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Synthesis and characterisation of hydrophilic and organophilic graphene nanosheets

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|-----|---|------|-----------|
| 546 | Fast and Facile Preparation of Graphene Oxide and Reduced Graphene Oxide Nanoplatelets. 2009 , 21, 3514-3520 | | 737 |
| 545 | Graphene/Polymer Nanocomposites. 2010 , 43, 6515-6530 | | 2683 |
| 544 | Facile preparation and characterization of graphene nanosheets/polystyrene composites. 2010 , 18, 1008-1012 | 25 | |
| 543 | Effect of pyrene treatment on the properties of graphene/epoxy nanocomposites. 2010 , 18, 1125-1128 | | 20 |
| 542 | Recent progresses in application of functionalized graphene sheets. 2010 , 53, 2311-2319 | | 20 |
| 541 | Highly Efficient Method for Preparing Homogeneous and Stable Colloids Containing Graphene Oxide. 2011 , 6, 47 | | 36 |
| 540 | Electric current induced reduction of graphene oxide and its application as gap electrodes in organic photoswitching devices. 2010 , 22, 5008-12 | | 81 |
| 539 | Solvothermal synthesis and characterization of sandwich-like graphene/ZnO nanocomposites. 2010 , 256, 2826-2830 | | 284 |
| 538 | Recent advances in graphene based polymer composites. 2010 , 35, 1350-1375 | | 2609 |
| 537 | Covalent synthesis of organophilic chemically functionalized graphene sheets. 2010 , 348, 377-83 | | 73 |
| 536 | Characteristics of polymers that stabilize colloids for the production of graphene from graphene oxide. 2010 , 349, 63-9 | | 23 |
| 535 | Synthesis of hydrophilic and organophilic chemically modified graphene oxide sheets. 2010 , 352, 366-70 | | 63 |
| 534 | Reduction of functionalized graphite oxides by trioctylphosphine in non-polar organic solvents. <i>Carbon</i> , 2010 , 48, 2282-2289 | 10.4 | 102 |
| 533 | Intracellular imaging with a graphene-based fluorescent probe. 2010 , 6, 1686-92 | | 243 |
| 532 | Solubilization of Reduced Graphene in Water through Noncovalent Interaction with Dendrimers. 2010 , 39, 1160-1161 | | 28 |
| 531 | One-step synthesis of superior dispersion of chemically converted graphene in organic solvents. 2010 , 46, 4375-7 | | 141 |
| 530 | Reducing sugar: new functional molecules for the green synthesis of graphene nanosheets. 2010 , 4, 2429-37 | | 1145 |

| | | |
|-----|--|-----|
| 529 | Cyclodextrin functionalized graphene nanosheets with high supramolecular recognition capability: synthesis and host-guest inclusion for enhanced electrochemical performance. 2010 , 4, 4001-10 | 543 |
| 528 | Graphene oxide: a substrate for optimizing preparations of frozen-hydrated samples. 2010 , 170, 152-6 | 130 |
| 527 | General Approach to Individually Dispersed, Highly Soluble, and Conductive Graphene Nanosheets Functionalized by Nitrene Chemistry. 2010 , 22, 5054-5064 | 394 |
| 526 | A new approach to fabricate graphene nanosheets in organic medium: combination of reduction and dispersion. 2010 , 20, 1722 | 205 |
| 525 | Surface acoustic waves in graphene structures: Response to ambient humidity. 2010 , | 3 |
| 524 | Enhanced thermal conductivities of nanofluids containing graphene oxide nanosheets. 2010 , 21, 055705 | 158 |
| 523 | Dopamine-Induced Reduction and Functionalization of Graphene Oxide Nanosheets. 2010 , 43, 8336-8339 | 652 |
| 522 | Preparation and Tribological Study of Functionalized Graphene \square Nanocomposite Ultrathin Lubrication Films on Si Substrates. 2011 , 115, 13275-13284 | 72 |
| 521 | Facile synthesis of graphene nanosheets via Fe reduction of exfoliated graphite oxide. 2011 , 5, 191-8 | 742 |
| 520 | Melt blending in situ enhances the interaction between polystyrene and graphene through \square stacking. 2011 , 3, 3103-9 | 178 |
| 519 | Preparation of non-covalently functionalized graphene using 9-anthracene carboxylic acid. 2011 , 22, 405603 | 43 |
| 518 | Superior conductive polystyrene \square chemically converted graphene nanocomposite. 2011 , 21, 11312 | 79 |
| 517 | A green and ultrafast approach to the synthesis of scalable graphene nanosheets with Zn powder for electrochemical energy storage. 2011 , 21, 15449 | 69 |
| 516 | Preparation of water-dispersible graphene by facile surface modification of graphite oxide. 2011 , 22, 305710 | 82 |
| 515 | Synthesis of polymer-protected graphene by solvent-assisted thermal reduction process. 2011 , 22, 345601 | 27 |
| 514 | Tribological properties of oleic acid-modified graphene as lubricant oil additives. 2011 , 44, 205303 | 189 |
| 513 | Electrochemical performance of a graphene-polypyrrole nanocomposite as a supercapacitor electrode. 2011 , 22, 295202 | 132 |
| 512 | Microwave-assisted rapid synthesis of water-soluble graphene. 2011 , 21, 10421 | 37 |

| | | |
|-----|--|----------|
| 511 | Graphene-containing thermoresponsive nanocomposite hydrogels of poly(N-isopropylacrylamide) prepared by frontal polymerization. 2011 , 21, 8727 | 179 |
| 510 | Graphene: Substrate preparation and introduction. 2011 , 174, 234-8 | 66 |
| 509 | Advanced mechanical properties of graphene paper. 2011 , 109, 014306 | 132 |
| 508 | Blood compatible graphene/heparin conjugate through noncovalent chemistry. 2011 , 12, 336-41 | 185 |
| 507 | Long-acting antibacterial activity of quaternary phosphonium salts functionalized few-layered graphite. 2011 , 176, 1222-1226 | 45 |
| 506 | Epoxy-Graphene UV-cured nanocomposites. 2011 , 52, 4664-4669 | 124 |
| 505 | Direct electro-deposition of graphene from aqueous suspensions. 2011 , 13, 9187-93 | 172 |
| 504 | Chemical functionalization of graphene sheets by solvothermal reduction of a graphene oxide suspension in N-methyl-2-pyrrolidone. 2011 , 21, 3371-3377 | 313 |
| 503 | Role of poly(N-vinyl-2-pyrrolidone) as stabilizer for dispersion of graphene via hydrophobic interaction. 2011 , 46, 1316-1321 | 72 |
| 502 | Sodium citrate: A universal reducing agent for reduction / decoration of graphene oxide with Au nanoparticles. 2011 , 4, 599-611 | 137 |
| 501 | Growth and characterization of graphene by chemical reduction of graphene oxide in solution. 2011 , 208, 2335-2338 | 15 |
| 500 | Thermo-Responsive Assembly of Chemically Reduced Graphene and Poly(N-isopropylacrylamide). 2011 , 212, 336-341 | 37 |
| 499 | Simultaneous surface functionalization and reduction of graphene oxide with octadecylamine for electrically conductive polystyrene composites. <i>Carbon</i> , 2011 , 49, 4724-4730 | 10.4 322 |
| 498 | One-step reduction of graphene oxide with l-glutathione. 2011 , 384, 543-548 | 155 |
| 497 | Study on phenol adsorption from aqueous solutions on exfoliated graphitic nanoplatelets. 2011 , 176, 588-595 | 20 |
| 496 | Preparation of water soluble graphene using polyethylene glycol: Comparison of covalent approach and noncovalent approach. 2011 , 17, 298-303 | 48 |
| 495 | Stable aqueous dispersions of graphene prepared with hexamethylenetetramine as a reductant. 2011 , 354, 493-7 | 67 |
| 494 | Graphene based materials: Past, present and future. 2011 , 56, 1178-1271 | 2607 |

| | | |
|-----|---|-----|
| 493 | Functionalized graphene as an aqueous phase chemiresistor sensing material. 2011 , 155, 154-158 | 38 |
| 492 | Preparation of Functionalized Graphene Sheets. 2011 , 15, 1133-1150 | 36 |
| 491 | Synthesis of Carbon Nanomaterials-CdSe Composites and Their Photocatalytic Activity for Degradation of Methylene Blue. 2012 , 2012, 1-7 | 4 |
| 490 | Adsorption of oxygen-containing functional groups on free and supported graphene using point contact. 2012 , 85, | 5 |
| 489 | Improved properties of chemically modified graphene/poly(methyl methacrylate) nanocomposites via a facile in-situ bulk polymerization. 2012 , 6, 847-858 | 56 |
| 488 | UV-Curable Functionalized Graphene Oxide/Polyurethane Acrylate Nanocomposite Coatings with Enhanced Thermal Stability and Mechanical Properties. 2012 , 51, 14629-14636 | 85 |
| 487 | Hemin-functionalized reduced graphene oxide nanosheets reveal peroxynitrite reduction and isomerization activity. 2012 , 18, 15122-32 | 28 |
| 486 | Tribological and mechanical investigation of MC nylon reinforced by modified graphene oxide. 2012 , 294-295, 395-401 | 97 |
| 485 | Effective solvothermal deoxidization of graphene oxide using solid sulphur as a reducing agent. 2012 , 22, 14385 | 36 |
| 484 | Supramolecular graphene oxide-alkylamine hybrid materials: variation of dispersibility and improvement of thermal stability. 2012 , 36, 1733 | 39 |
| 483 | Covalently functionalized reduced graphene oxide by organically modified silica: a facile synthesis of electrically conducting black coatings on glass. 2012 , 22, 24690 | 32 |
| 482 | Temperature stable supercapacitors based on ionic liquid and mixed functionalized carbon nanomaterials. 2012 , 16, 3573-3580 | 33 |
| 481 | Organic bulk heterojunction photovoltaic devices based on polythiophene-graphene composites. 2012 , 4, 4864-70 | 48 |
| 480 | Graphene structured sulfonated poly(ether sulfone)s containing hexabenzocoronene for PEMFC. 2012 , | |
| 479 | Microwave-assisted non-aqueous route to deposit well-dispersed ZnO nanocrystals on reduced graphene oxide sheets with improved photoactivity for the decolorization of dyes under visible light. 2012 , 125, 425-431 | 149 |
| 478 | Hydrothermal preparation of ZnO-reduced graphene oxide hybrid with high performance in photocatalytic degradation. 2012 , 258, 6204-6211 | 227 |
| 477 | Covalent modification of reduced graphene oxide by means of diazonium chemistry and use as a drug-delivery system. 2012 , 18, 14708-16 | 64 |
| 476 | Synthesis of stable aqueous dispersion of graphene/polyaniline composite mediated by polystyrene sulfonic acid. 2012 , 50, 4888-4894 | 52 |

| | | |
|-----|--|-----|
| 475 | Preparation and Tribological Properties of Polyamide 11/Graphene Coatings. 2012 , 51, 1163-1166 | 50 |
| 474 | Enhancement of dispersion and bonding of graphene-polymer through wet transfer of functionalized graphene oxide. 2012 , 6, 1017-1031 | 146 |
| 473 | Wear Performance and Mechanisms of Polyphenylene Sulfide/Polytetrafluoroethylene Wax Composite Coatings Reinforced by Graphene. 2012 , 51, 1218-1227 | 27 |
| 472 | Graphene oxide/polyaniline nanostructures: transformation of 2D sheet to 1D nanotube and in situ reduction. 2012 , 48, 10862-4 | 74 |
| 471 | Facile method for the preparation of water dispersible graphene using sulfonated poly(ether-ether-ketone) and its application as energy storage materials. 2012 , 28, 9825-33 | 76 |
| 470 | High conductive ethylene vinyl acetate composites filled with reduced graphene oxide and polyaniline. 2012 , 43, 2183-2188 | 35 |
| 469 | N-doped graphene/carbon composite as non-precious metal electrocatalyst for oxygen reduction reaction. 2012 , 81, 313-320 | 89 |
| 468 | Chemistry and physics of a single atomic layer: strategies and challenges for functionalization of graphene and graphene-based materials. 2012 , 41, 97-114 | 432 |
| 467 | Graphene/Inorganic nanocomposites. 2012 , 2, 64-98 | 507 |
| 466 | Electrorheology of graphene oxide. 2012 , 4, 2267-72 | 100 |
| 465 | Poly(vinyl alcohol) nanocomposites filled with poly(vinyl alcohol)-grafted graphene oxide. 2012 , 4, 2387-94 | 213 |
| 464 | From carbon nanotubes and silicate layers to graphene platelets for polymer nanocomposites. 2012 , 4, 4578-86 | 159 |
| 463 | Polysaccharide Nanocomposites Reinforced with Graphene Oxide and Keratin-Grafted Graphene Oxide. 2012 , 51, 3619-3629 | 86 |
| 462 | Ultrasonication-assisted direct functionalization of graphene with macromolecules. 2012 , 2, 4713 | 53 |
| 461 | Preparation and Characterization of Graphene/Europium Oxide Composites. 2012 , 27, 494-498 | 20 |
| 460 | A Facile Approach to Chemically Modified Graphene and its Polymer Nanocomposites. 2012 , 22, 2735-2743 | 211 |
| 459 | Stable and Water-Dispersible Graphene Nanosheets: Sustainable Preparation, Functionalization, and High-Performance Adsorbents for Pb ²⁺ . 2012 , 77, 379-386 | 36 |
| 458 | One-step functionalization of graphene with cyclopentadienyl-capped macromolecules via Diels-Alder click chemistry. 2012 , 22, 7929 | 45 |

| | | | |
|-----|--|------|------|
| 457 | Observation of mechanical percolation in functionalized graphene oxide/elastomer composites. <i>Carbon</i> , 2012 , 50, 4489-4494 | 10.4 | 60 |
| 456 | Superior dispersion of highly reduced graphene oxide in N,N-dimethylformamide. 2012 , 376, 91-6 | | 66 |
| 455 | Manganese oxide/graphene composite as an efficient catalyst for 4-electron reduction of oxygen in alkaline media. 2012 , 75, 305-310 | | 39 |
| 454 | Graphene nanosheets modified glassy carbon electrode for simultaneous detection of heroine, morphine and noscapiine. 2012 , 31, 205-11 | | 93 |
| 453 | Catalytic activity of graphene/cobalt hydroxide composite for oxygen reduction reaction in alkaline media. 2012 , 198, 122-126 | | 85 |
| 452 | Influence of pH condition on colloidal suspension of exfoliated graphene oxide by electrostatic repulsion. 2012 , 186, 99-103 | | 8 |
| 451 | Chemical functionalization of graphene and its applications. 2012 , 57, 1061-1105 | | 1351 |
| 450 | Effect of functionalized graphene on the physical properties of linear low density polyethylene nanocomposites. 2012 , 31, 31-38 | | 164 |
| 449 | Functionalized-graphene/ethylene vinyl acetate co-polymer composites for improved mechanical and thermal properties. 2012 , 31, 282-289 | | 102 |
| 448 | Properties and structural characterization of oxide starch/chitosan/graphene oxide biodegradable nanocomposites. 2012 , 123, 2933-2944 | | 42 |
| 447 | Preparation of water-soluble and biocompatible graphene. 2013 , 8, 277-279 | | 10 |
| 446 | Self-Initiated Free Radical Grafting of Styrene Homo- and Copolymers onto Functionalized Graphene. 2013 , 46, 5488-5496 | | 66 |
| 445 | Effects of covalent surface modifications on the electrical and electrochemical properties of graphene using sodium 4-aminoazobenzene-4'-sulfonate. <i>Carbon</i> , 2013 , 54, 310-322 | 10.4 | 54 |
| 444 | Electrochemical detection of dopamine based on pre-concentration by graphene nanosheets. 2013 , 138, 6044-51 | | 48 |
| 443 | A novel cobalt tetranitrophthalocyanine/graphene composite assembled by an in situ solvothermal synthesis method as a highly efficient electrocatalyst for the oxygen reduction reaction in alkaline medium. 2013 , 15, 13093-100 | | 40 |
| 442 | Characterization of multilayer graphene prepared from short-time processed graphite oxide flake. 2013 , 24, 1282-1286 | | 14 |
| 441 | Efficient reduction of graphene oxide using Tin-powder and its electrochemical performances for use as an energy storage electrode material. 2013 , 1, 11320 | | 15 |
| 440 | Microwave absorption response of nickel/graphene nanocomposites prepared by electrodeposition. 2013 , 48, 8060-8067 | | 30 |

| | | |
|-----|--|-----|
| 439 | Glass transition improvement in epoxy/graphene composites. 2013 , 48, 7883-7892 | 40 |
| 438 | Dipotassium hydrogen phosphate as reducing agent for the efficient reduction of graphene oxide nanosheets. 2013 , 409, 1-7 | 24 |
| 437 | Fabrication of an Electrochemical L-Cysteine Sensor Based on Graphene Nanosheets Decorated Manganese Oxide Nanocomposite Modified Glassy Carbon Electrode. 2013 , 25, 2201-2210 | 32 |
| 436 | Graphene/poly(methyl methacrylate) chemiresistor sensor for formaldehyde odor sensing. 2013 , 248-249, 401-6 | 57 |
| 435 | A new route toward graphene nanosheet/polyaniline composites using a reactive surfactant as polyaniline precursor. 2013 , 184, 52-60 | 20 |
| 434 | Preparation of sulfonated poly(ether ether ketone) functionalized ternary graphene/AuNPs/chitosan nanocomposite for efficient glucose biosensor. 2013 , 48, 1724-1735 | 46 |
| 433 | Comparison of Thermal Properties of Silicone Reinforced by Different Nanocarbon Materials. 2013 , 11, 326-333 | 12 |
| 432 | Preparation and electrical conductivity of novel vanadate borate glass system containing graphene oxide. 2013 , 376, 117-125 | 23 |
| 431 | Preparation and performance of segregated polymer composites with hybrid fillers of octadecylamine functionalized graphene and carbon nanotubes. 2013 , 20, 1 | 23 |
| 430 | A green reduction of graphene oxide via starch-based materials. 2013 , 3, 21466 | 53 |
| 429 | Mechanically Robust, Electrically Conductive Biocomposite Films Using Antimicrobial Chitosan-Functionalized Graphenes. 2013 , 30, 721-727 | 44 |
| 428 | Green synthesis and photo-catalytic performances for ZnO-reduced graphene oxide nanocomposites. 2013 , 411, 69-75 | 127 |
| 427 | Preparation and characterization of an electromagnetic material: The graphene nanosheet/polythiophene composite. 2013 , 181, 110-116 | 32 |
| 426 | Assembly of Ag ₃ PO ₄ nanocrystals on graphene-based nanosheets with enhanced photocatalytic performance. 2013 , 405, 1-9 | 57 |
| 425 | The piezoresistive effect in graphene-based polymeric composites. 2013 , 24, 465702 | 38 |
| 424 | Super gas barrier and selectivity of graphene oxide-polymer multilayer thin films. 2013 , 25, 503-8 | 358 |
| 423 | Electrocatalytic activity of nitrogen-doped graphene synthesized via a one-pot hydrothermal process towards oxygen reduction reaction. 2013 , 227, 185-190 | 149 |
| 422 | Graphene oxide based CdSe photocatalysts: Synthesis, characterization and comparative photocatalytic efficiency of rhodamine B and industrial dye. 2013 , 48, 1268-1274 | 61 |

| | | | |
|-----|---|-----|-----|
| 421 | Recent advances in the efficient reduction of graphene oxide and its application as energy storage electrode materials. 2013 , 5, 52-71 | | 392 |
| 420 | Simultaneous reduction, functionalization and stitching of graphene oxide with ethylenediamine for composites application. 2013 , 1, 1349-1358 | | 178 |
| 419 | Preparation and characterization of polysulfone/graphite nanosheets composites capsules for the adsorption of phenol in aqueous solution. <i>Polymer Composites</i> , 2013 , 34, 204-213 | 3 | 4 |
| 418 | Preparation and characterization of the graphene/carbon nanotube/CoFe ₂ O ₄ /polyaniline composite with reticular branch structures. 2013 , 142, 395-402 | | 19 |
| 417 | A Comprehensive Review of Graphene Nanocomposites: Research Status and Trends. 2013 , 2013, 1-14 | | 151 |
| 416 | Preparation of poly(diallyldimethylammonium chloride)-functionalized graphene and its applications for H ₂ O ₂ and glucose sensing. 2013 , 111, 411-418 | | 28 |
| 415 | Synthesis and electrochemical properties of reduced graphene oxide via chemical reduction using thiourea as a reducing agent. 2013 , 113, 5-8 | | 69 |
| 414 | Effects of various surfactants on the dispersion stability and electrical conductivity of surface modified graphene. <i>Journal of Alloys and Compounds</i> , 2013 , 562, 134-142 | 5-7 | 72 |
| 413 | Synthesis of water dispersible polyaniline/poly(styrenesulfonic acid) modified graphene composite and its electrochemical properties. 2013 , 96, 103-109 | | 53 |
| 412 | Supramolecular assembly of enzyme on functionalized graphene for electrochemical biosensing. 2013 , 45, 102-7 | | 47 |
| 411 | Effect of thermally reduced graphite oxide (TrGO) on the polymerization kinetics of poly(butylene terephthalate) (pCBT)/TrGO nanocomposites prepared by in situ ring-opening polymerization of cyclic butylene terephthalate. 2013 , 54, 1603-1611 | | 31 |
| 410 | Facile preparation of polydopamine-reduced graphene oxide nanocomposite and its electrochemical application in simultaneous determination of hydroquinone and catechol. 2013 , 177, 344-349 | | 107 |
| 409 | Positive piezoresistive behavior of electrically conductive alkyl-functionalized graphene/polydimethylsilicone nanocomposites. 2013 , 1, 515-521 | | 95 |
| 408 | The production of a melt-spun functionalized graphene/poly(ϵ -caprolactam) nanocomposite fiber. 2013 , 81, 61-68 | | 36 |
| 407 | Large-Area 2-D Electronics: Materials, Technology, and Devices. 2013 , 101, 1638-1652 | | 39 |
| 406 | The reduction of graphene oxide by zinc powder to produce a zinc oxide-reduced graphene oxide hybrid and its superior photocatalytic activity. 2013 , 561-562, 125-130 | | 28 |
| 405 | A new green, ascorbic acid-assisted method for versatile synthesis of Au/graphene hybrids as efficient surface-enhanced Raman scattering platforms. 2013 , 1, 4094 | | 91 |
| 404 | Influence of functional graphene as filler on the tribological behaviors of Nomex fabric/phenolic composite. 2013 , 49, 157-164 | | 83 |

| | | |
|-----|---|-----|
| 403 | Fe ₃ O ₄ magnetic nanoparticles/reduced graphene oxide nanosheets as a novel electrochemical and bioelectrochemical sensing platform. 2013 , 49, 1-8 | 410 |
| 402 | One-pot hydrothermal synthesis of ZnO-reduced graphene oxide composites using Zn powders for enhanced photocatalysis. 2013 , 229, 533-539 | 119 |
| 401 | A review on synthesis and properties of polymer functionalized graphene. 2013 , 54, 5087-5103 | 380 |
| 400 | An easy and eco-friendly method to prepare reduced graphene oxide with Fe(OH) ₂ for use as a conductive additive for LiFePO ₄ cathode materials. 2013 , 3, 4408 | 32 |
| 399 | Functionalization of graphene using trimethoxysilanes and its reinforcement on polypropylene nanocomposites. 2013 , 570, 125-131 | 52 |
| 398 | Scalable and versatile graphene functionalized with the Mannich condensate. 2013 , 5, 2174-81 | 26 |
| 397 | The modification of graphene with alcohols and its use in shape memory polyurethane composites. 2013 , 62, 54-63 | 31 |
| 396 | Preparation, Characterization, Thermal, and Flame-Retardant Properties of Green Silicon-Containing Epoxy/Functionalized Graphene Nanosheets Composites. 2013 , 2013, 1-10 | 16 |
| 395 | Catalytic reduction of graphene oxide nanosheets by glutathione peroxidase mimetics reveals a new structural motif in graphene oxide. 2013 , 19, 16699-706 | 17 |
| 394 | Role of surfactant molecular weight on morphology and properties of functionalized graphite oxide filled polypropylene nanocomposites. 2014 , 8, 881-894 | 8 |
| 393 | Dispersion of Single and Multiwalled Nanotubes with Poly(sodium styrene sulfonate) [Effect of pH and Ionic Strength on Dispersion Stability]. 2014 , 67, 66 | 4 |
| 392 | Preparation and characterization of sulfonated poly (ether sulfone)s containing hexabenzocoronene graphene moiety for PEMF. 2014 , | |
| 391 | UV Curing of Perfluoropolyether Oligomers Containing Graphene Nanosheets to Enhance Water-Vapor Barrier Properties. 2014 , 215, 1588-1592 | 12 |
| 390 | Synthesis and preparation of alkyl-functionalized graphene oxide/polyimide nanocomposites. 2014 , 22, 1344-1347 | 4 |
| 389 | A High Performance Electrochemical Biosensing Platform for Glucose Detection and IgE Aptasensing Based on Fe ₃ O ₄ /Reduced Graphene Oxide Nanocomposite. 2014 , 26, 129-138 | 15 |
| 388 | Effect of polystyrene long branch chains on melt behavior and foaming performance of poly(vinyl chloride)/graphene nanocomposites. 2014 , 4, 64053-64060 | 13 |
| 387 | The Preparation of Graphene Oxide and Its Derivatives and Their Application in Bio-Tribological Systems. 2014 , 2, 137-161 | 104 |
| 386 | Synthesis and characterizations of graphene/copper nanocomposites and their antifriction application. 2014 , 20, 2043-2049 | 49 |

| | | |
|-----|---|---------|
| 385 | One-pot surface functionalization and reduction of graphene oxide with long-chain molecules: Preparation and its enhancement on the thermal and mechanical properties of polyurea. 2014 , 236, 233-241 | 62 |
| 384 | Reduced graphene oxide upconversion nanoparticle hybrid for electrochemiluminescent sensing of a prognostic indicator in early-stage cancer. 2014 , 10, 330-6 | 53 |
| 383 | Characterization and performance of dodecyl amine functionalized graphene oxide and dodecyl amine functionalized graphene/high-density polyethylene nanocomposites: A comparative study. 2014 , 131, n/a-n/a | 35 |
| 382 | Graphene nanosheets synthesis via chemical reduction of graphene oxide using sodium acetate trihydrate solution. 2014 , 193, 132-138 | 48 |
| 381 | Synthesis of well dispersed graphene in conjugated poly(3,4-ethylenedioxythiophene):polystyrene sulfonate via click chemistry. 2014 , 93, 1-8 | 37 |
| 380 | Low-dimensional carbonaceous nanofiller induced polymer crystallization. 2014 , 39, 555-593 | 124 |
| 379 | Evolution from graphite to graphene elastomer composites. 2014 , 39, 749-780 | 272 |
| 378 | Preparation and characterization of maleated polylactide-functionalized graphite oxide nanocomposites. 2014 , 21, 1 | 11 |
| 377 | Performance of graphene, carbon nanotube, and gold nanoparticle chemiresistor sensors for the detection of petroleum hydrocarbons in water. 2014 , 16, 1 | 27 |
| 376 | Thermal performance of poly(ethylene disulfide)/expanded graphite nanocomposites. 2014 , 117, 525-535 | 28 |
| 375 | Enhanced properties of aryl diazonium salt-functionalized graphene/poly(vinyl alcohol) composites. 2014 , 245, 311-322 | 40 |
| 374 | Dispersibility of reduced alkylamine-functionalized graphene oxides in organic solvents. 2014 , 424, 62-6 | 50 |
| 373 | Multifunctional organically modified graphene with super-hydrophobicity. 2014 , 7, 418-433 | 59 |
| 372 | Optical and electronic properties of thin films and solutions of functionalized forms of graphene and related carbon materials. <i>Carbon</i> , 2014 , 72, 82-88 | 10.4 23 |
| 371 | Graphene-reinforced calcium silicate coatings for load-bearing implants. 2014 , 9, 025009 | 44 |
| 370 | Covalently functionalized graphene sheets with biocompatible natural amino acids. 2014 , 307, 533-542 | 132 |
| 369 | Chemical Functionalization of Graphene for Biomedical Applications. 2014 , 95-138 | 8 |
| 368 | Reinforcing epoxy resin through covalent integration of functionalized graphene nanosheets. 2014 , 25, 418-423 | 33 |

| | | |
|-----|--|-------|
| 367 | A facile and general route for the synthesis of semiconductor quantum dots on reduced graphene oxide sheets. 2014 , 4, 13601 | 8 |
| 366 | Self-assembly of graphene oxide coated soft magnetic carbonyl iron particles and their magnetorheology. 2014 , 115, 17B508 | 13 |
| 365 | Effect of graphite nanoplatelets on the structure and properties of PA6-elastomer nanocomposites. 2014 , 50, 39-45 | 35 |
| 364 | Effects of dodecyl amine functionalized graphene oxide on the crystallization behavior of isotactic polypropylene. 2014 , 131, n/a-n/a | 7 |
| 363 | Fabrication of flexible SWCNT thin films through electrohydrodynamic atomization technique and investigation of their electrical properties. 2014 , 115, 215-218 | 2 |
| 362 | Nitrogen-doped graphene-supported Co/CoN _x nanohybrid as a highly efficient electrocatalyst for oxygen reduction reaction in an alkaline medium. 2014 , 4, 62272-62280 | 12 |
| 361 | In Situ Reduction of Graphene Oxide in an Epoxy Resin Thermally Cured with Amine. 2014 , 299, 757-763 | 13 |
| 360 | Graphene Modified Lipophilically by Stearic Acid and its Composite With Low Density Polyethylene. 2014 , 53, 1193-1204 | 170 |
| 359 | Redox-crosslinked graphene networks with enhanced electrochemical capacitance. 2014 , 2, 12924 | 26 |
| 358 | Reduced silanized graphene oxide/epoxy-polyurethane composites with enhanced thermal and mechanical properties. 2014 , 316, 114-123 | 63 |
| 357 | One-pot hydrothermal synthesis of zirconium dioxide nanoparticles decorated reduced graphene oxide composite as high performance electrochemical sensing and biosensing platform. 2014 , 143, 196-206 | 58 |
| 356 | Nitrogen-doped reduced graphene oxide-Ni(OH) ₂ -built 3D flower composite with easy hydrothermal process and excellent electrochemical performance. 2014 , 138, 69-78 | 39 |
| 355 | Development of nanofiltration membrane with high salt selectivity and performance stability using polyelectrolyte multilayers. 2014 , 351, 19-26 | 52 |
| 354 | Enhanced thermal conductivities of graphene oxide nanofluids. 2014 , 57, 128-131 | 128 |
| 353 | Fabrication and properties of Nd-La doped Sr ₂ CuMgFe ₂₈ O ₄₆ nanoparticles anchored with sheets of reduced graphene oxide. <i>Ceramics International</i> , 2014 , 40, 14501-14507 | 5.1 2 |
| 352 | Preparation of Pt-Co nanoparticles by galvanostatic pulse electrochemical codeposition on in situ electrochemical reduced graphene nanoplates based carbon paper electrode for oxygen reduction reaction in proton exchange membrane fuel cell. 2014 , 315, 222-234 | 20 |
| 351 | Advanced oxygen reduction reaction catalyst based on nitrogen and sulfur co-doped graphene in alkaline medium. 2014 , 16, 23196-205 | 31 |
| 350 | Towards balanced strength and toughness improvement of isotactic polypropylene nanocomposites by surface functionalized graphene oxide. 2014 , 2, 3190-3199 | 60 |

| | | | |
|-----|--|-----|-----|
| 349 | Processing of nanostructured polymers and advanced polymeric based nanocomposites. 2014 , 85, 1-46 | | 165 |
| 348 | RhB Adsorption Performance of Magnetic Adsorbent Fe ₃ O ₄ /RGO Composite and Its Regeneration through A Fenton-like Reaction. 2014 , 6, 125-135 | | 92 |
| 347 | Sulfonated poly(ether sulfone) electrolytes structured with mesonaphthobifluorene graphene moiety for PEMFC. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 1532-1538 | 6.7 | 17 |
| 346 | Preparation and properties of multi-layered polypyrrole/polyethylene glycol/poly(styrene-co-maleic anhydride) cumene terminated/4,4'-methylenedianiline/graphite-based nanocomposites. 2014 , 30, 388-411 | | 4 |
| 345 | Preparation of functionalized graphene/SEBS-g-MAH nanocomposites and improvement of its electrical, mechanical properties. 2014 , 133, 200-203 | | 23 |
| 344 | The effect of spin-coated polyethylene glycol on the electrical and optical properties of graphene film. 2014 , 313, 883-887 | | 7 |
| 343 | Sweet graphene I: toward hydrophilic graphene nanosheets via click grafting alkyne-saccharides onto azide-functionalized graphene oxide. 2014 , 396, 1-8 | | 49 |
| 342 | Crystalline properties, dielectric response and thermal stability of in-situ reduced graphene oxide/poly(vinylidene fluoride) nanocomposites. 2014 , 21, 1446-1454 | | 11 |
| 341 | Carbon black/sulfur-doped graphene composite prepared by pyrolysis of graphene oxide with sodium polysulfide for oxygen reduction reaction. 2014 , 142, 51-60 | | 26 |
| 340 | Nanocomposite of BiPO ₄ and reduced graphene oxide as an efficient photocatalyst for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13527-13533 | 6.7 | 42 |
| 339 | Preparation and characterizations of Cu ₂ O/reduced graphene oxide nanocomposites with high photo-catalytic performances. 2014 , 261, 42-48 | | 98 |
| 338 | Rheology, Electrical Properties, and Percolation of TRGO-Filled EVA-Copolymers. 2014 , 299, 1134-1144 | | 15 |
| 337 | Redox reaction between graphene oxide and In powder to prepare In ₂ O ₃ /reduced graphene oxide hybrids for supercapacitors. 2014 , 266, 282-290 | | 42 |
| 336 | RETRACTED: A review of composite and metallic bipolar plates in proton exchange membrane fuel cell: Materials, fabrication, and material selection. 2014 , 265, 370-390 | | 202 |
| 335 | Novel graphene papers with sporadic alkyl brushes on the basal plane as a high-capacity flexible anode for lithium ion batteries. 2014 , 135, 478-486 | | 11 |
| 334 | Mechanical-Thermal-Electrical and Morphological Properties of Graphene Reinforced Polymer Composites: A Review. 2014 , 67, 803-816 | | 44 |
| 333 | Ionic liquid-tethered Graphene Oxide/Ionic Liquid Electrolytes for Highly Efficient Dye Sensitized Solar Cells. 2014 , 134, 209-214 | | 35 |
| 332 | Electrochemically active MnO ₂ /RGO nanocomposites using Mn powder as the reducing agent of GO and the MnO ₂ precursor. 2014 , 130, 305-313 | | 48 |

| | | |
|-----|---|---------|
| 331 | Preparation and physical properties of an epoxy nanocomposite with amine-functionalized graphenes. 2014 , 54, 985-991 | 19 |
| 330 | Homogeneous dispersion of high-conductive reduced graphene oxide sheets for polymethylmethacrylate nanocomposites. 2014 , 29, 241-247 | 7 |
| 329 | Enhanced Properties of Epoxy Composite Reinforced With Amino-Functionalized Graphene Nanoplatelets. 2015 , | 0 |
| 328 | Electrochemical synthesis and characterization of stable colloidal suspension of graphene using two-electrode cell system. 2015 , | 7 |
| 327 | Surface Functionalization of Graphene. 2015 , 25-65 | 8 |
| 326 | Highly oxidized graphene nanosheets via the oxidization of detonation carbon. 2015 , 120, 543-549 | 5 |
| 325 | Autophagy in RAW264.7 Cells Treated with Surface-Functionalized Graphene Oxides. 2015 , 2015, 1-8 | 3 |
| 324 | Graphene quantum dot-doped polyaniline nanofiber as high performance supercapacitor electrode materials. 2015 , 51, 12365-8 | 195 |
| 323 | Impact of trace graphene oxide in coagulation bath on morphology and performance of polysulfone ultrafiltration membrane. 2015 , 147, 364-371 | 23 |
| 322 | Sulfur-doped graphene as a catalyst support: Influences of carbon black and ruthenium nanoparticles on the hydrogen evolution reaction performance. <i>Carbon</i> , 2015 , 93, 762-773 | 10.4 56 |
| 321 | Preparation of different sized nano-silver loaded on functionalized graphene oxide with highly effective antibacterial properties. 2015 , 3, 7020-7029 | 85 |
| 320 | A manufacturing perspective on graphene dispersions. 2015 , 20, 367-382 | 249 |
| 319 | Morphology and the physical and thermal properties of thermoplastic polyurethane reinforced with thermally reduced graphene oxide. 2015 , 17, 88-94 | 15 |
| 318 | Fabrication of bulk nano-SiC via in-situ reaction of core-shell structural SiC@C with Si using high pressure high temperature sintering method. 2015 , 144, 69-73 | 5 |
| 317 | Cellulose nanofibril/reduced graphene oxide/carbon nanotube hybrid aerogels for highly flexible and all-solid-state supercapacitors. 2015 , 7, 3263-71 | 292 |
| 316 | Preparation of nanoporous graphene and the application of its nanocomposite membrane in propylene/propane separation. 2015 , 08, 1550019 | 3 |
| 315 | Electrochemical immunosensor for botulinum neurotoxin type-E using covalently ordered graphene nanosheets modified electrodes and gold nanoparticles-enzyme conjugate. 2015 , 69, 249-56 | 60 |
| 314 | Physical and electrochemical characterization of reduced graphene oxide/silver nanocomposites synthesized by adopting a green approach. 2015 , 5, 25357-25364 | 46 |

| | | |
|-----|---|--------|
| 313 | TiO ₂ nanoparticle modified organ-like Ti ₃ C ₂ MXene nanocomposite encapsulating hemoglobin for a mediator-free biosensor with excellent performances. 2015 , 74, 1022-8 | 225 |
| 312 | Facile fabrication of graphene/nickel oxide composite with superior supercapacitance performance by using alcohols-reduced graphene as substrate. <i>Journal of Alloys and Compounds</i> , 2015 , 644, 165-171 | 5-7 16 |
| 311 | Synthesis and structure of high quality graphene prepared via solvothermal exfoliation of intercalated graphite flakes. 2015 , 86, 270-274 | 63 |
| 310 | Reduced graphene oxide/ZnO nanohybrids: Metallic Zn powder induced one-step synthesis for enhanced photocurrent and photocatalytic response. 2015 , 353, 580-587 | 51 |
| 309 | Graphene nanoplatelets-reinforced polyetherimide foams prepared by water vapor-induced phase separation. 2015 , 9, 412-423 | 22 |
| 308 | Simultaneous chemical reduction and surface functionalization of graphene oxide for efficient lubrication of steel-steel contact. 2015 , 5, 61888-61899 | 30 |
| 307 | Electrochemical sensor for mercuric chloride based on graphene-MnO ₂ composite as recognition element. 2015 , 174, 221-229 | 19 |
| 306 | Toughening mechanisms in epoxy/graphene platelets composites. 2015 , 73-112 | 12 |
| 305 | Electrochemical sensing of ethylenediamine based on cuprous oxide/graphene hybrid structures. 2015 , 50, 4288-4299 | 7 |
| 304 | Room temperature trimethylamine gas sensor based on aqueous dispersed graphene. 2015 , | 1 |
| 303 | Reduced graphene oxide diffraction gratings from duplication of photoinduced azo polymer surface-relief-gratings through soft-lithography. 2015 , 3, 6224-6231 | 10 |
| 302 | Effects of phenylhydrazine-4-sulfonic acid on the reduction of GO and preparation of hydrophilic graphene with broad pH stability and antioxidant activity. 2015 , 5, 38696-38705 | 9 |
| 301 | Nb ₂ O ₅ nanoparticles supported on reduced graphene oxide sheets as electrocatalyst for the H ₂ O ₂ electrogeneration. 2015 , 332, 51-61 | 45 |
| 300 | Synthesis of graphene-based polymeric nanocomposites. 2015 , 133-155 | 3 |
| 299 | Deoxygenation of graphene oxide using household baking soda as a reducing agent: a green approach. 2015 , 5, 70461-70472 | 31 |
| 298 | Enhanced visible light photocatalytic activity and hydrogen evolution through novel heterostructure AgI@TiO ₂ nanocomposites. 2015 , 410, 242-252 | 8 |
| 297 | Keratin/polyethylene oxide bio-nanocomposites reinforced with ultrasonically functionalized graphene. 2015 , 5, 91280-91287 | 12 |
| 296 | Functionalization of graphene using deep eutectic solvents. 2015 , 10, 1004 | 112 |

| | | | |
|-----|---|-----|-----|
| 295 | Improved mechanical and barrier properties of low-density polyethylene nanocomposite films by incorporating hydrophobic graphene oxide nanosheets. 2015 , 5, 80739-80748 | | 21 |
| 294 | Functionalization of graphene with hyperbranched polyglycerol for stable aqueous dispersion. 2015 , 08, 1550068 | | 15 |
| 293 | Green fabricated reduced graphene oxide: evaluation of its application as nano-carrier for pH-sensitive drug delivery. 2015 , 496, 984-92 | | 39 |
| 292 | Effect of graphene oxide on the structure and properties of poly(vinyl alcohol) composite films. 2015 , 57, 836-844 | | 21 |
| 291 | An Organ-Like Titanium Carbide Material (MXene) with Multilayer Structure Encapsulating Hemoglobin for a Mediator-Free Biosensor. 2015 , 162, B16-B21 | | 187 |
| 290 | Graphene-zinc oxide nanorod nanocomposite as photocatalyst for enhanced degradation of dyes under UV light irradiation. <i>Ceramics International</i> , 2015 , 41, 4549-4557 | 5.1 | 52 |
| 289 | New multi-phenylene polymer electrolyte containing hexabenzocoronene interior for PEMFC. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 1316-1323 | 6.7 | 3 |
| 288 | Porous NiCo2O4 nanosheets/reduced graphene oxide composite: facile synthesis and excellent capacitive performance for supercapacitors. 2015 , 440, 211-8 | | 58 |
| 287 | Cobalt-porphyrin noncovalently functionalized graphene as nonprecious-metal electrocatalyst for oxygen reduction reaction in an alkaline medium. 2015 , 19, 497-506 | | 27 |
| 286 | Carboxylatopillarene-Modified Reduced Graphene Oxides with High Water Dispersibility for Fluorescent Dye Sensing. 2015 , 33, 125-130 | | 31 |
| 285 | High performance supercapacitor electrode materials based on porous NiCo2O4 hexagonal nanoplates/reduced graphene oxide composites. 2015 , 262, 980-988 | | 120 |
| 284 | Degradation of Organic Dyes by CdSe Decorated Graphene Nanocomposite in Dark Ambiance. 2015 , 23, 437-448 | | 11 |
| 283 | Graphene/thermoplastic polyurethane nanocomposites: Surface modification of graphene through oxidation, polyvinyl pyrrolidone coating and reduction. 2015 , 68, 264-275 | | 48 |
| 282 | Facile preparation, characterization and performance of noncovalently functionalized graphene/epoxy nanocomposites with poly(sodium 4-styrenesulfonate). 2015 , 68, 1-9 | | 49 |
| 281 | GrapheneBickel/n-carboxylic acids composites as form-stable phase change materials for thermal energy storage. 2015 , 132, 425-430 | | 76 |
| 280 | Mechanical property and structure of covalent functionalised graphene/epoxy nanocomposites. 2014 , 4, 4375 | | 352 |
| 279 | Monolayer graphene/SiC Schottky barrier diodes with improved barrier height uniformity as a sensing platform for the detection of heavy metals. 2016 , 7, 1800-1814 | | 20 |
| 278 | Mechanical, Thermal, and Electrical Properties of Graphene-Epoxy Nanocomposites-A Review. 2016 , 8, | | 183 |

| | | |
|-----|--|----|
| 277 | . 2016, | 1 |
| 276 | Manganese Oxide Nanoparticles/Reduced Graphene Oxide as Novel Electrochemical Platform for Immobilization of FAD and its Application as Highly Sensitive Persulfate Sensor. 2016, 28, 493-502 | 4 |
| 275 | Viscoelastic Properties of Carbon/Epoxy Amino-Functionalized Graphene Nanoplatelet Composite. 2016, | |
| 274 | Impact of nature and preparation method of graphene on the electrical behavior of LDPE/Graphene composites. 2016, | 1 |
| 273 | Electrochemical detection of Cu 2+ using graphene/SnS nanocomposite modified electrode. 2016, 769, 21-27 | 18 |
| 272 | The first voltammetric investigation for astilbin based on β -cyclodextrin functionalized graphene modified electrode. 2016, 8, 4888-4894 | 3 |
| 271 | Supercapacitive characteristics of carbon-based graphene composites. 2016, 204, 146-153 | 24 |
| 270 | Construction of a cobalt-embedded nitrogen-doped carbon material with the desired porosity derived from the confined growth of MOFs within graphene aerogels as a superior catalyst towards HER and ORR. 2016, 4, 15536-15545 | 65 |
| 269 | Nanostructured Catalysts. 2016, 285-327 | |
| 268 | Graphene Preparation by Phenylmagnesium Bromide and Its Excellent Electrical Conductivity Performance in Graphene/Poly(p-phenylene sulfide) Composites. 2016, 55, 10860-10867 | 4 |
| 267 | Piezoelectric property of PVDF/graphene composite films using 1H, 1H, 2H, 2H-Perfluorooctyltriethoxysilane as a modifying agent. <i>Journal of Alloys and Compounds</i> , 2016, 688, 885-892 | 44 |
| 266 | Toward Chemical Perfection of Graphene-Based Gene Carrier via Ugi Multicomponent Assembly Process. 2016, 17, 2963-71 | 34 |
| 265 | Enhancement of peroxidase-like activity of N-doped graphene assembled with iron-tetrapyridylporphyrin. 2016, 6, 79497-79506 | 13 |
| 264 | P-phenylenediamine-benzoquinone Schiff base Ag(I) complexes chemically bonded to few-layered graphene as flexible materials for electromagnetic studies. 2016, 51, 10574-10584 | 2 |
| 263 | Subsurface Imaging of Functionalized and Polymer-Grafted Graphene Oxide. 2016, 49, 7415-7425 | 10 |
| 262 | Polydopamine-Functionalized Graphene Oxide Loaded with Gold Nanostars and Doxorubicin for Combined Photothermal and Chemotherapy of Metastatic Breast Cancer. 2016, 5, 2227-36 | 47 |
| 261 | Friction-Induced Transformation from Graphite Dispersed in Esterified Bio-Oil to Graphene. 2016, 63, 1 | 14 |
| 260 | Selective removal of anionic dyes using poly(N,N-dimethyl amino ethylmethacrylate) functionalized graphene oxide. 2016, 6, 67242-67251 | 12 |

| | | |
|-----|--|--------|
| 259 | Preparation of porous reduced graphene oxide using cellulose acetate for high performance capacitive desalination. 2016 , 6, 70532-70536 | 4 |
| 258 | Nitrogen-doped 3D porous carbons with iron carbide nanoparticles encapsulated in graphitic layers derived from functionalized MOF as an efficient noble-metal-free oxygen reduction electrocatalysts in both acidic and alkaline media. 2016 , 6, 110820-110830 | 20 |
| 257 | Effect of hydrogen peroxide and camellia sinensis extract on reduction of oxygen level in graphene oxide. 2016 , 3, 105011 | 3 |
| 256 | 3-D mesoporous nitrogen-doped reduced graphene oxide as an efficient metal-free electrocatalyst for oxygen reduction reaction in alkaline fuel cells: Role of π and lone pair electrons. 2016 , 222, 608-618 | 40 |
| 255 | Self-assembled platinum nanoparticles on sulfonic acid-grafted graphene as effective electrocatalysts for methanol oxidation in direct methanol fuel cells. 2016 , 6, 21530 | 70 |
| 254 | Thermal Conductivity of Graphene and Its Polymer Nanocomposites: A Review. 2016 , 1-28 | 3 |
| 253 | Reduced Graphene Oxide Impregnated Antimony Nanoparticle Sensor for Electroanalysis of Platinum Group Metals. 2016 , 28, 1597-1607 | 13 |
| 252 | Lithium-ion battery anodes of highly dispersed carbon nanotubes, graphene nanoplatelets, and carbon nanofibers. 2016 , 27, 10342-10346 | 6 |
| 251 | Effect of oxidation degrees of graphene oxide on the structure and properties of poly (vinyl alcohol) composite films. 2016 , 129, 146-152 | 82 |
| 250 | Effective Elastic Properties of a Novel Continuous Fuzzy Fiber-Reinforced Composite with Wavy Carbon Nanotubes. 2016 , 17-40 | 1 |
| 249 | Reduced graphene oxide supported TiO ₂ as high performance catalysts for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3436-3445 | 6.7 32 |
| 248 | Preparation and enhanced mechanical properties of non-covalently-functionalized graphene oxide/cellulose acetate nanocomposites. 2016 , 90, 223-231 | 59 |
| 247 | Synthesis and characterization of graphene from waste dry cell battery for electronic applications. 2016 , 6, 10557-10564 | 44 |
| 246 | Preparation of graphene oxide by dry planetary ball milling process from natural graphite. 2016 , 6, 12657-12668 | 71 |
| 245 | Green and rapid synthesis of a water-dispersible Pt/reduced graphene oxide hybrid material for hydrogen peroxide detection. 2016 , 8, 816-823 | 7 |
| 244 | Characterizations of zinc oxide nanorods incorporating a graphene layer as antibacterial nanocomposites on silicon substrates. <i>Ceramics International</i> , 2016 , 42, 3424-3428 | 5.1 14 |
| 243 | Experimental investigation of laminar forced convective heat transfer of Graphene/water nanofluid inside a circular tube. 2016 , 100, 316-323 | 78 |
| 242 | PVA/polyethyleneimine-functionalized graphene composites with optimized properties. 2016 , 99, 235-242 | 68 |

| | | | |
|-----|--|------|----|
| 241 | Micro-Raman spectroscopy and effective conductivity studies of graphene nanoplatelets/polyaniline composites. 2016 , 27, 6249-6257 | | 16 |
| 240 | Ugi Four-Component Assembly Process: An Efficient Approach for One-Pot Multifunctionalization of Nanographene Oxide in Water and Its Application in Lipase Immobilization. 2016 , 28, 3004-3016 | | 50 |
| 239 | Preparation of thermally reduced graphene oxide and the influence of its reduction temperature on the thermal, mechanical, flame retardant performances of PS nanocomposites. 2016 , 84, 336-343 | | 55 |
| 238 | Nitrogen and sulfur co-doped graphene aerogels as an efficient metal-free catalyst for oxygen reduction reaction in an alkaline solution. 2016 , 6, 22781-22790 | | 37 |
| 237 | Preparation of platinum catalysts supported on functionalized graphene and the electrocatalytic properties for ethanol oxidation in direct ethanol fuel cell. 2016 , 27, 6208-6215 | | 9 |
| 236 | Synthesis of graphite oxide from milled graphite studied by solid-state ¹³ C nuclear magnetic resonance. <i>Carbon</i> , 2016 , 98, 496-503 | 10.4 | 43 |
| 235 | Eco-Friendly Synthesis of Graphene Oxide Reinforced Hydroxypropyl Methylcellulose/Polyvinyl Alcohol Blend Nanocomposites Filled with Zinc Oxide Nanoparticles for High-k Capacitor Applications. 2016 , 55, 1240-1253 | | 60 |
| 234 | Lithium diffusion in graphene and graphite: Effect of edge morphology. <i>Carbon</i> , 2016 , 103, 209-216 | 10.4 | 40 |
| 233 | Fabrication of SGO/Nafion-based IPMC soft actuators with sea anemone-like Pt electrodes and enhanced actuation performance. <i>Carbon</i> , 2016 , 100, 243-257 | 10.4 | 33 |
| 232 | Functionalised graphene-multiwalled carbon nanotube hybrid poly(styrene-b-butadiene-b-styrene) nanocomposites. 2016 , 90, 315-325 | | 44 |
| 231 | One-step preparation of graphene nanosheets via ball milling of graphite and the application in lithium-ion batteries. 2016 , 51, 3675-3683 | | 42 |
| 230 | Carbon Containing Nanostructured Polymer Blends. 2016 , 187-213 | | 1 |
| 229 | Preparation and properties of poly(dimethylsilyleneethynylene-phenylene-ethynylene)/graphene Composites. 2017 , 28, 1516-1521 | | |
| 228 | Preparation, characterization, Raman, and terahertz spectroscopy study on carbon nanotubes, graphene nano-sheets, and onion like carbon materials. 2017 , 189, 127-135 | | 19 |
| 227 | The Adaptive Tribological Investigation of Polycaprolactam/Graphene Nanocomposites. 2017 , 65, 1 | | 11 |
| 226 | Fabrication of hydrothermally reduced graphene oxide/chitosan composite membranes with a lamellar structure on methanol dehydration. <i>Carbon</i> , 2017 , 117, 112-119 | 10.4 | 58 |
| 225 | Effect of octadecylamine modified graphene on thermal stability, mechanical properties and gas barrier properties of brominated butyl rubber. 2017 , 25, 270-275 | | 18 |
| 224 | An anthraquinone-functionalized reduced graphene oxide as electrode material for rechargeable batteries. <i>Carbon</i> , 2017 , 116, 154-166 | 10.4 | 14 |

| | | | |
|-----|--|-----|-----|
| 223 | Vibrational and optical properties of Meso-tetrakis(4-phenylsulfonate) porphyrin decorated with graphene oxide.. 2017 , 186, 012003 | | 3 |
| 222 | Comparative Study with a Unique Arrangement to Tap Piezoelectric Output to Realize a Self Poled PVDF Based Nanocomposite for Energy Harvesting Applications. 2017 , 2, 2774-2782 | | 22 |
| 221 | Highly efficient recovery of propane by mixed-matrix membrane via embedding functionalized graphene oxide nanosheets into polydimethylsiloxane. 2017 , 63, 3501-3510 | | 20 |
| 220 | EMI shielding effectiveness of graphene decorated with graphene quantum dots and silver nanoparticles reinforced PVDF nanocomposites. 2017 , 24, 861-882 | | 49 |
| 219 | Fabrication and Physical Properties of Poly(ϵ -Caprolactone)/Modified Graphene Nanocomposite. 2017 , 302, 1600328 | | 13 |
| 218 | Zirconia on Reduced Graphene Oxide Sheets: Synergistic Catalyst with High Selectivity for H ₂ O ₂ Electrogeneration. 2017 , 4, 508-513 | | 13 |
| 217 | A review on graphene/TiO ₂ and doped graphene/TiO ₂ nanocomposite photocatalyst for water and wastewater treatment. 2017 , 6, 1-14 | | 134 |
| 216 | Performance evaluation of polysulfone/graphene nanocomposites. 2017 , 108, 143-150 | | 2 |
| 215 | Ultrathin graphene nanosheets derived from rice husks for sustainable supercapacitor electrodes. 2017 , 41, 13792-13797 | | 57 |
| 214 | Characterization of carbon/carbon composite/Ti6Al4V joints brazed with graphene nanosheets strengthened AgCuTi filler. <i>Ceramics International</i> , 2017 , 43, 16600-16610 | 5.1 | 20 |
| 213 | The use of conducting polymer to stabilize the nanostructured photocatalyst for water remediation. 2017 , 5, 5547-5555 | | 3 |
| 212 | Improved electrode materials for Li-ion batteries using microscale and sub-micrometer scale porous materials - A review. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 463-474 | 5.7 | 13 |
| 211 | Observation of magnetism in La _{0.7} Sr _{0.3} MnO ₃ /graphene nanoribbons complex: a probable magnetoelectronic material study. 2017 , 4, 075050 | | 1 |
| 210 | Simultaneous reduction and nitrogen functionalization of graphene oxide using lemon for metal-free oxygen reduction reaction. 2017 , 372, 116-124 | | 39 |
| 209 | Study on the morphology development and dispersion mechanism of polypropylene/graphene nanoplatelets composites for different shear field. 2017 , 153, 209-221 | | 12 |
| 208 | Preparation of nitrogen-doped graphene by high-gravity technology and its application in oxygen reduction. 2017 , 34, 110-117 | | 9 |
| 207 | Fabrication of functionalized graphene filled carboxylated nitrile rubber nanocomposites as flexible dielectric materials. 2017 , 1, 780-788 | | 30 |
| 206 | Processing-morphology-property relationships of polypropylene/graphene nanoplatelets nanocomposites. 2017 , 134, | | 10 |

| | | |
|-----|--|----|
| 205 | Review on effects of hydrazine hydrate and L-ascorbic acid on electrical conductivity of graphene. 2017, | 1 |
| 204 | 5. Chemical Functionalization of Graphene Family Members. 2017, | 1 |
| 203 | Preparation and characterisation of graphene oxide nanofluid and its electrical conductivity. 2017, 7, 102 | 1 |
| 202 | Graphene-based Polymer Nanocomposites: Recent Advances and Still Open Challenges. 2017, 1, | 7 |
| 201 | Two-dimensional carbon-based nanocomposites for photocatalytic energy generation and environmental remediation applications. 2017, 8, 1571-1600 | 94 |
| 200 | Chemical Functionalization of Graphene Family Members. 2017, 2, | 9 |
| 199 | Facial Synthesis of Carrageenan/Reduced Graphene Oxide/Ag Composite as Efficient SERS Platform. 2017, 20, 15-20 | 20 |
| 198 | Morphology-performance relation of (Co)MoS ₂ catalysts in the hydrodesulfurization of FCC gasoline. 2018, 556, 20-28 | 27 |
| 197 | Charge Carrier Dynamics and pH Effect on Optical Properties of Anionic and Cationic Porphyrin/Graphene Oxide Composites. 2018, 47, 2897-2904 | 10 |
| 196 | Adsorption of essential minerals on l-glutamine functionalized zigzag graphene nanoribbon-A first principles DFT study. 2018, 449, 829-837 | 10 |
| 195 | Experimental and computational investigation of reduced graphene oxide nanoplatelets stabilized in poly(styrene sulfonate) sodium salt. 2018, 53, 10049-10058 | 13 |
| 194 | One-step nondestructive functionalization of graphene oxide paper with amines.. 2018, 8, 15253-15265 | 21 |
| 193 | Enhanced mechanical properties of silica nanoparticle-covered cross-linking graphene oxide filled thermoplastic polyurethane composite. 2018, 42, 3069-3077 | 25 |
| 192 | Underwater acoustic properties of graphene nanoplatelet-modified rubber. 2018, 37, 609-616 | 10 |
| 191 | Electrically Conductive Polymers and Composites for Biomedical Applications. 2018, 219-235 | 1 |
| 190 | Enhanced local controllable laser patterning of polymers induced by graphene/polystyrene composites. 2018, 141, 159-169 | 24 |
| 189 | Study of Optical and Magnetic Properties of Graphene-Wrapped ZnO Nanoparticle Hybrids. 2018, 34, 1497-1505 | 7 |
| 188 | Synergistic effect of CB and GO/CNT hybrid fillers on the mechanical properties and fatigue behavior of NR composites.. 2018, 8, 10573-10581 | 13 |

| | | |
|-----|---|------|
| 187 | Cell attachment evaluation of the immobilized bioactive peptide on a nanographene oxide composite. 2018 , 82, 323-329 | 13 |
| 186 | Electrospun PANi/GO composite nanofibers as water purification membranes. 2018 , 135, 45858 | 45 |
| 185 | Comparative study of different scalable routes to synthesize graphene oxide and reduced graphene oxide. 2018 , 203, 284-292 | 56 |
| 184 | Versatile protection of exterior coatings by the aid of graphene oxide nano-sheets; comparison with conventional UV absorbers. 2018 , 116, 90-101 | 20 |
| 183 | Ultrasensitive flexible FET-type aptasensor for CA 125 cancer marker detection based on carboxylated multiwalled carbon nanotubes immobilized onto reduced graphene oxide film. 2018 , 1000, 273-282 | 82 |
| 182 | Montmorillonite/graphene oxide hybrids and montmorillonite/graphene oxide/epoxy composite: Synthesis, characterization, and properties. <i>Polymer Composites</i> , 2018 , 39, E2084-E2095 | 3 10 |
| 181 | . 2018 , | 7 |
| 180 | Effect of Bipolar Plate Materials on Performance of Fuel Cells. 2018 , | 4 |
| 179 | Synthesis and Characterizations of Zinc Oxide on Reduced Graphene Oxide for High Performance Electrocatalytic Reduction of Oxygen. 2018 , 23, | 13 |
| 178 | Poole-Frenkel emission on functionalized, multilayered-packed reduced graphene oxide nanoplatelets. 2018 , 29, 505703 | 5 |
| 177 | pH and concentration effect on the optical absorption properties of Sn(V) tetrakis (4-pirydy) porphyrin functionalized graphene oxide.. 2018 , 984, 012004 | 2 |
| 176 | Composition, Structure and Morphology Evolution of Octadecylamine (ODA)/Reduced Graphene Oxide and Its Dispersion Stability under Different Reaction Conditions. 2018 , 11, | 11 |
| 175 | Preparation of Polyimide/Graphene Oxide Nanocomposite and Its Application to Nonvolatile Resistive Memory Device. 2018 , 10, | 17 |
| 174 | Fabrication of fluorine doped graphene and SmVO ₄ based dispersed and adsorptive photocatalyst for abatement of phenolic compounds from water and bacterial disinfection. 2018 , 203, 386-399 | 110 |
| 173 | Imidazolium-grafted graphene oxide via free radical polymerization: An efficient and simple method for an interpenetrating polymer network as electrolyte membrane. 2018 , 164, 204-213 | 17 |
| 172 | A ternary nanocomposite of reduced graphene oxide, Ag nanoparticle and Polythiophene used for supercapacitors. 2018 , 26, 360-369 | 12 |
| 171 | Fabrication and characteristics of graphene-reinforced silver nanowire/polybenzoxazine/epoxy copolymer composite thin films. 2018 , 67, 1081-1093 | 4 |
| 170 | Nanoadsorbents-based polymer nanocomposite for environmental remediation. 2018 , 243-260 | 4 |

| | | |
|-----|---|----|
| 169 | Chemical synthesis of single-layer graphene by using ball milling compared with NaBH ₄ and hydroquinone reductants. 2018 , 13, 1412-1416 | 4 |
| 168 | Octadecyl Amine Functionalized Graphene Oxide towards Hydrophobic Chemical Resistant Epoxy Nanocomposites. 2018 , 3, 7200-7207 | 23 |
| 167 | Nanomaterials for the sensing of narcotics: Challenges and opportunities. 2018 , 106, 84-115 | 30 |
| 166 | Effect of Ni Nanoparticles on HG Sheets Modified by GO on the Hydrogen Evolution Reaction. 2018 , 6, 10335-10343 | 11 |
| 165 | Facile tool for green synthesis of graphene sheets and their smart free-standing UV protective film. 2018 , 458, 425-430 | 26 |
| 164 | Electrochemical Characterization of High Energy Density Graphite Electrodes Made by Freeze-Casting. 2018 , 1, 4976-4981 | 33 |
| 163 | Core-Shell Pd ₉ Ru@Pt on Functionalized Graphene for Methanol Electrooxidation. 2018 , 165, H365-H373 | 3 |
| 162 | Influence of promoted bimetallic Ni-based catalysts and Micro/Mesopores carbonaceous supports for biomass hydrothermal conversion to H ₂ -rich gas. 2018 , 239, 383-397 | 32 |
| 161 | Cryo-EM Grid Preparation of Membrane Protein Samples for Single Particle Analysis. 2018 , 5, 74 | 10 |
| 160 | Microcellular polyetherimide/graphene-polysiloxane composite foam: intercalation structure, mechanical and thermal properties. 2018 , 67, 1655-1663 | 6 |
| 159 | Synthesis of reduced Graphene Oxide (rGO) using different treatments of Graphene Oxide (GO). 2018 , 358, 012046 | 15 |
| 158 | Functionalization of Carbon Nanostructures. 2019 , 123-144 | 14 |
| 157 | Graphene Effect on the Mechanical Properties of Poly (Ethylene Oxide)/ Graphene Oxide Nanocomposites Using Ultrasound Technique. 2019 , 1234, 012011 | 3 |
| 156 | Covalently linked benzimidazole-containing reduced graphene oxide/polyaniline nanocomposites as electrode materials.. 2019 , 9, 24646-24653 | 6 |
| 155 | Enhanced corrosion protective performance of graphene oxide-based composite films on AZ31 magnesium alloys in 3.5 wt% NaCl solution. 2019 , 493, 1224-1235 | 17 |
| 154 | Microwave absorption properties of heterostructure composites of two dimensional layered magnetic materials and graphene nanosheets. 2019 , 115, 043103 | 13 |
| 153 | Policy Search in Infinite-Horizon Discounted Reinforcement Learning: Advances through Connections to Non-Convex Optimization : Invited Presentation. 2019 , | |
| 152 | Self-Assembled Thin Films of Graphene Materials for Sensors. 2019 , 569-602 | |

| | | |
|-----|--|----|
| 151 | Graphene-Based Materials for Implants. 2019 , 143-175 | 0 |
| 150 | All-Fiber Erbium-Doped Q-Switched Laser With Recycled Graphite Oxide. 2019 , 31, 1713-1716 | 2 |
| 149 | In situ self-assembly of SiO ₂ coating Co ₃ O ₄ /graphene aerogel and its enhanced electrochemical performance for supercapacitors. 2019 , 30, 17218-17226 | 2 |
| 148 | Dispersing graphene in aqueous media: Investigating the effect of different surfactants. 2019 , 582, 123870 | 20 |
| 147 | Biocompatible synthesis of reduced graphene oxide from (L.) and their cytotoxicity against human cancer cell lines. 2019 , 24, e00376 | 20 |
| 146 | Ordered structure effects on β -nucleated isotactic polypropylene/graphene oxide composites with different thermal histories.. 2019 , 9, 19630-19640 | 8 |
| 145 | Graphitic carbon materials extracted from spent carbon cathode of aluminium reduction cell as anodes for lithium ion batteries: Converting the hazardous wastes into value-added materials. 2019 , 104, 201-209 | 18 |
| 144 | Synthesis of carbon nanofibers over lanthanum supported on radially aligned nanorutile: A parametric study. 2019 , 99, 107519 | 3 |
| 143 | One Step Synthesis of Covalent Connected Three-dimensional Graphene/Carbon Nanotube for Olaquinox Electrochemical Sensor. 2019 , 87, 20-25 | 1 |
| 142 | Nanolubricants dispersed with graphene and its derivatives: an assessment and review of the tribological performance. 2019 , 11, 3458-3483 | 68 |
| 141 | A Hybrid Material Combined Copper Oxide with Graphene for an Oxygen Reduction Reaction in an Alkaline Medium. 2019 , 24, | 11 |
| 140 | Reinforcing Mechanism of Graphene and Graphene Oxide Sheets on Cement-Based Materials. 2019 , 31, 04019014 | 20 |
| 139 | Extending the application of a magnetic PEG three-part drug release device on a graphene substrate for the removal of Gram-positive and Gram-negative bacteria and cancerous and pathologic cells. 2019 , 13, 1581-1591 | 9 |
| 138 | Hydrophobic Reduced Graphene Oxide-Based Ni Coating for Improved Tribological Application. 2019 , 28, 3704-3713 | 5 |
| 137 | Mechanistic Study on Adsorption Desulfurization Using Modified Graphene. 2019 , 58, 10589-10598 | 14 |
| 136 | The surface capacitance behavior and its contribution to the excellent performance of cobalt ferrite/carbon anode in lithium storage. 2019 , 30, 12659-12668 | 4 |
| 135 | Ultrafast carrier dynamics in 2D-2D hybrid structures of functionalized GO and CdSe nanoplatelets. 2019 , 21, 15568-15575 | 11 |
| 134 | Few-layered mesoporous graphitic carbon nitride: a graphene analogue with high capacitance properties. 2019 , 43, 11626-11635 | 6 |

| | | | |
|-----|---|-----|----|
| 133 | Formaldehyde adsorption composite paper with nacre-inspired structure and high mechanical strength properties. 2019 , 125, 1 | | 2 |
| 132 | Effects of stereo-defect distribution on the crystallization and polymorphic behavior of μ -nucleated isotactic polypropylene/graphene oxide composites with different melt structures. 2019 , 59, 1097-1104 | | 2 |
| 131 | Synthesis of high performing $\text{Cu}_{0.31}\text{Ni}_{0.69}\text{O}/\text{rGO}$ hybrid for oxygen reduction reaction in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 13345-13353 | 6.7 | 9 |
| 130 | Investigation of the effects of polycaprolactone molecular weight and graphene content on crystallinity, mechanical properties and shape memory behavior of polyurethane/graphene nanocomposites. 2019 , 96, 53-68 | | 41 |
| 129 | Electrocatalytic performance of reduced graphene oxide supported nano- NiZnO_2 for oxygen reduction reaction. 2019 , 232, 121-128 | | 0 |
| 128 | Highly Ordered 3D Porous Graphene Sponge for Wearable Piezoresistive Pressure Sensor Applications. 2019 , 25, 6378-6384 | | 22 |
| 127 | Bio-inspired and assembled fungal hyphae/carbon nanotubes aerogel for water-oil separation. 2019 , 30, 275601 | | 7 |
| 126 | Plasma-Derived Graphene-Based Materials for Water Purification and Energy Storage. 2019 , 5, 16 | | 3 |
| 125 | Production of Materials from Sustainable Biomass Resources. 2019 , | | 2 |
| 124 | Carbonaceous Catalysts from Biomass. 2019 , 185-231 | | 1 |
| 123 | Heat transfer performance of a nano-enhanced propylene glycol:water mixture. 2019 , 139, 413-423 | | 17 |
| 122 | Flexural properties of multiscale nanocomposites containing multiwalled carbon nanotubes coated glass fabric in epoxy/graphene matrix. 2019 , 26, 935-962 | | 21 |
| 121 | Functionalized nanographene oxide in biomedicine applications: bioinspired surface modifications, multidrug shielding, and site-specific trafficking. 2019 , 24, 749-762 | | 6 |
| 120 | Functionalized Graphene Nanocomposites for Water Treatment. 2019 , 91-107 | | 5 |
| 119 | Enhance the Optical Properties of the Synthesis PEG/Graphene- Based Nanocomposite films using GO nanosheets. 2019 , 1294, 022029 | | 6 |
| 118 | Organophilic graphene nanosheets as a promising nanofiller for bio-based polyurethane nanocomposites: investigation of the thermal, barrier and mechanical properties. 2019 , 43, 15659-15672 | | 10 |
| 117 | Investigation on the Effect of Hyperbranched Polyester Grafted Graphene Oxide on the Crystallization Behaviors of μ -Nucleated Isotactic Polypropylene. 2019 , 11, | | 4 |
| 116 | Enhanced thermal conductivity and mechanical properties of a GNP reinforced SiN composite.. 2019 , 9, 39986-39992 | | 14 |

| | | | |
|-----|---|---|-----|
| 115 | GdVO ₄ modified fluorine doped graphene nanosheets as dispersed photocatalyst for mitigation of phenolic compounds in aqueous environment and bacterial disinfection. 2019 , 210, 804-816 | | 114 |
| 114 | From nanoengineering to nanomedicine: A facile route to enhance biocompatibility of graphene as a potential nano-carrier for targeted drug delivery using natural deep eutectic solvents. 2019 , 195, 95-106 | | 27 |
| 113 | Enhanced photocatalytic activity and stability of AgBr/BiOBr/graphene heterojunction for phenol degradation under visible light. 2019 , 23, 586-599 | | 67 |
| 112 | Fabrication and characterization of polyoxometalate/2D graphene-based flexible supercapacitors for wearable electronic pulse-beat application. 2019 , 30, 3692-3700 | | 11 |
| 111 | Synthesis/Preparation of Carbon Materials. 2019 , 1-64 | | |
| 110 | Effects of ordered structure on non-isothermal crystallization kinetics and subsequent melting behavior of β -nucleated isotactic polypropylene/graphene oxide composites. 2019 , 136, 1667-1678 | | 12 |
| 109 | Revealing a conversion-alloying reaction mechanism behind high capacity and rate capability of SnS/N-doped graphene anode by in situ TEM. 2019 , 297, 46-54 | | 12 |
| 108 | Metal organic frameworks as potent treatment media for odorants and volatiles in air. 2019 , 168, 336-356 | | 29 |
| 107 | Regulating polycrystalline behavior of the β -nucleated isotactic polypropylene/graphene oxide composites by melt memory effect. <i>Polymer Composites</i> , 2019 , 40, E440 | 3 | 19 |
| 106 | Improvement of mechanical properties and anticorrosion performance of epoxy coatings by the introduction of polyaniline/graphene composite. 2019 , 374, 1128-1138 | | 62 |
| 105 | Biomimetic Assembly of a Polydopamine Layer on Graphene as an Electron Gate for Fluorescent MicroRNA Detection in Living Cells. 2020 , 21, 801-806 | | 4 |
| 104 | Investigation of Fe/Mn particle aggregation and growth processes in molten slag. 2020 , 59, 51-59 | | 2 |
| 103 | Influence of surfactant assisted exfoliation of hexagonal boron nitride nanosheets on mechanical, thermal and dielectric properties of epoxy Nanocomposites. 2020 , 27, 529-550 | | 15 |
| 102 | Green and sono synthetic approach for direct-functionalization of reduced graphene oxide with poly(styrene-alt-maleic anhydride) by Diels Alder β -click reaction. 2020 , 504, 144482 | | 1 |
| 101 | Graphene aerogel nanoparticles for in-situ loading/pH sensitive releasing anticancer drugs. 2020 , 186, 110712 | | 23 |
| 100 | Controlling inter-sheet-distance in reduced graphene oxide electrodes for highly sensitive electrochemical impedimetric sensing of myoglobin. 2020 , 305, 127477 | | 15 |
| 99 | An overview of industrial scalable production of graphene oxide and analytical approaches for synthesis and characterization. 2020 , 9, 11587-11610 | | 40 |
| 98 | Polyacrylonitrile Nanofiber Membrane Modified with Ag/GO Composite for Water Purification System. 2020 , 12, | | 9 |

| | | | |
|----|---|-----|----|
| 97 | Controlled delivery of ketamine from reduced graphene oxide hydrogel for neuropathic pain: In vitro and in vivo studies. 2020 , 60, 101964 | | 7 |
| 96 | Friction and mechanical properties of amino-treated graphene-filled epoxy composites: modification conditions and filler content.. 2020 , 10, 26646-26657 | | 7 |
| 95 | Self-supported nickel cobalt carbonate hydroxide nanowires encapsulated cathodically expanded graphite paper for supercapacitor electrodes. 2020 , 363, 137236 | | 13 |
| 94 | Agar-reduced graphene oxide selectively adsorbs organic dyes and strengthens double-network hydrogels.. 2020 , 10, 29287-29295 | | 3 |
| 93 | Strong Reinforcement Effects in 2D Cellulose Nanofibril-Graphene Oxide (CNF-GO) Nanocomposites due to GO-Induced CNF Ordering. 2020 , 8, 17608-17620 | | 13 |
| 92 | Ultrafast and Highly Sensitive Chemically Functionalized Graphene Oxide-Based Humidity Sensors: Harnessing Device Performances via the Supramolecular Approach. 2020 , 12, 44017-44025 | | 14 |
| 91 | Mixed Dye Removal Efficiency of Electrospun Polyacrylonitrile-Graphene Oxide Composite Membranes. 2020 , 12, | | 10 |
| 90 | Poly(Ethylene Glycol) Functionalized Graphene Oxide in Tissue Engineering: A Review on Recent Advances. 2020 , 15, 5991-6006 | | 12 |
| 89 | 2D graphene-coupled ZnS:Mn ²⁺ mechanodetectors for monitoring the pulse rate. <i>Ceramics International</i> , 2020 , 46, 16533-16536 | 5.1 | 3 |
| 88 | Accordion-like bimetal-organic framework anchoring on the partially-exfoliated graphite paper for high-performance supercapacitors. 2020 , 528, 146954 | | 16 |
| 87 | Flexible 2D graphene-coupled ZnS:Mn ²⁺ mechanodetectors for heart rate monitoring. 2020 , 226, 117441 | | 2 |
| 86 | Structural, optical, and surface morphological studies of ethyl cellulose/graphene oxide nanocomposites. <i>Polymer Composites</i> , 2020 , 41, 2792-2802 | 3 | 21 |
| 85 | rGO/GO Nanosheets in Tribology: From the State of the Art to the Future Prospective. 2020 , 8, 31 | | 11 |
| 84 | Epoxy/graphene film for lifecycle self-sensing and multifunctional applications. 2020 , 198, 108312 | | 24 |
| 83 | Surface modification of highly hydrophobic polyester fabric coated with octadecylamine-functionalized graphene nanosheets.. 2020 , 10, 24941-24950 | | 14 |
| 82 | Scalable Preparation of Low-Defect Graphene by Urea-Assisted Liquid-Phase Shear Exfoliation of Graphite and Its Application in Doxorubicin Analysis. 2020 , 10, | | 8 |
| 81 | Superhydrophobic lotus-leaf-like surface made from reduced graphene oxide through soft-lithographic duplication.. 2020 , 10, 5478-5486 | | 15 |
| 80 | Single step preparation of platinum nanoflowers/reduced graphene oxide electrode as a novel platform for diclofenac sensor. <i>Microchemical Journal</i> , 2020 , 155, 104744 | 4.8 | 12 |

| | | |
|----|---|---------|
| 79 | Direct Reduction of Graphene Oxide/Nanofibrillated Cellulose Composite Film and its Electrical Conductivity Research. 2020 , 10, 3124 | 16 |
| 78 | Dielectric Relaxation Behavior of Silver Nanoparticles and Graphene Oxide Embedded Poly(vinyl alcohol) Nanocomposite Film: An Effect of Ionic Liquid and Temperature. 2020 , 12, | 22 |
| 77 | Chloramine-T/N-Bromosuccinimide/FeCl/KIO Decorated Graphene Oxide Nanosheets and Their Antibacterial Activity. 2020 , 10, | 14 |
| 76 | Co-ZIF derived porous NiCo-LDH nanosheets/N doped carbon foam for high-performance supercapacitor. <i>Carbon</i> , 2020 , 165, 129-138 | 10.4 79 |
| 75 | One step forward: How can functionalization enhance the adsorptive properties of graphene towards metallic ions and dyes?. 2020 , 184, 109362 | 8 |
| 74 | Nanofiber-reinforced nanocomposites for structural applications. 2020 , 559-567 | 1 |
| 73 | Chemically reduced graphene oxide (CRGO) from waste batteries and morphological assessment of CRGO/methyl cellulose transdermal film. 2020 , 22, 100454 | 4 |
| 72 | Carbon Related Materials. 2021 , | 2 |
| 71 | Preparation and characterisation of poly(ethylene glycol)-adsorbed graphene oxide nanosheets. 2021 , 70, 341-351 | 7 |
| 70 | Eco-friendly synthesis of graphene oxide-silver nanoparticles hybrids: The effect of amine derivatization. 2021 , 111, 108208 | 1 |
| 69 | Recycling of graphite and metals from spent Li-ion batteries aiming the production of graphene/CoO-based electrochemical sensors. 2021 , 9, 104689 | 6 |
| 68 | Nanolubricant additives: A review. 2021 , 9, 891-917 | 29 |
| 67 | Novel Graphene-Based Polymer Nanocomposites. 2021 , 1013-1033 | |
| 66 | Solution-processed two-dimensional materials for next-generation photovoltaics. 2021 , 50, 11870-11965 | 21 |
| 65 | Investigation of the wettability, anticorrosion, and accelerated weathering behaviors of siloxane-modified acrylic resin and functionalized graphene nanocomposite coatings on LY12 aluminum alloy. 2021 , 18, 789-806 | 1 |
| 64 | Comparison of reducing agent for reduced graphene oxide as cathode for zinc-ion hybrid capacitors. 2021 , 1045, 012027 | 1 |
| 63 | Pseudohomogeneous metallic catalyst based on tungstate-decorated amphiphilic carbon quantum dots for selective oxidative scission of alkenes to aldehyde. 2021 , 11, 4411 | 6 |
| 62 | Effects of graphene on various properties and applications of silicone rubber and silicone resin. 2021 , 142, 106240 | 5 |

| | | |
|----|---|--------|
| 61 | Simplified Approach for Preparing Graphene Oxide TEM Grids for Stained and Vitrified Biomolecules. 2021 , 11, | 1 |
| 60 | Biomedical Applications of Electrospun Graphene Oxide. 2021 , 7, 1278-1301 | 10 |
| 59 | Wrinkled p-phenylenediamine grafted graphene oxide as reinforcement for polyvinyl butyral anti-corrosive coating. 2021 , 56, 12686-12699 | 0 |
| 58 | Fabrication of membrane electrode assembly based on nafion/sulfonated graphene oxide nanocomposite by electroless deposition for proton exchange membrane fuel cells. 2021 , 23, 100925 | 1 |
| 57 | CD47-mediated DTIC-loaded chitosan oligosaccharide-grafted nGO for synergistic chemo-photothermal therapy against malignant melanoma. 2021 , 123, 112014 | 11 |
| 56 | GO based PVA nanocomposites: tailoring of optical and structural properties of PVA with low percentage of GO nanofillers. 2021 , 7, e06983 | 6 |
| 55 | Functionalization of graphene-based materials: Effective approach for enhancement of tribological performance as lubricant additives. 2021 , 115, 108357 | 7 |
| 54 | Improving tribological performance of epoxy composite by reinforcing with polyetheramine-functionalized graphene oxide. 2021 , 12, 1516-1529 | 4 |
| 53 | Improvements in thermal and mechanical properties of composites based on epoxy-carbon nanomaterials - A brief landscape. 2021 , 98, 107180 | 12 |
| 52 | High Electrical Anisotropic Multilayered Self-Assembled Organic Films Based on Graphene Oxide and PEDOT:PSS. 2021 , 7, 2100255 | 0 |
| 51 | Mechanically strong, stiff, and yet ductile AlSi7Mg/graphene composites by laser metal deposition additive manufacturing. 2021 , 823, 141749 | 1 |
| 50 | Cu ₂ O/rGO as an efficient photocatalyst for transferring of nitro group to amine group under visible light irradiation. 2021 , 130, 105838 | 5 |
| 49 | A comprehensive review of anticorrosive graphene-composite coatings. 2021 , 157, 106321 | 3 |
| 48 | Analysis of the dielectric relaxation in reduced graphene oxide/epoxy composites materials using the modulus formalism. 2021 , 44, 109 | 1 |
| 47 | Electrochemical characterization of Li-ion conducting polyvinylidene fluoride/sulfonated graphene oxide nanocomposite polymer electrolyte membranes for lithium ion batteries. 2021 , 636, 119563 | 3 |
| 46 | Electroless codeposition of GO incorporated silane nanocomposite coating onto AZ91 Mg alloy: Effect of GO content on its morphology, mechanical and corrosion protection properties. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160790 | 5.7 15 |
| 45 | Two-dimensional (2D) graphene nanosheets as advanced lubricant additives: A critical review and prospect. <i>Materials Today Communications</i> , 2021 , 29, 102755 | 2.5 2 |
| 44 | Graphene and its derivatives for environmental applications. 2021 , 219-259 | |

| | | | |
|----|--|-----|----|
| 43 | Graphene lubrication. <i>Applied Materials Today</i> , 2020 , 20, 100662 | 6.6 | 38 |
| 42 | Preparation and Characterization of Graphene Oxide/β-cyclodextrin Supramolecular Hybrid Material. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2012 , 27, 596-602 | 1 | 3 |
| 41 | Preparation and Characterization of Reduced Graphene Nanosheets via Pre-exfoliation of Graphite Flakes. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 209-214 | 1.2 | 52 |
| 40 | RhB Adsorption Performance of Magnetic Adsorbent Fe ₃ O ₄ /RGO Composite and Its Regeneration through A Fenton-like Reaction. 2014 , 6, 125 | | 2 |
| 39 | Syntheses and Characterizations of Position Specific Functionalized Graphenes. <i>Porrime</i> , 2013 , 37, 218-224 | | 1 |
| 38 | Functionalized Graphenes. 36-68 | | |
| 37 | References. 257-276 | | |
| 36 | Graphene: Polymer-Assisted Water Soluble. 3665-3671 | | |
| 35 | References. 2017 , 105-121 | | |
| 34 | Novel Graphene-Based Polymer Nanocomposites. 2020 , 1-21 | | |
| 33 | A Comparative Study of Electrochemical Capacitance of Graphene Oxide Affected by Oligomers of p-phenylenediamine and Hydrazine Hydrate in Solvothermal Condition. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2020 , 35, 253-262 | 1 | |
| 32 | Microwave assisted ultrafast synthesis of graphene oxide based magnetic nano composite for environmental remediation. <i>Ceramics International</i> , 2021 , 48, 4821-4821 | 5.1 | 0 |
| 31 | Synergetic Effect of Graphene Oxide and Metal Organic Framework Nanocomposites as Electrocatalysts for Hydrogen Evolution Reaction. 2021 , 23-54 | | 0 |
| 30 | Effect of Graphene Oxide and Temperature on Dielectric Relaxation Behavior of Poly(Vinyl Alcohol)-Based Nanocomposite. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 469-478 | 0.4 | |
| 29 | Theoretical Study on Graphene Oxide as a Cancer Drug Carrier. 2020 , 73-86 | | |
| 28 | Graphene: Structure, properties, preparation, modification, and applications. 2022 , 1-24 | | |
| 27 | Comparison of Magnetite/Reduced Graphene Oxide Nanocomposites and Magnetite Nanoparticles on Enhancing Hydrogen Production in Dark Fermentation. <i>SSRN Electronic Journal</i> , | 1 | |
| 26 | An Overview of Graphene-Based 2D/3D Nanostructures for Photocatalytic Applications. <i>Topics in Catalysis</i> , 1 | 2.3 | 0 |

| | | | |
|----|---|-----|---|
| 25 | Recent advances on graphene-based materials as cathode materials in lithium-sulfur batteries. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 8630-8657 | 6.7 | 2 |
| 24 | Construction of a sensitive electrochemical sensor based on hybrid 1T/2H MoS ₂ nanoflowers anchoring on rGO nanosheets for the voltammetric determination of acetaminophen. <i>Microchemical Journal</i> , 2022 , 175, 107129 | 4.8 | 0 |
| 23 | Printable and Flexible Humidity Sensor Based on Graphene Oxide Supported Mote ² Nanosheets For Multifunctional Applications. <i>SSRN Electronic Journal</i> , | 1 | |
| 22 | Graphene and g-C ₃ N ₄ -Based Gas Sensors. <i>Journal of Nanotechnology</i> , 2022 , 2022, 1-20 | 3.5 | 0 |
| 21 | Characterizations and performances of polysulfone/graphene oxide with structural defects repaired by cellulose nanocrystals. <i>Polymer Composites</i> , | 3 | 0 |
| 20 | Silver nanoparticles decorated on graphene oxide modified polyester fabric: Catalytic reduction of 4-nitrophenol, organic dyes and SERS application. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 165, 110640 | 3.9 | 0 |
| 19 | Comparison of magnetite/reduced graphene oxide nanocomposites and magnetite nanoparticles on enhancing hydrogen production in dark fermentation. <i>International Journal of Hydrogen Energy</i> , 2022 , | 6.7 | 0 |
| 18 | Graphene/polymer composite membranes for vanadium redox flow battery applications. 2022 , 487-520 | | |
| 17 | Boosting the hydrophobicity and mechanical properties of fluoroalkylsilane hydrolyzed 3-glycidyoxypropyl/graphene oxide-based nanocomposite coating for enhanced corrosion resistance. <i>Thin Solid Films</i> , 2022 , 756, 139373 | 2.2 | 0 |
| 16 | Effect of surfactant in modification of graphite into graphene nanosheets and its applications as Rhodamine B adsorbent. 2022 , | | 0 |
| 15 | Mechanical and thermal properties of graphene nanoplatelets-reinforced recycled polycarbonate composites. 2023 , 6, 117-128 | | 2 |
| 14 | Ethanol Electro-Oxidation on Catalysts with S-ZrO ₂ -Decorated Graphene as Support in Fuel Cell Applications. 2022 , 12, 3327 | | 0 |
| 13 | Vibration Attenuation Study of Curved Panel Treated with Partially Constrained Composite Unaged and Aged NBR (AcrylonitrileButadiene Rubber) Elastomers. | | 0 |
| 12 | Composition and processing influence on the performance of graphene-containing SBR/BR rubber compounds. | | 0 |
| 11 | Conductive polymers and composite-based systems: A quantum leap in the drug delivery arena and therapeutics. 2023 , 485-522 | | 0 |
| 10 | Graphene superlubricity: A review. | | 1 |
| 9 | Carbonaceous nanofillers in polymer matrix. 2023 , 23-53 | | 0 |
| 8 | Graphene and graphene oxide: Application in luminescence and solar cell. 2023 , 107-133 | | 0 |

- 7 Magnetic Dispersive Solid-phase Extraction of Nicosulfuron using Surface Immobilized Molecularly Imprinted Polymer by RAFT Polymerization on Fe₃O₄/Graphene Oxide Nanosheets. **2023**, 8, ○
- 6 Investigating the thermal properties of n-hexacosane/graphene composite: A highly stable nanocomposite material for energy storage application. **2023**, 39, 101712 ○
- 5 Conductive polymers and composites-based systems: An incipient stride in drug delivery and therapeutics realm. **2023**, 355, 709-729 1
- 4 Study on structural and photoluminescence properties of CS/r-GO polymer nanocomposite. **2023**, ○
- 3 Plasma-Based Synthesis of Freestanding Graphene from a Natural Resource for Sensing Application. **2023**, 10, ○
- 2 Modifying superparamagnetic iron oxides nanoparticles for doxorubicin delivery carriers: a review. **2023**, 25, ○
- 1 Printable and Flexible Humidity Sensor Based on Graphene -Oxide-Supported MoTe₂ Nanosheets for Multifunctional Applications. **2023**, 13, 1309 ○