZO Layers as Transparent Conducting Electrodes for Liquid Crystal Displays. 2016 , 17, 33-36 | 3 |
| 210 | Preparation and Characterization of Reduced Graphene Nanosheets via Pre-exfoliation of Graphite Flakes. 2012 , 33, 209-214 | 52 |
| 209 | Charge Transport Properties of Polyaniline-gold/graphite Oxide Composite Films. 2012 , 33, 449-452 | 8 |

| | | |
|-----|--|----|
| 208 | Electrical and Thermal Properties of Poly(p-phenylene sulfide) Reduced Graphite Oxide Nanocomposites. 2012 , 13, 221-225 | 4 |
| 207 | Size sorting of chemically modified graphene nanoplatelets. 2013 , 14, 89-93 | 6 |
| 206 | Thickness Control of Graphene Overlayer via Layer-by-Layer Growth on Graphene Templates by Chemical Vapor Deposition. 2011 , 50, 06GE04 | 6 |
| 205 | Resistive Switching in Al/Graphene Oxide/Al Structure. 2011 , 50, 070110 | 25 |
| 204 | Configuration Dependency of Attached Epoxy Groups on Graphene Oxide Reduction: A Molecular Dynamics Simulation. 2012 , 51, 06FD14 | 1 |
| 203 | Layer-by-Layer Assembled Transparent Conductive Graphene Films for Silicon Thin-Film Solar Cells. 2012 , 51, 11PF01 | 7 |
| 202 | Understanding the Growth Kinetics of Graphene on Cu and Fe ₂ O ₃ Using Inductively-Coupled Plasma Chemical Vapor Deposition. 2017 , 47, 13-18 | 1 |
| 201 | Synthesis Methods for Carbon-Based Materials. 2021 , 367-420 | |
| 200 | Reduced graphene oxide for the development of wearable mechanical energy-harvesters: A review. 2021 , 1-1 | 3 |
| 199 | A mini review: application of graphene paper in thermal interface materials. 2021 , 36, 930-938 | 5 |
| 198 | Synthesis of transparent bio-electrodes for biophysiological measurements based on modified graphene oxide. 2021 , 33, | 1 |
| 197 | Application of Functionalized Graphene Oxide Based Biosensors for Health Monitoring: Simple Graphene Derivatives to 3D Printed Platforms. 2021 , 11, | 2 |
| 196 | Emerging Two-dimensional Materials Constructed Nanofluidic Fiber: Properties, Preparation and Applications. 1 | 1 |
| 195 | Improvement of synthesized graphene structure through various solvent liquids at low temperatures by chemical vapor deposition method. 2021 , 274, 115458 | 3 |
| 194 | Femtosecond laser nanofabrication of field effect transistors from graphene oxides. 2010 , | |
| 193 | Preparation and properties of carbon thin films from the dispersion of graphite oxide or organically modified graphite oxides. 2010 , 2010, 200-205 | 1 |
| 192 | Preparation and dispersion behavior of silylated graphite oxide intercalated by n-hexadecylamine. 2010 , 2010, 93-96 | 2 |
| 191 | Synthesis and Magnetic Properties of Expanded Graphite Oxide/Magnetic Nanoparticle Composite. 2012 , 22, 11-14 | |

- 190 Process in preparation of metal-catalyzed graphene. **2013**, 62, 028201 5
- 189 Graphene. **2013**, 1-30
- 188 Chemically derived graphene. **2014**, 223-250 1
- 187 Alternative Electrodes for OSC. **2014**, 177-213
- 186 Carrier Type Reversal of Graphene Multilayered Thin Films. **2014**, 59, 426-432
- 185 Application of GO in Electronics and Optics. **2015**, 57-77 1
- 184 A Study on Image Analysis of Graphene Oxide Using Optical Microscopy. **2014**, 27, 183-189 1
- 183 Conclusions and Perspectives. **2015**, 205-213
- 182 Development and Analysis of Graphene Oxide Thin Film Coating. **2015**, 39, 463-469 0
- 181 The Functionalization of Graphene and Its Assembled Macrostructures. 19-44
- 180 Effect of Amine Compounds on Electrical Properties of Graphene Oxide Films made by Bar Coating. **2015**, 26, 331-335 2
- 179 Catalyst-Free and Large-Area Deposition of Graphitic Carbon Films on Glass Substrates by Pyrolysis of Camphor. **2015**, 25, 341-346
- 178 Graphene-Based Electrochemical Platform for Biosensor Applications. 187-214
- 177 Quantum Dot and Heterojunction Solar Cells Containing Carbon Nanomaterials. 237-266
- 176 Zastosowania grafenu. **2016**,
- 175 Otrzymywanie grafenu .. **2016**,
- 174 Effect of Reduced Graphene Oxide in Photoanode on Photoelectrochemical Performance in Water Splitting for Hydrogen Production. **2016**, 27, 329-334 1
- 173 Two-Dimensional Graphene Bridges Enhanced Photoinduced Charge Transport in Dye-Sensitized Solar Cells. **2017**, 41-56

172 Interfacial Self-Assembly Processes. **2017**, 193-205

171 A Breath Analysis Based on SERS Sensor to Distinguish Patients with Early and Advanced Stages of Gastric Cancer from Healthy People. **2017**, 115-128

170 Facile Synthesis of Large Surface Area Graphene and Its Applications. **2017**, 159-175

169 Silicon nanowires for Li-based battery anode applications. **2017**, 455-474

168 Application of Isotopic Materials Science in Bulk and Low-Dimensional Structures. **2018**, 139-278

167 Optimized Hybrid Mn₃O₄ Nanofiber/rGO Paper for High Performance Flexible ASCs. **2018**, 75-90

166 Coverage measurement of graphene film on metallic substrate using scanning electron microscopy. **2018**, 67, 076802

165 Ellipsometric study of thin carbon films deposited by pulsed laser deposition. **2019**,

164 Laser reduction of graphene oxide thin films for nanoelectronic application. **2019**,

163 Graphene and Its Derivatives for Supercapacitor Application. **2020**, ○

162 Computational methods towards increased efficiency design of graphene membranes for gas separation and water desalination. **2019**,

161 Study on Graphene Oxide-Modified Polyacrylonitrile Hollow Fiber Membrane. **2020**, 207, 62-74

160 The Role of Carbon Nanocomposite Membranes for Water and Wastewater Treatment. **2021**, 19-41 ○

159 Probing the non-bonding interaction of small molecules with graphene oxide using DFT based vibrational circular dichroism. **2021**, 113503 ○

158 Syntheses Approach of 2-D Oxide Family of Graphene for Supercapacitor Application (A-Review). **2020**, 36, 1016-1025

157 Graphene Oxide: Structure, Properties, Synthesis, and Reduction (A Review). **2020**, 65, 1965-1976 6

156 Electrical and Mechanical Properties of Zirconia-Graphene Composites. **2020**, 2, 27-41 1

155 Molecular control of interfacial protein structure on graphene-based substrates steers cell fate.

| | | |
|-----|---|----|
| 154 | Termal indirgenmi grafen oksit ile elektrokimyasal olarak askorbik asit tayini. | |
| 153 | Rapid Carbothermal Shock Enhances the Double-Layer Response of Graphene Oxide/Carbon Nanotube Electrodes. 2021 , 35, 17919-17929 | 1 |
| 152 | Scalably Nanomanufactured Atomically Thin Materials-Based Wearable Health Sensors. 2100120 | 3 |
| 151 | Holographic performances of graphene oxide photopolymer. 2020 , | |
| 150 | Pulsed versus continuous-wave Laser deoxygenation of graphene oxide suspensions. 2020 , 956, 012009 | |
| 149 | Fast Synthesis of Copper-Nickel Bimetal and Reduced Graphene Hybrid Nanomaterial for Sensitive Sensing of 4-Aminophenol and Acetaminophen Simultaneously. 2020 , 167, 136513 | 1 |
| 148 | Metal oxide nanofibers for flexible organic electronics and sensors. 2022 , 159-171 | 0 |
| 147 | Plasmon-enhanced nanosoldering of silver nanoparticles for high-conductive nanowires electrodes. 2022 , 200101-200101 | |
| 146 | Graphene Family Nanomaterials (GFN)-TiO for the Photocatalytic Removal of Water and Air Pollutants: Synthesis, Characterization, and Applications.. 2021 , 11, | 1 |
| 145 | Dimensionally engineered ternary nanocomposite of reduced graphene oxide/multiwalled carbon nanotubes/zirconium oxide for supercapacitors. 2021 , 163067 | 6 |
| 144 | Three-dimensional graphene/La(OH)-nanorod aerogel adsorbent by self-assembly process for enhanced removal and recovery of phosphate in wastewater. 2021 , 152124 | 4 |
| 143 | Ultra-thin foldable transparent electrodes composed of stacked silver nanowires embedded in polydimethylsiloxane. | 0 |
| 142 | Room temperature photoluminescent study of thermally grown reduced graphene oxide quantum dots. 2022 , 136, 109164 | 0 |
| 141 | Increased ion transport and high-efficient osmotic energy conversion through aqueous stable graphitic carbon nitride/cellulose nanofiber composite membrane.. 2022 , 280, 119023 | 3 |
| 140 | Recent developments in natural rubber nanocomposites containing graphene derivatives and its hybrids. 2022 , 177, 114529 | 2 |
| 139 | Anomalous elasticity and damping in covalently cross-linked graphene aerogels. 2022 , 5, | 1 |
| 138 | Synthesis and Applications of Graphene Oxide.. 2022 , 15, | 10 |
| 137 | The Role of Modified Chelating Graphene Oxide for Vanadium Separation from Its Bearing Samples. 1 | 4 |

| | | |
|-----|---|--------|
| 136 | Electrochemically reduced graphene oxide: Preparation, composites, and applications. 2022 , 191, 301-332 | 4 |
| 135 | Study of microwave reduction of graphene oxide suspension: structure and functional groups. 2022 , 57, 3280-3294 | 1 |
| 134 | Contact resistance based tactile sensor using covalently cross-linked graphene aerogels.. 2022 , | 3 |
| 133 | Optical and mechanical properties of MXenes. 2022 , 131-169 | 1 |
| 132 | Environmental applications of graphene oxide composite membranes. 2022 , | 2 |
| 131 | From graphene to graphene oxide: the importance of extended topological defects.. 2022 , | 0 |
| 130 | Graphene as a Piezoresistive Material in Strain Sensing Applications.. 2022 , 13, | 3 |
| 129 | Ultrafast Shaped Laser Induced Synthesis of MXene Quantum Dots/Graphene for Transparent Supercapacitors.. 2022 , e2110013 | 10 |
| 128 | MWCNT synergy for boosting the electrochemical kinetics of V2O5 cathode for lithium-ion batteries. | 1 |
| 127 | Graphene oxide based semiconducting nanomaterials composites for environmental applications. 2022 , 407-431 | |
| 126 | Bioactive Graphene Quantum Dots Based Polymer Composite for Biomedical Applications.. 2022 , 14, | 9 |
| 125 | Graphene-Based Nanomaterials for Biomedical Imaging.. 2022 , 1351, 125-148 | 0 |
| 124 | Electrochemical Synthesis of Graphene Oxide from Graphite Flakes Exfoliated at Room Temperature. | |
| 123 | Evolution of graphene oxide (GO)-based nanohybrid materials with diverse compositions: an overview.. 2022 , 12, 5686-5719 | 1 |
| 122 | Graphene Polymer Composites for Biomedical Applications. 2022 , 435-470 | |
| 121 | An electronic biosensor based on semiconducting tetrazine polymer immobilizing matrix coated on rGO for carcinoembryonic antigen.. 2022 , 12, 3006 | 0 |
| 120 | A high stability GO nanofiltration membrane preparation by co-deposition and crosslinking polydopamine for rejecting dyes.. 2022 , 85, 1783-1799 | 1 |
| 119 | 3D Printing Graphene Oxide Soft Robotics.. <i>ACS Nano</i> , 2022 , | 16.7 2 |

| | | |
|-----|--|----|
| 118 | Langmuir-Blodgett Graphene-Based Films for Algal Biophotovoltaic Fuel Cells.. 2022 , 12, | 1 |
| 117 | Ab initio studies of the electronic structure induced by the CO and N2 adsorptions on graphene and on graphite slab. 2022 , | |
| 116 | Two-dimensional materials as a platform in extraction methods: A review. 2022 , 116606 | 1 |
| 115 | Ti3C2 MXene-Reduced Graphene Oxide Composite Polymer-Based Printable Electrolyte for Quasi-Solid-State Dye-Sensitized Solar Cells. 2022 , 5, 3329-3338 | 3 |
| 114 | Graphene-Oxide-Based Fluoro- and Chromo-Genic Materials and Their Applications.. 2022 , 27, | 1 |
| 113 | Enhanced Performance of Graphene Oxide Photodetectors by Reduction with Vitamin C. 1 | |
| 112 | Graphene Oxide and Biomolecules for the Production of Functional 3D Graphene-Based Materials.. 2022 , 9, 774097 | 1 |
| 111 | Recent advances in aluminium matrix composites reinforced with graphene-based nanomaterial: A critical review. 2022 , 100948 | 2 |
| 110 | Frictional characteristics of graphene oxide-modified continuous glass fiber reinforced epoxy composite. 2022 , 109446 | 1 |
| 109 | Transitional ordering in reduced graphene oxide nanomaterials. 2022 , 142, 106478 | 0 |
| 108 | High-quality ultra-flat reduced graphene oxide nanosheets with super-robust lubrication performances. 2022 , 438, 135620 | 1 |
| 107 | Graphene oxide and its films produced using a nebulizer spray coating method. 2022 , 151, 111806 | 1 |
| 106 | Styrene-based ternary composite elastomers functionalized with graphene oxide-polypyrrole under iron(III)-alkyl benzenesulfonate oxidants for supercapacitor integrated strain sensor system. 2022 , 51, 104543 | 0 |
| 105 | Applications of carbon-based conductive nanomaterials in biosensors. 2022 , 442, 136183 | 10 |
| 104 | Anomalous Optoelectric Properties of an Ultrathin Ruthenium Film with a Surface Oxide Layer for Flexible Transparent Conducting Electrodes. 2022 , 32, 2109330 | 0 |
| 103 | The effects of functionalized graphene oxide on the thermal and mechanical properties of liquid crystalline polymers.. 2022 , | 1 |
| 102 | Vitamin C-Reduced Graphene Oxide Coatings Improve the Performance and Stability of Multimodal Microelectrodes for Neural Recording, Stimulation, and Dopamine Sensing. | |
| 101 | Electrochemically Fabricated MoleculeElectrode Contacts for Molecular Electronics. 2022 , 101019 | 1 |

100 Presentation_1.pdf. **2019**,

99 Presentation_1.pdf. **2019**,

98 Optimization of an rGO-based biosensor for the sensitive detection of bovine serum albumin: Effect of electric field on detection capability.. **2022**, 134700 ○

97 Ni-Decorated Graphene Oxide Nanosheet as an Adsorption Surface of Toxic Molecules (So2, No2 and O3): A Theoretical Study.

96 Synthesis and Transport Analysis of Turbostratic Multilayer Graphene. **2022**, 149-180

95 A review of the preparation and applications of wrinkled graphene oxide. **2022**, 37, 290-302 1

94 Direct Plasma-Enhanced-Chemical-Vapor-Deposition Syntheses of Vertically Oriented Graphene Films on Functional Insulating Substrates for Wide-Range Applications. 2202026 ○

93 Laser-Assisted Rapid Fabrication of Large-Scale Graphene Oxide Transparent Conductors. 2102343 ○

92 Impact of graphene oxide on visible light photocatalytic performance of graphene oxide/graphitic carbon nitride three-dimensional structure composites.. **2022**, 1-14

91 Influence of Chemical, Electrochemical Exfoliation, Hydrophilic, and Hydrophobic Binder on the Sorption Capacity of Graphene in Capacitive Deionization. **2022**, 148,

90 Variable Angle Spectroscopic Ellipsometry Characterization of Graphene Oxide in Methanol Films. **2022**, 12, 696 ○

89 Graphene-Based Metal Oxide Nanocomposites for Gas Sensing Application. 98-115

88 Electrochemical Synthesis of Graphene Oxide from Graphite Flakes Exfoliated at Room Temperature. **2022**, 153788 ○

87 Conformal Layer-by-Layer Assembly of Ti3C2Tz MXene-Only Thin Films for Optoelectronics and Energy Storage. ○

86 A Comprehensive Review on Ion Beam-Reduced Graphene Oxide: Tailoring the Reduction with Optical, Electrical and Electronic Structural Properties.

85 High-Quality Monolayer Reduced Graphene Oxide Films via Combined Chemical Reduction and Ethanol-Assisted Defect Restoration. 2200503 ○

84 Porous carbon-based material as a sustainable alternative for the storage of natural gas (methane) and biogas (biomethane) : a review. **2022**, 137373 ○

83 Inorganic microporous membranes for hydrogen separation: challenges and solutions. **2022**, null 6

| | | |
|----|---|---|
| 82 | Graphene-based polymer nanocomposites in biomedical applications. 2022 , 199-245 | 1 |
| 81 | From methylarenes to Esters: Efficient oxidative Csp ³ -H activation promoted by CuO decorated magnetic reduced graphene oxide. | 0 |
| 80 | Dioctyl Phthalate-Modified Graphene Nanoplatelets: An Effective Additive for Enhanced Mechanical Properties of Natural Rubber. 2022 , 14, 2541 | 0 |
| 79 | Polylactic acid effectively reinforced with reduced graphitic oxide. 2022 , | 1 |
| 78 | Spin-Orbit Coupling Electronic Structures of Organic-Group Functionalized Sb and Bi Topological Monolayers. 2022 , 12, 2041 | 1 |
| 77 | Vitamin C-reduced graphene oxide improves the performance and stability of multimodal neural microelectrodes. 2022 , 104652 | 1 |
| 76 | Linear Energy Transfer (LET) dependence of graphene oxide dosimeter for different ionizing radiations. 2022 , 203, 111240 | |
| 75 | Towards High-quality graphite oxide from graphite Systemization of the balance in oxidative and mechanical forces for yield enhancement. 2022 , 259, 117815 | |
| 74 | Fabrication of multilayer film with graphene oxide of different surface charge through electrospray deposition. 2022 , 599, 153977 | 1 |
| 73 | Transparent, conductive and flexible MXene grid/silver nanowire hierarchical films for high-performance electromagnetic interference shielding. 2022 , 10, 14364-14373 | 2 |
| 72 | Heterojunctions of rGO/Metal Oxide Nanocomposites as Promising Gas-Sensing Materials Review. 2022 , 12, 2278 | 3 |
| 71 | Graphite and Graphene Nanoplatelets (GNP) Filled Polymer Matrix Nanocomposites. 2022 , 1-45 | |
| 70 | Toxicity mitigation and biodistribution of albumin corona coated graphene oxide and carbon nanotubes in <i>Caenorhabditis elegans</i> . 2022 , 27, 100413 | |
| 69 | Transformation of carbon dioxide, a greenhouse gas, into useful components and reducing global warming: A comprehensive review. | 1 |
| 68 | Improvement in long-term stability of field effect transistor biosensor in aqueous environments using a combination of silane and reduced graphene oxide coating. 2022 , 264, 111859 | 1 |
| 67 | Advances of Various Heterogeneous Structure Types in Molecular Junction Systems and Their Charge Transport Properties. 2202399 | 0 |
| 66 | Facile fabrication of the porphyrin-functionalized graphene oxide nanocomposite for simultaneous detection of dopamine and uric acid. | |
| 65 | Graphene-based electrode materials used for some pesticide detection in food samples: A review. 2022 , 144, 109891 | 1 |

| | | |
|----|--|---|
| 64 | Catalyst-free growth of single- to few-layered graphene and carbon nanotubes on an ionic liquid surface. 2022 , 653, 130025 | |
| 63 | Effect of terephthalic acid functionalized graphene oxide on the molecular interaction, and mechanical and thermal properties of Hytrel polymer. 2022 , 18, 7112-7122 | 0 |
| 62 | Ni-Decorated Graphene Oxide Nanosheet as an Adsorption Surface of Toxic Molecules (So ₂ , No ₂ and O ₃): A Theoretical Study. | 0 |
| 61 | Graphene oxide-based nanofiltration membranes for separation of heavy metals. 2023 , 231-288 | 0 |
| 60 | Tribological behaviors of OA-ZIF-8/GO as additives of the lubricating oil. 1-13 | 0 |
| 59 | Overcoming the Limitations of MXene Electrodes for Solution-Processed Optoelectronic Devices. 2206377 | 5 |
| 58 | Optical Biosensor Based on Graphene and Its Derivatives for Detecting Biomolecules. 2022 , 23, 10838 | 3 |
| 57 | Synthesis of Graphene-Based Nanocomposites for Environmental Remediation Applications: A Review. 2022 , 27, 6433 | 2 |
| 56 | 2D-TMDs based electrode material for supercapacitor applications. | 2 |
| 55 | Graphene Oxide Based on Biomass Waste: Synthesis and Applications. | 1 |
| 54 | Fabrication of Graphene Sheets Using an Atmospheric Pressure Thermal Plasma Jet System. 2022 , 15, 7245 | 1 |
| 53 | Lithiation of a Silicon Oxide Cluster Adsorbed onto Graphene Oxide: Quantum-Chemical Simulation. 2022 , 67, 1785-1793 | 0 |
| 52 | Recent Advances in Graphene Oxide-Based Membranes for Heavy Metal Ions Separation. | 0 |
| 51 | Nanotechnology- A ray of hope for heavy metals removal. 2022 , 136989 | 0 |
| 50 | Eco-Friendly Transition-Metal-Ion-Doped rGO Nanocomposites with Enhanced Photocatalytic Activities. 2200355 | 0 |
| 49 | Interfacial Assembly of Ti ₃ C ₂ T _x /ZnIn ₂ S ₄ Heterojunction for High-Performance Photodetectors. 2204687 | 1 |
| 48 | Rapid preparation of CuO composite graphene for portable electrochemical sensing of sulfites based on laser etching technique. 2022 , 108096 | 0 |
| 47 | Investigations on structural, electronic and optical properties of ZnO in two-dimensional configurations by first-principles calculations. 2023 , 51, 014002 | 0 |

| | | |
|----|--|---|
| 46 | Recent Advances in Graphene and Graphene-Based Heterogeneous Nanocatalysts: C ₁ And C ₂ Coupling Reactions in Liquid Phase. 2022 , 7, | 0 |
| 45 | Synergistically improved photovoltaic performances of dye-sensitized solar cells with metal-free organic cosensitizer and hybrid rGO-TiO ₂ photoanode. 2022 , 110892 | 1 |
| 44 | Laser fabrication of graphene oxide/reduced graphene oxide papers for ethanol vapor driven actuator. 2023 , 330, 133313 | 0 |
| 43 | Flexible and stretchable transparent conductive graphene-based electrodes for emerging wearable electronics. 2023 , 202, 495-527 | 1 |
| 42 | Detection of SARS-CoV-2 in clinical and environmental samples using highly sensitive reduced graphene oxide (rGO)-based biosensor. 2023 , 453, 139750 | 1 |
| 41 | Colorimetric Test Paper for H ₂ O ₂ Determination Based on Peroxidase-Like Activity of an AuFe/ZIF-8-Graphene Composite. 2022 , 7, | 0 |
| 40 | Advances of Carbon Materials for Dual-Carbon Lithium-Ion Capacitors: A Review. 2022 , 12, 3954 | 0 |
| 39 | The Influence of Lateral Size and Oxidation of Graphene Oxide on Its Chemical Reduction and Electrical Conductivity of Reduced Graphene Oxide. 2022 , 27, 7840 | 0 |
| 38 | Facile formation of porous, multilayer reduced graphene oxide electrodes using electrophoretic deposition and flash sintering. 2022 , | 0 |
| 37 | Synthesis and application of a novel high durable cotton flame retardant rich in P-N covalent bonds and ammonium phosphate groups. 2022 , 140422 | 0 |
| 36 | Production of graphene-derivatives using organic molecules for supercapacitors and beyond. 2023 , 658, 130693 | 0 |
| 35 | Investigating suitable medium for the long-duration storage of Ti ₂ CT _x MXene. 2023 , 938, 168471 | 0 |
| 34 | Graphene-based materials for effective adsorption of organic and inorganic pollutants: A critical and comprehensive review. 2023 , 863, 160871 | 3 |
| 33 | Dyes removal from water using polymeric nanocomposites: a review. | 0 |
| 32 | Reduced Graphene Oxide-Zinc Sulfide Nanocomposite Decorated with Silver Nanoparticles for Wastewater Treatment by Adsorption, Photocatalysis and Antimicrobial Action. 2023 , 28, 926 | 0 |
| 31 | Optical and Electrical Properties of Low-Dimensional Crystalline Materials: A Review. 2023 , 13, 108 | 0 |
| 30 | Progress on carbon for electrochemical capacitors. 2023 , 2, 20220021 | 1 |
| 29 | Layered, tunable graphene oxide-nylon composite heterostructures for wearable electrocardiogram sensors. 2023 , 122, 013701 | 0 |

- 28 Graphene oxide microstructure control of electrosprayed thin films. **2023**, 13, 781-789 ○
- 27 Preparation of high-performance graphene materials by adjusting internal micro-channels using a combined electrospray/electrospinning technique. **2023**, 940, 168882 1
- 26 Nghiên cứu chế tạo vật liệu tổ hợp Fe₂O₃ và MgO trên nền graphene để ứng dụng làm vật liệu hấp phụ kim loại nặng As trong nước. **2022**, 91-99 ○
- 25 Optical and structural properties of 2D transition metal dichalcogenides semiconductor MoS₂. **2023**, 46, ○
- 24 Advanced materials for smart devices. **2023**, 457-485 ○
- 23 Application of graphene in energy storage devices. **2023**, 135-156 ○
- 22 PIN Heterojunction System Eu-Doped ZnO@GO for Photocatalytic Water Splitting. 2200106 ○
- 21 Synthesis and applications of carbon-polymer composites and nanocomposite functional materials. **2023**, 71-105 ○
- 20 Reduced graphene oxides prepared via explosive and non-explosive thermal reduction: Structural evolution, functional properties and reinforcing efficacy. **2023**, 118007 ○
- 19 Carbon ion self-sputtering attained by sublimation of hot graphite target and controlled by pulse injection of a neon-helium gas mixture. **2023**, 620, 156708 ○
- 18 Synthesis, cytotoxic evaluation, molecular docking studies and molecular dynamic simulation of some metronidazole analogues. **2023**, 1284, 135378 ○
- 17 Carbonaceous electrode materials for supercapacitor: Preparation and surface functionalization. 10, 1 1
- 16 Study of adsorption energy for toxic gases (NH₃, Br₂) in pure and sulfur doped graphene nano-ribbon. **2023**, ○
- 15 Recent Progress and Challenges in MXene-Based Phase Change Material for Solar and Thermal Energy Applications. **2023**, 16, 1977 1
- 14 Characterization of pulsed laser deposited La₂O₂S:Eu³⁺ thin films and effect of coating with graphene oxide layers. **2023**, 41, 022204 ○
- 13 Design Optimization and Characterization with Fabrication of Nanomaterials-Based Photo Diode Cell for Subretinal Implant Application. **2023**, 13, 934 ○
- 12 Strategies to break the trade-off between infrared transparency and conductivity. **2023**, 136, 101112 ○
- 11 2D-Material-Based Volatile and Nonvolatile Memristive Devices for Neuromorphic Computing. **2023**, 5, 1109-1135 ○

- 10 The design of a point of care FET biosensor to detect and screen COVID-19. **2023**, 13,
- 9 Advances in graphene-based flexible and wearable strain sensors. **2023**, 464, 142576
- 8 Influence of graphene oxide on rheology, mechanical, dielectric, and triboelectric properties of poly(vinyl alcohol) nanocomposite hydrogels prepared via a facile one step process.
- 7 Pedot:PSS/Graphene Oxide (GO) Ternary Nanocomposites for Electrochemical Applications. **2023**, 28, 2963
- 6 Recent approach in producing transparent conductive films (TCFs).
- 5 Fischer-Tropsch synthesis using cobalt catalysts supported on graphene materials: a systematic review. **2023**, 49, 2025-2052
- 4 Study of Radiotherapy Properties and Antimicrobial Activity of Glyconanoparticles (GNPs) Generated from Imidazolium Salts. **2023**, 8,
- 3 Durable corrosion-resistant coating based in graphene oxide for cost-effective fuel cells components. **2023**, 26, 106569
- 2 Realizing Highly-Ordered Laser-Reduced Graphene for High-Performance Flexible Microsupercapacitor.
- 1 Nanofabrication of selenium/reduced graphene oxide composite with sulfur doping via solution co-impregnation for enhanced lithium-selenium batteries. **2023**, 941, 117545