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Temperature dependence of graphene oxide reduced by hydrazine hydrate

DOI: 10.1088/0957-4484/22/5/055705
Nanotechnology, 2011, 22, 055705.

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Version: 2024-04-17

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|-----|--|------|-----------|
| 543 | Immobilization of trypsin in the layer-by-layer coating of graphene oxide and chitosan on in-channel glass fiber for microfluidic proteolysis. 2011 , 136, 5190-6 | | 39 |
| 542 | Reversible adsorption of conjugated amphiphilic dendrimers onto reduced graphene oxide (rGO) for fluorescence sensing. 2011 , 7, 8352 | | 16 |
| 541 | Photoactive graphene sheets prepared by "click" chemistry. 2011 , 47, 5747-9 | | 102 |
| 540 | Highly qualified reduced graphene oxides: the best chemical reduction. 2011 , 47, 9681-3 | | 55 |
| 539 | Transport behavior and negative magnetoresistance in chemically reduced graphene oxide nanofilms. <i>Nanotechnology</i> , 2011 , 22, 335701 | 3.4 | 25 |
| 538 | Efficient and highly selective iron-catalyzed reduction of nitroarenes. 2011 , 47, 10972-4 | | 179 |
| 537 | Wrinkled Graphenes: A Study on the Effects of Synthesis Parameters on Exfoliation-Reduction of Graphite Oxide. 2011 , 115, 17660-17669 | | 84 |
| 536 | Facile synthesis of soluble graphene via a green reduction of graphene oxide in tea solution and its biocomposites. 2011 , 3, 1127-33 | | 459 |
| 535 | Interaction between graphite oxide and Congo red in aqueous media. 2011 , 49, 5373-5381 | | 37 |
| 534 | Synthesis of fluorinated graphene with tunable degree of fluorination. 2012 , 50, 5403-5410 | | 242 |
| 533 | Wet chemical method for making graphene-like films from carbon black. 2012 , 4, 4491-8 | | 33 |
| 532 | Temperature-dependent electrical properties of graphene inkjet-printed on flexible materials. 2012 , 28, 13467-72 | | 170 |
| 531 | Characterization and electrical properties of honeycomb-patterned poly(ϵ -caprolactone)/reduced graphene oxide composite film. 2012 , 33, 2159-2168 | | 12 |
| 530 | Comparison study of structural and optical properties of boron-doped and undoped graphene oxide films. <i>Chemical Engineering Journal</i> , 2012 , 211-212, 369-377 | 14.7 | 68 |
| 529 | Tailored anisotropic magnetic conductive film assembled from graphene-encapsulated multifunctional magnetic composite microspheres. 2012 , 22, 545-550 | | 41 |
| 528 | Large area extreme-UV lithography of graphene oxide via spatially resolved photoreduction. 2012 , 28, 5489-95 | | 40 |
| 527 | Low-temperature solid-state microwave reduction of graphene oxide for transparent electrically conductive coatings on flexible polydimethylsiloxane (PDMS). 2012 , 13, 3700-6 | | 17 |

| | | |
|-----|---|-----|
| 526 | Facile one-step microwave-assisted route towards Ni nanospheres/reduced graphene oxide hybrids for non-enzymatic glucose sensing. 2012 , 12, 4860-9 | 69 |
| 525 | Covalently linked, water-dispersible, cyclodextrin: reduced-graphene oxide sheets. 2012 , 28, 12432-7 | 82 |
| 524 | Graphene oxide reduced and modified by soft nanoparticles and its catalysis of the Knoevenagel condensation. 2012 , 22, 4772 | 115 |
| 523 | Controlling vertical alignment of phthalocyanine nanofibers on transparent graphene-coated ITO electrodes for organic field emitters. 2012 , 22, 7837 | 9 |
| 522 | High electrothermal performance of expanded graphite nanoplatelet-based patch heater. 2012 , 22, 23404 | 46 |
| 521 | Adsorption Behaviors of Graphene and Graphene-related Materials. 2012 , 435-467 | 1 |
| 520 | Crystallization, rheological behavior and mechanical properties of poly(vinylidene fluoride) composites containing graphitic fillers: a comparative study. 2012 , 61, 1031-1040 | 13 |
| 519 | Radiation induced reduction: an effective and clean route to synthesize functionalized graphene. 2012 , 22, 7775 | 149 |
| 518 | Significant enhancement of blue emission and electrical conductivity of N-doped graphene. 2012 , 22, 17992 | 159 |
| 517 | Composites of Ultrahigh-Molecular-Weight Polyethylene with Graphene Sheets and/or MWCNTs with Segregated Network Structure: Preparation and Properties. 2012 , 297, 437-443 | 100 |
| 516 | Constructing sacrificial bonds and hidden lengths for ductile graphene/polyurethane elastomers with improved strength and toughness. 2012 , 22, 12479 | 136 |
| 515 | A leavening strategy to prepare reduced graphene oxide foams. 2012 , 24, 4144-50 | 701 |
| 514 | Graphene functionalisation with a conjugated poly(fluorene) by click coupling: striking electronic properties in solution. 2012 , 18, 4965-73 | 72 |
| 513 | Can commonly used hydrazine produce n-type graphene?. 2012 , 18, 7665-70 | 37 |
| 512 | Enhancement of quaternary nitrogen doping of graphene oxide via chemical reduction prior to thermal annealing and an investigation of its electrochemical properties. 2012 , 22, 14756 | 54 |
| 511 | Effect of temperature and time on the exfoliation and de-oxygenation of graphite oxide by thermal reduction. 2012 , 47, 5097-5105 | 35 |
| 510 | Nanocomposite films and coatings produced by interaction between graphite oxide and Congo red. 2012 , 47, 5852-5860 | 15 |
| 509 | In situ reduction of graphene oxide dispersed in a polymer matrix. 2012 , 14, 1 | 27 |

| | | | |
|-----|--|------|-----|
| 508 | Equilibrium, kinetic and thermodynamic studies on the adsorption of phenol onto graphene. 2012 , 47, 1898-1904 | | 157 |
| 507 | Electrochemical in situ polymerization of reduced graphene oxide/polypyrrole composite with high power density. 2012 , 208, 138-143 | | 111 |
| 506 | The use of rhodamine B-decorated graphene as a reinforcement in polyvinyl alcohol composites. 2012 , 53, 673-680 | | 69 |
| 505 | Chemically reduced graphene oxide for ammonia detection at room temperature. 2013 , 5, 7599-603 | | 155 |
| 504 | Direct production of highly conductive graphene with a low oxygen content by a microwave-assisted solvothermal method. <i>Chemical Engineering Journal</i> , 2013 , 232, 346-355 | 14.7 | 38 |
| 503 | Electrical and spectroscopic investigations on the reduction mechanism of graphene oxide. 2013 , 55, 126-132 | | 43 |
| 502 | Super-capacitive performance depending on different crystal structures of MnO ₂ in graphene/MnO ₂ composites for supercapacitors. 2013 , 48, 7652-7663 | | 21 |
| 501 | Concentration dependence of graphene oxide-nanoneedle manganese oxide composites reduced by hydrazine hydrate for an electrochemical supercapacitor. 2013 , 15, 15602-11 | | 45 |
| 500 | Effects of X-ray irradiation on the structure and field electron emission properties of vertically aligned few-layer graphene. 2013 , 304, 49-56 | | 11 |
| 499 | Iron(II) phthalocyanine covalently functionalized graphene as a highly efficient non-precious-metal catalyst for the oxygen reduction reaction in alkaline media. 2013 , 112, 269-278 | | 96 |
| 498 | Preparation of reduced graphene oxide by infrared irradiation induced photothermal reduction. 2013 , 5, 9040-8 | | 63 |
| 497 | The intrinsic thermal-oxidative stabilization effect of chemically reduced graphene oxide on polypropylene. 2013 , 1, 11184 | | 53 |
| 496 | Fabrication of highly transparent ultrathin films based on reduced graphene oxide. 2013 , | | |
| 495 | High performance supercapacitor electrode based on graphene paper via flame-induced reduction of graphene oxide paper. 2013 , 222, 52-58 | | 158 |
| 494 | Graphene nanosheets: Ultrasound assisted synthesis and characterization. 2013 , 20, 644-9 | | 190 |
| 493 | Use of Optical Contrast To Estimate the Degree of Reduction of Graphene Oxide. 2013 , 117, 620-625 | | 40 |
| 492 | A facile and cost-effective approach to the reduction of exfoliated graphite oxide using sodium hypophosphite under acidic conditions. 2013 , 1, 690-694 | | 16 |
| 491 | Electrolyte-induced precipitation of graphene oxide in its aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2013 , 391, 21-7 | 9.3 | 47 |

| | | | |
|-----|---|------|-----|
| 490 | Recent advances in the efficient reduction of graphene oxide and its application as energy storage electrode materials. 2013 , 5, 52-71 | | 392 |
| 489 | Process dependent graphene/MnO ₂ composites for supercapacitors. <i>Chemical Engineering Journal</i> , 2013 , 230, 482-490 | 14.7 | 52 |
| 488 | One-pot hydrothermal synthesis and characterization of FeS ₂ (pyrite)/graphene nanocomposite. <i>Chemical Engineering Journal</i> , 2013 , 218, 276-284 | 14.7 | 55 |
| 487 | Enhanced activity of chemically synthesized hybrid graphene oxide/Mn ₃ O ₄ composite for high performance supercapacitors. 2013 , 92, 205-215 | | 195 |
| 486 | Graphene Oxide as a Practical Solution to High Sensitivity Gas Sensing. 2013 , 117, 10683-10690 | | 170 |
| 485 | Optimization of thermally reduced graphene oxide for an efficient hole transport layer in polymer solar cells. 2013 , 14, 591-598 | | 72 |
| 484 | Electrocatalytic oxidation of methanol on Pt catalyst supported on nitrogen-doped graphene induced by hydrazine reduction. 2013 , 74, 1608-1614 | | 32 |
| 483 | Graphene/MnO ₂ -based composites reduced via different chemical agents for supercapacitors. 2013 , 239, 225-233 | | 141 |
| 482 | Fabrication and characterization of honeycomb-patterned film from poly(ϵ -caprolactone)/poly((R)-3-hydroxybutyric acid)/reduced graphene oxide composite. 2013 , 45, 1064-1071 ⁹ | | |
| 481 | A review on synthesis and properties of polymer functionalized graphene. 2013 , 54, 5087-5103 | | 380 |
| 480 | Simple synthesis of layered CeO ₂ /graphene hybrid and their superior catalytic performance in dehydrogenation of ethylbenzene. 2013 , 274, 131-137 | | 30 |
| 479 | Synthesis of graphene platelets by chemical and electrochemical route. 2013 , 48, 3834-3842 | | 52 |
| 478 | Synthesis of Cobalt Sulfide/Graphene (CoS/G) Nanocomposites for Supercapacitor Applications. 2013 , 12, 985-990 | | 32 |
| 477 | Stable Reduced Graphene Oxide Suspension Modified by PAMAM. 2013 , 341-342, 213-216 | | |
| 476 | Band alignment effects at the metal electrode interface of poly(3-hexylthiophene):zinc oxide hybrid photovoltaics. 2013 , 102, 081607 | | 3 |
| 475 | Size dependent electrochemical properties of reduced graphite oxide. 2014 , 608, 207-212 | | 4 |
| 474 | Optical Nonlinear Refractive Index of Laser-Ablated Gold Nanoparticles Graphene Oxide Composite. 2014 , 2014, 1-8 | | 22 |
| 473 | 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 |

| | | | |
|-----|--|------|-----|
| 472 | Synthesis of rGO@Ag nanoparticles for high-performance SERS and the adsorption geometry of 2-mercaptobenzimidazole on Ag surface. 2014 , 114, 801-808 | | 15 |
| 471 | A peculiar mechanism for the photocatalytic reduction of decabromodiphenyl ether over reduced graphene oxide-TiO ₂ photocatalyst. <i>Chemical Engineering Journal</i> , 2014 , 241, 207-215 | 14.7 | 50 |
| 470 | Creep and recovery of polystyrene composites filled with graphene additives. 2014 , 91, 63-70 | | 101 |
| 469 | Hydrogen uptake of reduced graphene oxide and graphene sheets decorated with Fe nanoclusters. 2014 , 39, 8311-8320 | | 49 |
| 468 | Nitrated graphene oxide and its catalytic activity in thermal decomposition of ammonium perchlorate. 2014 , 50, 73-78 | | 57 |
| 467 | Synthesis and characterization of ZnO NPs/reduced graphene oxide nanocomposite prepared in gelatin medium as highly efficient photo-degradation of MB. 2014 , 40, 10217-10221 | | 109 |
| 466 | Co ₉ S ₈ nanoflakes on graphene (Co ₉ S ₈ /G) nanocomposites for high performance supercapacitors. 2014 , 4, 21151-21162 | | 87 |
| 465 | Effects of dodecyl amine functionalized graphene oxide on the crystallization behavior of isotactic polypropylene. 2014 , 131, n/a-n/a | | 7 |
| 464 | Crystallization of isotactic polypropylene inside dense networks of carbon nanofillers. 2014 , 131, n/a-n/a | | |
| 463 | Preparation of poly(vinylidene fluoride) films with excellent electric property, improved dielectric property and dominant polar crystalline forms by adding a quaternary phosphorus salt functionalized graphene. 2014 , 91, 1-7 | | 66 |
| 462 | A rapid low-temperature synthetic method leading to large-scale carboxyl graphene. <i>Chemical Engineering Journal</i> , 2014 , 236, 471-479 | 14.7 | 52 |
| 461 | In Situ Synthesis and Characterization of Polypyrrole/Graphene Conductive Nanocomposites via Electrochemical Polymerization and Chemical Reduction. 2014 , 53, 1116-1127 | | 8 |
| 460 | Non-isothermal crystallization kinetics of alkyl-functionalized graphene oxide/high-density polyethylene nanocomposites. 2014 , 21, 203-215 | | 11 |
| 459 | Fast and facile microwave-assisted synthesis of graphene oxide nanosheets. 2014 , 4, 60102-60105 | | 20 |
| 458 | Effects of graphene oxide concentration on optical properties of ZnO/RGO nanocomposites and their application to photocurrent generation. 2014 , 116, 084307 | | 112 |
| 457 | Tuning the grade of graphene: Gamma ray irradiation of free-standing graphene oxide films in gaseous phase. 2014 , 322, 126-135 | | 37 |
| 456 | Computational Study on Removal of Epoxide from Narrow Zigzag Graphene Nanoribbons. 2014 , 118, 27123-27130 | | 2 |
| 455 | Metal-Free and Pt-Decorated Graphene-Based Catalysts for Hydrogen Production in a Sulfur-Iodine Thermochemical Cycle. 2014 , 53, 11920-11928 | | 10 |

| | | |
|-----|--|-----|
| 454 | Transition from direct to Fowler-Nordheim tunneling in chemically reduced graphene oxide film. 2014 , 6, 3410-7 | 24 |
| 453 | Graphene oxide capturing surface-fluorinated TiO ₂ nanosheets for advanced photocatalysis and the reveal of synergism reinforce mechanism. 2014 , 43, 2202-10 | 60 |
| 452 | Superstrong encapsulated monolayer graphene by the modified anodic bonding. 2014 , 6, 547-54 | 11 |
| 451 | Graphene anchored with ZrO ₂ nanoparticles as anodes of lithium ion batteries with enhanced electrochemical performance. 2014 , 4, 8472-8480 | 20 |
| 450 | High-performance polymer solar cells with radiation-induced and reduction-controllable reduced graphene oxide as an advanced hole transporting material. 2014 , 79, 321-329 | 25 |
| 449 | In situ polymerization of graphene oxide and cyanate ester-epoxy with enhanced mechanical and thermal properties. 2014 , 316, 549-557 | 66 |
| 448 | Fluorescence from graphene oxide and the influence of ionic, π interactions and heterointerfaces: electron or energy transfer dynamics. 2014 , 16, 21183-203 | 35 |
| 447 | Transition of gas sensing behavior in non-reduced graphene oxides with thermal annealing. 2014 , 136, 164-167 | 13 |
| 446 | Interactive oxidation-reduction reaction for the in situ synthesis of graphene-phenol formaldehyde composites with enhanced properties. 2014 , 6, 4254-63 | 83 |
| 445 | Strong ferromagnetism of reduced graphene oxide. 2014 , 78, 559-565 | 59 |
| 444 | Facile synthesis of bimetallic alloyed Pt-Pd nanocubes on reduced graphene oxide with enhanced electrocatalytic properties. 2014 , 143, 36-43 | 26 |
| 443 | Polyacrylamide grafting of modified graphene oxides by in situ free radical polymerization. 2014 , 60, 576-583 | 12 |
| 442 | Fluorine-functionalized and simultaneously reduced graphene oxide as a novel hole transporting layer for highly efficient and stable organic photovoltaic cells. 2014 , 6, 7183-7 | 67 |
| 441 | Nafion-graphene composite film modified glassy carbon electrode for voltammetric determination of p-aminophenol. 2014 , 50, 243-252 | 13 |
| 440 | Possibility of graphene growth by close space sublimation. 2014 , 9, 182 | 7 |
| 439 | On the pH sensitive optoelectronic properties of amphiphilic reduced graphene oxide via grafting of poly(dimethylaminoethyl methacrylate): a signature of p- and n-type doping. 2014 , 2, 16039-16050 | 23 |
| 438 | Dose and wavelength dependent study of graphene oxide photoreduction with VUV Synchrotron radiation. 2014 , 79, 478-485 | 17 |
| 437 | Correlation between the adsorption ability and reduction degree of graphene oxide and tuning of adsorption of phenolic compounds. 2014 , 69, 101-112 | 142 |

| | | |
|-----|---|-----|
| 436 | Capacitance behavior of composites for supercapacitor applications prepared with different durations of graphene/nanoneedle MnO ₂ reduction. 2014 , 54, 587-594 | 13 |
| 435 | Cu-Ni nanoparticle-decorated graphene based photodetector. 2014 , 6, 8192-8 | 21 |
| 434 | Reduction dependent wetting properties of graphene oxide. 2014 , 77, 473-480 | 34 |
| 433 | 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 |
| 432 | Density functional theory modeling of multilayer "epitaxial" graphene oxide. 2014 , 47, 3331-9 | 33 |
| 431 | A green approach for the reduction of graphene oxide nanosheets using non-aromatic amino acids. 2014 , 76, 193-202 | 123 |
| 430 | Photothermally controlled gene delivery by reduced graphene oxide-polyethylenimine nanocomposite. 2014 , 10, 117-26 | 215 |
| 429 | Single-step sensitization of reduced graphene oxide sheets and CdS nanoparticles on ZnO nanorods as visible-light photocatalysts. 2014 , 144, 57-65 | 177 |
| 428 | Cyanate ester resin filled with graphene nanosheets and CoFe ₂ O ₄ -reduced graphene oxide nanohybrids as a microwave absorber. 2015 , 351, 40-47 | 57 |
| 427 | Reinforcement of nanostructured reduced graphene oxide: a facile approach to develop high-performance nanocomposite ultrafiltration membranes minimizing the trade-off between flux and selectivity. 2015 , 5, 46801-46816 | 18 |
| 426 | Graphene Oxide: A Fertile Nanosheet for Various Applications. 2015 , 84, 121012 | 19 |
| 425 | Strontium eluting graphene hybrid nanoparticles augment osteogenesis in a 3D tissue scaffold. 2015 , 7, 2023-33 | 71 |
| 424 | A sensitive electrochemical sensor for direct phoxim detection based on an electrodeposited reduced graphene oxide/gold nanocomposite. 2015 , 5, 15425-15430 | 39 |
| 423 | Chemical functionalization of graphene to augment stem cell osteogenesis and inhibit biofilm formation on polymer composites for orthopedic applications. 2015 , 7, 3237-52 | 134 |
| 422 | Microstructure and characterization of electrospun poly(vinyl alcohol) nanofiber scaffolds filled with graphene nanosheets. 2015 , 132, | 55 |
| 421 | Reduced graphene oxide for Li-ion batteries: The effect of oxidation time and reduction conditions for graphene oxide. 2015 , 85, 233-244 | 66 |
| 420 | In-situ preparation and characterization of highly oriented graphene oxide/cellulose-poly(butylene succinate) ternary composite films. 2015 , 22, 1243-1251 | 9 |
| 419 | Bioinspired highly electrically conductive graphene-epoxy layered composites. 2015 , 5, 22283-22288 | 26 |

| | | |
|-----|---|-------|
| 418 | Electrodeposition of palladium and reduced graphene oxide nanocomposites on foam-nickel electrode for electrocatalytic hydrodechlorination of 4-chlorophenol. 2015 , 290, 1-8 | 69 |
| 417 | One-pot sol-gel synthesis of reduced graphene oxide uniformly decorated zinc oxide nanoparticles in starch environment for highly efficient photodegradation of Methylene Blue. 2015 , 5, 21888-21896 | 101 |
| 416 | 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 |
| 415 | Valorization of cellulose and waste paper to graphene oxide quantum dots. 2015 , 5, 26550-26558 | 53 |
| 414 | Influence of Surface-functionalized Graphene Oxide on the Cell Morphology of Poly(methyl methacrylate) Composite. 2015 , 31, 463-466 | 26 |
| 413 | Effect of Oxidation Condition on the Synthesis of Graphene Nanosheets and the Electrical Properties of Poly (Trimethylene Terephthalate) Composites Prepared Using these Nanosheets. 2015 , 749, 202-205 | |
| 412 | Simultaneous chemical reduction and surface functionalization of graphene oxide for efficient lubrication of steel-steel contact. 2015 , 5, 61888-61899 | 30 |
| 411 | Crystalline quality assessment, photocurrent response and optical properties of reduced graphene oxide uniformly decorated zinc oxide nanoparticles based on the graphene oxide concentration. 2015 , 5, 53117-53128 | 33 |
| 410 | 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 |
| 409 | The sensitive electrical response of reduced graphene oxide-polymer nanocomposites to large deformation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 75, 46-53 | 8.4 9 |
| 408 | Preparation of two-dimensional NiO/graphene composite and superior catalytic activity in benzene hydrogenation. 2015 , 70, 68-74 | 8 |
| 407 | Effect of reducing agent on graphene synthesis and its influence on charge storage towards supercapacitor applications. 2015 , 153, 22-31 | 78 |
| 406 | EM shielding effectiveness of Pd-CNT-Cu nanocomposite buckypaper. 2015 , 3, 13986-13993 | 54 |
| 405 | Nitrogen-Doped Reduced Graphene Oxide as a Bifunctional Material for Removing Bisphenols: Synergistic Effect between Adsorption and Catalysis. 2015 , 49, 6855-64 | 388 |
| 404 | Self-assembled three-dimensional graphene-based materials for dye adsorption and catalysis. 2015 , 3, 10031-10037 | 143 |
| 403 | Graphene oxide reinforced poly(vinyl alcohol): nanocomposite scaffolds for tissue engineering applications. 2015 , 5, 25416-25423 | 68 |
| 402 | One-pot synthesis of lightweight nitrogen-doped graphene hydrogels with supercapacitive properties. 2015 , 68, 245-253 | 10 |
| 401 | Synthesis of platinum/graphene composites by a polyol method: The role of graphite oxide precursor surface chemistry. 2015 , 89, 93-101 | 16 |

| | | |
|-----|---|----|
| 400 | Nucleation ability of thermally reduced graphene oxide for polylactide: role of size and structural integrity. 2015 , 119, 4777-87 | 17 |
| 399 | Deposition of cocoon-like ZnO on graphene sheets for improving gas-sensing properties to ethanol. 2015 , 357, 1593-1600 | 26 |
| 398 | High-rate supercapacitive performance of GO/r-GO electrodes interfaced with plastic-crystal-based flexible gel polymer electrolyte. 2015 , 182, 995-1007 | 34 |
| 397 | Deoxygenation of graphene oxide using household baking soda as a reducing agent: a green approach. 2015 , 5, 70461-70472 | 31 |
| 396 | Reducing and multiple-element doping of graphene oxide using active screen plasma treatments. 2015 , 95, 338-346 | 15 |
| 395 | One-step chemically controlled wet synthesis of graphene nanoribbons from graphene oxide for high performance supercapacitor applications. 2015 , 3, 22975-22988 | 59 |
| 394 | Hypercrosslinked porous polymer nanosheets: 2D RAFT agent directed emulsion polymerization for multifunctional applications. 2015 , 6, 7171-7178 | 37 |
| 393 | Tuning the oxygen functional groups in reduced graphene oxide papers to enhance the electromechanical actuation. 2015 , 5, 68052-68060 | 9 |
| 392 | Non-activated high surface area expanded graphite oxide for supercapacitors. 2015 , 358, 110-121 | 35 |
| 391 | Effect of hydrothermal reaction time and alkaline conditions on the electrochemical properties of reduced graphene oxide. 2015 , 358, 100-109 | 38 |
| 390 | Eco-friendly wood-based solid-state flexible supercapacitors from wood transverse section slice and reduced graphene oxide. 2015 , 11, 633-642 | 24 |
| 389 | Electron beam irradiation dose dependent physico-chemical and electrochemical properties of reduced graphene oxide for supercapacitor. 2015 , 184, 427-435 | 27 |
| 388 | Field emission from polypyrrole-graphene composites synthesized by electrochemical deposition method. 2015 , | |
| 387 | CO tolerance of Pt and PtSn intermetallic electrocatalysts on synthetically modified reduced graphene oxide supports. 2015 , 44, 977-87 | 8 |
| 386 | Enhancement of physical, mechanical, and gas barrier properties in noncovalently functionalized graphene oxide/poly(vinylidene fluoride) composites. 2015 , 81, 329-338 | 68 |
| 385 | Graphene: Synthesis, bio-applications, and properties. 2016 , 44, 150-6 | 58 |
| 384 | Pd@Pt Core-Shell Nanoparticles with Branched Dandelion-like Morphology as Highly Efficient Catalysts for Olefin Reduction. 2016 , 22, 1577-81 | 21 |
| 383 | Poly(methyl methacrylate) nanocomposites based on graphene oxide: a comparative investigation of the effects of surface chemistry on properties and foaming behavior. 2016 , 65, 1195-1203 | 16 |

| | | |
|-----|---|----|
| 382 | Morphological features and crystallization behavior of the conductive composites of poly(trimethylene terephthalate)/graphene nanosheets. 2016 , 133, n/a-n/a | 3 |
| 381 | Polymer/Graphene Hybrids for Advanced Energy-Conversion and -Storage Materials. 2016 , 11, 1151-68 | 26 |
| 380 | Porous reduced graphene oxide membrane with enhanced gauge factor. 2016 , 108, 013108 | 6 |
| 379 | Visible-light-driven photodegradation of sulfamethoxazole and methylene blue by Cu ₂ O/rGO photocatalysts. 2016 , 154, 118-123 | 56 |
| 378 | Synthesis of CZTS/RGO composite material as supercapacitor electrode. 2016 , 42, 10452-10458 | 16 |
| 377 | Synthesis and characterization of graphene Th(IV) phosphate composite cation exchanger: analytical application as lead ion-selective membrane electrode. 2016 , 57, 23893-23902 | 6 |
| 376 | Role of interlayer spacing and functional group on the hydrogen storage properties of graphene oxide and reduced graphene oxide. 2016 , 41, 9454-9461 | 64 |
| 375 | Direct spinning of fiber supercapacitor. 2016 , 8, 12113-7 | 48 |
| 374 | Graphene oxide induced isotactic polypropylene crystallization: role of structural reduction. 2016 , 6, 23930-23941 | 15 |
| 373 | Implication of mesoporous 3-D graphene skeleton platform based on interconnected framework architecture in constructing electro-conductive flexible nanocomposites. 2016 , 24, 170-175 | 3 |
| 372 | Adsorption of bisphenolic xenoestrogens on graphene: A peculiar adsorbate concentration dependence on the conformation of graphene. 2016 , 4, 2333-2341 | 2 |
| 371 | Facile fabrication of supercapacitors with high rate capability using graphene/nickel foam electrode. 2016 , 209, 85-94 | 24 |
| 370 | Surface hydrophilic modification of acrylonitrile-butadiene-styrene terpolymer by poly(ethylene glycol-co-1,4-cyclohexanedimethanol terephthalate): Preparation, characterization, and properties studies. 2016 , 388, 133-140 | 18 |
| 369 | Preparation, characterization, and properties of graphene-based composite aerogels via in situ polymerization and three-dimensional self-assembly from graphene oxide solution. 2016 , 6, 78538-78547 | 11 |
| 368 | Single cell migration dynamics mediated by geometric confinement. 2016 , 145, 72-78 | 11 |
| 367 | Is kinetic polymer arrest very specific to multiwalled carbon nanotubes?. 2016 , 18, 29226-29238 | 2 |
| 366 | Reduced graphene oxide incorporated NiWO ₄ for high-performance energy storage. 2016 , 27, 11613-11622 | 12 |
| 365 | Cobalt oxide nanoparticles grown on exfoliated graphene for enhanced electrochemical performance. 2016 , 183, 56-64 | 8 |

| | | | |
|-----|---|-----|-----|
| 364 | Modulation of Electrochemical Properties of Graphene Oxide by Photochemical Reduction Using UV-Light Emitting Diodes. <i>ChemistrySelect</i> , 2016 , 1, 1168-1175 | 1.8 | 11 |
| 363 | Polymer grafted reduced graphene oxide sheets for improving stress transfer in polymer composites. 2016 , 134, 144-152 | | 92 |
| 362 | Surface modification of boron nitride by reduced graphene oxide for preparation of dielectric material with enhanced dielectric constant and well-suppressed dielectric loss. 2016 , 134, 191-200 | | 71 |
| 361 | Mechanism of highly efficient adsorption of 2-chlorophenol onto ultrasonic graphene materials: Comparison and equilibrium. <i>Journal of Colloid and Interface Science</i> , 2016 , 481, 168-80 | 9.3 | 33 |
| 360 | One-step synthesis of soy protein/graphene nanocomposites and their application in photothermal therapy. 2016 , 68, 798-804 | | 16 |
| 359 | Synthesis of tin oxide/graphene (SnO ₂ /G) nanocomposite and its electrochemical properties for supercapacitor applications. 2016 , 84, 145-151 | | 65 |
| 358 | Excellent photocatalytic performance under visible-light irradiation of ZnS/rGO nanocomposites synthesized by a green method. 2016 , 10, 385-393 | | 25 |
| 357 | Prospects of Supercritical Fluids in Realizing Graphene-Based Functional Materials. 2016 , 28, 2663-91 | | 54 |
| 356 | AgPt hollow nanoparticles anchored reduced graphene oxide composites for non-enzymatic glucose biosensor. 2016 , 27, 9370-9378 | | 14 |
| 355 | Photovoltaic and UV detector applications of ZnS/rGO nanocomposites synthesized by a green method. 2016 , 42, 14094-14099 | | 32 |
| 354 | Excellent photocatalytic performance of Zn(1- λ)Mg λ O/rGO nanocomposites under natural sunlight irradiation and their photovoltaic and UV detector applications. 2016 , 107, 47-55 | | 56 |
| 353 | A sensitive porphyrin/reduced graphene oxide electrode for simultaneous detection of guanine and adenine. 2016 , 20, 2055-2062 | | 10 |
| 352 | Improved performance of organic photovoltaic devices by doping F 4 TCNQ onto solution-processed graphene as a hole transport layer. 2016 , 30, 302-311 | | 12 |
| 351 | Cellulose nanocrystals mediated assembly of graphene in rubber composites for chemical sensing applications. 2016 , 140, 88-95 | | 74 |
| 350 | Highly Efficient Room-Temperature Gas Sensor Based on TiO ₂ Nanotube-Reduced Graphene-Oxide Hybrid Device. 2016 , 37, 656-659 | | 55 |
| 349 | Self-assembly of mildly reduced graphene oxide monolayer for enhanced Raman scattering. 2016 , 237, 57-63 | | 62 |
| 348 | Graphene-based materials with tailored nanostructures for energy conversion and storage. 2016 , 102, 1-72 | | 189 |
| 347 | High performance graphene foam emitter. 2016 , 101, 345-351 | | 11 |

| | | | |
|-----|---|-----|-----|
| 346 | Engineering a multi-biofunctional composite using poly(ethylenimine) decorated graphene oxide for bone tissue regeneration. 2016 , 8, 6820-36 | | 82 |
| 345 | Microwave-assisted synthesis of void-induced graphene-wrapped nickel oxide hybrids for supercapacitor applications. 2016 , 6, 26612-26620 | | 74 |
| 344 | Recent developments in the layer-by-layer assembly of polyaniline and carbon nanomaterials for energy storage and sensing applications. From synthetic aspects to structural and functional characterization. 2016 , 8, 9890-918 | | 61 |
| 343 | Photodegradation of methylene blue using magnetically reduced graphene oxide bismuth oxybromide composite. 2016 , 4, 534-541 | | 17 |
| 342 | Controllable synthesis of rod-like SnO ₂ nanoparticles with tunable length anchored onto graphene nanosheets for improved lithium storage capability. 2016 , 6, 4116-4127 | | 13 |
| 341 | Reduced graphene oxide deposited carbon fiber reinforced polymer composites for electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 82, 141-150 | 8.4 | 123 |
| 340 | Preparation and properties of graphene oxide-regenerated cellulose/polyvinyl alcohol hydrogel with pH-sensitive behavior. 2016 , 138, 222-8 | | 68 |
| 339 | Microwave-assisted synthesis of reduced graphene oxide/titania nanocomposites as an adsorbent for methylene blue adsorption. 2016 , 360, 840-848 | | 83 |
| 338 | Hydrothermal synthesis of N-doped TiO ₂ nanowires and N-doped graphene heterostructures with enhanced photocatalytic properties. 2016 , 656, 24-32 | | 116 |
| 337 | UV-assisted reduction of graphite oxide to graphene by using a photoinitiator. 2017 , 52, 4866-4877 | | 11 |
| 336 | Controllable Nanotribological Properties of Graphene Nanosheets. 2017 , 7, 41891 | | 22 |
| 335 | A new type of graphene oxide and its application in laser devices. 2017 , 66, 277-280 | | 4 |
| 334 | Novel nanocomposites based on hydroxyethyl cellulose and graphene oxide. 2017 , 18, 334-341 | | 14 |
| 333 | Ultrahigh gas barrier poly (vinyl alcohol) nanocomposite film filled with congregated and oriented Fe ₃ O ₄ @GO sheets induced by magnetic-field. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 97, 1-9 | 8.4 | 37 |
| 332 | Synthesis, characterization and enhanced antimicrobial activity of reduced graphene oxide/zinc oxide nanocomposite. 2017 , 4, 025401 | | 27 |
| 331 | Enhanced Photoelectrochemical Performance in Reduced Graphene Oxide/BiFeO Heterostructures. 2017 , 13, 1603457 | | 35 |
| 330 | A biomass carbon mass coated with modified TiO ₂ nanotube/graphene for photocatalysis. 2017 , 41, 4212-4219 | | 9 |
| 329 | Reduced Graphene Oxide-Containing Smart Hydrogels with Excellent Electro-Response and Mechanical Properties for Soft Actuators. 2017 , 9, 15758-15767 | | 154 |

| | | | |
|-----|---|------|-----|
| 328 | Study of ultraviolet-visible light absorbance of exfoliated graphite forms. 2017 , 7, 035323 | | 46 |
| 327 | Flexible Transparent Supercapacitors Based on Hierarchical Nanocomposite Films. 2017 , 9, 17865-17871 | | 63 |
| 326 | Functionalized Graphene Enables Highly Efficient Solar Thermal Steam Generation. 2017 , 11, 5510-5518 | | 270 |
| 325 | Constructing multifunctional MOF@rGO hydro-/aerogels by the self-assembly process for customized water remediation. 2017 , 5, 11873-11881 | | 147 |
| 324 | Activated graphene oxide/reduced graphene oxide electrodes and low viscous sulfonium cation based ionic liquid incorporated flexible gel polymer electrolyte for high rate supercapacitors. 2017 , 695, 3376-3392 | | 19 |
| 323 | Aloe vera assisted facile green synthesis of reduced graphene oxide for electrochemical and dye removal applications. 2017 , 7, 26680-26688 | | 70 |
| 322 | RGO/Au NPs/N-doped CNTs supported on nickel foam as an anode for enzymatic biofuel cells. 2017 , 97, 34-40 | | 36 |
| 321 | An advanced approach for fabricating a reduced graphene oxide-AZO dye/polyurethane composite with enhanced ultraviolet (UV) shielding properties: Experimental and first-principles QM modeling. <i>Chemical Engineering Journal</i> , 2017 , 321, 159-174 | 14.7 | 42 |
| 320 | Role of oxygen functionality on the band structure evolution and conductance of reduced graphene oxide. 2017 , 677, 80-86 | | 11 |
| 319 | Electrical enhancement of radiation-vulcanized natural rubber latex added with reduced graphene oxide additives for supercapacitor electrodes. 2017 , 52, 6611-6622 | | 15 |
| 318 | Polarization-Dependent Optical Sensor Based on Reduced Graphene Oxide. 2017 , 29, 767-770 | | 1 |
| 317 | Graphene boosted Cu ₂ GeS ₃ for advanced lithium-ion batteries. 2017 , 4, 541-546 | | 18 |
| 316 | Purification, Selection, and Partition Coefficient of Highly Oxidized Carbon Dots in Aqueous Two-Phase Systems Based on Polymer-Salt Pairs. 2017 , 33, 12235-12243 | | 9 |
| 315 | Thermal conductivities of PU composites with graphene aerogels reduced by different methods. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 103, 161-167 | 8.4 | 19 |
| 314 | Facile in-situ single step chemical synthesis of reduced graphene oxide-copper oxide-polyaniline nanocomposite and its electrochemical performance for supercapacitor application. 2017 , 257, 483-493 | | 60 |
| 313 | Graphene-Anchored p-Type CuBO Nanocrystals for a Transparent Cold Cathode. 2017 , 33, 9961-9971 | | 3 |
| 312 | Physical properties of nanometer graphene oxide films partially and fully reduced by annealing in ultra-high vacuum. 2017 , 122, 075301 | | 11 |
| 311 | Highly aligned graphene oxide/poly(vinyl alcohol) nanocomposite fibers with high-strength, antiultraviolet and antibacterial properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 102, 297-304 | 8.4 | 31 |

| | | | |
|-----|--|-----|-----|
| 310 | Enhanced removal of roxarsone by Fe ₃ O ₄ @3D graphene nanocomposites: synergistic adsorption and mechanism. 2017 , 4, 2134-2143 | | 67 |
| 309 | A facile and high-efficient approach to yellow emissive graphene quantum dots from graphene oxide. 2017 , 124, 342-347 | | 31 |
| 308 | Development of Graphene Oxide-/Galactitol Polyester-Based Biodegradable Composites for Biomedical Applications. 2017 , 2, 5545-5556 | | 20 |
| 307 | Humidity-Sensitive and Conductive Nanopapers from Plant-Derived Proteins with a Synergistic Effect of Platelet-Like Starch Nanocrystals and Sheet-Like Graphene. 2017 , 5, 9431-9440 | | 15 |
| 306 | Effect of pretreatment of graphite oxide on activity of platinum supported catalysts in liquid-phase hydrogenation. 2017 , 66, 652-660 | | 1 |
| 305 | Synthesis and Stability of Water-in-Oil Emulsion Using Partially Reduced Graphene Oxide as a Tailored Surfactant. 2017 , 33, 10311-10321 | | 24 |
| 304 | Construction of All-Solid-State Batteries based on a Sulfur-Graphene Composite and Li Si P S Cl Solid Electrolyte. 2017 , 23, 13950-13956 | | 52 |
| 303 | Graphene-based composite electrodes for electrochemical energy storage devices: Recent progress and challenges. <i>FlatChem</i> , 2017 , 6, 48-76 | 5.1 | 22 |
| 302 | Efficient removal of Pb(II) from water using magnetic Fe ₃ S ₄ /reduced graphene oxide composites. 2017 , 5, 19333-19342 | | 51 |
| 301 | Multi-biofunctional polymer graphene composite for bone tissue regeneration that elutes copper ions to impart angiogenic, osteogenic and bactericidal properties. 2017 , 159, 293-302 | | 41 |
| 300 | Preparation and enhanced photocatalytic hydrogen-evolution activity of ZnGa ₂ O ₄ /N-rGO heterostructures. 2017 , 7, 53145-53156 | | 16 |
| 299 | From Graphene Oxide to Reduced Graphene Oxide: Impact on the Physiochemical and Mechanical Properties of Graphene-Cement Composites. 2017 , 9, 43275-43286 | | 106 |
| 298 | Adsorption of dodecylamine hydrochloride on graphene oxide in water. 2017 , 7, 2281-2288 | | 44 |
| 297 | Improved mechanical properties through engineering the interface by poly (ether ether ketone) grafted graphene oxide in epoxy based nanocomposites. 2017 , 122, 184-193 | | 40 |
| 296 | The effect of geometric factor of carbon nanofillers on the electrical conductivity and electromagnetic interference shielding properties of poly(trimethylene terephthalate) composites: a comparative study. 2017 , 52, 2560-2580 | | 17 |
| 295 | Enhanced gas sensing properties to acetone vapor achieved by Fe ₂ O ₃ particles ameliorated with reduced graphene oxide sheets. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 904-914 | 8.5 | 90 |
| 294 | Photocatalytic degradation of ethylene using titanium dioxide nanotube arrays with Ag and reduced graphene oxide irradiated by γ-ray radiolysis. 2017 , 203, 673-683 | | 26 |
| 293 | Graphene-based materials via benzidine-assisted exfoliation and reduction of graphite oxide and their electrochemical properties. 2017 , 392, 244-255 | | 25 |

| | | | |
|-----|--|-----|-----|
| 292 | A benign ultrasonic route to reduced graphene oxide from pristine graphite. <i>Journal of Colloid and Interface Science</i> , 2017 , 486, 337-343 | 9.3 | 68 |
| 291 | Dynamic energy transfer in non-covalently functionalized reduced graphene oxide/silver nanoparticle hybrid (NF-RGO/Ag) with NF-RGO as the donor material. 2017 , 28, 2651-2659 | | 4 |
| 290 | Synthesis and characterisation of neodymium doped-zinc oxide-graphene oxide nanocomposite as a highly efficient photocatalyst for enhanced degradation of indigo carmine in water under simulated solar light. 2017 , 43, 481-501 | | 21 |
| 289 | A Graphene-Based Flexible Pressure Sensor with Applications to Plantar Pressure Measurement and Gait Analysis. 2017 , 10, | | 66 |
| 288 | Effect of Preparation Methods on the Tensile, Morphology and Solar Energy Conversion Efficiency of RGO/PMMA Nanocomposites. 2017 , 9, | | 4 |
| 287 | Ultrathin Tungsten Oxide Nanowires/Reduced Graphene Oxide Composites for Toluene Sensing. 2017 , 17, | | 15 |
| 286 | Reduced Graphene OxideBased Microsupercapacitors. 2017 , | | 1 |
| 285 | Aloe vera (L.) Burm.f. extract reduced graphene oxide for supercapacitor application. 2017 , 28, 16648-16657 | | 12 |
| 284 | Lube Oil Wear Reduction via Organic Tribofilms. 2017 , 5, 30 | | 3 |
| 283 | Covalent Bonded Graphene/Neutral Red Nanocomposite Prepared by One-step Electrochemical Method and its Electrocatalytic Properties Toward Uric Acid. 2018 , 30, 1017-1021 | | 3 |
| 282 | Synthesis of Aminopyrene-tetraone-Modified Reduced Graphene Oxide as an Electrode Material for High-Performance Supercapacitors. 2018 , 6, 4729-4738 | | 30 |
| 281 | Enhanced TiO nanorods photocatalysts with partially reduced graphene oxide for degrading aqueous hazardous pollutants. 2018 , 25, 17553-17564 | | 6 |
| 280 | Effect of oxygen-containing functional groups in epoxy/reduced graphene oxide composite coatings on corrosion protection and antimicrobial properties. 2018 , 448, 351-361 | | 55 |
| 279 | Preparations, properties and applications of graphene in functional devices: A concise review. 2018 , 44, 11940-11955 | | 116 |
| 278 | Synthesis and characterization of reduced- graphene oxide/ nickel oxide/ polyaniline ternary nanocomposites for supercapacitors.. 2018 , 5, 8852-8861 | | 2 |
| 277 | The effect of oxygen-containing functional groups on the H ₂ adsorption of grapheneBased nanomaterials: experiment and theory. 2018 , 43, 5668-5679 | | 15 |
| 276 | Experimental study on functional graphene oxide containing many primary amino groups fast-adsorbing heavy metal ions and adsorption mechanism. <i>Separation Science and Technology</i> , 2018 , 53, 1666-1677 | 2.5 | 20 |
| 275 | Self-assembled layer-by-layer partially reduced graphene oxide-sulfur composites as lithium-sulfur battery cathodes.. 2018 , 8, 3443-3452 | | 11 |

| | | |
|-----|--|-----|
| 274 | Growth-Oriented Fe-Based MOFs Synergized with Graphene Aerogels for High-Performance Supercapacitors. 2018 , 5, 1701548 | 52 |
| 273 | A graphene modified carbon ionic liquid electrode for voltammetric analysis of the sequence of the Staphylococcus aureus nuc gene. 2018 , 185, 167 | 17 |
| 272 | Pt nanoparticles decorated TiO ₂ nanotubes for the reduction of olefins. 2018 , 10, 86-92 | 13 |
| 271 | ERGO grown on Ni-Cu foam frameworks by constant potential method as high performance electrodes for supercapacitors. 2018 , 436, 1050-1060 | 13 |
| 270 | Synthesis and characterization of Fe ₃ O ₄ /ZnO-GO nanocomposites with improved photocatalytic degradation methyl orange under visible light irradiation. 2018 , 737, 197-206 | 51 |
| 269 | A parametric study for the synthesis of grapheneAgAu nanocomposites: performances as electrode material. 2018 , 29, 10411-10426 | 1 |
| 268 | Facile fabrication of two-dimensional reduced graphene oxide/CoAl-layered double hydroxides nanocomposites for lithium-oxygen battery with improved electrochemical performance. 2018 , 744, 196-203 | 18 |
| 267 | Self-propagated combustion synthesis of few-layered graphene: an optical properties perspective. 2018 , 10, 7581-7588 | 6 |
| 266 | Improved dispersion of attapulgite in polypropylene by grap oxide and the enhanced mechanical properties. 2018 , 39, 560-568 | 14 |
| 265 | Ab initio characterization and experimental validation on the roles of oxygen-containing groups in graphene based formaldehyde sensors. 2017 , 143, 106-115 | 10 |
| 264 | Chemical etching of a semiconductor surface assisted by single sheets of reduced graphene oxide. 2018 , 127, 681-687 | 16 |
| 263 | Rhodamine B removal on A-rGO/cobalt oxide nanoparticles composite by adsorption from contaminated water. 2018 , 1161, 356-365 | 32 |
| 262 | In situ one-step hydrothermal synthesis of oxygen-containing groups-modified g-C ₃ N ₄ for the improved photocatalytic H ₂ -evolution performance. 2018 , 427, 645-653 | 141 |
| 261 | High-performance multi-functional graphene/hexagonal boron nitride/poly(ethylene oxide) nanocomposites through enhanced interfacial interaction by coordination.. 2018 , 8, 36761-36768 | 3 |
| 260 | Ternary nanocomposites of reduced graphene oxide, polyaniline and hexaniobate: hierarchical architecture and high polaron formation. 2018 , 9, 2936-2946 | 3 |
| 259 | Theory-Driven Heterojunction Photocatalyst Design with Continuously Adjustable Band Gap Materials. 2018 , 122, 28065-28074 | 17 |
| 258 | Fabrication and characterization of ABS/rGO nano- composites for EMI shielding application. 2018 , | |
| 257 | Novel Green Synthesis of Graphene Layers using Zante Currants and Graphene Oxide. 2018 , 34, 2832-2837 | 5 |

| | | |
|-----|--|---------|
| 256 | Reduced Graphene Oxide/TiO ₂ Nanotube Composite: Comprehensive Study for Gas-Sensing Applications. 2018 , 1, 7098-7105 | 37 |
| 255 | Cobalt-Doped Porous Carbon Nanosheets Derived from 2D Hypercrosslinked Polymer with CoN ₂ for High Performance Electrochemical Capacitors. 2018 , 10, | 10 |
| 254 | Formation of unique three-dimensional interpenetrating network structure with a ternary composite. 2018 , 29, 18699-18707 | 2 |
| 253 | All-printed solid-state substrate-versatile and high-performance micro-supercapacitors for in situ fabricated transferable and wearable energy storage via multi-material 3D printing. 2018 , 403, 109-117 | 34 |
| 252 | Visible-light driven photocatalyst of CdTe/CdS homologous heterojunction on N-rGO photocatalyst for efficient degradation of 2,4-dichlorophenol. 2018 , 93, 603-615 | 36 |
| 251 | Localized Surface Plasmon Resonance of Reduced Graphene Oxide/Ag Hybrid for Gas Sensing Application. 2018 , 18, 9222-9229 | 2 |
| 250 | A Microstructured Graphene/Poly(N-isopropylacrylamide) Membrane for Intelligent Solar Water Evaporation. 2018 , 57, 16343-16347 | 80 |
| 249 | A Microstructured Graphene/Poly(N-isopropylacrylamide) Membrane for Intelligent Solar Water Evaporation. 2018 , 130, 16581-16585 | 5 |
| 248 | Adsorption Characteristics of Phenolic Compounds on Graphene Oxide and Reduced Graphene Oxide: A Batch Experiment Combined Theory Calculation. 2018 , 8, 1950 | 18 |
| 247 | Flexible and free-standing reduced graphene oxide thick films with PMMA stabilized silver nanoparticles, as a potential probe for cancer thermal therapy. 2018 , 4, 065032 | 1 |
| 246 | Direct Synthesis of Graphene Quantum Dots with Different Fluorescence Properties by Oxidation of Graphene Oxide Using Nitric Acid. 2018 , 8, 1303 | 31 |
| 245 | Frozen Spray-Coating Prepared Graphene Aerogel with Enhanced Mechanical, Electrochemical, and Electromagnetic Performance for Energy Storage. 2018 , 1, 4910-4917 | 6 |
| 244 | One-pot method to reduce and functionalize graphene oxide via vulcanization accelerator for robust elastomer composites with high thermal conductivity. 2018 , 164, 267-273 | 18 |
| 243 | Self-assembled, bivalent aptamers on graphene oxide as an efficient anticoagulant. 2018 , 6, 1882-1891 | 12 |
| 242 | Low Noise Field Effect Biosensor with Electrochemically Reduced Graphene Oxide. 2018 , 165, B3201-B3207 | 9 |
| 241 | Al ₂ O ₃ /reduced graphene oxide double-layer radiative coating for efficient heat dissipation. 2018 , 157, 130-140 | 16 |
| 240 | An efficient reduced graphene-oxide filter for PM _{2.5} removal. 2018 , 6, 16975-16982 | 36 |
| 239 | Facile preparation of 3D regenerated cellulose/graphene oxide composite aerogel with high-efficiency adsorption towards methylene blue. <i>Journal of Colloid and Interface Science</i> , 2018 , 532, 58-67 | 9.3 137 |

| | | |
|-----|---|----|
| 238 | Ultrathin SnO ₂ nanorod/reduced graphene oxide nanosheet composites for electrochemical supercapacitor applications with excellent cyclic stability. 2018 , 109, 743-750 | 7 |
| 237 | Revealing the Role of Oxygen Debris and Functional Groups on the Water Flux and Molecular Separation of Graphene Oxide Membrane: A Combined Experimental and Theoretical Study. 2018 , 122, 17507-17517 | 22 |
| 236 | A general strategy for direct synthesis of reduced graphene oxide by chemical exfoliation of graphite. 2018 , 218, 51-61 | 22 |
| 235 | Flower-like nanostructured V ₃ S ₄ grown on three-dimensional porous graphene aerogel for efficient oxygen reduction reaction. 2018 , 450, 348-355 | 16 |
| 234 | Modified graphene-based materials as effective catalysts for transesterification of rapeseed oil to biodiesel fuel. 2018 , 39, 1633-1645 | 27 |
| 233 | A Brief Review of Metallothermic Reduction Reactions for Materials Preparation. 2018 , 2, 1800062 | 23 |
| 232 | Synthesis of CZTS QDs decorated reduced graphene oxide nanocomposite as possible absorber for solar cell. 2018 , 232, 232-236 | 9 |
| 231 | Cellulose type chiral stationary phase based on reduced graphene oxide@silica gel for the enantiomer separation of chiral compounds. 2018 , 30, 996 | 11 |
| 230 | Wonder material graphene: properties, synthesis and practical applications. 2018 , 4, 573-602 | 8 |
| 229 | The inhibitory impacts of nano-graphene oxide on methane production from waste activated sludge in anaerobic digestion. 2019 , 646, 1376-1384 | 41 |
| 228 | Core-shell structured Al/PVDF nanocomposites with high dielectric permittivity but low loss and enhanced thermal conductivity. 2019 , 59, 103-111 | 13 |
| 227 | Characterization of graphene oxide: Variations in reported approaches. 2019 , 154, 510-521 | 32 |
| 226 | Electrochemical performance of decorated reduced graphene oxide by MoO ₃ nanoparticles as a counter electrode. 2019 , 6, 095519 | 1 |
| 225 | Electrochemical performance of hydrothermally synthesized N-Doped reduced graphene oxide electrodes for supercapacitor application. 2019 , 96, 105952 | 12 |
| 224 | In situ thermally reduced graphene oxide enhancing lithium storage of 0.3Li ₂ MnO ₃ ·0.7LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ cathode material. 2019 , 26, 100953 | 1 |
| 223 | A graphene-based pH sensor on paper for human plasma and seawater. 2019 , 2019, 1563-1566 | 7 |
| 222 | Tuning the Multifunctional Surface Chemistry of Reduced Graphene Oxide via Combined Elemental Doping and Chemical Modifications. 2019 , 4, 19787-19798 | 26 |
| 221 | Eco-Friendly and Safe Method of Fabricating Superhydrophobic Surfaces on Stainless Steel Substrates. 2019 , 123, 25738-25746 | 27 |

220 . 2019,

| | | |
|-----|---|--------|
| 219 | Etching Characteristics of Quartz Crystal Wafers Using Argon-Based Atmospheric Pressure CF ₄ Plasma Stabilized by Ethanol Addition. 2019 , 2, 168-176 | 8 |
| 218 | Novel Composite Electrode of the Reduced Graphene Oxide Nanosheets with Gold Nanoparticles Modified by Glucose Oxidase for Electrochemical Reactions. 2019 , 9, 764 | 3 |
| 217 | The role of interface in gas barrier properties of styrene butadiene rubber-reduced graphene oxide composites. 2019 , 182, 121816 | 17 |
| 216 | Nanocarbon: Preparation, properties, and applications. 2019 , 327-354 | 0 |
| 215 | Ultra-low gas permeable cellulose nanofiber nanocomposite films filled with highly oriented graphene oxide nanosheets induced by shear field. 2019 , 209, 310-319 | 27 |
| 214 | Evolution of dielectric properties of thermally reduced graphene oxide as a function of pyrolysis temperature. 2019 , 93, 241-251 | 10 |
| 213 | Fine-tuning of wettability in a single metal-organic framework postcoordination modification and its reduced graphene oxide aerogel for oil-water separation. 2019 , 10, 2663-2669 | 34 |
| 212 | A New Sensor for Methyl Paraben Using an Electrode Made of a Cellulose Nanocrystal-Reduced Graphene Oxide Nanocomposite. 2019 , 19, | 15 |
| 211 | Paving the path to the future of carbogenic nanodots. 2019 , 10, 2391 | 26 |
| 210 | Enhanced deoxygenation efficiency of graphene oxide under solid-state microwave irradiation via chemical pre-reduction. 2019 , 97, 107445 | 6 |
| 209 | Tunable dispersibility and wettability of graphene oxide through one-pot functionalization and reduction. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 771-780 | 9.3 10 |
| 208 | 2-Amino-3-chloro-1,4-naphthoquinone-covalent modification of graphene nanosheets for efficient electrochemical energy storage. 2019 , 48, 9234-9242 | 13 |
| 207 | Remote monitoring of seawater temperature and pH by low cost sensors. 2019 , 148, 248-252 | 15 |
| 206 | Reduced Graphene Oxide Coated Hollow Polyester Fibers for Efficient Solar Steam Generation. 2019 , 7, 1900265 | 18 |
| 205 | Simultaneous reduction and surface functionalization of graphene oxide by cystamine dihydrochloride for rubber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 122, 18-26 | 8.4 11 |
| 204 | Revealing the Mechanism of Graphene Oxide Reduction by Supercritical Ethanol with First-Principles Calculations. 2019 , 123, 8932-8942 | 3 |
| 203 | New insights on the understanding of the high adsorption of bisphenol compounds on reduced graphene oxide at high pH values via charge assisted hydrogen bond. 2019 , 371, 513-520 | 17 |

| | | |
|-----|---|---------|
| 202 | Synthesis of reduced graphene oxide/ZnO nanocomposites using grape fruit extract and leaf extract and a comparative study of their photocatalytic property in degrading Rhodamine B dye. 2019 , 17, 195-207 | 16 |
| 201 | Highly potent radical scavenging-anti-oxidant activity of biologically reduced graphene oxide using Nettle extract as a green bio-genic amines-based reductants source instead of hazardous hydrazine hydrate. 2019 , 371, 609-624 | 36 |
| 200 | BLG-RGO: A novel nanoadditive for water-based lubricant. 2019 , 135, 277-286 | 14 |
| 199 | Development of a electrochemical sensor for the detection of 2,4-dichlorophenol using a polymer nanocomposite of rGO. 2019 , 30, 7150-7162 | 3 |
| 198 | Electromagnetic interference shielding behavior of chemically and thermally reduced graphene based multifunctional polyurethane nanocomposites: A comparative study. 2019 , 136, 47666 | 15 |
| 197 | Light-Induced Tunable n-Doping of Ag-Embedded GO/RGO Sheets in Polymer Matrix. 2019 , 123, 10557-10563 | 4 |
| 196 | Preparation, characterization and antibacterial activity of silver nanoparticle/graphene oxide/diatomite composite. 2019 , 484, 628-636 | 16 |
| 195 | Three-dimensional interconnected graphene microsphere as fillers for enhancing thermal conductivity of polymer. <i>Chemical Engineering Journal</i> , 2019 , 368, 79-87 | 14.7 42 |
| 194 | Reduced graphene oxide nanocomposites for optoelectronics applications. 2019 , 125, 1 | 16 |
| 193 | Stabilized Li-decoration and enhanced hydrogen storage on reduced graphene oxides. 2019 , 44, 31192-31203 | 9 |
| 192 | Functional Pd/reduced graphene oxide nanocomposites: effect of reduction degree and doping in hydrodechlorination catalytic activity. 2019 , 21, 1 | 0 |
| 191 | Mass Loading-Independent Energy Storage with Reduced Graphene Oxide and Carbon Fiber. 2019 , 6, 6009-6015 | 6 |
| 190 | Mechanical Stability of PDMS-Based Micro/Nanotextured Flexible Superhydrophobic Surfaces under External Loading. 2019 , 11, 48583-48593 | 35 |
| 189 | Optical and Thermal Properties of Laser-Ablated Platinum Nanoparticles Graphene Oxide Composite. 2019 , 20, | 8 |
| 188 | Uniform Spherical Graphene/Monocrystal-Copper Powder Fabricated by the Low Wettability of Liquid/Solid Interface. 2019 , 36, 224-231 | |
| 187 | Thermal stability and mechanical properties of ethylenediamine-modified GO/co-polyamide nanocomposites. 2019 , 40, 3315-3324 | 2 |
| 186 | Polyurethane foams with functionalized graphene towards high fire-resistance, low smoke release, superior thermal insulation. <i>Chemical Engineering Journal</i> , 2019 , 361, 1245-1254 | 14.7 46 |
| 185 | Selective removal of diethanolamine from methyldiethanolamine solution using chemically reduced single-layer graphene and activated carbon. <i>Separation Science and Technology</i> , 2019 , 54, 2671-2681 | 2.5 1 |

| | | |
|-----|--|-----|
| 184 | Simultaneous reduction and surface functionalization of graphene oxide and the application for rubber composites. 2019 , 136, 47375 | 9 |
| 183 | Asymmetric finger-shape metallization in Graphene-on-Si solar cells for enhanced carrier trapping. 2019 , 91, 13-21 | 7 |
| 182 | Review on graphene and its derivatives: Synthesis methods and potential industrial implementation. 2019 , 98, 163-180 | 182 |
| 181 | Manipulated interparticle gaps of silver nanoparticles by dendron-exfoliated reduced graphene oxide nanohybrids for SERS detection. 2019 , 469, 887-895 | 10 |
| 180 | Tuning the electrical properties of graphene oxide by nitrogen ion implantation: Implication for gas sensing. 2019 , 450, 257-261 | 4 |
| 179 | Sonocatalytic decolorization of methylene blue from aqueous media by La:ZnO/GO nanocomposites. 2019 , 45, 1985-2005 | 5 |
| 178 | Polydopamine doped reduced graphene oxide/mesoporous silica nanosheets for chemo-photothermal and enhanced photothermal therapy. 2019 , 96, 138-145 | 36 |
| 177 | Directly Deposited Binder-Free Sulfur Electrode Enabled by Air-Controlled Electrospray Process. 2019 , 2, 678-686 | 2 |
| 176 | Effective Surface Area Tuning of Noble Metal-Free CuBO ₂ /rGO Nanohybrid for Efficient Hydrogen Production with On/Off Switching. 2019 , 2, 260-268 | 10 |
| 175 | Improved thermal stability of phenolic resin by graphene-encapsulated nano-SiO ₂ hybrids. 2019 , 135, 2377-2387 | 7 |
| 174 | Graphene oxide nanoplatfrom surface decoration by spherical zinc-polypyrrole nanoparticles for epoxy coating properties enhancement: Detailed explorations from integrated experimental and electronic-scale quantum mechanics approaches. 2020 , 816, 152510 | 20 |
| 173 | Simple fabrication of sericin/graphene nanocomposites for application in articular cartilage repair in knee joints in nursing care. 2020 , 10, 695-702 | 2 |
| 172 | Study of matrix/filler interaction through correlations between structural and viscoelastic properties of carbonous-filler/polymer-matrix composites. 2020 , 137, 48660 | 20 |
| 171 | Controlled reduction of graphene oxide laminate and its applications for ultra-wideband microwave absorption. 2020 , 160, 307-316 | 27 |
| 170 | Rational design of 2D hierarchically laminated Fe ₃ O ₄ @nanoporous carbon@rGO nanocomposites with strong magnetic coupling for excellent electromagnetic absorption applications. 2020 , 8, 2123-2134 | 119 |
| 169 | Graphene/waste-newspaper cellulose composite aerogels with selective adsorption of organic dyes: preparation, characterization, and adsorption mechanism. 2020 , 44, 2256-2267 | 22 |
| 168 | Novel functional graphene and its thermodynamic interfacial localization in biphasic polyolefin systems for advanced lightweight applications. 2020 , 188, 107958 | 16 |
| 167 | Eco-friendly Synthesis of CRGO and CRGO/SnO Nanocomposite for Photocatalytic Degradation of Methylene Green Dye. 2020 , 5, 158-169 | 5 |

| | | |
|-----|---|-------|
| 166 | Dendrite-Free Potassium Metal Anodes in a Carbonate Electrolyte. 2020 , 32, e1906735 | 67 |
| 165 | Comparative study of deoxygenation behavior for graphene oxide with different oxidation degree and mildly reduced graphene oxide via solid-state microwave irradiation. 2020 , 241, 122411 | 5 |
| 164 | Holey graphene: an emerging versatile material. 2020 , 8, 918-977 | 36 |
| 163 | Urea and cow urine-based green approach to fabricate graphene-based transparent conductive films with high conductivity and transparency. 2020 , 242, 122465 | 12 |
| 162 | Maximized Energy Density of RuO ₂ //RuO ₂ Supercapacitors through Potential Dependence of Specific Capacitance. 2020 , 7, 928-936 | 6 |
| 161 | Microwave reduction of graphene oxide. 2020 , 170, 277-293 | 33 |
| 160 | Boronic acids for functionalisation of commercial multi-layer graphitic material as an alternative to diazonium salts. 2020 , 44, 19144-19154 | 3 |
| 159 | Structure, Properties, and Electrochemical Sensing Applications of Graphene-Based Materials. 2020 , 7, 4508-4525 | 12 |
| 158 | Graphene Oxide as a Sensing Material for Gas Detection Based on Nanomechanical Sensors in the Static Mode. 2020 , 8, 82 | 6 |
| 157 | Graphenised Lithium Iron Phosphate and Lithium Manganese Silicate Hybrid Cathodes: Potentials for Application in Lithium-ion Batteries. 2020 , 32, 2982-2999 | 3 |
| 156 | Segregated Network Polymer Composites with High Electrical Conductivity and Well Mechanical Properties based on PVC, P(VDF-TFE), UHMWPE, and rGO. 2020 , 5, 25148-25155 | 6 |
| 155 | 3D Reduced Graphene Oxide Scaffolds with a Combinatorial Fibrous-Porous Architecture for Neural Tissue Engineering. 2020 , 12, 38962-38975 | 15 |
| 154 | Antimicrobial Activity of Electrospun Polyvinyl Alcohol Nanofibers Filled with Poly[2-(tert-butylaminoethyl) Methacrylate]-Grafted Graphene Oxide Nanosheets. 2020 , 12, | 12 |
| 153 | Synthesis and magnetic properties of stable cobalt nanoparticles decorated reduced graphene oxide sheets in the aqueous medium. 2020 , 31, 15108-15117 | 1 |
| 152 | Electroresponsive Silk-Based Biohybrid Composites for Electrochemically Controlled Growth Factor Delivery. 2020 , 12, | 14 |
| 151 | Thermal stability and dielectric relaxation behavior of in situ prepared poly(vinyl alcohol) (PVA)-reduced graphene oxide (RGO) composites. 2020 , 298, 1319-1333 | 9 |
| 150 | Antibacterial activity of graphene oxide nanosheet against multidrug resistant superbugs isolated from infected patients. 2020 , 7, 200640 | 25 |
| 149 | Non-Isothermal Crystallization Behavior and Thermal Properties of Polyethylene Tuned by Polypropylene and Reinforced with Reduced Graphene Oxide. <i>Nanomaterials</i> , 2020 , 10, | 5-4 8 |

| | | | |
|-----|---|-----|----|
| 148 | Tuning the electronic and magnetic properties of PEDOT-PSS-coated graphene oxide nanocomposites for biomedical applications. 2020 , 35, 2478-2490 | | 4 |
| 147 | Dielectric Polarization and Electrorheological Response of Poly(ethylaniline)-Coated Reduced Graphene Oxide Nanoflakes with Different Reduction Degrees. 2020 , 12, | | 1 |
| 146 | Graphene-based carbocatalysts for carbon-carbon bond formation. 2020 , 12, 12210-12227 | | 19 |
| 145 | Europium oxide nanorod-reduced graphene oxide nanocomposites towards supercapacitors.. 2020 , 10, 17543-17551 | | 7 |
| 144 | Integrated Carbon Dots-Matrix Structures: An Efficient Strategy for High-Performance Electric Double Layer Capacitors. 2020 , 3, 4958-4964 | | 4 |
| 143 | BiMoO Quantum Dots In Situ Grown on Reduced Graphene Oxide Layers: A Novel Electron-Rich Interface for Efficient CO Reduction. 2020 , 12, 25861-25874 | | 22 |
| 142 | High rate capable and high energy supercapacitor performance of reduced graphene oxide/Al(OH)/polyaniline nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2020 , 575, 377-387 | 9.3 | 10 |
| 141 | Self-assembled reduced graphene oxide/nickel nanofibers with hierarchical core-shell structure for enhanced electromagnetic wave absorption. 2020 , 167, 530-540 | | 40 |
| 140 | Micro-Nano Hierarchical Dendritic Structures for Droplet Curve Manipulation: Implications for Microfluidic Devices. 2020 , 3, 6524-6530 | | 11 |
| 139 | A comparative study of dirac 2D materials, TMDCs and 2D insulators with regard to their structures and photocatalytic/sonophotocatalytic behavior. 2020 , 10, 3875-3899 | | 29 |
| 138 | Polyacrylate grafted graphene oxide nanocomposites for biomedical applications. 2020 , 127, 054302 | | 5 |
| 137 | Constructing an E-Nose Using Metal-Ion-Induced Assembly of Graphene Oxide for Diagnosis of Lung Cancer via Exhaled Breath. 2020 , 12, 17713-17724 | | 20 |
| 136 | Vertically Coated Graphene Oxide Micro-Well Arrays for Highly Efficient Cancer Spheroid Formation and Drug Screening. 2020 , 9, e1901751 | | 9 |
| 135 | Improved carrier transport in Mn:ZnSe quantum dots sensitized La-doped nano-TiO ₂ thin film. 2020 , 29, 046104 | | 2 |
| 134 | In-situ one pot synthesis of graphene-ZnO nanohybrid and its application to UV light detection. 2020 , 7, 015058 | | 5 |
| 133 | Catalytic Properties of Chemically Modified Graphene Sheets to Enhance Etching of Ge Surface in Water. 2020 , 124, 6121-6129 | | 6 |
| 132 | Effective PEGylation method to improve biocompatibility of graphene derivatives. 2020 , 124, 109504 | | 13 |
| 131 | 3D printing of ceramics and graphene circuits-on-ceramics by thermal bubble inkjet technology and high temperature sintering. 2020 , 46, 10096-10104 | | 13 |

| | | | |
|-----|--|-----|----|
| 130 | Investigation of bandgap alteration in graphene oxide with different reduction routes. 2020 , 513, 145396 | | 36 |
| 129 | Silica-Coated Magnetic Iron Oxide Nanoparticles Grafted onto Graphene Oxide for Protein Isolation. <i>Nanomaterials</i> , 2020 , 10, | 5-4 | 29 |
| 128 | Antimicrobial activity of graphene oxide quantum dots: impacts of chemical reduction. 2020 , 2, 1074-1083 | | 11 |
| 127 | Graphene oxide and zinc oxide decorated chitosan nanocomposite biofilms for packaging applications. 2020 , 40, 152-157 | | 11 |
| 126 | A Graphenic Biosensor for Real-Time Monitoring of Urea During Dialysis. 2020 , 20, 4571-4578 | | 9 |
| 125 | Research on WPU-RGO/ATP-Fe ₃ O ₄ /chitosan composites with excellent electrical and magnetic properties. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 1164-1171 | 3-2 | 1 |
| 124 | Flexible films with wrinkled micro-nano hierarchical structures having stable superhydrophobicity under external loading. 2020 , 55, 9623-9637 | | 13 |
| 123 | Two-Dimensional Layered Metallic VSe /SWCNTs/rGO Based Ternary Hybrid Materials for High Performance Energy Storage Applications. 2020 , 26, 6662-6669 | | 17 |
| 122 | Fabrication of Erythrina senegalensis leaf extract mediated reduced graphene oxide for cardiac repair applications in the nursing care. 2021 , 51, 143-149 | | 1 |
| 121 | Reduced graphite oxide-pure water supercapacitor: A futuristic water based energy storage device. 2021 , 126, 114452 | | 4 |
| 120 | Colloidal synthesis of NiMn ₂ O ₄ nanodisks decorated reduced graphene oxide for electrochemical applications. 2021 , 160, 105630 | | 7 |
| 119 | An investigation on the structure properties of platinum nanoparticle deposition on graphene sheets by gamma-ray irradiation: a study of methanol electro-oxidation by synthesis catalyst. 2021 , 75, 1701-1714 | | 0 |
| 118 | Reduced graphene oxide based hybrid functionalized films for hydrogen detection: Theoretical and experimental studies. 2021 , 2, 100072 | | 15 |
| 117 | Lignin Cellulose Nanofibrils as an Electrochemically Functional Component for High-Performance and Flexible Supercapacitor Electrodes. 2021 , 14, 1057-1067 | | 13 |
| 116 | Chemical and structural properties of reduced graphene oxide dependence on the reducing agent. 2021 , 56, 3738-3754 | | 18 |
| 115 | Structural and electrochemical properties of GO/Mn ₃ O ₄ nanocomposite. 2021 , 32, 3894-3902 | | 0 |
| 114 | CHAPTER 2. Covalent Functionalization of Polymers. 2021 , 24-71 | | |
| 113 | Hydroxyl-group-modified polymeric carbon nitride with the highly selective hydrogenation of nitrobenzene to N-phenylhydroxylamine under visible light. 2021 , 23, 3612-3622 | | 5 |

| | | |
|-----|--|-------|
| 112 | Reduced graphene oxide-decorated CdS/ZnO nanocomposites for photoreduction of hexavalent chromium and photodegradation of methylene blue. 2021 , 50, 14163-14175 | 3 |
| 111 | Tuning the interface in epoxy based composites and laminates through epoxy grafted graphene oxide enhances mechanical properties. | |
| 110 | Synthesis and Characterization of Tertiary Nanothermite CNMs/Al/KClO ₄ with Enhanced Combustion Characteristics. 2021 , 46, 995-1005 | 1 |
| 109 | Functionalized Reduced Graphene Oxide as a Versatile Tool for Cancer Therapy. 2021 , 22, | 24 |
| 108 | Cellulose nanocrystal reinforced conductive nanocomposite hydrogel with fast self-healing and self-adhesive properties for human motion sensing. 2021 , 613, 126076 | 14 |
| 107 | Tunable Synthesis of Predominant Semi-Ionic and Covalent Fluorine Bonding States on a Graphene Surface. <i>Nanomaterials</i> , 2021 , 11, | 5-4 0 |
| 106 | Enhanced giant magneto-impedance effects in sandwich FINEMET/rGO/FeCo composite ribbons. 2021 , 545, 149021 | 3 |
| 105 | Cold RF oxygen plasma treatment of graphene oxide films. 2021 , 32, 15718-15731 | 1 |
| 104 | Synthesis and fabrication of films including graphene oxide functionalized with chitosan for regenerative medicine applications. 2021 , 7, e07058 | 4 |
| 103 | New perspectives on Graphene/Graphene oxide based polymer nanocomposites for corrosion applications: The relevance of the Graphene/Polymer barrier coatings. 2021 , 154, 106215 | 14 |
| 102 | Catalytic activity of PtCoTiO ₃ nanocatalysts supported on reduced graphene oxide functionalized with Cr organometallic compounds for the oxygen reduction reaction. 1 | 3 |
| 101 | Quick responsive and durable supercapacitive performance of rGO/Zn(OH) ₂ /PANI nanocomposites. 2021 , 44, 1 | 0 |
| 100 | Ultra-Low Wear and Anti-Oxidation Properties of Microcrystalline Graphite Oxide-Magnesium Silicate Hydroxide Composite Nanoadditives in the Poly-Alpha-Olefin Base Oil. 2022 , 144, | 0 |
| 99 | 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 |
| 98 | A 3D printed low volume hybrid enzyme fuel cell for low power applications. 2021 , 555, 149720 | 0 |
| 97 | Effect of characterization probes on the properties of graphene oxide and reduced graphene oxide. 2021 , 127, 1 | 1 |
| 96 | Facile synthesis of nanostructured ZnO/rGO based graphene and its application in wastewater treatment. 2021 , 32, 19667-19675 | 2 |
| 95 | Efficiency Enhancement of Low-Cost Heterojunction Solar Cell by the Incorporation of Highly Conducting rGO Into ZnO Nanostructure. 2021 , 68, 3238-3245 | 4 |

| | | |
|----|---|--------|
| 94 | Preparation and characterization of basic graphene-based catalysts and their application in biodiesel synthesis. 2021 , 554, 149588 | 5 |
| 93 | Impact of reducing agents on the ammonia sensing performance of silver decorated reduced graphene oxide: Experiment and first principles calculations. 2021 , 558, 149886 | 8 |
| 92 | Selective Etching of Semiconductor Surfaces by Catalytic Activity of Nanocarbon. 2021 , 64, 352-357 | |
| 91 | rGO/MC fiber supercapacitors with core-sheath structure manufactured by coaxial extrusion printing. 1 | 1 |
| 90 | Effect of Microwave Treatment in a High Pressure Microwave Reactor on Graphene Oxide Reduction Process-TEM, XRD, Raman, IR and Surface Electron Spectroscopic Studies. 2021 , 14, | 0 |
| 89 | Synthesis of Nanocrystalline Reduced Graphene Oxide Quantum Dots. 2150036 | 0 |
| 88 | Polarity dependent electrowetting for directional transport of water through patterned superhydrophobic laser induced graphene fibers. 2021 , 182, 605-614 | 2 |
| 87 | Microcellular epoxy/graphene nanocomposites with outstanding electromagnetic interference shielding and mechanical performance by overcoming nanofiller loading/dispersion dichotomy. 2021 , 215, 109000 | 8 |
| 86 | Designing an eco-friendly lanthanide-based metal organic framework (MOF) assembled graphene-oxide with superior active anti-corrosion performance in epoxy composite. 2021 , 319, 128732 | 17 |
| 85 | Facile fabrication of ultra-large graphene film with high photothermal effect and thermal conductivity. 2021 , 563, 150354 | 2 |
| 84 | Nano-scale P, Zn-codoped reduced-graphene oxide incorporated epoxy composite; synthesis, electronic-level DFT-D modeling, and anti-corrosion properties. 2021 , 159, 106416 | 6 |
| 83 | Co-doped magnetic N-TiO ₂ -x/rGO heterojunction@cellulose nanofibrous flakelet for enhanced photocatalytic oxidation and facile separation: Efficient charge separation and self-floatability. <i>Chemical Engineering Journal</i> , 2021 , 425, 131462 | 14.7 4 |
| 82 | One-step irradiation assisted fabrication of RGO/PAM hydrogel for air detritiation. 2021 , 189, 109757 | 2 |
| 81 | Reduced graphene oxide supported ZnO/CdS heterojunction enhances photocatalytic removal efficiency of hexavalent chromium from aqueous solution. 2022 , 286, 131738 | 11 |
| 80 | Dozens-fold improvement of biochar redox properties by KOH activation. <i>Chemical Engineering Journal</i> , 2022 , 429, 132203 | 14.7 2 |
| 79 | CHAPTER 4:Physical Properties of Polymer Functionalized Graphene. 2021 , 95-132 | |
| 78 | PEI functionalized NaCeF:Tb/Eu for photoluminescence sensing of heavy metal ions and explosive aromatic nitro compounds.. 2021 , 11, 19333-19350 | 3 |
| 77 | Superhydrophobic mGO/PDMS hybrid coating on polyester fabric for oil/water separation. 2018 , 115, 172-180 | 39 |

| | | | |
|----|---|------|----|
| 76 | Solution processed nanostructured hybrid materials based on PbS quantum dots and reduced graphene oxide with tunable optoelectronic properties. <i>Nanotechnology</i> , 2021 , 32, 055604 | 3-4 | 2 |
| 75 | Graphene-Like Layers from Unconventional Carbon Sources: New Perspectives on Hybrid Materials and System Synergisms. 2017 , 18, 263 | | 2 |
| 74 | A Two-Step Method for the Preparation of Highly Conductive Graphene Film and Its Gas-Sensing Property. 2015 , 06, 963-977 | | 2 |
| 73 | Remarkable Stability of Graphene/Ni-Al Layered Double Hydroxide Hybrid Composites for Electrochemical Capacitor Electrodes. 2013 , 4, 19-26 | | 2 |
| 72 | Comprehensive review on synthesis and adsorption behaviors of graphene-based materials. 2012 , 13, 73-87 | | 34 |
| 71 | NO ₂ gas sensing based on graphene synthesized via chemical reduction process of exfoliated graphene oxide. 2012 , 22, 84-91 | | 3 |
| 70 | Large-scale preparation of graphene oxide film and its application for electromagnetic interference shielding.. 2021 , 11, 33302-33308 | | 0 |
| 69 | Development of a new highly sensitive serotonin sensor based on green synthesized silver nanoparticle decorated reduced graphene oxide. 2021 , 13, 5187-5194 | | 0 |
| 68 | Structural Defects of Graphene Oxidation Reduction and Its High-Efficiency Structural Reforming Technology. 2021 , 2021, 1-7 | | 1 |
| 67 | Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. 2021 , 6, 3841-3881 | | 7 |
| 66 | Rational design of three-dimensional nickel borate/graphene nanoarrays for boosted photoconversion of anthropogenic CO ₂ . 2021 , 27, 101497 | | |
| 65 | Preparation and Characterization of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/Graphene Nanocomposites. 2015 , 16, 108-115 | | |
| 64 | High crystallinity graphene synthesis from graphene oxide. 2016 , 2016, 171-181 | | |
| 63 | Evaluation of Electrochemical Characteristics on Graphene Coated Austenitic and Martensitic Stainless Steels for Metallic Bipolar Plates in PEMFC Fabricated with Hydrazine Reduction Methods. 2016 , 15, 92-107 | | |
| 62 | Adsorption of NO ₂ by hydrazine hydrate-reduced graphene oxide. 2019 , 68, 118102 | | 1 |
| 61 | Facile construction of ternary ZnO/CdS/GO heterostructure with boosting and stable photocatalytic performance towards organic dyes degradation. 1-11 | | |
| 60 | Controlled Reduction of Graphene Oxide Using Sulfuric Acid. 2020 , 14, | | 1 |
| 59 | Ultrathin freestanding PDA-Doped rGO/MWCNT composite paper for electromagnetic interference shielding applications. <i>Chemical Engineering Journal</i> , 2022 , 430, 132808 | 14.7 | 0 |

| | | | |
|----|---|------|---|
| 58 | Synthesis of nitrogen and sulfur-nitrogen co-doped carbon-based oxygen reduction reaction catalyst from rice straw and reeling waste of muga silk (<i>Anthraea assamensis</i>). 2021 , | | |
| 57 | Enhanced thermal and energetic properties of NC-based nanocomposites with silane functionalized GO. 2021 , 50, 17766-17773 | | 0 |
| 56 | Insights into the Role of Graphene/Graphene-hybrid Nanocomposites in Antiviral Therapy. 2021 , 8, 549 | | 0 |
| 55 | Fabrication of MNPs/rGO/PMMA Composite for the Removal of Hazardous Cr(VI) from Tannery Wastewater through Batch and Continuous Mode Adsorption. 2021 , 14, | | 0 |
| 54 | Effect of electrolyte concentration on the electrochemical performance of RGO/KOH supercapacitor. 2021 , 44, 1 | | 6 |
| 53 | Tunable nonlinear optical enhancement of FeOOH nanorods/RGO composites. 2021 , 31, 105056 | | 0 |
| 52 | Reflective SFT-FBG Hybrid Micro-Probe for Simultaneous Measurement of Relative Humidity and Temperature. 2022 , 14, 1-6 | | 1 |
| 51 | Radio-frequency plasma assisted reduction and nitrogen doping of graphene oxide. 2022 , 189, 571-578 | | |
| 50 | One-step fabrication of nitrogen-doped laser-induced graphene derived from melamine/polyimide for enhanced flexible supercapacitors. | | 0 |
| 49 | Detection of a Double-Stranded MGMT Gene Using Electrochemically Reduced Graphene Oxide (ErGO) Electrodes Decorated with AuNPs and Peptide Nucleic Acids (PNA).. 2022 , 12, | | |
| 48 | Charge separation and transfer activated by covalent bond in UiO-66-NH ₂ /RGO heterostructure for CO ₂ photoreduction. <i>Chemical Engineering Journal</i> , 2022 , 135210 | 14.7 | 2 |
| 47 | Identifying Molecular Fluorophore Impurities in the Synthesis of Low-Oxygen-Content, Carbon Nanodots Derived from Pyrene. | | |
| 46 | Mediation of water-soluble oligoaniline by phenol in the aniline-persulfate system under alkaline conditions.. 2022 , | | 0 |
| 45 | Surface Modification of Sulfur-Assisted Reduced Graphene Oxide with Poly(phenylene sulfide) for Multifunctional Nanocomposites.. 2022 , 14, | | 1 |
| 44 | Combustion behaviour and reaction kinetics of GO/Al/oxidizing salts ternary nanothermites. | | 0 |
| 43 | Exfoliated graphene and its derivatives from liquid phase and their role in performance enhancement of epoxy matrix composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 156, 106886 | 8.4 | 1 |
| 42 | Ultrathin Super-barrier film via 100 % surface coating coverage of Self-assembled graphene oxide sheets. <i>Chemical Engineering Journal</i> , 2022 , 440, 135913 | 14.7 | 0 |
| 41 | Three-dimensional macroporous hybrid carbon aerogel with heterogeneous structure derived from MXene/cellulose aerogel for absorption-dominant electromagnetic interference shielding and excellent thermal insulation performance.. <i>Journal of Colloid and Interface Science</i> , 2022 , 619, 96-105 | 9.3 | 6 |

| | | | |
|----|---|------|---|
| 40 | Physiochemically distinct SU-8 surfaces tailor <i>Xylella fastidiosa</i> cell-surface holdfast and colonization. | | |
| 39 | Facile preparation of reduced graphene oxide for removing tetracycline from water: Kinetics and thermodynamics studies. <i>Separation Science and Technology</i> , 1-12 | 2.5 | 1 |
| 38 | Structural, morphological, optical, and dielectric properties of PVA-PVP filled with zinc oxide aluminum-graphene oxide composite for promising applications. <i>Polymers for Advanced Technologies</i> , 2022 , 33, 1009-1020 | 3.2 | 1 |
| 37 | Nafion reinforced with polyacrylonitrile nanofibers/zirconium-graphene oxide composite membrane for direct methanol fuel cell application. <i>Journal of Polymer Research</i> , 2022 , 29, 1 | 2.7 | |
| 36 | Phenanthrenequinone-like moiety functionalized carbon for electrocatalytic acidic oxygen evolution. <i>CheM</i> , 2022 , | 16.2 | 2 |
| 35 | Bottom-up synthesis of few-layered graphene powders and their applications as efficient lubricating and electromagnetic shielding additives. <i>FlatChem</i> , 2022 , 33, 100375 | 5.1 | 1 |
| 34 | Carbon nanomaterial-based sensors: An efficient tool in the environmental sectors. 2022 , 149-165 | | |
| 33 | Graphene Oxide Hybrid Coatings on Implant Alloys for Biomedical Applications. <i>Indian Institute of Metals Series</i> , 2022 , 537-557 | 0.3 | |
| 32 | A Comprehensive Review on Ion Beam-Reduced Graphene Oxide: Tailoring the Reduction with Optical, Electrical and Electronic Structural Properties. <i>Journal of Electronic Materials</i> , | 1.9 | |
| 31 | Highly Sensitive, Cost-Effective, and Flexible SERS Substrate Based on Green Synthesized GO/rGO for Pesticide Detection**. <i>ChemistrySelect</i> , 2022 , 7, | 1.8 | |
| 30 | Graphene-based polymer composites for photocatalytic applications. 2022 , 377-432 | | |
| 29 | Redispersible Reduced Graphene Oxide Prepared in a Gradient Solvent System. <i>Nanomaterials</i> , 2022 , 12, 1982 | 5.4 | |
| 28 | Tuning the Laser-Induced Processing of 3D Porous Graphenic Nanostructures by Boron-Doped Diamond Particles for Flexible Microsupercapacitors. <i>Advanced Functional Materials</i> , 2206097 | 15.6 | 3 |
| 27 | Nacre-Like Reduced Graphene Oxide/Silver Nanowire Paper With Reinforced Chemical and Electrical Stability for Fast Electrical Heating System. <i>Frontiers in Energy Research</i> , 10, | 3.8 | |
| 26 | Capacitive Properties of Chlorine Doped Graphene Quantum Dots Anchored into Reduced Graphene Oxide. <i>ECS Journal of Solid State Science and Technology</i> , 2022 , 11, 071005 | 2 | 0 |
| 25 | Assembly of 2D-MoS2 with graphene layer for highly sensitive and selective gas detection at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2022 , 367, 132185 | 8.5 | 0 |
| 24 | Highly conductive nanographite/ultra-high-molecular-weight polyethylene composite. <i>Results in Materials</i> , 2022 , 15, 100298 | 2.3 | 0 |
| 23 | Removal of heavy metals and dyes from wastewater using graphene oxide-based nanomaterials: A critical review. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022 , 18, 100719 | 3.3 | 1 |

| | | |
|----|---|---|
| 22 | Multifunctional graphene oxide nanoparticles for drug delivery in cancer. 2022 , 350, 26-59 | 4 |
| 21 | Bubblegum inspired epoxidized natural rubber composites for superior mechanical and electrical properties. 2022 , 257, 125286 | 0 |
| 20 | Anisotropic microcellular epoxy/rGO-SCF aerogel foam with excellent compressibility and superior electromagnetic interference shielding performance. 2022 , 230, 109718 | 0 |
| 19 | Physiochemically Distinct Surface Properties of SU-8 Polymer Modulate Bacterial Cell-Surface Holdfast and Colonization. | 0 |
| 18 | Scalable Manufacturing Process and Multifunctional Performance of Cotton Fibre-Reinforced Poly(Lactic Acid) (PLA) Bio-Composites Coated by Graphene Oxide. 2022 , 14, 3946 | 0 |
| 17 | Application of single-atom Fe implanted N-doped carbon material as co-catalyst in the Fenton-like reaction and exploration of its enhanced activity. 2022 , 108843 | 0 |
| 16 | Energy band alignment engineering in nanostructured hybrid materials based on PbS QDs and reduced graphene oxide: Enhancing photodetector device performance. 2023 , 932, 167707 | 0 |
| 15 | Adsorption isotherms, kinetic modeling and thermodynamics of toxic crystal violet from aqueous solution on eco-friendly L-cysteine-reduced graphene oxide. 2022 , | 0 |
| 14 | Thermal and electrical transport in partly-reduced graphene oxide films: The effect of low temperature and structure domain size. 2023 , 203, 130-140 | 0 |
| 13 | Directly loading graphene oxide into melamine sponge for fast and high-efficiency adsorption of methylene blue. 2023 , 36, 102575 | 0 |
| 12 | Comparison of photocatalytic and antibacterial activities of allotropes of graphene doped Sm ₂ O ₃ nanocomposites: Optical, thermal, and structural studies. | 0 |
| 11 | Realization of water resistant, durable and self-cleaning on oriented cellulose nanocomposite packaging films. 2023 , 30, | 0 |
| 10 | Facile Green Preparation of Reduced Graphene Oxide Using Citrus Limetta-Decorated rGO/TiO ₂ Nanostructures for Glucose Sensing. 2023 , 12, 294 | 0 |
| 9 | Electrochemical behaviour of cellulose/reduced graphene oxide/carbon fiber paper electrodes towards the highly sensitive detection of amitrole. 2023 , 13, 1867-1876 | 1 |
| 8 | Graphene-Based Microbial Fuel Cell. 2023 , 155-187 | 0 |
| 7 | Influence of Potassium Metal-Support Interactions on Dendrite Growth. | 0 |
| 6 | Facile synthesis of dense porous carbon derived from <i>Linum usitatissimum</i> L. root for high mass loading supercapacitors. 2023 , 63, 107039 | 0 |
| 5 | Recent Progress of Graphene Fiber/Fabric Supercapacitors: From Building Block Architecture, Fiber Assembly, and Fabric Construction to Wearable Applications. | 0 |

- 4 Room-Temperature acetone gas sensing properties of graphene oxide/zinc oxide nanocomposites synthesized by sol-gel method. **2023**, 34, ○
- 3 Influence of Potassium Metal-Support Interactions on Dendrite Growth. ○
- 2 In Situ Fabrication of High Dielectric Constant Composite Films with Good Mechanical and Thermal Properties by Controlled Reduction. **2023**, 28, 2535 ○
- 1 Flexible highly conductive films based on expanded graphite /polymer nanocomposites. 5, ○