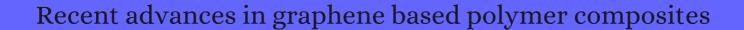
CITATION REPORT List of articles citing



DOI: 10.1016/j.progpolymsci.2010.07.005 Progress in Polymer Science, 2010, 35, 1350-1375.

Source: https://exaly.com/paper-pdf/48265287/citation-report.pdf

Version: 2024-04-09

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

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

#	Paper IF	Citations
2274		
2273	Preparation and Characterization of High Performance LLDPE/Graphene Nanocomposites. 2011 , 410, 152-155	1
2272	Flexible holey graphene paper electrodes with enhanced rate capability for energy storage applications. 2011 , 5, 8739-49	434
2271	Synergistic effect of Cu2+-coordinated carbon nanotube/graphene network on the electrical and mechanical properties of polymer nanocomposites. 2011 , 21, 18723	49
2270	Melt blending in situ enhances the interaction between polystyrene and graphene through Elstacking. 2011 , 3, 3103-9	178
2269	Synergistic effect of hybrid carbon nantubegraphene oxide as a nanofiller in enhancing the mechanical properties of PVA composites. 2011 , 21, 10844	173
2268	Graphene oxides dispersing and hosting graphene sheets for unique nanocomposite materials. 2011 , 5, 3052-8	82
2267	Comprehension of Nanocomposites. 2011 , 777-819	2
2266	Tough graphene-polymer microcellular foams for electromagnetic interference shielding. 2011 , 3, 918-24	833
2265	Polyphenol-Reduced Graphene Oxide: Mechanism and Derivatization. 2011 , 115, 20740-20746	91
2264	Superior conductive polystyrene Ehemically converted graphene nanocomposite. 2011 , 21, 11312	79
2263	Nonlinear membrane model for large amplitude vibration of single layer graphene sheets. 2011 , 22, 305703	41
2262	Preparation of water-dispersible graphene by facile surface modification of graphite oxide. 2011 , 22, 305710	82
2261	Preparation and characterization of polypropylene-graft-thermally reduced graphite oxide with an improved compatibility with polypropylene-based nanocomposite. 2011 , 3, 1516-22	75
2260	Incorporation of electron tunnelling phenomenon into 3D Monte Carlo simulation of electrical percolation in graphite nanoplatelet composites. 2011 , 44, 455306	15
2259	Nanotailoring Carbon Fiber Composites with Graphene: Enhancement of Bending Properties. 2011,	1
2258	Characterization and properties of in situ emulsion polymerized poly(methyl methacrylate)/graphene nanocomposites. 2011 , 42, 1856-1861	140

2257	Strong and bioactive gelatingraphene oxide nanocomposites. 2011 , 7, 6159	131
2256	Click Chemistry on Solution-Dispersed Graphene and Monolayer CVD Graphene. 2011 , 23, 3362-3370	156
2255	Graphene-containing thermoresponsive nanocomposite hydrogels of poly(N-isopropylacrylamide) prepared by frontal polymerization. 2011 , 21, 8727	179
2254	Sodium deoxycholate functionalized graphene and its composites with polyvinyl alcohol. 2011 , 44, 445302	14
2253	Morphology, Crystallization Behavior, and Dynamic Mechanical Properties of Biodegradable Poly(Etaprolactone)/Thermally Reduced Graphene Nanocomposites. 2011 , 50, 13885-13891	85
2252	Crystallization behaviors of biodegradable poly(l-lactic acid)/graphene oxide nanocomposites from the amorphous state. 2011 , 526, 229-236	93
2251	Recent advances of inorganic fillers in mixed matrix membrane for gas separation. 2011 , 81, 243-264	466
2250	Polystyrene-grafted graphene with improved solubility in organic solvents and its compatibility with polymers. 2011 , 130, 794-799	29
2249	Easy synthesis and characterization of high quality graphene sheets produced from mesocarbon microbeads. 2011 , 65, 2739-2741	8
2248	Recent advances in graphene-based biosensors. 2011 , 26, 4637-48	1025
2248	Recent advances in graphene-based biosensors. 2011 , 26, 4637-48 ABS nanocomposite films based on functionalized-graphene sheets. 2011 , 124, n/a-n/a	1025
2247		
2247	ABS nanocomposite films based on functionalized-graphene sheets. 2011 , 124, n/a-n/a	6
2247 2246	ABS nanocomposite films based on functionalized-graphene sheets. 2011 , 124, n/a-n/a Thermo-dependent characteristics of polyimide@raphene composites. 2011 , 289, 1503-1509 Enhanced interfacial interaction for effective reinforcement of poly(vinyl alcohol) nanocomposites	6
2247 2246 2245	ABS nanocomposite films based on functionalized-graphene sheets. 2011, 124, n/a-n/a Thermo-dependent characteristics of polyimidegraphene composites. 2011, 289, 1503-1509 Enhanced interfacial interaction for effective reinforcement of poly(vinyl alcohol) nanocomposites at low loading of graphene. 2011, 67, 1785-1797	6 38 38
2247 2246 2245 2244	ABS nanocomposite films based on functionalized-graphene sheets. 2011, 124, n/a-n/a Thermo-dependent characteristics of polyimide@raphene composites. 2011, 289, 1503-1509 Enhanced interfacial interaction for effective reinforcement of poly(vinyl alcohol) nanocomposites at low loading of graphene. 2011, 67, 1785-1797 Graphene nanocomposites based on poly(vinylidene fluoride): Structure and properties. 2011, 32, 1483-1491 Nonisothermal crystallization kinetics of in situ nylon 6/graphene composites by differential	6 38 38 63
2247 2246 2245 2244	ABS nanocomposite films based on functionalized-graphene sheets. 2011, 124, n/a-n/a Thermo-dependent characteristics of polyimide@raphene composites. 2011, 289, 1503-1509 Enhanced interfacial interaction for effective reinforcement of poly(vinyl alcohol) nanocomposites at low loading of graphene. 2011, 67, 1785-1797 Graphene nanocomposites based on poly(vinylidene fluoride): Structure and properties. 2011, 32, 1483-1491 Nonisothermal crystallization kinetics of in situ nylon 6/graphene composites by differential scanning calorimetry. 2011, 49, 1381-1388 Chemical preparation of graphene-based nanomaterials and their applications in chemical and	6 38 38 63 38

2239	Functional composite materials based on chemically converted graphene. 2011 , 23, 1089-115		859
2238	Multiscale modeling of composite materials: a roadmap towards virtual testing. 2011 , 23, 5130-47		233
2237	Interphases in graphene polymer-based nanocomposites: achievements and challenges. 2011 , 23, 5302-	10	228
2236	Two-dimensional nanocomposites based on chemically modified graphene. 2011 , 17, 10804-12		61
2235	Structure-process-property relationship of the polar graphene oxide-mediated cellular response and stimulated growth of osteoblasts on hybrid chitosan network structure nanocomposite scaffolds. 2011 , 7, 3432-45		328
2234	Preparation of functionalized graphene/linear low density polyethylene composites by a solution mixing method. 2011 , 49, 1033-1037		282
2233	A review on the mechanical and electrical properties of graphite and modified graphite reinforced polymer composites. <i>Progress in Polymer Science</i> , 2011 , 36, 638-670	29.6	894
2232	Recent advances in synthesis, physical properties and applications of conducting polymer nanotubes and nanofibers. <i>Progress in Polymer Science</i> , 2011 , 36, 1415-1442	29.6	690
2231	Electrochemical behavior of graphene doped carbon paste electrode and its application for sensitive determination of ascorbic acid. 2011 , 157, 110-114		109
2230	Preparation of graphene nanosheets by in-situ oxidation-exfoliation method. 2011,		
2229	Effective Reinforcement of Graphene in Poly (vinyl alcohol) Nanocomposites at Low Loading via Enhanced Interfacial Interaction. 2011 , 391-392, 250-254		1
2228	Mechanical properties of polydicyclopentadiene/graphite nanosheet composites prepared by reaction injection moulding. 2012 , 41, 319-325		8
2227	ADDITION OF CONDUCTIVE ELEMENTS TO POLYMERIC SCAFFOLDS FOR MUSCLE TISSUE ENGINEERING. 2012 , 02, 1230011		4
2226	Novel polycarbonate-graphene nanocomposite foams prepared by CO2dissolution. 2012 , 31, 012008		14
2225	Advances in graphene-related technologies: synthesis, devices and outlook. 2012 , 6, 79-98		24
2224	Thermal conductivity improvement of electrically nonconducting composite materials. 2012, 28,		9
2224	Thermal conductivity improvement of electrically nonconducting composite materials. 2012, 28, Improved properties of chemically modified graphene/poly(methyl methacrylate) nanocomposites via a facile in-situ bulk polymerization. 2012, 6, 847-858		9 56

2221	Synthesis and Characterization of Novel Graphene Silicon Oxide Nanocomposite Material. 2012 , 1400, 73	1
2220	Bending investigation on carbon fiber/epoxy composites nano-modified by graphene. 2012 , 34, 269-275	19
2219	Characteristics of Graphene-Filled Solderable Isotropically Conductive Adhesive (ICA). 2012, 53, 578-581	2
2218	- Diffusion through Polymers Containing Platelike Nanomaterials. 2012 , 490-517	
2217	Perspectives of applied graphene: Polymer solar cells. <i>Progress in Polymer Science</i> , 2012 , 37, 1805-1828 29.6	127
2216	Review on Conducting Polymers and Their Applications. 2012 , 51, 1487-1500	374
2215	Graphene oxide versus functionalized carbon nanotubes as a reinforcing agent in a PMMA/HA bone cement. 2012 , 4, 2937-45	100
2214	Covalent functionalization of graphene with poly(methyl methacrylate) by atom transfer radical polymerization at room temperature. 2012 , 3, 2768	46
2213	Chapter 3:Electrically Conductive Polymer © raphene Composites Prepared Using Latex Technology. 2012 , 66-85	2
2212	Chapter 6:Microstructure and Properties of Compatibilized Polyethylene © raphene Oxide Nanocomposites. 2012 , 141-161	1
2211	Chapter 10:Crystallization Properties of Isotactic Polypropylene©raphene Nanocomposites. 2012 , 227-263	
2210	Preparation of poly(vinyl alcohol) nanocomposites with molybdenum disulfide (MoS2): structural characteristics and markedly enhanced properties. 2012 , 2, 11695	170
2209	Recent Advances in Fabrication and Characterization of Graphene-Polymer Nanocomposites. 2012 , 01, 30-49	172
2208	Bioinspired approaches for optimizing the strength and toughness of graphene-based polymer nanocomposites. 2012 , 22, 16182	39
2207	Tribological and mechanical investigation of MC nylon reinforced by modified graphene oxide. 2012 , 294-295, 395-401	97
2206	Comparison of Theory with Experimental Data for Nanoclay-Filled TPU/PP Blend. 2012 , 51, 13379-13392	10
2205	Approaching the theoretical limit for reinforcing polymers with graphene. 2012 , 22, 1278-1282	145
2204	Electrical conductivity of synergistically hybridized nanocomposites based on graphite nanoplatelets and carbon nanotubes. 2012 , 23, 405202	40

2203	Polyolefin-based polymer nanocomposites. 2012 , 181-215	О
2202	Highly fluorescent graphene oxide-poly(vinyl alcohol) hybrid: an effective material for specific Au3+ion sensors. 2012 , 4, 5576-82	119
2201	Thermal stability of polycarbonate-graphene nanocomposite foams. 2012 , 97, 1297-1304	90
2200	Elasticity and structure of weak graphite nanoplatelet (GNP) networks in polymer matrices through viscoelastic analyses. 2012 , 53, 2699-2704	24
2199	Hybrid photovoltaic devices based on the reduced graphene oxide-based polymer composite and n-type GaAs. 2012 , 162, 1411-1415	14
2198	Graphene oxide: preparation, functionalization, and electrochemical applications. 2012 , 112, 6027-53	2515
2197	Graphene-based materials for catalysis. 2012 , 2, 54-75	791
2196	Advances in 2D boron nitride nanostructures: nanosheets, nanoribbons, nanomeshes, and hybrids with graphene. 2012 , 4, 6908-39	611
2195	Carbon nanotubes and graphene in analytical sciences. 2012 , 179, 1-16	178
2194	Highly conductive and stretchable conductors fabricated from bacterial cellulose. 2012 , 4, e19-e19	198
2193	Hyperbranched-polymer functionalization of graphene sheets for enhanced mechanical and dielectric properties of polyurethane composites. 2012 , 22, 7010	217
2192	Surface decoration of carbon nanosheets with amino-functionalized organosilica nanoparticles. 2012 , 258, 3703-3709	20
2191	The mechanics of graphene nanocomposites: A review. 2012 , 72, 1459-1476	893
2190	Influence of vacancies on the elastic properties of a graphene sheet. 2012 , 55, 255-262	33
2189	High throughput modification of chemically reduced graphene oxides by a conjugated block copolymer in non-polar medium. 2012 , 22, 25183	22
2188	New routes to graphene, graphene oxide and their related applications. 2012 , 24, 4924-55	282
2187	Preparation and Tribological Properties of Polyamide 11/Graphene Coatings. 2012 , 51, 1163-1166	50
2186	Wear Performance and Mechanisms of Polyphenylene Sulfide/Polytetrafluoroethylene Wax Composite Coatings Reinforced by Graphene. 2012 , 51, 1218-1227	27

2185	Mesoscale modeling of block copolymer nanocomposites. 2012 , 8, 5102	38
2184	Graphene and Its Synthesis. 2012 , 415-438	5
2183	One-Pot Controlled Synthesis of Homopolymers and Diblock Copolymers Grafted Graphene Oxide Using Couplable RAFT Agents. 2012 , 45, 1346-1355	54
2182	Preparation of graphene by pressurized oxidation and multiplex reduction and its polymer nanocomposites by masterbatch-based melt blending. 2012 , 22, 6088	342
2181	Conducting Polymers Directly Coated on Reduced Graphene Oxide Sheets as High-Performance Supercapacitor Electrodes. 2012 , 116, 5420-5426	581
2180	Role of Solubility Parameters in Understanding the Steric Stabilization of Exfoliated Two-Dimensional Nanosheets by Adsorbed Polymers. 2012 , 116, 11393-11400	171
2179	Fabrication of the Cu2O/polyvinyl pyrrolidone-graphene modified glassy carbon-rotating disk electrode and its application for sensitive detection of herbicide paraquat. 2012 , 173, 530-539	47
2178	Polymer nanocomposites: structure, interaction, and functionality. 2012 , 4, 1919-38	81
2177	Highly conductive poly(methyl methacrylate) (PMMA)-reduced graphene oxide composite prepared by self-assembly of PMMA latex and graphene oxide through electrostatic interaction. 2012 , 4, 2630-6	213
2176	Hydrazine chemical sensing by modified electrode based on in situ electrochemically synthesized polyaniline/graphene composite thin film. 2012 , 173, 177-183	90
2175	Non-covalently modified graphene sheets by imidazolium ionic liquids for multifunctional polymer nanocomposites. 2012 , 22, 5666	135
2174	Nanocomposite of electrochemically reduced graphene oxide and gold nanoparticles enhanced electrochemilunescence of peroxydisulfate and its immunosensing abililty towards human IgG. 2012 , 686, 25-31	23
2173	Graphene-like titanium carbides and nitrides $Tin+1Cn$, $Tin+1Nn$ ($n = 1, 2, and 3$) from de-intercalated MAX phases: First-principles probing of their structural, electronic properties and relative stability. 2012 , 65, 104-114	201
2172	High conductive ethylene vinyl acetate composites filled with reduced graphene oxide and polyaniline. 2012 , 43, 2183-2188	35
2171	Overall performance of natural rubber/graphene nanocomposites. 2012 , 73, 40-46	153
2170	Graphene-based multilayers: Critical evaluation of materials assembly techniques. 2012 , 7, 430-447	112
2169	RECENT ADVANCES IN GRAPHENE-BASED NANOMATERIALS FOR BIOMEDICAL APPLICATIONS. 2012 , 02, 1230001	34
2168	Controlled thin graphitic petal growth on oxidized silicon. 2012 , 27-28, 1-9	31

2167	The effect of surface chemistry of graphene on rheological and electrical properties of polymethylmethacrylate composites. 2012 , 50, 5117-5125	250
2166	Thermal Degradation of Polymer and Polymer Composites. 2012 , 213-242	18
2165	Graphene-polymer composites. 2012 , 40, 012018	8
2164	Cross-linkable nitrile functionalized graphene oxide/poly(arylene ether nitrile) nanocomposite films with high mechanical strength and thermal stability. 2012 , 22, 5602	100
2163	Chlorophenyl pendant decorated graphene sheet as a potential antimicrobial agent: synthesis and characterization. 2012 , 22, 22481	47
2162	Surfactant-stabilized graphene/polyaniline nanofiber composites for high performance supercapacitor electrode. 2012 , 22, 80-85	221
2161	In situ growth of FeNi alloy nanoflowers on reduced graphene oxide nanosheets and their magnetic properties. 2012 , 14, 1432-1438	30
2160	Chemistry and physics of a single atomic layer: strategies and challenges for functionalization of graphene and graphene-based materials. 2012 , 41, 97-114	432
2159	Simultaneous catalyzing and reinforcing effects of imidazole-functionalized graphene in anhydride-cured epoxies. 2012 , 22, 18395	80
2158	Selective Dibenzothiophene Adsorption on Graphene Prepared Using Different Methods. 2012 , 51, 10259-102	26 ₄ 43
2157	Soft X-ray Absorption Spectroscopy Studies of the Electronic Structure Recovery of Graphene Oxide upon Chemical Defunctionalization. 2012 , 116, 20591-20599	53
2156	Dendronized graphenes: remarkable dendrimer size effect on solvent dispersity and bulk electrical conductivity. 2012 , 22, 3082	20
2155	Craphone Delumes Compositor, 2012, 1	2
	Graphene P olymer Composites. 2012 , 1	2
2154	Graphene: Fundamentals and functionalities. 2012 , 37, 1119-1124	30
2154		
	Graphene: Fundamentals and functionalities. 2012 , 37, 1119-1124 Effect of Low Thermally Reduced Graphene Loadings on the Crystallization Kinetics and	30
2153	Graphene: Fundamentals and functionalities. 2012 , 37, 1119-1124 Effect of Low Thermally Reduced Graphene Loadings on the Crystallization Kinetics and Morphology of Biodegradable Poly(3-hydroxybutyrate). 2012 , 51, 13686-13691 Graphene nanoplatelets as novel reinforcement filler in poly(lactic acid)/epoxidized palm oil green	30 45

(2012-2012)

2149	Morphological, electrical, thermal and mechanical properties of phthalocyanine/multi-wall carbon nanotubes nanocomposites prepared by masterbatch dilution. 2012 , 19, 1	17
2148	Electrical memory devices based on inorganic/organic nanocomposites. 2012 , 4, e18-e18	143
2147	Thermoplastic Nanocomposites and Their Processing Techniques. 2012,	3
2146	Preparation and characterization of graphene composites with conducting polymers. 2012, 61, 93-98	33
2145	Rheological behavior of cycloolefin copolymer/graphite composites. 2012 , 52, 2645-2653	44
2144	Crystallization, rheological behavior and mechanical properties of poly(vinylidene fluoride) composites containing graphitic fillers: a comparative study. 2012 , 61, 1031-1040	13
2143	Enhanced mechanical and thermal properties of rigid polyurethane foam composites containing graphene nanosheets and carbon nanotubes. 2012 , 61, 1107-1114	103
2142	Modification of graphene/graphene oxide with polymer brushes using controlled/living radical polymerization. 2012 , 50, 2981-2992	82
2141	Graphene-based nafion nanocomposite membranes: enhanced proton transport and water retention by novel organo-functionalized graphene oxide nanosheets. 2012 , 8, 3338-49	110
2140	Preparation of graphene oxide by solvent-free mechanochemical oxidation of graphite. 2012 , 22, 12465	66
2139	Graphenelhorganic nanocomposites. 2012 , 2, 64-98	507
2138	Poly(vinyl alcohol) nanocomposites filled with poly(vinyl alcohol)-grafted graphene oxide. 2012 , 4, 2387-94	213
2137	Graphene nanoplatelet-induced strengthening of ultrahigh molecular weight polyethylene and biocompatibility in vitro. 2012 , 4, 2234-41	122
2136	Grafting of Polyester onto Graphene for Electrically and Thermally Conductive Composites. 2012 , 45, 3444-3451	168
2135	Polysaccharide Nanocomposites Reinforced with Graphene Oxide and Keratin-Grafted Graphene Oxide. 2012 , 51, 3619-3629	86
2134	In Situ Electrochemical Polymerization at AirWater Interface: Surface-Pressure-Induced, Graphene-Oxide-Assisted Preferential Orientation of Polyaniline. 2012 , 116, 13997-14004	11
2133	The Fabrication, Properties, and Uses of Graphene/Polymer Composites. 2012 , 213, 1060-1077	454
2132	Reduction of Graphite Oxide with a Grignard Reagent for Facile In Situ Preparation of Electrically Conductive Polyolefin/Graphene Nanocomposites. 2012 , 213, 720-728	29

2131	Tunneling conductivity in composites of attractive colloids. 2012 , 136, 164903	15
2130	Local Organization of Graphene Network Inside Graphene/Polymer Composites. 2012 , 22, 1311-1318	42
2129	Polymer/Boron Nitride Nanocomposite Materials for Superior Thermal Transport Performance. 2012 , 124, 6604-6607	38
2128	Polymer/boron nitride nanocomposite materials for superior thermal transport performance. 2012 , 51, 6498-501	296
2127	A new equation for predicting electrical conductivity of carbon-filled polymer composites used for bipolar plates of fuel cells. 2012 , 128, n/a-n/a	7
2126	On oxygen-containing groups in chemically modified graphenes. 2012 , 18, 4541-8	68
2125	Nanocarbon composites and hybrids in sustainability: a review. 2012 , 5, 456-78	144
2124	Viscoelastic Properties of Water Suspensions of Polymer Nanofibers Synthesized via RAFT-Mediated Emulsion Polymerization. 2012 , 45, 5273-5280	39
2123	Effect of temperature and time on the exfoliation and de-oxygenation of graphite oxide by thermal reduction. 2012 , 47, 5097-5105	35
2122	The effect of CNT modification on the mechanical properties of polyimide composites with and without MoS2. 2012 , 47, 597-602	6
2121	In situ reduction of graphene oxide dispersed in a polymer matrix. 2012 , 14, 1	27
2120	pH-Mediated fine-tuning of optical properties of graphene oxide membranes. 2012 , 50, 3233-3239	24
2119	Synthesis and properties of bulk graphene nanoplatelets consolidated by spark plasma sintering. 2012 , 50, 4068-4077	211
2118	Observation of mechanical percolation in functionalized graphene oxide/elastomer composites. 2012 , 50, 4489-4494	60
2117	Fabrication of self-binding noble metal/flexible graphene composite paper. 2012, 50, 4648-4654	22
2116	Synthesis of a graphenellarbon nanotube composite and its electrochemical sensing of hydrogen peroxide. 2012 , 59, 509-514	166
2115	Preparation, thermal stability and electrical properties of PMMA/functionalized graphene oxide nanosheets composites. 2012 , 134, 677-685	51
2114	Fracture toughness and toughening mechanisms in graphene platelet reinforced Si3N4 composites. 2012 , 66, 793-796	167

2113	Novel nanoprocessing route for bulk graphene nanoplatelets reinforced metal matrix nanocomposites. 2012 , 67, 29-32	261
2112	Synthesis and properties of thermally reduced graphene oxide/polyacrylonitrile composites. 2012 , 73, 741-743	37
2111	Crystallization kinetics and morphology of biodegradable poly(l-lactic acid)/graphene oxide nanocomposites: Influences of graphene oxide loading and crystallization temperature. 2012 , 527, 40-46	122
2110	Chemical functionalization of graphene and its applications. 2012 , 57, 1061-1105	1351
2109	High-performance nanocomposites based on polyetherketones. 2012 , 57, 1106-1190	187
2108	Fabrication of polypyrrole/graphene oxide nanocomposites by liquid/liquid interfacial polymerization and evaluation of their optical, electrical and electrochemical properties. 2012 , 53, 923-932	229
2107	Preparation and characterization of poly (butylene terephthalate)/graphene composites by in-situ polymerization of cyclic butylene terephthalate. 2012 , 53, 897-902	78
2106	Effect of functionalized graphene on the physical properties of linear low density polyethylene nanocomposites. 2012 , 31, 31-38	164
2105	Functionalized-graphene/ethylene vinyl acetate co-polymer composites for improved mechanical and thermal properties. 2012 , 31, 282-289	102
2104	Quantitative evaluation of the dispersion achievable using different preparation methods and DC electrical conductivity of vapor grown carbon nanofiber/epoxy composites. 2012 , 31, 697-704	14
2103	Microstructure and fracture toughness of Si3N4+graphene platelet composites. 2012 , 32, 3389-3397	142
2102	Comparative study on the exfoliated expanded graphite nanosheet-PES composites prepared via different compounding method. 2012 , 124, 3547-3557	13
2101	Microstructure and elastic tensile behavior of polyethylene terephthalate-exfoliated graphene nanocomposites. 2012 , 47, 876-882	42
2100	Development of poly(dimethylsiloxane)Eitania nanocomposites with controlled dielectric properties: Effect of heat treatment of titania on electrical properties. 2013 , 127, 784-796	22
2099	Effect of interfacial chemistry on the linear rheology and thermal stability of poly(arylene ether nitrile) nanocomposite films filled with various functionalized graphite nanoplates. 2013 , 127, 1827-1833	7
2098	Lubrication of poly(vinyl alcohol) chain orientation by carbon nano-chips in composite tapes. 2013 , 127, 2977-2982	32
2097	Retracted: PP/PP-g-MAH/layered expanded graphite oxide nanocomposites prepared via masterbatch process. 2013 , 128, 600-610	6
2096	High-density polyethylene nanocomposites using masterbatches of chlorinated polyethylene/graphene oxide. 2013 , 53, 78-88	59

2095	Deviation of phase transition process in surface-tethered thermotropic liquid crystalline polymer nanocomposites with graphene oxide: a spectroscopic study. 2013 , 4, 5768	5
2094	Effect of hydroiodic acid-reduction of graphene oxide on electrical properties of polybenzimidazobenzophenanthroline/graphene oxide nanocomposites. 2013 , 21, 1254-1262	4
2093	Improvement of mechanical and electrical properties of epoxy resin with carbon nanofibers. 2013 , 22, 721-727	28
2092	Effects of various polyolefin copolymers on the interfacial interaction, microstructure and physical properties of cyclic olefin copolymer(COC)/graphite composites. 2013 , 20, 1	6
2091	Galvanic corrosion of Al/Cu meshes with carbon fibers and graphene and ITO-based nanocomposite coatings as alternative approaches for lightning strikes. 2013 , 67, 1317-1323	33
2090	Preparation, characterization, and electrochemical performances of graphene/Ni(OH)2 hybrid nanomaterials. 2013 , 15, 1	6
2089	Graphene reinforced alumina nano-composites. 2013 , 64, 359-369	221
2088	Graphene-loaded sodium alginate nanocomposite membranes with enhanced isopropanol dehydration performance via a pervaporation technique. 2013 , 3, 17120	113
2087	Application of Ritz functions in buckling analysis of embedded orthotropic circular and elliptical micro/nano-plates based on nonlocal elasticity theory. 2013 , 48, 1337-1353	30
2086	Enhanced mechanical properties of silanized silica nanoparticle attached graphene oxide/epoxy composites. 2013 , 79, 115-125	281
2085	Fabrication and characterization of highly efficient flexible energy harvesters using PVDFgraphene nanocomposites. 2013 , 22, 085017	86
2084	Polymer/carbon based composites as electromagnetic interference (EMI) shielding materials. 2013 , 74, 211-232	743
2083	Electrical and mechanical properties of PMMA/reduced graphene oxide nanocomposites prepared via in situ polymerization. 2013 , 48, 6223-6232	124
2082	A versatile chemical tool for the preparation of conductive graphene-based polymer nanocomposites. 2013 , 49, 8967-9	30
2081	Processing and assessment of high-performance poly(butylene terephthalate) nanocomposites reinforced with microwave exfoliated graphite oxide nanosheets. 2013 , 49, 1406-1423	41
2080	Increased optical nonlinearities of graphene nanohybrids covalently functionalized by axially-coordinated porphyrins. 2013 , 53, 327-338	94
2079	The conductive network made up by the reduced graphene nanosheet/polyaniline/polyvinyl chloride. 2013 , 128, 3870-3875	30
2078	Room temperature ionic liquids for epoxy nanocomposite synthesis: Direct dispersion and cure. 2013 , 86, 38-44	37

(2013-2013)

2077	properties of their nanocomposites. 2013 , 49, 2627-2634	49
2076	Efficient reduction of graphene oxide using Tin-powder and its electrochemical performances for use as an energy storage electrode material. 2013 , 1, 11320	15
2075	Polymer reinforcement using liquid-exfoliated boron nitride nanosheets. 2013 , 5, 581-7	156
2074	ATNRC/SET-NRC synthesis of graphene/polyisobutylene nanocomposites. 2013 , 51, 4505-4514	13
2073	Market Uptake Potential of Graphene as a Disruptive Material. 2013 , 101, 1793-1800	12
2072	Synthesis of PVDF-graphene nanocomposites and their properties. 2013 , 581, 724-730	134
2071	Significantly enhanced water flux in forward osmosis desalination with polymer-graphene composite hydrogels as a draw agent. 2013 , 3, 887-894	85
2070	Fabrication of Spirocyclic Phosphazene Epoxy-Based Nanocomposites with Graphene via Exfoliation of Graphite Platelets and Thermal Curing for Enhancement of Mechanical and Conductive Properties. 2013 , 52, 10160-10171	80
2069	Polyimide nanocomposites based on functionalized graphene sheets: Morphologies, thermal properties, and electrical and thermal conductivities. 2013 , 24, 6-14	29
2068	Glass transition improvement in epoxy/graphene composites. 2013, 48, 7883-7892	40
2067	Effects of interfacial interaction on chain dynamics of rubber/graphene oxide hybrids: a dielectric relaxation spectroscopy study. 2013 , 3, 14549	45
2066	In situ processing of epoxy composites reinforced with graphene nanoplatelets. 2013, 86, 185-191	90
2065	A Technique To Pretreat Graphite Which Allows the Rapid Dispersion of Defect-Free Graphene in Solvents at High Concentration. 2013 , 117, 19212-19218	46
2064	Low percolation threshold of graphene/polymer composites prepared by solvothermal reduction of graphene oxide in the polymer solution. 2013 , 8, 132	88
2063	Electrostatic adsorption method for preparing electrically conducting ultrahigh molecular weight polyethylene/graphene nanosheets composites with a segregated network. 2013 , 89, 180-185	48
2062	Surface Modification of Graphene. 2013 , 35-86	2
2061	Preparation and characterization of covalently functionalized graphene using vinyl-terminated benzoxazine monomer and associated nanocomposites with low coefficient of thermal expansion. 2013 , 62, 966-973	25
2060	Drying-induced reduction in electrical resistivity of carbon black-polyamideimide nanocomposite films. 2013 , 70, 17-20	1

2059	Dielectric, electrical, and rheological characterization of graphene-filled polystyrene nanocomposites. 2013 , 34, 2082-2093	31
2058	High performance graphene oxide based rubber composites. 2013 , 3, 2508	116
2057	Synthesis of conducting graphene/Si3N4 composites by spark plasma sintering. 2013 , 57, 425-432	72
2056	Enhanced mechanical and gas barrier properties of rubber nanocomposites with surface functionalized graphene oxide at low content. 2013 , 54, 1930-1937	181
2055	Polyurethane composites in situ molecularly reinforced by supramolecular nanofibrillar aggregates of sorbitol derivatives. 2013 , 79, 58-63	15
2054	Graphene/polypyrrole intercalating nanocomposites as supercapacitors electrode. 2013 , 112, 44-52	193
2053	Effect of strain on gap discrete breathers at the edge of armchair graphene nanoribbons. 2013 , 102, 60004	50
2052	Chemical bonding-induced low dielectric loss and low conductivity in high-K poly(vinylidenefluoride-trifluorethylene)/graphene nanosheets nanocomposites. 2013 , 5, 9411-20	65
2051	Synthesis, catalytic activity and phytotoxicity of a supported nickel(II) Schiff base complex. 2013 , 38, 855-864	2
2050	Effect of Click-Chemistry Approaches for Graphene Modification on the Electrical, Thermal, and Mechanical Properties of Polyethylene/Graphene Nanocomposites. 2013 , 46, 8980-8987	81
2049	A new route toward graphene nanosheet/polyaniline composites using a reactive surfactant as polyaniline precursor. 2013 , 184, 52-60	20
2048	Enhanced conductivity and thermal stability of conductive polyaniline/graphene composite synthesized by in situ chemical oxidation polymerization with sodium dodecyl sulfate. 2013 , 184, 29-34	38
2047	Dry Synthesis of Easily Tunable Nano Ruthenium Supported on Graphene: Novel Nanocatalysts for Aerial Oxidation of Alcohols and Transfer Hydrogenation of Ketones. 2013 , 117, 23582-23596	83
2046	Transparent graphene films with a tunable piezoresistive response. 2013 , 1, 7208	11
2045	Effects of reduction temperature on the optoelectronic properties of diodes based on n-type Si and reduced graphene oxide doped with a conductive polymer. 2013 , 28, 065008	3
2044	Simultaneous enhancement of mechanical, electrical and thermal properties of graphene oxide paper by embedding dopamine. 2013 , 65, 296-304	152
2043	Preparation and characterization of graphite nano-platelet (GNP)/epoxy nano-composite: Mechanical, electrical and thermal properties. 2013 , 49, 3878-3888	218
2042	Preparation and characterization of silk sericin/glycerol/graphene oxide nanocomposite film. 2013 , 14, 2111-2116	28

'	Surface properties of graphene oxide reinforced polyvinyl chloride nanocomposites. 2013 , 20, 1	73
2040	Graphene-based nanocomposites: preparation, functionalization, and energy and environmental applications. 2013 , 6, 3483	422
2039	Direct observation of quantum-confined graphene-like states and novel hybrid states in graphene oxide by transient spectroscopy. 2013 , 25, 6539-45	62
2038	One-step potentiodynamic synthesis of poly(1,5-diaminoanthraquinone)/reduced graphene oxide nanohybrid with improved electrocatalytic activity. 2013 , 1, 13902	47
2037	Improvement of the mechanical properties and thermal conductivity of poly(ether-ether-ketone) with the addition of graphene oxide-carbon nanotube hybrid fillers. 2013 , 55, 195-202	64
2036	Graphene nanosheets generated from sulfonated polystyrene/graphene nanocomposite. 2013 , 87, 94-102	21
2035	Lyotropic Liquid Crystal of Polyacrylonitrile-Grafted Graphene Oxide and Its Assembled Continuous Strong Nacre-Mimetic Fibers. 2013 , 46, 6931-6941	101
2034	Fabrication of graphene/polylactide nanocomposites with improved properties. 2013, 88, 33-38	48
2033	Bio-inspired polyelectrolyte complex/graphene oxide nanocomposite membranes with enhanced tensile strength and ultra-low gas permeability. 2013 , 4, 4298	27
2032	Wood plastic composite using graphene nanoplatelets. 2013 , 58, 1-6	56
		<i>)</i> =
2031	Low frequency dielectric response of multilayer graphene/epoxy nanocomposites. 2013,	0
2031		
	Low frequency dielectric response of multilayer graphene/epoxy nanocomposites. 2013, Understanding the relationship of performance with nanofiller content in the biomimetic layered	0
2030	Low frequency dielectric response of multilayer graphene/epoxy nanocomposites. 2013, Understanding the relationship of performance with nanofiller content in the biomimetic layered nanocomposites. 2013, 5, 6356-62 A graphene oxidepolyvinylidene fluoride mixture as a precursor for fabricating thermally reduced	0 80
2030	Low frequency dielectric response of multilayer graphene/epoxy nanocomposites. 2013, Understanding the relationship of performance with nanofiller content in the biomimetic layered nanocomposites. 2013, 5, 6356-62 A graphene oxidepolyvinylidene fluoride mixture as a precursor for fabricating thermally reduced graphene oxidepolyvinylidene fluoride composites. 2013, 3, 22981	o 80 19
2030	Low frequency dielectric response of multilayer graphene/epoxy nanocomposites. 2013, Understanding the relationship of performance with nanofiller content in the biomimetic layered nanocomposites. 2013, 5, 6356-62 A graphene oxideBolyvinylidene fluoride mixture as a precursor for fabricating thermally reduced graphene oxideBolyvinylidene fluoride composites. 2013, 3, 22981 The piezoresistive effect in graphene-based polymeric composites. 2013, 24, 465702 Hierarchical nanocomposites of polyaniline nanowire arrays on reduced graphene oxide sheets for	0 80 19 38
2030 2029 2028 2027	Low frequency dielectric response of multilayer graphene/epoxy nanocomposites. 2013, Understanding the relationship of performance with nanofiller content in the biomimetic layered nanocomposites. 2013, 5, 6356-62 A graphene oxidepolyvinylidene fluoride mixture as a precursor for fabricating thermally reduced graphene oxidepolyvinylidene fluoride composites. 2013, 3, 22981 The piezoresistive effect in graphene-based polymeric composites. 2013, 24, 465702 Hierarchical nanocomposites of polyaniline nanowire arrays on reduced graphene oxide sheets for supercapacitors. 2013, 3, 3568 Resolving the dilemma of gaining conductivity but losing environmental friendliness in producing	0 80 19 38 219

2023	Partially reduced graphene oxide as a multi-functional sizing agent for carbon fiber composites by electrophoretic deposition. 2013 , 3, 25609	63
2022	Reinforcement of metal with liquid-exfoliated inorganic nano-platelets. 2013 , 103, 163106	11
2021	A new method for fabrication of graphene/polyaniline nanocomplex modified microbial fuel cell anodes. 2013 , 224, 139-144	231
2020	Functionalized graphene nanoplatelets for enhanced mechanical and thermal properties of polyurethane nanocomposites. 2013 , 266, 360-367	229
2019	Graphene and its derivatives for cell biotechnology. 2013 , 138, 72-86	40
2018	Graphene-based anticancer nanosystem and its biosafety evaluation using a zebrafish model. 2013 , 14, 358-66	49
2017	Thermoelectric properties of graphene nanosheets-modified polyaniline hybrid nanocomposites by an in situ chemical polymerization. 2013 , 138, 238-244	102
2016	Improving the mechanical properties of graphene oxide based materials by covalent attachment of polymer chains. 2013 , 52, 363-371	211
2015	Recent advances in the efficient reduction of graphene oxide and its application as energy storage electrode materials. 2013 , 5, 52-71	392
2014	Simultaneous reduction, functionalization and stitching of graphene oxide with ethylenediamine for composites application. 2013 , 1, 1349-1358	178
2013	Graphene-reinforced epoxy resin with enhanced atomic oxygen erosion resistance. 2013 , 48, 2416-2423	26
2012	Electrochemical synthesis of layer-by-layer reduced graphene oxide sheets/polyaniline nanofibers composite and its electrochemical performance. 2013 , 91, 185-194	128
2011	Graphene/polymer composites for energy applications. 2013 , 51, 231-253	199
2010	Preparation and characterization of the graphenellarbon nanotube/CoFe2O4/polyaniline composite with reticular branch structures. 2013 , 142, 395-402	19
2009	Electrostatically assembled layer-by-layer composites containing graphene oxide for enhanced hydrogen gas barrier application. 2013 , 89, 167-174	45
2008	A Comprehensive Review of Graphene Nanocomposites: Research Status and Trends. 2013 , 2013, 1-14	151
2007	Strong and conductive reduced graphene oxide/polyester resin composite films with improved mechanical strength, thermal stability and its antibacterial activity. 2013 , 87, 1-7	89
2006	Self-stratifying and orientation of exfoliated few-layer graphene nanoplatelets in epoxy composites. 2013 , 85, 136-141	26

(2013-2013)

2005	Hydrothermally resistant thermally reduced graphene oxide and multi-wall carbon nanotube based epoxy nanocomposites. 2013 , 98, 519-526	89
2004	Synthesis and characterization of polymer grafted graphene oxide sheets using a Ce(IV)/HNO3 redox system in an aqueous solution. 2013 , 53, 269-276	47
2003	Fabrication of microwave exfoliated graphite oxide reinforced thermoplastic polyurethane nanocomposites: Effects of filler on morphology, mechanical, thermal and conductive properties. 2013 , 47, 72-82	71
2002	Preparation and Properties of Organically Modified Montmorillonite/Nitrile Rubber Nanocomposites. 2013 , 52, 561-573	4
2001	Alginate-graphene oxide hybrid gel beads: an efficient copper adsorbent material. 2013, 397, 32-8	143
2000	A novel approach to composite preparation by direct synthesis of carbon nanomaterial on matrix or filler particles. 2013 , 61, 1862-1871	75
1999	Nanocomposites based on polyurethanes and carbon nanoparticles: preparation, properties and application. 2013 , 1, 6509	47
1998	Piezoresistive behavior and multi-directional strain sensing ability of carbon nanotubegraphene nanoplatelet hybrid sheets. 2013 , 22, 015013	44
1997	Graphenellickel composites. 2013 , 273, 484-490	178
1996	Influence of processing on fracture toughness of Si3N4 + graphene platelet composites. 2013 , 33, 2299-2304	38
1995	Dynamic behavior of crosslinked amphiphilic block copolymer nanofibers dispersed in liquid poly(ethylene oxide) below and above their glass transition temperature. 2013 , 9, 2197	23
1994	Effects of various surfactants on the dispersion stability and electrical conductivity of surface modified graphene. 2013 , 562, 134-142	72
1993	Covalently bonded interfaces for polymer/graphene composites. 2013 , 1, 4255	150
1992	In situ polymerization and mechanical, thermal properties of polyurethane/graphene oxide/epoxy nanocomposites. 2013 , 47, 850-856	131
1991	Effect of the melt processing conditions on the conductive paths formation in thermoplastic polyurethane/expanded graphite (TPU/EG) composites. 2013 , 80, 39-46	27
1990	Facile synergetic dispersion approach for magnetic Fe3O4@graphene oxide/polystyrene tri-component nanocomposite via radical bulk polymerization. 2013 , 219, 10-18	14
1989	A green and efficient method to produce graphene for electrochemical capacitors from graphene oxide using sodium carbonate as a reducing agent. 2013 , 268, 541-546	81
1988	Predictive models for mixed-matrix membrane performance: a review. 2013 , 113, 4980-5028	363

1987	Influence of synthesis conditions on properties of green-reduced graphene oxide. 2013, 15, 1		28
1986	Thermally conductive and electrically insulating epoxy nanocomposites with thermally reduced graphene oxide-silica hybrid nanosheets. 2013 , 5, 5863-71		185
1985	Graphene-based materials: fabrication, characterization and application for the decontamination of wastewater and wastegas and hydrogen storage/generation. 2013 , 195-196, 19-40		265
1984	Improved adhesive strength and toughness of polyvinyl acetate glue on addition of small quantities of graphene. 2013 , 5, 1423-8		91
1983	Electrochemical reduction of graphene oxide films in aqueous and organic solutions. 2013, 89, 84-89		99
1982	Chemical modification of graphene oxide with carbethoxycarbene under microwave irradiation. 2013 , 556, 376-379		26
1981	Architecture, self-assembly and properties of well-defined hybrid polymers based on polyhedral oligomeric silsequioxane (POSS). <i>Progress in Polymer Science</i> , 2013 , 38, 1121-1162	29.6	300
1980	Cure kinetics and chemorheology of EPDM/graphene oxide nanocomposites. 2013 , 563, 22-32		46
1979	Functionalized grapheneBaTiO3/ferroelectric polymer nanodielectric composites with high permittivity, low dielectric loss, and low percolation threshold. 2013 , 1, 6162		163
1978	Strong and conductive polybenzimidazole composites with high graphene contents. 2013 , 3, 12255		16
1977	Production of High-Concentration Graphene Dispersions in Low-Boiling-Point Organic Solvents by Liquid-Phase Noncovalent Exfoliation of Graphite with a Hyperbranched Polyethylene and Formation of Graphene/Ethylene Copolymer Composites. 2013 , 117, 10730-10742		105
1976	Electrochemical Sensor Based on the Graphene-Nafion Matrix for Sensitive Determination of Organophosphorus Pesticides. 2013 , 46, 131-141		33
1975	Adsorbent for hydroquinone removal based on graphene oxide functionalized with magnetic cyclodextrin-chitosan. 2013 , 58, 169-75		84
1974	The possibility of obtaining graphene/polymer composites from graphene oxide by a one step process. 2013 , 80, 87-92		13
1973	Two-Dimensional Nanocrystals: Structure, Properties and Applications. 2013, 38, 1289-1304		6
1972	Preparation of polyaniline/reduced graphene oxide nanocomposite and its application in adsorption of aqueous Hg(II). 2013 , 229, 460-468		140
1971	Vulcanization kinetics of graphene/natural rubber nanocomposites. 2013 , 54, 3314-3323		140
1970	Direct covalent modification of thermally exfoliated graphene forming functionalized graphene stably dispersible in water and poly(vinyl alcohol). 2013 , 291, 2365-2374		17

(2013-2013)

1969	Opportunities and challenges in the use of inorganic fullerene-like nanoparticles to produce advanced polymer nanocomposites. <i>Progress in Polymer Science</i> , 2013 , 38, 1163-1231	.6	136
1968	Dielectric properties of reduced graphene oxide/polypropylene composites with ultralow percolation threshold. 2013 , 54, 1916-1922		175
1967	Halloysite clay nanotubes as a ceramic "skeleton" for functional biopolymer composites with sustained drug release. 2013 , 1, 2894-2903		174
1966	Effects of graphene and carbon nanotube fillers on the shear properties of epoxy. 2013 , 51, 997-1006		10
1965	Thermal transport in bent graphene nanoribbons. 2013 , 5, 734-43		38
1964	Crosslinked acetylacetonated poly(vinyl alcohol-co-vinyl acetate) nanocomposites with graphene oxide and reduced graphene oxide: a new way to modify the property of nanocomposites. 2013 , 3, 8372		11
1963	Graphene-based materials biocompatibility: a review. 2013 , 111, 188-202		396
1962	Effect of graphene oxide concentration on the morphologies and antifouling properties of PVDF ultrafiltration membranes. 2013 , 1, 349-354		227
1961	Chemical modification of graphene with a thermotropic liquid crystalline polymer and its reinforcement effect in the polymer matrix. 2013 , 4, 2598		13
1960	Investigation of thermal conductivity of graphite flake/poly (p-phenylene sulfide) composite by experimental measurement and non-equilibrium molecular dynamics simulation. 2013 , 54, 4702-4709		21
1959	PolymerIhorganic supramolecular nanohybrids for red, white, green, and blue applications. Progress in Polymer Science, 2013 , 38, 1442-1486	.6	94
1958	Developing polymer composite materials: carbon nanotubes or graphene?. 2013 , 25, 5153-76		323
1957	Graphenelbnic liquid electrolytes for dye sensitised solar cells. 2013 , 1, 8379		40
1956	Progress in the electrochemical modification of graphene-based materials and their applications. 2013 , 107, 425-440		96
1955	Electrical Properties and Electromagnetic Interference Shielding Response of Electrically Conducting Thermosetting Nanocomposites. 2013 , 211-237		31
1954	A review on synthesis and properties of polymer functionalized graphene. 2013 , 54, 5087-5103		380
1953	Grafting of copolymers onto graphene by miniemulsion polymerization for conductive polymer composites: improved electrical conductivity and compatibility induced by interfacial distribution of graphene. 2013 , 4, 2939		84
1952	Functionalization of graphene using trimethoxysilanes and its reinforcement on polypropylene nanocomposites. 2013 , 570, 125-131		52

1951	Covalent electron transfer chemistry of graphene with diazonium salts. 2013 , 46, 160-70	231
1950	Non-isothermal crystallization kinetics of poly (lactic acid)/graphene nanocomposites. 2013 , 33, 163-171	20
1949	Solution-processable graphene quantum dots. 2013 , 14, 2627-40	29
1948	The effect of graphene dispersion on the mechanical properties of graphene/epoxy composites. 2013 , 60, 16-27	774
1947	Fundamental size dependent natural frequencies of non-uniform orthotropic nano scaled plates using nonlocal variational principle and finite element method. 2013 , 37, 7047-7061	21
1946	Reinforcement of acrylonitrile butadiene rubber using pristine few layer graphene and its hybrid fillers. 2013 , 61, 476-486	70
1945	Crystallization behavior, thermal and mechanical properties of PHBV/graphene nanosheet composites. 2013 , 31, 670-678	35
1944	Enhancing graphene reinforcing potential in composites by hydrogen passivation induced dispersion. 2013 , 3, 2086	79
1943	Improved dispersion and interface in the graphene/epoxy composites via a facile surfactant-assisted process. 2013 , 82, 60-68	251
1942	Improved removal of lead(II) from water using a polymer-based graphene oxide nanocomposite. 2013 , 1, 3789	162
1941	A graphene/Co3O4 nanocomposite as a new adsorbent for solid phase extraction of Pb(II), Cu(II) and Fe(III) ions in various samples. 2013 , 3, 24650	45
1940	Noncovalent Method for Improving the Interaction between Reduced Graphene Oxide and Poly(Etaprolactone). 2013 , 52, 15824-15828	21
1939	Effects of Carbon Nanoreinforcements of Different Shapes on the Mechanical Properties of Epoxy-Based Nanocomposites. 2013 , 298, 670-678	43
1938	Different filler effect of carbon nanotube and graphene nanoplatelet in the poly(arylene ether nitrile) matrix. 2013 , 62, 629-637	7
1937	Synthesis of polystyrene nanoparticles Irmoured with nanodimensional graphene oxide sheets by miniemulsion polymerization. 2013 , 51, 47-58	68
1936	Highly Conductive Nanocomposites with Three-Dimensional, Compactly Interconnected Graphene Networks via a Self-Assembly Process. 2013 , 23, 506-513	180
1935	In situ preparation of transparent polyimide nanocomposite with a small load of graphene oxide. 2013 , 128, 3163-3169	17

1933	Compatibility of Functionalized Graphene with Polyethylene and Its Copolymers. 2013 , 2013, 1-8	14
1932	PANI and graphene/PANI nanocomposite filmscomparative toluene gas sensing behavior. 2013 , 13, 16611-24	55
1931	Advances in Synthesis and Properties of Poly(Ecaprolactone)/Carbon Nanocomposites. 2013, 320, 441-445	
1930	Progress in Imidazolium Ionic Liquids Assisted Fabrication of Carbon Nanotube and Graphene Polymer Composites. 2013 , 5, 847-872	72
1929	Electrochemically Preparation of Functionalized Graphene Using Sodium Dodecyl Benzene Sulfonate (SDBS). 2013 , 747, 246-249	8
1928	Multifunctional nanocomposite foams based on polypropylene with carbon nanofillers. 2013 , 49, 259-279	38
1927	Toughening of polymers by graphene. 2013 , 2, 265-278	29
1926	Ionic Liquid Assisted Dispersion of Reduced Graphene Oxide in Epoxy Composites with Improved Mechanical Properties. 2013 , 738, 56-60	3
1925	Graphene/elastomer composite-based photo-thermal nanopositioners. 2013, 3, 1900	79
1924	Surface force arising from adsorbed graphene oxide in alumina suspensions with different shape and size. 2013 , 59, 3633-3641	9
1923	Reactive graphene oxide nanosheets: a versatile platform for the fabrication of graphene oxide-biomolecule/polymer nanohybrids. 2013 , 34, 234-8	22
1922	Hybrid diodes based on n-type Ge and conductive polymer doped by graphene oxide sheets with and without reduction treatment. 2013 , 113, 064502	7
1921	Enhancement in performance of polycarbazole-graphene nanocomposite Schottky diode. 2013 , 3, 122120	34
1920	Toughened and machinable glass matrix composites reinforced with graphene and graphene-oxide nano platelets. 2013 , 14, 055007	41
1919	Graphene/poly(styrene-b-isoprene-b-styrene) nanocomposite optical actuators. 2013, 130, n/a-n/a	7
1918	Fabrication and Characterization of Graphene/Polyimide Nanocomposites. 2013, 785-786, 138-144	
1917	Photomechanical Characteristics of Thermally Reduced Graphene Oxide iPolydimethylsiloxane Nanocomposites. 2013 , 52, 1604-1610	15
1916	Effect of dispersion method and process variables on the properties of supercritical CO2 foamed polystyrene/graphite nanocomposite foam. 2013 , 53, 2061-2072	20

1915	Functional and mechanical properties of acrylate elastomer/expanded graphite nanocomposites. 2013 , 130, 680-686	10
1914	Surface Functionalization of Graphene with Polymers for Enhanced Properties. 2013,	17
1913	The Properties and Application of Carbon Nanostructures. 2013,	7
1912	Functionalization of Graphene Oxide for the Production of Novel Graphene-Based Polymeric and Colloidal Materials. 2013 , 17, 956-974	24
1911	Development of Fe-B Based Bulk Metallic Glasses: Morphology of Residual Phases in Fe50Ni16Mo6B18Zr10 Glass. 2013 , 3, 159-177	3
1910	Effect of Graphite and Carbon Black Fillers on the Processability, Electrical Conductivity and Mechanical Properties of Polypropylene-Based Bipolar Plates. 2013 , 21, 93-100	17
1909	Ultrasensitive Detection of Ferulic Acid Using Poly(diallyldimethylammonium chloride) Functionalized Graphene-Based Electrochemical Sensor. 2014 , 2014, 424790	4
1908	. 2014,	8
1907	Non-linear Viscoelastic Behaviour of Rubber-Rubber Blend Composites and Nanocomposites: Effect of Spherical, Layered and Tubular Fillers. 2014 , 85-134	4
1906	Phyto-reduction of graphene oxide using the aqueous extract of Eichhornia crassipes (Mart.) Solms. 2014 , 4, 103-108	19
1905	Low-temperature baroplastic processing of graphene-based polymer composites by pressure-induced flow. 2014 , 62, 012023	
1904	In Situ Preparation of Conducting Polymer Nanocomposites. 2014 , 211-240	
1903	Masterbatch Approach to Generate HDPE/CPE/Graphene Nanocomposites. 2014, 31-50	
1902	Competition between plastic deformation and fracture processes in metalgraphene layered composites. 2014 , 47, 495302	12
1901	A Sensitive Voltammetric Sensor Based on Synergistic Effect of Polyaniline and Zirconia Nanocomposite Film for Quantification of Proton Pump Inhibitor Esomeprazole. 2014 , 161, B39-B44	15
1900	Graphene and its Nanocomposites for Gas Sensing Applications. 2014 , 467-500	3
1899	Epoxy Adhesives Modified with Graphene for Thermal Interface Materials. 2014 , 90, 835-847	20
1898	Role of surfactant molecular weight on morphology and properties of functionalized graphite oxide filled polypropylene nanocomposites. 2014 , 8, 881-894	8

1897	Poly(lactic acid)/Poly(ethylene glycol) Polymer Nanocomposites: Effects of Graphene Nanoplatelets. 2014 , 6, 93-104	262
1896	Hybrid Carbon/Epoxy Composites with Interlocking Properties: The Graphene Nanostructure Morphology Investigation. 2014 ,	
1895	Microwave Irradiation Effect on the Dispersion and Thermal Stability of RGO Nanosheets within a Polystyrene Matrix. 2014 , 7, 5212-5224	31
1894	The Problem of Scale in Electric Metrology of Nanostructures in the Context of the New SI Redefinition of the Base Electric Unit. 2014 , 125, 3-12	
1893	Radiation-chemically modified PP/CNT composites. 2014 , 14, 259-265	2
1892	Modification of Expandable Graphite and Adsorption for Methyl Orange. 2014 , 618, 81-85	1
1891	The effect of varying carboxylic-group content in reduced graphene oxides on the anticorrosive properties of PMMA/reduced graphene oxide composites. 2014 , 8, 908-919	35
1890	Low pressure RF plasma modification of the surface of three different nano-carbon materials. 2014 , 13,	3
1889	Thermal stability of standalone silicene sheet. 2014 , 491, 012008	11
1888	Rational Design of Graphene Surface Chemistry for High-Performance Rubber/Graphene Composites. 2014 , 47, 8663-8673	136
1887	Multifunctional polymer nanocomposites with uniaxially aligned liquid crystal polymer fibrils and graphene nanoplatelets. 2014 , 104, 081904	13
1886	Improved rheological and electrical properties of graphene/polystyrene nanocomposites modified with styrene maleic anhydride copolymer. 2014 , 102, 176-182	21
1885	Adsorption of Eu(III) on defective magnetic FeNi/RGO composites: effect of pH, ion strength, ions and humic acid. 2014 , 303, 2211	1
1884	Probing Molecular Mobility in Nanostructured Composites by Heteronuclear Dipolar NMR Spectroscopy. 2014 , 118, 28308-28313	4
1883		
	Hydrogen storage on graphene using Benkeser reaction. 2014 , 38, 1889-1895	23
1882	Hydrogen storage on graphene using Benkeser reaction. 2014 , 38, 1889-1895 Effect of modified graphene and microwave irradiation on the mechanical and thermal properties of poly(styrene-co-methyl methacrylate)/graphene nanocomposites. 2014 , 46, 630-639	13
	Effect of modified graphene and microwave irradiation on the mechanical and thermal properties	

1879	Judicious selection of bifunctional molecules to chemically modify graphene for improving nanomechanical and thermal properties of polymer composites. 2014 , 2, 20038-20047	33
1878	Reversible Graphene Functionalization for Electronic Applications: A Review. 2014 , 41-54	3
1877	Carbon-Polymer Composite Bipolar Plate for HT-PEMFC. 2014 , 14, 259-265	9
1876	Comparison and Characterization of Two Preparation Methods of Graphene Oxide. 2014 , 989-994, 125-129	
1875	Fabrication of the self-reinforced composites using co-extrusion technique. 2014 , 131, n/a-n/a	11
1874	Carbon-Based Nanomaterials for Drugs Sensing: A Review. 2014 , 807, 13-39	2
1873	Shear- and Temperature-Induced Graphene Network Evolution in Graphene/Polystyrene Nanocomposites and Its Influence on Rheological, Electrical, and Morphological Properties. 2014 , 47, 8784-8794	17
1872	Effect of Covalent-Functionalized Graphene Oxide with Polymer and Reactive Compatibilization on Thermal Properties of Maleic Anhydride Grafted Polypropylene. 2014 , 53, 19951-19960	33
1871	In vivo skeletal muscle biocompatibility of composite, coaxial electrospun, and microfibrous scaffolds. 2014 , 20, 1961-70	26
1870	UV-cured epoxy/graphene nanocomposite films: preparation, structure and electric heating performance. 2014 , 63, 1895-1901	15
1869	Immobilization of glucose oxidase on graphene and cobalt phthalocyanine composite and its application for the determination of glucose. 2014 , 66, 60-6	45
1868	Development of an Equation to Model Electrical Conductivity of Polymer-Based Carbon Nanocomposites. 2014 , 3, M26-M38	49
1867	Effects of reduced graphene on crystallization behavior, thermal conductivity and tribological properties of poly(vinylidene fluoride). 2014 , 48, 659-666	21
1866	Nonisothermal Crystallization Kinetics of Poly(m-xylylene adipamide). 2014 , 971-973, 103-106	
1865	Liquid Crystalline Graphene Oxide/PEDOT:PSS Self-Assembled 3D Architecture for Binder-Free Supercapacitor Electrodes. 2014 , 2,	36
1864	Effects of Graphene Nanopletelets on Poly(Lactic Acid)/Poly(Ethylene Glycol) Polymer Nanocomposites. 2014 , 1024, 136-139	15
1863	Graphene reinforced ultra high molecular weight polyethylene with improved tensile strength and creep resistance properties. 2014 , 8, 74-84	52
1862	Synergistic effect of three-dimensional multi-walled carbon nanotube@graphene nanofiller in enhancing the mechanical and thermal properties of high-performance silicone rubber. 2014 , 63, 1219-1228	88

1861	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
1860	Poly(N,N-dimethylaminoethyl methacrylate)/graphene oxide hybrid hydrogels: pH and temperature sensitivities and Cr(VI) adsorption. 2014 , 81, 8-13	21
1859	Combination of fumed silica with carbon black for simultaneously improving the thermal stability, flame retardancy and mechanical properties of polyethylene. 2014 , 55, 2998-3007	33
1858	Poly(ortho-aminophenol)/graphene nanocomposite as an efficient supercapacitor electrode. 2014 , 713, 103-111	23
1857	Low-dimensional carbonaceous nanofiller induced polymer crystallization. <i>Progress in Polymer Science</i> , 2014 , 39, 555-593	124
1856	Progress on the morphological control of conductive network in conductive polymer composites and the use as electroactive multifunctional materials. <i>Progress in Polymer Science</i> , 2014 , 39, 627-655	460
1855	Evolution from graphite to graphene elastomer composites. <i>Progress in Polymer Science</i> , 2014 , 39, 749-7 89 .6	272
1854	Intercalation strategies in clay/polymer hybrids. <i>Progress in Polymer Science</i> , 2014 , 39, 443-485 29.6	210
1853	PE/Chlorinated-PE Blends and PE/Chlorinated-PE/Graphene Oxide Nanocomposites: Morphology, Phase Miscibility, and Interfacial Interactions. 2014 , 215, 255-268	15
1852	Thermal performance of poly(ethylene disulfide)/expanded graphite nanocomposites. 2014 , 117, 525-535	28
1851	Preparation and physico-mechanical properties of amine-functionalized graphene/polyamide 6 nanocomposite fiber as a high performance material. 2014 , 4, 4848	53
1850	Graphene-polymer nanocomposites for structural and functional applications. <i>Progress in Polymer Science</i> , 2014 , 39, 1934-1972	809
1849	Finite element buckling analysis of multi-layered graphene sheets on elastic substrate based on nonlocal elasticity theory. 2014 , 38, 5934-5955	56
1848	Improved charging/discharging behavior of electropolymerized nanostructured composite films of polyaniline and electrochemically reduced graphene oxide. 2014 , 69, 122-131	45
1847	Graphene and graphene-like layered transition metal dichalcogenides in energy conversion and storage. 2014 , 10, 2165-81	479
1846	In situ chemical reduction and functionalization of graphene oxide for electrically conductive phenol formaldehyde composites. 2014 , 68, 653-661	83
1845	Recent advances in the use of graphene-family nanoadsorbents for removal of toxic pollutants from wastewater. 2014 , 204, 35-56	367
1844	Superior piezoelectric composite films: taking advantage of carbon nanomaterials. 2014 , 25, 045501	11

1843	Synthesis and properties of iodo functionalized graphene oxide/polyimide nanocomposites. 2014 , 56, 365-371	92
1842	A review of innovations in disbonding techniques for repair and recycling of automotive vehicles. 2014 , 50, 119-127	62
1841	Functional Polymer Nanocomposites with Graphene: A Review. 2014 , 299, 906-931	108
1840	Enhancing the mechanical properties of BN nanosheet-polymer composites by uniaxial drawing. 2014 , 6, 4889-95	70
1839	Electrochemical corrosion resistance performance of sustainable resource-based nanoconducting polymer composites in alkaline medium. 2014 , 18, 1855-1867	9
1838	Highly enhanced mechanical properties in Cu matrix composites reinforced with graphene decorated metallic nanoparticles. 2014 , 49, 3725-3731	98
1837	Mechanical and thermal properties of epoxy composites containing graphene oxide and liquid crystalline epoxy. 2014 , 15, 326-333	52
1836	Conducting polymer and reduced graphene oxide Langmuir B lodgett films: a hybrid nanostructure for high performance electrode applications. 2014 , 25, 1063-1071	20
1835	Graphene's cousin: the present and future of graphane. 2014 , 9, 26	55
1834	The reinforcement effect of exfoliated graphene oxide nanoplatelets on the mechanical and viscoelastic properties of natural rubber. 2014 , 95, 59-66	49
1833	Polymere: Synthese, Eigenschaften und Anwendungen. 2014 ,	29
1832	Virtual testing of advanced composites, cellular materials and biomaterials: A review. 2014 , 60, 637-662	53
1831	AFM-based model of percolation in graphene-based polymer nanocomposites. 2014 , 95, 38-43	13
1830	Nanocomposite hydrogels for biomedical applications. 2014 , 111, 441-53	723
1829	Nanotribological behavior of graphene nanoplatelet reinforced ultra high molecular weight polyethylene composites. 2014 , 70, 165-169	79
1828	25th anniversary article: Chemically modified/doped carbon nanotubes & graphene for optimized nanostructures & nanodevices. 2014 , 26, 40-66	432
1827	Trace and ultratrace determination of heavy metal ions by energy-dispersive X-ray fluorescence spectrometry using graphene as solid sorbent in dispersive micro solid-phase extraction. 2014 , 94-95, 7-13	48
1826	Physical and mechanical properties of graphene oxide/polyethersulfone nanocomposites. 2014 , 25, 322-328	33

1825	Covalently functionalized graphene sheets with biocompatible natural amino acids. 2014 , 307, 533-542	132
1824	Effects of graphene nanoplatelets and graphene nanosheets on fracture toughness of epoxy nanocomposites. 2014 , 37, 1116-1123	72
1823	Graphene-based polyaniline nanocomposites: preparation, properties and applications. 2014 , 2, 4491-4509	190
1822	Enhanced thermal conductivity in polymer composites with aligned graphene nanosheets. 2014 , 49, 5256-526	54 ₁₂₂
1821	Alumina-coated graphene nanosheet and its composite of acrylic rubber. 2014 , 416, 38-43	29
1820	From clay to graphene for polymer nanocomposites survey. 2014 , 21, 1	45
1819	Flexural fatigue behaviour of carbon nanofiber/epoxy nanocomposites. 2014 , 37, 553-560	4
1818	Addition of Organic Groups through Reactions with Oxygen Species of Graphene Oxide. 2014 , 59-94	1
1817	Chemical Functionalization of Graphene for Biomedical Applications. 2014 , 95-138	8
1816	Graphene. 2014 , 1-32	2
1815	Reinforcing epoxy resin through covalent integration of functionalized graphene nanosheets. 2014 , 25, 418-423	33
1814	Graphene nanoplatelets thickness and lateral size influence on the morphology and behavior of epoxy composites. 2014 , 53, 292-301	63
1813	Graphene synthesis. 2014 , 46, 25-34	147
1812	Sandwich beam model for free vibration analysis of bilayer graphene nanoribbons with interlayer shear effect. 2014 , 115, 174303	18
1811	Improved thermal conductivity of graphene encapsulated poly(methyl methacrylate) nanocomposite adhesives with low loading amount of graphene. 2014 , 94, 147-154	10
1810	Molecular dynamics simulation of mechanical performance of graphene/graphene oxide paper based polymer composites. 2014 , 67, 784-791	48
1809	A study of graphene oxide-reinforced rubber nanocomposite. 2014 , 131, n/a-n/a	45

1807	Grafting of polymers onto graphene oxide by trapping of polymer radicals and ligand-exchange reaction of polymers bearing ferrocene moieties. 2014 , 441, 474-480	17
1806	Enhancement of electroconductivity of polyaniline/graphene oxide nanocomposites through in situ emulsion polymerization. 2014 , 49, 1328-1335	59
1805	Grafting of epoxy chains onto graphene oxide for epoxy composites with improved mechanical and thermal properties. 2014 , 69, 467-480	558
1804	Optimized Quality Factor of Graphene Oxide-Reinforced PVC Nanocomposite. 2014 , 43, 1161-1165	25
1803	Effect of solvent on the uncatalyzed synthesis of aminosilane-functionalized graphene. 2014 , 4, 6830-6839	30
1802	Exfoliated graphene-like carbon nitride in organic solvents: enhanced photocatalytic activity and highly selective and sensitive sensor for the detection of trace amounts of Cu2+. 2014 , 2, 2563	288
1801	Surface functionalization of MoS2 with POSS for enhancing thermal, flame-retardant and mechanical properties in PVA composites. 2014 , 4, 3253-3262	89
1800	In Situ Reduction of Graphene Oxide in an Epoxy Resin Thermally Cured with Amine. 2014 , 299, 757-763	13
1799	Effect of graphene nanoplatelets as nanofiller in plasticized poly(lactic acid) nanocomposites. 2014 , 118, 1551-1559	40
1798	Three-dimensional highly conductive graphene-silver nanowire hybrid foams for flexible and stretchable conductors. 2014 , 6, 21026-34	102
1797	Thermo-oxidative resistance of crosslinked polyethylene (XLPE) coated by hybrid coatings containing graphene oxide. 2014 , 258, 503-508	6
1796	Determination of the Mechanical Properties of a Poly(methyl methacrylate) Nanocomposite with Functionalized Graphene Sheets through Detailed Atomistic Simulations. 2014 , 47, 8072-8088	71
1795	Reliability-based design optimization scheme for designing electromagnetic shielding structures. 2014 , 28, 765-776	5
1794	Preparation and characterization of nanocomposites of poly-p-phenylene benzobisthiazole with graphene nanosheets. 2014 , 4, 8856	17
1793	Molecular force transfer mechanisms in graphene oxide paper evaluated using atomic force microscopy and in situ synchrotron micro FT-IR spectroscopy. 2014 , 6, 14404-11	14
1792	Increasing the apparent shear viscosity of polymer composites by uptake of a small amount of water. 2014 , 4, 24686-24691	8
1791	Segregated polymeric nanocomposites with tunable three-dimensional network of nanoparticles by controlling the dispersion and distribution. 2014 , 4, 51872-51877	2
1790	Simultaneously improving the thermal stability, flame retardancy and mechanical properties of polyethylene by the combination of graphene with carbon black. 2014 , 4, 33776-33784	20

1789	Reactive emulsion mixing as a novel pathway toward water-borne reduced graphene oxide/polymer composites. 2014 , 4, 24477-24483	13
1788	Fine tuning of the sheet distance of graphene oxide that affects the activity and substrate selectivity of a Pd/graphene oxide catalyst in the Heck reaction. 2014 , 4, 59835-59838	10
1787	Preparation of PVDF/graphene ferroelectric composite films by in situ reduction with hydrobromic acids and their properties. 2014 , 4, 45220-45229	87
1786	Porous conducting polymer and reduced graphene oxide nanocomposites for room temperature gas detection. 2014 , 4, 42546-42553	40
1785	Sulfonated Graphene Oxide Platelets in Nafion Nanocomposite Membrane: Advantages for Application in Direct Methanol Fuel Cells. 2014 , 118, 24357-24368	74
1784	In situ polymerization of mechanically reinforced, thermally healable graphene oxide/polyurethane composites based on DielsAlder chemistry. 2014 , 2, 20642-20649	113
1783	Probe the accumulation modes of the Au©22H14 dimer on the structure and NLO properties. 2014 , 112, 1918-1923	3
1782	Effect of Graphene and Ionic Liquid Additives on the Tribological Performance of Epoxy Resin. 2014 , 56, 133-142	39
1781	Poly(methyl methacrylate)/Graphene Oxide Nanocomposites by a Precipitation Polymerization Process and Their Dielectric and Rheological Characterization. 2014 , 47, 2149-2155	68
1780	Uniaxial deformation of nanorod filled polymer nanocomposites: a coarse-grained molecular dynamics simulation. 2014 , 16, 16039-48	30
1779	The thermal conductivity and mechanical properties of poly(p-phenylene sulfide)/oxided-graphene and poly(p-phenylene sulfide)/defect-graphene nano-composites by molecular dynamics simulation. 2014 , 4, 26074	26
1778	Enhanced mechanical properties of a multiwall carbon nanotube attached pre-stitched graphene oxide filled linear low density polyethylene composite. 2014 , 2, 2681-2689	38
1777	Improved Mechanical Properties of Graphene Oxide/Poly(ethylene oxide) Nanocomposites by Dynamic Interfacial Interaction of Coordination. 2014 , 67, 121	15
1776	ZnNi alloy nanoparticles grown on reduced graphene oxide nanosheets and their magnetic and catalytic properties. 2014 , 4, 386-394	21
1775	Influence of the carbon nanofiller surface curvature on the initiation of crystallization in thermoplastic polymers. 2014 , 4, 48606-48612	31
1774	Reduced silanized graphene oxide/epoxy-polyurethane composites with enhanced thermal and mechanical properties. 2014 , 316, 114-123	63
1773	Facile fabrication of poly (tetrafluoroethylene)/graphene nanocomposite via electrostatic self-assembly approach. 2014 , 103, 28-35	13
1772	The synergistic effect of a hybrid graphene oxide-chitosan system and biomimetic mineralization on osteoblast functions. 2014 , 2, 264-274	131

1771	Mechanical and rheological behavior of oil-well cement slurries produced with clinker containing carbon nanotubes. 2014 , 122, 274-279	42
1770	Water-dispersible graphene designed as a Pickering stabilizer for the suspension polymerization of poly(methyl methacrylate)/graphene corelhell microsphere exhibiting ultra-low percolation threshold of electrical conductivity. 2014 , 55, 4709-4719	51
1769	A Graphene-Polyaniline-Bi2O3Hybrid Film Sensor for Voltammetric Quantification of Anti-Inflammatory Drug Etodolac. 2014 , 161, H189-H194	13
1768	In situ ring-opening polymerization of poly(L-lactide)-graft-graphene oxide and its effect on the crystallization kinetics and morphology of biodegradable poly(L-lactide) at low loadings. 2014 , 4, 9463	26
1767	Confocal Raman Microscopy and AFM Study of the Interface Between the Photosensitive Polymer Layer and Multilayer Graphene. 2014 , 12, S98-S105	8
1766	Synthesis, Structural, and Morphological Characterizations of Reduced Graphene Oxide-Supported Polypyrrole Anode Catalysts for Improved Microbial Fuel Cell Performances. 2014 , 2, 2283-2290	115
1765	Reinforcement in melt-processed polymergraphene composites at extremely low graphene loading level. 2014 , 78, 243-249	120
1764	Influence of Thermally Reduced Graphene Low-Loadings on the Crystallization Behavior and Morphology of Biodegradable Poly(ethylene succinate). 2014 , 53, 498-504	27
1763	Novel nanocomposites of graphene oxide reinforced poly (3,4-ethylenedioxythiophene)-block-poly (ethylene glycol) and polyvinylidene fluoride for embedded capacitor applications. 2014 , 4, 37954-37963	28
1762	Application of Functional Hybrids Incorporating Carbon Nanotubes or Graphene. 2014 , 387-433	2
1761	Nano silver-anchored reduced graphene oxide sheets for enhanced dielectric performance of polymer nanocomposites. 2014 , 4, 28426-28431	27
1760	In situ polymerization deposition of porous conducting polymer on reduced graphene oxide for gas sensor. 2014 , 6, 13807-14	116
1759	Fabrication and characterization of nanosilver intercalated graphene embedded poly(vinyl chloride)composite thin films. 2014 , 21, 1	13
1758	High performance organic-on-inorganic hybrid photodiodes based on organic semiconductor-graphene oxide blends. 2014 , 195, 217-221	22
1757	Effect of nanofiller size and shape on the solid state microstructure and thermal properties of poly(butylene succinate) nanocomposites. 2014 , 590, 181-190	24
1756	The synergistic effect of the combined thin multi-walled carbon nanotubes and reduced graphene oxides on photothermally actuated shape memory polyurethane composites. 2014 , 432, 128-34	69
1755	Crystallization behaviors in the isotactic polypropylene/graphene composites. 2014 , 55, 4125-4135	39
1754	Phonon Transport through Point Contacts between Graphitic Nanomaterials. 2014 , 112,	52

1753	Ion conductivity improved polyethylene oxide/lithium perchlorate electrolyte membranes modified by graphene oxide. 2014 , 470, 316-322	48
1752	Nanostructured RuO2 on MWCNTs: Efficient catalyst for transfer hydrogenation of carbonyl compounds and aerial oxidation of alcohols. 2014 , 484, 84-96	35
1751	Uniform dispersion of graphene oxide in aluminum powder by direct electrostatic adsorption for fabrication of graphene/aluminum composites. 2014 , 25, 325601	117
1750	Stiffness prediction of graphene nanoplatelet/epoxy nanocomposites by a combined molecular dynamicshicromechanics method. 2014 , 92, 444-450	82
1749	A reactive graphene sheet in situ functionalized hyperbranched polyurethane for high performance shape memory material. 2014 , 4, 15146-15153	23
1748	Electrospun cellulosic fibre-reinforced composite materials. 2014 , 115-158	3
1747	Preparation of conductive polyaniline/graphene nanocomposites via in situ emulsion polymerization and product characterization. 2014 , 196, 199-205	65
1746	Electrical behavior and positive temperature coefficient effect of graphene/polyvinylidene fluoride composites containing silver nanowires. 2014 , 9, 375	23
1745	One step synthesis of polyacrylamide functionalized graphene and its application in Pb(II) removal. 2014 , 316, 308-314	40
1744	A novel platform based on graphene/poly(3,4-ethylenedioxythiophene)/iron (III) hexacyanoferrate (II) composite film for electrocatalytic reduction of H2O2. 2014 , 732, 93-100	12
1743	Preparation and thermoelectric properties of reduced graphene oxide/PEDOT:PSS composite films. 2014 , 197, 58-61	75
1742	Facile approach to surface functionalized MoS2 nanosheets. 2014 , 4, 32570	124
1741	Adsorption of graphene for the removal of inorganic pollutants in water purification: a review. 2014 , 20, 713-727	98
1740	Anionic clay intercalated by multi-walled carbon nanotubes as an efficient 3D nanofiller for the preparation of high-performance l-alanine amino acid containing poly(amide-imide) nanocomposites. 2014 , 49, 7004-7013	17
1739	Effect of CuPc@MWCNTs on rheological, thermal, mechanical and dielectric properties of polyarylene ether nitriles (PEN) terminated with phthalonitriles. 2014 , 21, 1	8
1738	Large thermoelectric power factor in polyaniline/graphene nanocomposite films prepared by solution-assistant dispersing method. 2014 , 2, 11107	106
1737	Effects of nano-graphene on the physico-mechanical properties of bagasse/polypropylene composites. 2014 , 71, 337-349	66
1736	Facilely prepared polypyrrole-graphene oxide-sodium dodecylbenzene sulfonate nanocomposites by in situ emulsion polymerization for high-performance supercapacitor electrodes. 2014 , 18, 2139-2147	12

1735	Vulcanization kinetics of graphene/styrene butadiene rubber nanocomposites. 2014 , 32, 658-666	15
1734	Fabrication of polyimide-based nanocomposites containing functionalized graphene oxide nanosheets by in-situ polymerization and their properties. 2014 , 314, 991-999	33
1733	Thickness, chirality and pattern dependence of elastic properties of hydrogen functionalized graphene. 2014 , 92, 192-198	6
1732	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
1731	Preparation and properties of layered carbon nanotube/polyazopyridine/nanodiamond composites. 2014 , 30, 412-434	1
1730	Synthesis and StructuralMechanical Property Characteristics of GraphenePolymer Nanocomposites. 2014 , 335-375	5
1729	One-pot synthesis of POSS-containing alternating copolymers by RAFT polymerization and their microphase-separated nanostructures. 2014 , 5, 4534	33
1728	Preparation of polydopamine-functionalized graphene Ee 3O4 magnetic composites with high adsorption capacities. 2014 , 4, 30536-30541	42
1727	A Thermally Conductive Composite with a Silica Gel Matrix and Carbon-Encapsulated Copper Nanoparticles as Filler. 2014 , 43, 2759-2769	13
1726	Interconnected graphene/polymer micro-tube piping composites for liquid sensing. 2014, 7, 869-876	18
1725	High-performance polymer/nanodiamond composites: synthesis and properties. 2014 , 23, 531-545	22
1724	Enhanced dispersibility and thermal stability of Eyclodextrin functionalized graphene. 2014 , 25, 355-358	23
1723	Poly(vinyl alcohol) reinforced and toughened with poly(dopamine)-treated graphene oxide, and its use for humidity sensing. 2014 , 8, 6739-47	166
1722	Interfacial synthesis of polypyrrole/graphene composites and investigation of their optical, electrical and electrochemical properties. 2014 , 63, 1439-1446	23
1721	High performance dielectric composites by latex compounding of graphene oxide-encapsulated carbon nanosphere hybrids with XNBR. 2014 , 2, 11144-11154	61
1720	Noncovalent functionalization of graphene with a Ni(II) tetraaza[14]annulene complex. 2014 , 43, 7413-28	36
1719	Raman spectroscopy as a tool for the analysis of carbon-based materials (highly oriented pyrolitic graphite, multilayer graphene and multiwall carbon nanotubes) and of some of their elastomeric composites. 2014 , 74, 57-63	156
1718	Crystalline properties, dielectric response and thermal stability of in-situ reduced graphene oxide/poly(vinylidene fluoride) nanocomposites. 2014 , 21, 1446-1454	11

1717	Graphene/Nylon-6 Chemiresistor Sensor for Trimethylamine Gas Sensing. 2014 , 492, 321-325	10
1716	AldehydeBoly(ethylene glycol) modified graphene oxide/conducting polymers composite as high-performance electrochemical supercapacitors. 2014 , 2, 18058-18069	35
1715	Harnessing the chemistry of graphene oxide. 2014 , 43, 5288-301	584
1714	Electrically conductive multiphase polymer blend carbon-based composites. 2014 , 54, 1-16	80
1713	3D networked graphene-ferromagnetic hybrids for fast shape memory polymers with enhanced mechanical stiffness and thermal conductivity. 2014 , 10, 3880-6	65
1712	Interfacial engineering of polypropylene/graphene nanocomposites: improvement of graphene dispersion by using tryptophan as a stabilizer. 2014 , 4, 8799	30
1711	Recent Trends and Future Outlooks in the Field of Clay-Containing Polymer Nanocomposites. 2014 , 215, 1162-1179	46
1710	Competitive adsorption of dopamine and rhodamine 6G on the surface of graphene oxide. 2014 , 6, 2459-70	138
1709	High-Speed Actuation and Mechanical Properties of Graphene-Incorporated Shape Memory Polyurethane Nanofibers. 2014 , 118, 10408-10415	62
1708	The influence of #eOOH/rGO hybrids on the improved thermal stability and smoke suppression properties in polystyrene. 2014 , 53, 272-279	24
1707	Simultaneous reduction, exfoliation, and nitrogen doping of graphene oxide via a hydrothermal reaction for energy storage electrode materials. 2014 , 69, 66-78	139
1706	Electrochemical sensing platform for L-CySH based on nearly uniform Au nanoparticles decorated graphene nanosheets. 2014 , 38, 292-8	27
1705	Electrochemical sensors based on polydiaminonaphthalene and polyphenylenediamine for monitoring metal pollutants. 2014 , 2, 33-42	10
1704	Multi-layer graphene/copper composites: Preparation using high-ratio differential speed rolling, microstructure and mechanical properties. 2014 , 69, 55-65	252
1703	Structure manipulation of graphene by hydrogenation. 2014 , 69, 86-91	30
1702	Preparation, photocatalytic activity, and mechanism of Cd2Sb2O6.8-graphene composite. 2014 , 144, 644-653	23
1701	Graphene oxide modification with graft polymers via nitroxide mediated radical polymerization. 2014 , 55, 2347-2355	36
1700	Crystallization behavior of spray-dried and freeze-dried graphene oxide/poly(trimethylene terephthalate) composites. 2014 , 131, n/a-n/a	3

1699	Rheology, Electrical Properties, and Percolation of TRGO-Filled EVA-Copolymers. 2014 , 299, 1134-1144	15
1698	Highly Active, Selective, and Reusable RuO2/SWCNT Catalyst for Heck Olefination of Aryl Halides. 2014 , 4, 2118-2129	48
1697	On the electrical conductivity of PVDF composites with different carbon-based nanoadditives. 2014 , 292, 1989-1998	26
1696	Recent advances in the preparation of hybrid nanoparticles in miniemulsions. 2014 , 211, 47-62	68
1695	A powerful tool for graphene functionalization: Benzophenone mediated UV-grafting. 2014 , 77, 226-235	36
1694	In situ reduction of graphene oxide nanoplatelet during spark plasma sintering of a silica matrix composite. 2014 , 34, 3357-3364	30
1693	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
1692	Improved strength and toughness of polyketone composites using extremely small amount of polyamide 6 grafted graphene oxides. 2014 , 77, 366-378	62
1691	Surface Modification of Membrane Filters Using Graphene and Graphene Oxide-Based Nanomaterials for Bacterial Inactivation and Removal. 2014 , 2, 1559-1565	158
1690	Mechanical-Thermal-Electrical and Morphological Properties of Graphene Reinforced Polymer Composites: A Review. 2014 , 67, 803-816	44
1689	Chemical sensors based on polymer composites with carbon nanotubes and graphene: the role of the polymer. 2014 , 2, 14289-14328	169
1688	Nano-sized graphene oxide as sole surfactant in miniemulsion polymerization for nanocomposite synthesis: Effect of pH and ionic strength. 2014 , 55, 3490-3497	44
1687	Electrochemical synthesis of poly(3,4-ethylenedioxythiophene) in aqueous dispersion of high porosity reduced graphene oxide. 2014 , 4, 25279-25286	56
1686	Processable 3-nm thick graphene platelets of high electrical conductivity and their epoxy composites. 2014 , 25, 125707	96
1685	Electrochemically reduced graphene oxide-based electrochemical sensor for the sensitive determination of ferulic acid in A. sinensis and biological samples. 2014 , 42, 227-33	38
1684	Biopolymer Thermally reduced graphene nanocomposites: Structural characterization and properties. 2014 , 147, 319-332	37
1683	Interfacial shear strength of reduced graphene oxide polymer composites. 2014 , 77, 390-397	29
1682	Non-isothermal crystallization kinetics of high density polyethylene/graphene nanocomposites prepared by in-situ polymerization. 2014 , 589, 226-234	40

1681 Raman and Infrared Spectroscopic Characterization of Graphene. **2014**, 165-194

1680	Hyperbranched Cyclotriphosphazene Polymer-grafted Graphene with Amphipathicity. 2014 , 43, 1263-1265	9
1679	Spark plasma sintering of Si3N4/multilayer graphene composites. 2014 , 13,	17
1678	Photothermal nanopositioners based on graphene nanocomposites. 2014 ,	
1677	Growth Morphology and Defects in 2D Heterostructures and Interfaces. 2015 , 21, 101-102	
1676	What does See the Impulse Acoustic Microscopy inside Nanocomposites?. 2015 , 70, 703-706	8
1675	Novel Carbon-Based Nanoadsorbents for Removal of Synthetic Textile Dyes from Wastewaters. 2015 , 35-82	2
1674	Conjugated Polymer-Based Blends, Copolymers, and Composites: Synthesis, Properties, and Applications. 2015 , 1-118	5
1673	Development of Toxic Chemicals Sensitive Chemiresistors Based on Metal Oxides, Conducting Polymers and Nanocomposites Thin Films. 2015 , 1-57	
1672	Polymer Nanocomposites Reinforced with Functionalized Carbon Nanomaterials: Nanodiamonds, Carbon Nanotubes and Graphene. 2015 , 347-399	
1671	- Different Functionalization Methods of Carbon-Based Nanomaterials. 2015 , 54-83	
1670	Functionalization of Carbon Nanotubes for Catalytic Applications. 2015 , 428-459	
1669	Preparation and Characterization of Novel Conductive Porous Chitosan-Based Nanocomposite Scaffolds for Tissue Engineering Applications. 2015 , 1-45	
1668	Graphene/Conjugated Polymer Nanocomposites for Optoelectronic and Biological Applications. 2015 , 229-279	1
1667	Electrochemical synthesis and characterization of stable colloidal suspension of graphene using two-electrode cell system. 2015 ,	7
1666	Intrinsic conductivity of carbon nanotubes and graphene sheets having a realistic geometry. 2015 , 143, 204902	16
1665	Communication: Local energetic analysis of the interfacial and surface energies of graphene from the single layer to graphite. 2015 , 143, 241105	4
1664	Percolation threshold and electrical conductivity of graphene-based nanocomposites with filler agglomeration and interfacial tunneling. 2015 , 118, 065101	90

1663	Modification of Graphene with Hyperbranched Poly(Ether Ketone) for Heterogeneous Catalyst. 2015 , 28, 187-190	9
1662	Polymer coating of graphene oxide via reversible addition f ragmentation chain transfer mediated emulsion polymerization. 2015 , 53, 1413-1421	46
1661	In situ polymerization of polyimide-based nanocomposites via covalent incorporation of functionalized graphene nanosheets for enhancing mechanical, thermal, and electrical properties. 2015 , 132, n/a-n/a	12
1660	Optical, electrical, and electrochemical properties of graphene based water soluble polyaniline composites. 2015 , 132, n/a-n/a	38
1659	3D Graphene-Infused Polyimide with Enhanced Electrothermal Performance for Long-Term Flexible Space Applications. 2015 , 11, 6425-34	45
1658	Thermal imaging using polymer nanocomposite temperature sensors. 2015 , 212, 2239-2245	14
1657	Reduced graphene oxide dispersed in copper matrix composites: Facile preparation and enhanced mechanical properties. 2015 , 212, 2154-2161	30
1656	Thermal, mechanical, and morphological properties of functionalized graphene-reinforced bio-based polyurethane nanocomposites. 2015 , 117, 1940-1946	17
1655	Foldable Conductive Cellulose Fiber Networks Modified by Graphene Nanoplatelet-Bio-Based Composites. 2015 , 1, 1500224	46
1654	Preparation and characterization of polyelectrolyte/silver multilayer films on PET substrates and its antibacterial property. 2015 , 36, 1161-1168	4
1653	Poly(4-vinyl pyridine)-grafted graphene oxide for drug delivery and antimicrobial applications. 2015 , 64, 1660-1666	27
1652	Film-formation of polyacrylate/silica composite latexes by sol-gel process. 2015 , 132, n/a-n/a	2
1651	Morphology, thermal, and electrical properties of polypropylene hybrid composites co-filled with multi-walled carbon nanotubes and graphene nanoplatelets. 2015 , 132, n/a-n/a	10
1650	. 2015,	26
1649	Nanoparticle-Integrated Hydrogels as Multifunctional Composite Materials for Biomedical Applications. 2015 , 1, 162-178	74
1648	Wear Performance of UHMWPE and Reinforced UHMWPE Composites in Arthroplasty Applications: A Review. 2015 , 3, 413-436	74
1647	Development of Graphene Nano-Platelet Based Counter Electrodes for Solar Cells. 2015 , 8, 5953-5973	16
1646	Recent Progress in the Growth and Applications of Graphene as a Smart Material: A Review. 2015 , 2,	63

1645	Graphene/Epoxy Coating as Multifunctional Material for Aircraft Structures. 2015 , 2, 423-434	63
1644	Raman Spectra of Carbon-Based Materials (from Graphite to Carbon Black) and of Some Silicone Composites. 2015 , 1, 77-94	141
1643	Preparation of Three-Dimensional Chitosan-Graphene Oxide Aerogel for Residue Oil Removal. 2016 , 88, 768-78	13
1642	Study of Reduced Graphene Oxide Preparation by HummersIMethod and Related Characterization. 2015 , 2015, 1-5	77
1641	Mechanical and Electrical Properties of Styrene-Isoprene-Styrene Copolymer Doped with Expanded Graphite Nanoplatelets. 2015 , 2015, 1-9	4
1640	Graphene Oxide ICardanol Based Polymer Benzoxazine Nanocom-Posite as High Dielectric Strength Material for Electrical Applications. 2015 , 24, 096369351502400	2
1639	Polymer composites prepared by low-temperature post-irradiation polymerization of C2F4 in the presence of graphene-like material: synthesis and characterization. 2015 , 5, 9865-9874	16
1638	Chemically converted graphene: scalable chemistries to enable processing and fabrication. 2015 , 7, e186-e186	57
1637	Enhanced mechanical properties of ammonia-modified graphene nanosheets/epoxy nanocomposites. 2015 , 5, 28098-28104	15
1636	Dispersion Stability of Graphene Nanoplatelets (GNPs) and Noncovalent-Functionalization of GNPs with Chitosan in Ethanol. 2015 , 761, 447-451	4
1635	Graphene Nanocomposites for Electromagnetic Induction Shielding. 2015 , 345-372	1
1634	A study on the pseudocapacitive behavior of polyluminol/graphene nanocomposite. 2015 , 751, 15-22	5
1633	Simultaneous enhancement in mechanical strength, electrical conductivity, and electromagnetic shielding properties in PVDF-ABS blends containing PMMA wrapped multiwall carbon nanotubes. 2015 , 17, 14856-65	46
1632	Graphene networks and their influence on free-volume properties of graphene-epoxidized natural rubber composites with a segregated structure: rheological and positron annihilation studies. 2015 , 17, 12175-84	40
1631	Enhanced thermal conductivity and retained electrical insulation for polyimide composites with SiC nanowires grown on graphene hybrid fillers. 2015 , 76, 73-81	104
1630	Mechanical characterization of high-performance graphene oxide incorporated aligned fibroporous poly(carbonate urethane) membrane for potential biomedical applications. 2015 , 132, n/a-n/a	27
1629	Polyolefin/Graphene Nanocomposite Materials. 2015 , 129-154	2
1628	Impact of trace graphene oxide in coagulation bath on morphology and performance of polysulfone ultrafiltration membrane. 2015 , 147, 364-371	23

1627	High Dielectric Performance Composites with a Hybrid BaTiO3/Graphene as Filler and Poly(vinylidene fluoride) as Matrix. 2015 , 4, N47-N54	16
1626	Influences of sodium dodecyl sulfate on vulcanization kinetics and mechanical performance of EPDM/graphene oxide nanocomposites. 2015 , 5, 46694-46704	25
1625	Preparation of reduced graphene oxide-NiFe 2 O 4 nanocomposites for the electrocatalytic oxidation of hydrazine. 2015 , 79, 649-659	62
1624	Silane functionalization of graphene oxide and its use as a reinforcement in bismaleimide composites. 2015 , 50, 5402-5410	56
1623	Understanding room-temperature metastability of graphene oxide utilizing hydramines from a synthetic chemistry view. 2015 , 5, 49688-49695	12
1622	Use of Graphene Oxide as a Bitumen Modifier: An Innovative Process Optimization Study. 2015 , 1105, 365-369	20
1621	Microstructure and viscoelastic behaviors of graphene/PMMA nanocomposites. 2015,	
1620	B-Stage Graphene-Epoxy Composite Films: Effects of film viscosity changes on the electric field-induced alignment of graphene flakes 2015 , 9, 13-18	1
1619	Investigation on microstructural, mechanical and electrochemical properties of aluminum composites reinforced with graphene nanoplatelets. 2015 , 25, 460-470	134
1618	Hydrogen peroxide treated graphene as an effective nanosheet filler for separation application. 2015 , 5, 100984-100995	87
1617	Advanced biomaterials in hip joint arthroplasty. A review on polymer and ceramics composites as alternative bearings. 2015 , 83, 276-283	91
1616	Novel electrical conduction properties obtained in few-layer graphene/epoxy nanocomposites. 2015 ,	2
1615	Controlling Short-Range Interactions by Tuning Surface Chemistry in HDPE/Graphene Nanoribbon Nanocomposites. 2015 , 119, 11867-78	19
1614	Effect of number of graphene layers on mechanical and dielectric properties of graphenel poxy nanocomposites. 2015 , 44, 405-412	7
1613	Scratch behaviour of graphene alumina nanocomposites. 2015 , 114, S34-S41	18
1612	Electrical properties and piezoresistive evaluation of polyurethane-based composites with carbon nano-materials. 2015 , 121, 41-48	34
1611	Mapping the intriguing transient morphologies and the demixing behavior in PS/PVME blends in the presence of rod-like nanoparticles. 2015 , 17, 14972-85	13
1610	3D stereolithography printing of graphene oxide reinforced complex architectures. 2015 , 26, 434003	131

1609	A first principles study on the mechanical properties of hexagonal zinc oxide sheets. 2015 , 79, 15-20	8
1608	Poly(3,4-ethylenedioxythiophene) nanorods grown on graphene oxide sheets as electrochemical sensing platform for rutin. 2015 , 739, 66-72	44
1607	Preparation of magnetic chitosan and graphene oxide-functional guanidinium ionic liquid composite for the solid-phase extraction of protein. 2015 , 861, 36-46	84
1606	Interlaminar reinforcement of glass fiber/epoxy composites with graphene nanoplatelets. 2015 , 70, 82-92	104
1605	Unique Morphology in Polylactide/Graphene Oxide Nanocomposites. 2015 , 54, 45-57	25
1604	Excellent electrochemical performance of homogeneous polypyrrole/graphene composites as electrode material for supercapacitors. 2015 , 26, 485-492	10
1603	Poly(vinyl alcohol)/GO-MMT nanocomposites: Preparation, structure and properties. 2015, 33, 329-338	16
1602	Facile and low-cost approach towards a PVDF ultrafiltration membrane with enhanced hydrophilicity and antifouling performance via graphene oxide/water-bath coagulation. 2015 , 5, 7880-7889	103
1601	Mechanical vs. electrical hysteresis of carbon nanotube/styreneButadieneBtyrene composites and their influence in the electromechanical response. 2015 , 109, 1-5	51
1600	Electro-mechanical Behavior of Graphene B olystyrene Composites Under Dynamic Loading. 2015 , 1, 43-54	10
1599	Simultaneous Reinforcement and Toughening of Carbon Nanotube/Cellulose Conductive Nanocomposite Films by Interfacial Hydrogen Bonding. 2015 , 3, 317-324	53
1598	Enhanced mechanical and electrical properties of nylon-6 composite by using carbon fiber/graphene multiscale structure as additive. 2015 , 132, n/a-n/a	30
1597	Electrical Properties of Graphene Polymer Nanocomposites. 2015 , 25-47	25
1596	Recent advances in graphene and its metal-oxide hybrid nanostructures for lithium-ion batteries. 2015 , 7, 4820-68	152
1595	A novel non-enzymatic H2O2 sensor based on polypyrrole nanofibersBilver nanoparticles decorated reduced graphene oxide nano composites. 2015 , 332, 648-656	90
1594	Facile synthesis of silver-decorated reduced graphene oxide as a hybrid filler material for electrically conductive polymer composites. 2015 , 5, 15070-15076	35
1593	Fluorescent graphene oxide via polymer grafting: an efficient nanocarrier for both hydrophilic and hydrophobic drugs. 2015 , 7, 3512-23	66
1592	Purified dispersions of graphene in a nonpolar solvent via solvothermal reduction of graphene oxide. 2015 , 51, 3824-7	14

1591	Graphene/Polymer Nanocomposites: Role in Electronics. 2015 , 1-24	11
1590	Electrolytically exfoliated graphenepolylactide-based bioplastic with high elastic performance. 2015 , 132, n/a-n/a	7
1589	Cationic polymer T iO2 nanocomposite sorbent for arsenate removal. 2015 , 268, 362-370	35
1588	Synthesis, characterization and optical properties of graphene oxidepolystyrene nanocomposites. 2015 , 26, 214-222	32
1587	Graphene/Polymer Nanocomposites with High Dielectric Performance: Interface Engineering. 2015 , 49-65	5
1586	Study of benzophenone grafting on reduced graphene oxide by unconventional techniques. 2015 , 39, 2966-2972	7
1585	Effect of functionalized trititanate nanotubes on the properties of crosslinked cationic polymer nanocomposite. 2015 , 64, 1121-1127	6
1584	Polymer lgraphene nanocomposites: effect of polymer matrix and filler amount on properties. 2015 , 300, 510-521	40
1583	Effect of covalent modification of graphene nanosheets on the electrical property and electromagnetic interference shielding performance of a water-borne polyurethane composite. 2015 , 7, 2817-26	128
1582	Mechanically and Thermally Enhanced Multiwalled Carbon Nanotube@raphene Hybrid filled Thermoplastic Polyurethane Nanocomposites. 2015 , 300, 346-357	39
1581	Preparation of Ethylene Vinyl Acetate Copolymer/Graphene Oxide Nanocomposite Films via Solution Casting Method and Determination of the Mechanical Properties. 2015 , 54, 218-222	14
1580	Nanocomposite of cement/graphene oxide Impact on hydration kinetics and Young modulus. 2015 , 78, 234-242	126
1579	Ionic liquid-assisted exfoliation and dispersion: stripping graphene and its two-dimensional layered inorganic counterparts of their inhibitions. 2015 , 7, 4338-53	73
1578	Electroconductive performance of polypyrrole/graphene nanocomposites synthesized through in situ emulsion polymerization. 2015 , 132, n/a-n/a	13
1577	Effect of growing graphene flakes on branched carbon nanofibers based on carbon fiber on mechanical and thermal properties of polypropylene. 2015 , 5, 9925-9932	13
1576	Fast route to obtain Al2O3-based nanocomposites employing graphene oxide: Synthesis and sintering. 2015 , 64, 245-251	16
1575	Nanostructured pseudocapacitive materials decorated 3D graphene foam electrodes for next generation supercapacitors. 2015 , 7, 6999-7021	106
1574	Enhanced thermal and mechanical properties of epoxy composites by mixing noncovalently functionalized graphene sheets. 2015 , 72, 453-472	44

1573	Strengthened electrically conductive composite materials based on ultra-high-molecular-weight polyethylene reactor powder and nanosized carbon fillers. 2015 , 10, 42-52	3
1572	Bioinspired highly electrically conductive graphenel poxy layered composites. 2015 , 5, 22283-22288	26
1571	Mechanical properties and microstructure of a graphene oxide⊡ement composite. 2015 , 58, 140-147	416
1570	Enhanced tensile properties of magnesium composites reinforced with graphene nanoplatelets. 2015 , 630, 36-44	140
1569	Elastomeric composites based on carbon nanomaterials. 2015 , 26, 112001	95
1568	Bio-inspired composite films with integrative properties based on the self-assembly of gellan gumBraphene oxide crosslinked nanohybrid building blocks. 2015 , 91, 445-457	38
1567	Effect of Thermo-oxidation on the Mechanical Performance of Polymer Based Composites for High Temperature Applications. 2015 , 81-97	
1566	Effects of electrophoretically deposited graphene oxide coatings on interfacial properties of carbon fiber composite. 2015 , 50, 5886-5892	42
1565	The influence of dehydration on the interfacial bonding, microstructure and mechanical properties of poly(vinyl alcohol)/graphene oxide nanocomposites. 2015 , 94, 845-855	20
1564	Nanocomposites of graphene/polymers: a review. 2015 , 5, 68014-68051	177
1564 1563	Nanocomposites of graphene/polymers: a review. 2015 , 5, 68014-68051 Highly Electrically Conducting Glass-Graphene Nanoplatelets Hybrid Coatings. 2015 , 7, 17656-62	177
1563		
1563	Highly Electrically Conducting Glass-Graphene Nanoplatelets Hybrid Coatings. 2015 , 7, 17656-62	11
1563 1562	Highly Electrically Conducting Glass-Graphene Nanoplatelets Hybrid Coatings. 2015, 7, 17656-62 Functionalization of nanomaterials with aryldiazonium salts. 2015, 225, 16-36 Forced vibration of nanoplate on viscoelastic substrate with consideration of structural damping:	11
1563 1562 1561	Highly Electrically Conducting Glass-Graphene Nanoplatelets Hybrid Coatings. 2015, 7, 17656-62 Functionalization of nanomaterials with aryldiazonium salts. 2015, 225, 16-36 Forced vibration of nanoplate on viscoelastic substrate with consideration of structural damping: An analytical solution. 2015, 133, 8-15 The role of SEBS in tailoring the interface between the polymer matrix and exfoliated graphene	11 122 16
1563 1562 1561 1560	Highly Electrically Conducting Glass-Graphene Nanoplatelets Hybrid Coatings. 2015, 7, 17656-62 Functionalization of nanomaterials with aryldiazonium salts. 2015, 225, 16-36 Forced vibration of nanoplate on viscoelastic substrate with consideration of structural damping: An analytical solution. 2015, 133, 8-15 The role of SEBS in tailoring the interface between the polymer matrix and exfoliated graphene nanoplatelets in hybrid composites. 2015, 163, 182-189	11 122 16
1563 1562 1561 1560	Highly Electrically Conducting Glass-Graphene Nanoplatelets Hybrid Coatings. 2015, 7, 17656-62 Functionalization of nanomaterials with aryldiazonium salts. 2015, 225, 16-36 Forced vibration of nanoplate on viscoelastic substrate with consideration of structural damping: An analytical solution. 2015, 133, 8-15 The role of SEBS in tailoring the interface between the polymer matrix and exfoliated graphene nanoplatelets in hybrid composites. 2015, 163, 182-189 Graphene-Based Polymer Nanocomposites: Chemistry and Applications. 2015, 209-237	11 122 16 17

1555	Investigation of the Effects of Graphene on the Micro- and Macro-Properties of Cementitious Materials. 2015 ,	3
1554	Graphene Nanoplatelets as Rheology Modifiers for Polylactic Acid: Graphene Aspect-Ratio-Dependent Nonlinear Rheological Behavior. 2015 , 54, 8175-8182	31
1553	Anomalous nano-barrier effects of ultrathin molybdenum disulfide nanosheets for improving the flame retardance of polymer nanocomposites. 2015 , 3, 14307-14317	136
1552	Nanocomposites with engineering polymers: A review. 2015 , 15-29	2
1551	Preparation, characterization, and applications of poly(ethylene terephthalate) nanocomposites. 2015 , 167-198	3
1550	Graphite to Graphene via Graphene Oxide: An Overview on Synthesis, Properties, and Applications. 2015 , 67, 2855-2868	41
1549	Development of an Ultrafast Low-Energy Electron Diffraction Setup. 2015,	
1548	Influence of hybrid functionalized graphite nanoplatelets-tripolyphosphate on improvement in fire protection of intumescent fire resistive coating for steel structures. 2015 , 120, 135-148	11
1547	Revealing the toughening mechanism of graphene-polymer nanocomposite through molecular dynamics simulation. 2015 , 26, 291003	28
1546	l-Phenylalanine edge functionalized graphite nanoplatelets as a nanoscale filler for poly(esterEmideImide) matrix. 2015 , 12, 2065-2073	1
1545	Facile preparation of poly(p-phenylene benzobisoxazole)/graphene composite films via one-pot in situ polymerization. 2015 , 71, 8-14	28
1544	Enhanced Performance of a Novel Polyvinyl Amine/Chitosan/Graphene Oxide Mixed Matrix Membrane for CO2 Capture. 2015 , 3, 1819-1829	112
1543	Characterization of covalently-grafted polyisocyanate chains onto graphene oxide for polyurethane composites with improved mechanical properties. 2015 , 281, 869-883	116
1542	Preparation of graphene oxide/bio-based elastomer nanocomposites through polymer design and interface tailoring. 2015 , 6, 6140-6151	28
1541	High Strain Rate Behavior of Graphene Reinforced Polyurethane Composites. 2015, 137,	10
1540	Curing characteristics of an epoxy resin in the presence of functional graphite oxide with amine-rich surface. 2015 , 614, 76-84	34
1539	Latex routes to graphene-based nanocomposites. 2015 , 6, 5323-5357	58
1538	Microwave absorbers designed from PVDF/SAN blends containing multiwall carbon nanotubes anchored cobalt ferrite via a pyrene derivative. 2015 , 3, 12413-12426	66

1537	Highly dispersible graphene oxide reinforced polypyrrole/polyvinyl alcohol blend nanocomposites with high dielectric constant and low dielectric loss. 2015 , 5, 61933-61945	77
1536	A self-standing nanocomposite foam of polyaniline@reduced graphene oxide for flexible super-capacitors. 2015 , 209, 68-73	53
1535	Inhibited corrosion-promotion activity of graphene encapsulated in nanosized silicon oxide. 2015 , 3, 16843-16848	99
1534	Effects of poly(ethyleneimine) adsorption on graphene nanoplatelets to the properties of NR/EPDM rubber blend nanocomposites. 2015 , 50, 6365-6381	19
1533	High performance epoxy composites cured with ionic liquids. 2015 , 31, 192-198	43
1532	Evaluation of mechanical and thermal properties of microwave irradiated poly (styrene-co-methyl methacrylate)/graphene nanocomposites. 2015 , 22, 595-610	8
1531	Conducting, Self-Assembled, Nacre-Mimetic Polymer/Clay Nanocomposites. 2015 , 7, 15681-5	41
1530	Graphene Based Polymer Strain Sensors for Non-Destructive Testing. 2015 , 1101, 314-317	7
1529	Determination of the dispersive optical constants of the poly(vinyl chloride) transparent nanocomposite layers containing nanosilver intercalated graphene. 2015 , 57, 480-488	5
1528	Impressive Transmission Mode Electromagnetic Interference Shielding Parameters of Graphene-like Nanocarbon/Polyurethane Nanocomposites for Short Range Tracking Countermeasures. 2015 , 7, 14833-42	43
1527	Recent advances in graphene/polyamide 6 composites: a review. 2015 , 5, 61688-61702	51
1526	Improving thermal and mechanical properties of epoxy composites by using functionalized graphene. 2015 , 5, 60596-60607	28
1525	Electrical and mechanical properties of antistatic PVC films containing multi-layer graphene. 2015 , 79, 444-450	83
1524	Classical estimates of the effective thermoelastic properties of coppergraphene composites. 2015 , 80, 278-290	30
1523	Preparation and properties of reduced graphene oxide/polyacrylonitrile nanocomposites using polyvinyl phenol. 2015 , 80, 238-245	73
1522	Graphene/gelatin hydrogel composites with high storage modulus sensitivity for using as electroactive actuator: Effects of surface area and electric field strength. 2015 , 70, 242-251	27
1521	Preparation and Properties of Ethylene-vinyl Acetate/linear Low-density Polyethylene/Graphene Oxide Nanocomposite Films. 2015 , 54, 1152-1158	6
1520	Injectable and mechanically robust 4-arm PPO-PEO/graphene oxide composite hydrogels for biomedical applications. 2015 , 51, 8876-9	28

1519	High performance composite coatings on plastics: UV-curable cycloaliphatic epoxy resins reinforced by graphene or graphene derivatives. 2015 , 272, 322-336	24
1518	Multifunctional nanocomposites based on tetraethylenepentamine-modified graphene oxide/epoxy. 2015 , 43, 182-192	70
1517	Graphene: a multipurpose material for protective coatings. 2015 , 3, 12580-12602	201
1516	Few layered graphene Sheet decorated by ZnO Nanoparticles for anti-bacterial application. 2015 , 83, 776-784	41
1515	Micromechanics of fracturing in nanoceramics. 2015 , 373,	26
1514	Interface engineering of ionic liquid integrated graphene in poly(vinylidene fluoride) matrix yielding magnificent improvement in mechanical, electrical and dielectric properties. 2015 , 65, 154-167	54
1513	Polymer Interphase Self-Reinforcement and Strengthening Mechanisms in Low-Loaded Nanocomposite Fibers. 2015 , 216, 1313-1320	28
1512	Hyperbranched polytriazine grafted reduced graphene oxide and its application. 2015 , 53, 2132-2140	10
1511	Enhanced properties of quaternized graphenes reinforced polysulfone based composite anion exchange membranes for alkaline fuel cell. 2015 , 487, 99-108	83
1510	Electrically conductive polymers and composites for biomedical applications. 2015 , 5, 37553-37567	476
1510 1509		476 10
	Buckling of Graphene Embedded in Polymer Matrix Under Compression. 2015 , 15, 1540016 Composites prepared from the waterborne polyurethane cationomers-modified graphene. Part I.	
1509	Buckling of Graphene Embedded in Polymer Matrix Under Compression. 2015 , 15, 1540016 Composites prepared from the waterborne polyurethane cationomers-modified graphene. Part I.	10
1509 1508	Buckling of Graphene Embedded in Polymer Matrix Under Compression. 2015, 15, 1540016 Composites prepared from the waterborne polyurethane cationomers-modified graphene. Part I. Synthesis, structure, and physicochemical properties. 2015, 293, 421-431 Porous conducting polymer and reduced graphene oxide: preparation, characterization and electrochemical performance. 2015, 26, 1668-1677	10
1509 1508 1507	Buckling of Graphene Embedded in Polymer Matrix Under Compression. 2015, 15, 1540016 Composites prepared from the waterborne polyurethane cationomers-modified graphene. Part I. Synthesis, structure, and physicochemical properties. 2015, 293, 421-431 Porous conducting polymer and reduced graphene oxide: preparation, characterization and electrochemical performance. 2015, 26, 1668-1677 Influence of multi-walled carbon nanotube (MWNT) concentration on the interconnection	10 12 12
1509 1508 1507	Buckling of Graphene Embedded in Polymer Matrix Under Compression. 2015, 15, 1540016 Composites prepared from the waterborne polyurethane cationomers-modified graphene. Part I. Synthesis, structure, and physicochemical properties. 2015, 293, 421-431 Porous conducting polymer and reduced graphene oxide: preparation, characterization and electrochemical performance. 2015, 26, 1668-1677 Influence of multi-walled carbon nanotube (MWNT) concentration on the interconnection properties of solderable anisotropic conductive adhesives (SACAs). 2015, 26, 4969-4980 Isothermal crystallization of syndiotactic polystyrene induced by graphene nanosheets and carbon	10 12 12
1509 1508 1507 1506	Buckling of Graphene Embedded in Polymer Matrix Under Compression. 2015, 15, 1540016 Composites prepared from the waterborne polyurethane cationomers-modified graphene. Part I. Synthesis, structure, and physicochemical properties. 2015, 293, 421-431 Porous conducting polymer and reduced graphene oxide: preparation, characterization and electrochemical performance. 2015, 26, 1668-1677 Influence of multi-walled carbon nanotube (MWNT) concentration on the interconnection properties of solderable anisotropic conductive adhesives (SACAs). 2015, 26, 4969-4980 Isothermal crystallization of syndiotactic polystyrene induced by graphene nanosheets and carbon nanotubes: a comparative study. 2015, 22, 1 Anisotropic micro-cloths fabricated from DNA-stabilized carbon nanotubes: one-stop	10 12 12 1 4

1501	A facile one step electrostatically driven electrocodeposition of polyviologenEeduced graphene oxide nanocomposite films for enhanced electrochromic performance. 2015 , 89, 53-62	37
1500	PANI/graphene nanocomposite films with high thermoelectric properties by enhanced molecular ordering. 2015 , 3, 7086-7092	170
1499	Grafting of Polyimide onto Chemically-Functionalized Graphene Nanosheets for Mechanically-Strong Barrier Membranes. 2015 , 27, 2040-2047	53
1498	Enhancing the Efficiency and Charge Transport Characteristics of Dye-Sensitized Solar Cells by Adding Graphene Nanosheets to TiO2 Working Electrodes. 2015 , 165, 356-364	15
1497	Poly(3-hexylthiophene)graphene composite-based aligned nanofibers for high-performance field effect transistors. 2015 , 3, 4290-4296	23
1496	Easy preparation of graphene-based conducting polymer composite via organogel. 2015 , 293, 1635-1645	8
1495	Chemically edge-connected multilayer graphene-based architecture with enhanced thermal stability and dispersibility: experimental evidence of making the impossible possible. 2015 , 5, 3954-3958	17
1494	Development of new graphene oxide incorporated tricomponent scaffolds with polysaccharides and hydroxyapatite and study of their osteoconductivity on MG-63 cell line for bone tissue engineering. 2015 , 5, 41135-41143	34
1493	Identical steady tribological performance of graphene-oxide-strengthened polyurethane/epoxy interpenetrating polymer networks derived from graphene nanosheet. 2015 , 64, 62-68	34
1492	Synthesis of graphene oxide dots for excitation-wavelength independent photoluminescence at high quantum yields. 2015 , 3, 4553-4562	33
1491	Ultra-high dispersion of graphene in polymer composite via solvent free fabrication and functionalization. 2015 , 5, 9141	83
1490	The synergistic mechanism of thermally reduced graphene oxide and antioxidant in improving the thermo-oxidative stability of polypropylene. 2015 , 89, 340-349	34
1489	Synergy in hybrid polymer/nanocarbon composites. A review. 2015 , 73, 204-231	181
1488	Influence of graphene oxide coatings on carbon fiber by ultrasonically assisted electrophoretic deposition on its composite interfacial property. 2015 , 272, 176-181	68
1487	Effects of functionalised reduced graphene oxide on frictional and wear properties of epoxy resin. 2015 , 19, 97-106	32
1486	One-pot facile synthesis of platinum nanoparticle decorated reduced graphene oxide composites and their application in electrochemical detection of rutin. 2015 , 7, 3581-3586	21
1485	Nucleation ability of thermally reduced graphene oxide for polylactide: role of size and structural integrity. 2015 , 119, 4777-87	17
1484	Stimuli responsive carbon nanocomposite hydrogels with efficient conducting properties as a precursor to bioelectronics. 2015 , 90, 25-35	5

1483	Chemical versus electrochemical synthesis of carbon nano-onion/polypyrrole composites for supercapacitor electrodes. 2015 , 21, 5783-93	45
1482	Synthesis of Hybrid Nanocomposites Based on Polyhedral Oligomeric Silsesquioxane Using Atom Transfer Radical Polymerization. 2015 , 190, 200-207	
1481	Inhibiting the Corrosion-Promotion Activity of Graphene. 2015 , 27, 2367-2373	198
1480	Three-Dimensional, Chemically Bonded Polypyrrole/Bacterial Cellulose/Graphene Composites for High-Performance Supercapacitors. 2015 , 27, 7034-7041	133
1479	Fabrication and characterization of a polysulfone-graphene oxide nanocomposite membrane for arsenate rejection from water. 2015 , 13, 61	130
1478	Poly(sodium 4-styrenesulfonate) modified graphene for reinforced biodegradable poly(Etaprolactone) nanocomposites. 2015 , 5, 73146-73154	20
1477	Graphene oxide grafted carbon fiber reinforced siliconborocarbonitride ceramics with enhanced thermal stability. 2015 , 95, 157-165	58
1476	Tuning the Electronic Properties of Robust Bio-Bond Graphene Papers by Spontaneous Electrochemical Reduction: From Insulators to Flexible Semi-Metals. 2015 , 27, 6717-6729	21
1475	Ultrathin Two-Dimensional Nanomaterials. 2015 , 9, 9451-69	1342
1474	A Change of Phase Morphology in Poly Lactic Acid/Poly Methyl Methacrylate Blends Induced by Graphene Nano Sheets. 2015 , 54, 1466-1478	4
1473	Solvent Exchange to Exfoliate Graphene Oxides into Epoxy with Improved Mechanical and Thermal Properties. 2015 , 1110, 69-72	
1472	Assessing the role of graphene content in the electromagnetic response of graphene polymer nanocomposites. 2015 , 88, 1	19
1471	Synthesis of graphene-based polymeric nanocomposites. 2015 , 133-155	3
	Synthesis of graphicite based polymeric flanocomposites. 2013, 133-133	<i>J</i>
1470	Polyvinylidene fluoride/nickel composite materials for charge storing, electromagnetic interference absorption, and shielding applications. 2015 , 117, 224903	54
1470 1469	Polyvinylidene fluoride/nickel composite materials for charge storing, electromagnetic	
1469	Polyvinylidene fluoride/nickel composite materials for charge storing, electromagnetic interference absorption, and shielding applications. 2015 , 117, 224903 Mechanical properties of graphene nanoplatelet/carbon fiber/epoxy hybrid composites: Multiscale	54
1469	Polyvinylidene fluoride/nickel composite materials for charge storing, electromagnetic interference absorption, and shielding applications. 2015, 117, 224903 Mechanical properties of graphene nanoplatelet/carbon fiber/epoxy hybrid composites: Multiscale modeling and experiments. 2015, 95, 100-112	54 146

1465 Surface-Initiated Anionic Polymerization from Nanomaterials. 2015 , 495-537	2
WITHDRAWN: Optical properties of transparent and conductive composite layers of nanosilver intercalated graphene embedded poly(vinyl chloride). 2015 ,	1
Design and fabrication of hollow and filled graphene-based polymeric spheres via coreBhell electrospraying. 2015 , 5, 91147-91157	19
Covalent modification of graphene as a 2D nanofiller for enhanced mechanical performance of poly(glutamate) hybrid gels. 2015 , 5, 86407-86413	10
Structure-reinforcement correlation and chain dynamics in graphene oxide and Laponite-filled epoxy nanocomposites. 2015 , 50, 7458-7472	16
Spectral analysis of lamellae evolution and constraining effects aided by nano-carbons: A couple experimental and simulation study. 2015 , 75, 187-198	od 11
Exploring the high k dielectric behavior of bio-carbon reinforced cyanate ester nanocomposites. 2015 , 39, 8739-8751	6
Effect of cellulose solubility on the thermal and mechanical properties of regenerated cellulose/graphene nanocomposites based on ionic liquid 1-allyl-3-methylimidazoliun chloride. 2015 , 5, 76302-76308	12
1457 Epoxy/graphene nanocomposites (processing and properties: a review. 2015 , 5, 73510-73524	146
1456 Graphene/elastomer nanocomposites. 2015 , 95, 460-484	230
Wet-chemical synthesis and applications of non-layer structured two-dimensional nanomaterials 2015 , 6, 7873	s. 425
1454 Highly conductive interconnected graphene foam based polymer composite. 2015 , 95, 653-658	61
1453 Polymer Nanoparticle Assemblies: A Versatile Route to Functional Mesostructures. 2015 , 48, 635	53-6368 ₄₇
1453 Polymer Nanoparticle Assemblies: A Versatile Route to Functional Mesostructures. 2015 , 48, 635	
Graphene-CNTs into Neuron-Synapse Like Configuration a New Class of Hybrid Nanocomposites 2015, 1119, 116-120	
Graphene-CNTs into Neuron-Synapse Like Configuration a New Class of Hybrid Nanocomposites	. 19
Graphene-CNTs into Neuron-Synapse Like Configuration a New Class of Hybrid Nanocomposites 2015 , 1119, 116-120 Insight into effect of hydrothermal preparation process of nanofillers on dielectric, creep and electromechanical performance of polyurethane dielectric elastomer/reduced graphene oxide	
Graphene-CNTs into Neuron-Synapse Like Configuration a New Class of Hybrid Nanocomposites 2015, 1119, 116-120 Insight into effect of hydrothermal preparation process of nanofillers on dielectric, creep and electromechanical performance of polyurethane dielectric elastomer/reduced graphene oxide composites. 2015, 26, 10164-10171	19 104

1447	Polymer-Grafted Nanoparticles with Precisely Controlled Structures. 2015 , 4, 1067-1071	20
1446	Towards development of a versatile and efficient strategy for fabrication of GO based polymer nanocomposites. 2015 , 6, 7211-7218	50
1445	Preparing of Heatable, CNT-Functionalized Polymer Membranes for Application in Textile Composites. 2015 , 825-826, 67-74	О
1444	Mechanical and photothermal shape memory properties of in-situ polymerized hyperbranched polyurethane composites with functionalized graphene. 2015 , 16, 1766-1771	10
1443	Heat transfer through metal-graphene interfaces. 2015 , 5, 077142	18
1442	A molecular dynamics study on thermal and mechanical properties of grapheneparaffin nanocomposites. 2015 , 5, 82638-82644	40
1441	Graphene oxide and graphene flakes as stabilizers and dispersing aids. 2015 , 20, 454-464	31
1440	Enhanced mechanical properties of epoxy nanocomposites based on graphite oxide with amine-rich surface. 2015 , 5, 98472-98481	24
1439	Copper Phthalocyanine Oligomer Noncovalent Functionalized Graphene-Polyurethane Dielectric Elastomer Composites for Flexible Micro-Actuator. 2015 , 13, 210-218	17
1438	Dielectric properties and electrical conductivity of flat micronic graphite/polyurethane composites. 2015 , 10, 012511	4
1437	Surface functionalization of GO, preparation and characterization of PVA/TRIS-GO nanocomposites. 2015 , 81, 140-150	48
1436	Graphene/polyurethane composites: fabrication and evaluation of electrical conductivity, mechanical properties and cell viability. 2015 , 5, 98762-98772	39
1435	Electrochemical performance of reduced graphene oxide surface-modified with 9-anthracene carboxylic acid. 2015 , 5, 6443-6451	27
1434	Three-dimensional graphene-based composites for energy applications. 2015 , 7, 6924-43	211
1433	Enhanced Mechanical Properties of Multi-layer Graphene Filled Poly(vinyl chloride) Composite Films. 2015 , 31, 340-344	41
1432	Functionalized graphene sheets filled isotactic polypropylene nanocomposites. 2015 , 71, 175-183	65
1431	Preparation and application of magnetic graphene oxide coated with a modified chitosan pH-sensitive hydrogel: an efficient biocompatible adsorbent for catechin. 2015 , 5, 9396-9404	35
1430	Grafting of polymers onto graphene oxide by cationic and anionic polymerization initiated by the surface-initiating groups. 2015 , 22, 25-37	7

1429	Surface modification of graphene and graphite by nitrogen plasma: Determination of chemical state alterations and assignments by quantitative X-ray photoelectron spectroscopy. 2015 , 84, 185-196	125
1428	Thermal conductivity of graphene nanoplatelets filled composites fabricated by solvent-free processing for the excellent filler dispersion and a theoretical approach for the composites containing the geometrized fillers. 2015 , 69, 219-225	77
1427	Investigation of graphene nanosheets as counter electrodes for efficient dye-sensitized solar cells. 2015 , 17, 57-65	26
1426	Recent advances in chemical modifications of graphene. 2015 , 8, 1039-1074	154
1425	Assessment of graphene oxide/epoxy nanocomposite as corrosion resistance coating on carbon steel. 2015 , 50, 509-516	65
1424	Improving the through-thickness thermal and electrical conductivity of carbon fibre/epoxy laminates by exploiting synergy between graphene and silver nano-inclusions. 2015 , 69, 72-82	144
1423	Graphene oxide (GO) nanosheets as oil-in-water emulsion stabilizers: influence of oil phase polarity. 2015 , 442, 67-74	80
1422	Tailoring the interface of an immiscible polymer blend by a mutually miscible homopolymer grafted onto graphene oxide: outstanding mechanical properties. 2015 , 17, 1811-21	51
1421	Facile synthesis of bacterial cellulose fibres covalently intercalated with graphene oxide by one-step cross-linking for robust supercapacitors. 2015 , 3, 1011-1017	75
1420	Spark plasma sintering of graphene reinforced hydroxyapatite composites. 2015 , 41, 3647-3652	34
1419	Bioactive hydroxyapatite/graphene composite coating and its corrosion stability in simulated body fluid. 2015 , 624, 148-157	138
1418	A coarse-grained model for the mechanical behavior of multi-layer graphene. 2015 , 82, 103-115	118
1417	Characterisation of reduced graphene oxide: Effects of reduction variables on electrical conductivity. 2015 , 193, 49-60	199
1416	Thermal analysis of epoxy-based nanocomposites: Have solvent effects been overlooked?. 2015 , 119, 797-805	9
1415	A review on carbon nanotubes and graphene as fillers in reinforced polymer nanocomposites. 2015 , 21, 11-25	916
1414	Covalently intercalated graphene oxide for oilwater separation. 2015 , 82, 264-272	37
1413	Functional graphene nanosheets: The next generation membranes for water desalination. 2015 , 356, 208-225	264
1412	Graphene-Directed Supramolecular Assembly of Multifunctional Polymer Hydrogel Membranes. 2015 , 25, 126-133	62

1411	Poly(9-vinylcarbazole)graphene oxide composite field-effect transistors with enhanced mobility. 2015 , 16, 186-194	28
1410	High-performance towards Cr(VI) removal using multi-active sites of polypyrrolegraphene oxide nanocomposites: Batch and column studies. 2015 , 262, 921-931	87
1409	Reinforcing polyamide 1212 with graphene oxide via a two-step melt compounding process. 2015 , 69, 115-123	28
1408	Graphene-based materials: Synthesis and gas sorption, storage and separation. 2015 , 69, 1-60	493
1407	Graphene/silk fibroin based carbon nanocomposites for high performance supercapacitors. 2015 , 3, 773-781	61
1406	Graphene/thermoplastic polyurethane nanocomposites: Surface modification of graphene through oxidation, polyvinyl pyrrolidone coating and reduction. 2015 , 68, 264-275	48
1405	Modification of epoxy resins with functional silanes, polysiloxanes, silsesquioxanes, silica and silicates. <i>Progress in Polymer Science</i> , 2015 , 41, 67-121	267
1404	Nanoindentation in polymer nanocomposites. 2015 , 67, 1-94	246
1403	Nonlocal longitudinal vibration of viscoelastic coupled double-nanorod systems. 2015 , 49, 183-196	42
1402	Molecularly engineered graphene surfaces for sensing applications: A review. 2015 , 859, 1-19	169
1401	Preparation and thermomechanical characterisation of graphene nanoplatelets/low-density polyethylene composites. 2015 , 28, 745-761	4
1400	Facile preparation, characterization and performance of noncovalently functionalized graphene/epoxy nanocomposites with poly(sodium 4-styrenesulfonate). 2015 , 68, 1-9	49
1399	Mechanical property and structure of covalent functionalised graphene/epoxy nanocomposites. 2014 , 4, 4375	352
1398	Electrical properties of polymer nanocomposites containing rod-like nanofillers. <i>Progress in Polymer Science</i> , 2015 , 40, 63-84	186
1397	Processing of graphene nanoribbon based hybrid composite for electromagnetic shielding. 2015 , 69, 472-477	109
1396	Two-dimensional transition metal dichalcogenide nanosheet-based composites. 2015 , 44, 2713-31	1191
1395	Graphene and carbon nanotube (GNT)-reinforced alumina nanocomposites. 2015 , 35, 179-186	98
1394	Effect of Nanographene on Physical, Mechanical, and Thermal Properties and Morphology of Nanocomposite Made of Recycled High Density Polyethylene and Wood Flour. 2016 , 12,	3

1393	. 2016,	16
1392	Morphological, Mechanical and Thermal Properties of Chemically Bonded Graphene Oxide Nanocomposites with Biodegradable Poly(3-hydroxybutyrate) by Solution Intercalation. 2016 , 24, 133-141	9
1391	Carbon Nanotube and Graphene Based Polyamide Electrospun Nanocomposites: A Review. 2016 , 2016, 1-16	30
1390	Synthesis of Graphene-Based Nanocomposite and Investigations of Its Thermal and Electrical Properties. 2016 , 2016, 1-9	7
1389	Polyurethane Nanocomposites Containing Reduced Graphene Oxide, FTIR, Raman, and XRD Studies. 2016 , 2016, 1-6	86
1388	Electrochemical Detection of Phenanthrene Using Nickel Oxide Doped PANI Nanofiber Based Modified Electrodes. 2016 , 2016, 1-12	9
1387	Thermal and Mechanical Properties of Microporous Polyurethanes Modified with Reduced Graphene Oxide. 2016 , 2016, 1-8	9
1386	Electrospun Graphene Oxide-Based Nanofibres. 2016 ,	9
1385	Graphene Materials to Remove Organic Pollutants and Heavy Metals from Water: Photocatalysis and Adsorption. 2016 ,	6
1384	Polymer Nanocomposites-A Comparison between Carbon Nanotubes, Graphene, and Clay as Nanofillers. 2016 , 9,	413
1383	Doping Effect of Graphene Nanoplatelets on Electrical Insulation Properties of Polyethylene: From Macroscopic to Molecular Scale. 2016 , 9,	16
1382	Enhancing the Hydrophilicity and Cell Attachment of 3D Printed PCL/Graphene Scaffolds for Bone Tissue Engineering. 2016 , 9,	163
1381	Conductive Elastomers for Stretchable Electronics, Sensors and Energy Harvesters. 2016 , 8,	63
1380	Mechanical, Thermal, and Electrical Properties of Graphene-Epoxy Nanocomposites-A Review. 2016 , 8,	183
1379	Synthesis of Polyaniline-Coated Graphene Oxide@SrTiOlNanocube Nanocomposites for Enhanced Removal of Carcinogenic Dyes from Aqueous Solution. 2016 , 8,	70
1378	Covalently Functionalized Nano-Graphene Oxide for Fine Chemical Synthesis. 2016,	2
1377	. 2016,	8
1376	Effect of Dodecyal Amine Functionalized Graphene on the Mechanical and Thermal Properties of Epoxy-Based Composites. 2016 , 56, 1221-1228	22

1375	In situ fast polymerization of graphene nanosheets-filled poly(methyl methacrylate) nanocomposites. 2016 , 133, n/a-n/a	3
1374	Improvement in Mechanical Properties and Electromagnetic Interference Shielding Effectiveness of PVA-Based Composites: Synergistic Effect Between Graphene Nano-Sheets and Multi-Walled Carbon Nanotubes. 2016 , 301, 199-211	30
1373	Mechanical and Thermal Properties of Thermoset@raphene Nanocomposites. 2016 , 301, 231-259	41
1372	Preparation of polyethylene/lignin nanocomposites from hollow spherical lignin-supported vanadium-based ZieglerNatta catalyst. 2016 , 27, 1351-1354	15
1371	Influence of surface properties of graphene oxide/carbon fiber hybrid fiber by oxidative treatments combined with electrophoretic deposition. 2016 , 48, 212-217	11
1370	Transparent Polyimide Film with Improved Water and Oxygen Barrier Property by In-Situ Exfoliating Graphite . 2016 , 18, 582-590	16
1369	Graphene Films Using a Thermally Curable Surfactant. 2016 , 3, 1600182	14
1368	Synthesis and properties of click coupled graphene oxide sheets with three-dimensional macromolecules. 2016 , 133, n/a-n/a	5
1367	Bioinspired Interface Engineering in Elastomer/Graphene Composites by Constructing Sacrificial Metal-Ligand Bonds. 2016 , 37, 1040-5	62
1366	The cluster architecture of carbon in polymer nanocomposites observed by impulse acoustic microscopy. 2016 , 253, 1952-1959	18
1365	Multilayer graphene/chlorine-isobutene-isoprene rubber nanocomposites: the effect of dispersion. 2016 , 27, 872-881	20
1364	Sound absorption of electrospun polyvinylidene fluoride/graphene membranes. 2016 , 82, 35-45	46
1363	Polymer/Graphene Hybrids for Advanced Energy-Conversion and -Storage Materials. 2016 , 11, 1151-68	26
1362	Graphene oxide incorporated novel polyvinyl alcohol composite membrane for pervaporative recovery of acetic acid from vinegar wastewater. 2016 , 14, 124-134	26
1361	Synergistic Effects in Thermoplastic Polyurethanes Incorporating Hybrid Carbon Nanofillers. 2016 , 31, 554-561	7
1360	Influence of the Polymeric Matrix and Thermal Treatment on the Properties of Polyolefin-Graphite Nanosheets Nanocomposites. 2016 , 301, 1503-1512	3
1359	LLDPE/Graphene Nano-composites: Synthesis and Characterization. 2016,	
1358	. 2016,	

1357	Steady-shear rheological properties of graphene-reinforced epoxy resin for manufacturing of aerospace composite films. 2016 ,	6
1356	A comprehensive study of surface modified graphene based polymer nanocomposites for multifunctional electronic applications. 2016 ,	1
1355	Micromechanics Modelling of Graphene Platelets Reinforced Polymer Composite Materials With Imperfect Interfaces. 2016 ,	
1354	Synthesis and Characterization of the PVDF-BTO Nanocomposites with the Employment of RGO Sheets for Flexible Energy harvesters. 2016 , 168, 1074-1077	2
1353	Infrared laser ablation of polymeric nanocomposites: A study of surface structure and plume formation. 2016 , 120, 225103	2
1352	Mechanical properties of polymer composites reinforced by functionalized graphene prepared via direct exfoliation of graphite flakes in styrene. 2016 , 6, 112486-112492	17
1351	A theory of electrical conductivity, dielectric constant, and electromagnetic interference shielding for lightweight graphene composite foams. 2016 , 120, 085102	41
1350	Hybridization of graphene-reinforced two polymer nanocomposites. 2016 , 7, 179-201	20
1349	Investigation of mechanical behavior of single- and multi-layer graphene by using molecular dynamics simulation. 2016 , 17, 1693-1701	14
1348	Enhanced mechanical performance of cement nanocomposite reinforced with graphene oxide synthesized from mechanically milled graphite and its comparison with carbon nanotubes reinforced nanocomposite. 2016 , 6, 103993-104009	21
1347	Improving the mechanical, thermal and electrical properties of polyurethane- graphene oxide nanocomposites synthesized by in-situ polymerization of ester-based polyol with hexamethylene diisocyanate. 2016 , 23, 1	11
1346	Reinforcement of graphene in natural rubber nanocomposite. 2016 ,	4
1345	WITHDRAWN: Verification of the changes in the structural and physical properties of PU/PEO embedded with graphene oxide. 2016 ,	1
1344	Improved Nanofiller-Matrix Bonding and Distribution in GnP-reinforced Polymer Nanocomposites by Surface Plasma Treatments of GnP. 2016 , 171-189	
1343	Poly dimethylsiloxane/carbon nanofiber nanocomposites: fabrication and characterization of electrical and thermal properties. 2016 , 7, 236-247	18
1342	Influence of thermal treatment time on structural and physical properties of polyimide films at beginning of carbonization. 2016 , 129, 399-407	8
1341	Filler-Reinforced Elastomers Based on Functional Polyolefin Prepolymers. 2016 , 55, 6106-6112	8
1340	Preparation and property of UV-curable polyurethane acrylate film filled with cationic surfactant treated graphene. 2016 , 379, 433-439	18

1339	Co-curing effect of imidazole grafting graphene oxide synthesized by one-pot method to reinforce epoxy nanocomposites. 2016 , 128, 161-168	48
1338	Properties of Pristine Graphene Composites Arising from the Mechanism of Graphene-Stabilized Emulsion Formation. 2016 , 55, 6777-6782	20
1337	Amino acids functionalized graphene oxide for enhanced hydrophilicity and antifouling property of poly(vinylidene fluoride) membranes. 2016 , 34, 805-819	20
1336	Towards large scale preparation of graphene in molten salts and its use in the fabrication of highly toughened alumina ceramics. 2016 , 190, 451-70	30
1335	Effect of polyethylene glycol-grafted graphene on the non-isothermal crystallization kinetics of poly(ethylene oxide) and poly(ethylene oxide):lithium perchlorate electrolyte systems. 2016 , 83, 24-34	13
1334	Recent Advances in Nanoclay/Natural Fibers Hybrid Composites. 2016 , 1-28	7
1333	A review of the water barrier properties of polymer/clay and polymer/graphene nanocomposites. 2016 , 514, 595-612	196
1332	Plasticized and Nanofilled Poly(Lactic Acid) Nanocomposites: Mechanical, Thermal and Morphology Properties. 2016 , 846, 429-433	1
1331	An overview of nanocomposite nanofillers and their functionalization. 2016 , 15-64	5
1330	Fluorinated microwave exfoliated graphite oxide: structural features and double layer capacitance. 2016 , 24, 266-272	5
1329	Recent Progress on Ferroelectric Polymer-Based Nanocomposites for High Energy Density Capacitors: Synthesis, Dielectric Properties, and Future Aspects. 2016 , 116, 4260-317	909
1328	Shock response of Cu/graphene nanolayered composites. 2016 , 103, 457-463	58
1327	Improving the drug delivery characteristics of graphene oxide based polymer nanocomposites through the Bne-potsynthetic approach of single-electron-transfer living radical polymerization. 2016 , 378, 22-29	22
1326	Supercapacitive characteristics of carbon-based graphene composites. 2016 , 204, 146-153	24
1325	Multiscale graphene oxideBarbon fiber reinforcements for advanced polyurethane composites. 2016 , 87, 1-9	54
1324	Recent Developments in Epoxy/Graphite, Epoxy/Graphene, and Epoxy/Graphene Nanoplatelet Composites: A Comparative Review. 2016 , 55, 1192-1210	33
1323	In situ thermally reduced graphene oxide/epoxy composites: thermal and mechanical properties. 2016 , 6, 1015-1022	59
1322	A facile approach towards direct transformation of benzoate into graphene under low temperature and study of its electrochemical properties. 2016 , 296, 252-259	3

(2016-2016)

1321	Super-Robust Polylactide Barrier Films by Building Densely Oriented Lamellae Incorporated with Ductile in Situ Nanofibrils of Poly(butylene adipate-co-terephthalate). 2016 , 8, 8096-109	68
1320	Graphene oxide-cationic polymer conjugates: Synthesis and application as gene delivery vectors. 2016 , 84-85, 51-60	31
1319	Mechanical properties of nanocomposites with functionalized graphene. 2016 , 50, 3779-3789	30
1318	Perspectives on Polyvinyl Chloride and Carbon Nanofiller Composite: A Review. 2016 , 55, 1076-1098	7
1317	Polypyrrole-modified graphene sheet nanocomposites as new efficient materials for supercapacitors. 2016 , 105, 510-520	40
1316	Poly (3, 4-ethylene dioxythiophene) laminated reduced graphene oxide composites for effective electromagnetic interference shielding. 2016 , 682, 52-60	33
1315	Recent advances in organicIhorganic well-defined hybrid polymers using controlled living radical polymerization techniques. 2016 , 7, 3950-3976	44
1314	Synthesis of a novel triad hybrid of noncovalent-assembled nickel (II) norcorrole on graphene oxide encapsulated multiwalled carbon nanotubes and its application. 2016 , 204, 84-91	40
1313	Electrochemical and anticorrosion behaviors of hybrid functionalized graphite nano-platelets/tripolyphosphate in epoxy-coated carbon steel. 2016 , 80, 7-22	25
1312	Preparation and properties of nylon 6/sulfonated graphene composites by an in situ polymerization process. 2016 , 6, 45014-45022	15
1312		15
	process. 2016 , 6, 45014-45022	15 41
1311	Thermomechanical Analysis of Polymer Nanocomposites. 2016 , 191-242 Exceptional microwave absorption in soft polymeric nanocomposites facilitated by engineered	
1311	Thermomechanical Analysis of Polymer Nanocomposites. 2016, 191-242 Exceptional microwave absorption in soft polymeric nanocomposites facilitated by engineered nanostructures. 2016, 4, 4954-4966 Low-cycle fatigue properties of basalt fiber and graphene reinforced polyamide 6 hybrid composites. 2016, 35, 1671-1681 Studies on Synthesis of Electrochemically Exfoliated Functionalized Graphene and Polylactic	41
1311 1310 1309	Thermomechanical Analysis of Polymer Nanocomposites. 2016 , 191-242 Exceptional microwave absorption in soft polymeric nanocomposites facilitated by engineered nanostructures. 2016 , 4, 4954-4966 Low-cycle fatigue properties of basalt fiber and graphene reinforced polyamide 6 hybrid composites. 2016 , 35, 1671-1681 Studies on Synthesis of Electrochemically Exfoliated Functionalized Graphene and Polylactic Acid/Ferric Phytate Functionalized Graphene Nanocomposites as New Fire Hazard Suppression	41
1311 1310 1309 1308	Thermomechanical Analysis of Polymer Nanocomposites. 2016, 191-242 Exceptional microwave absorption in soft polymeric nanocomposites facilitated by engineered nanostructures. 2016, 4, 4954-4966 Low-cycle fatigue properties of basalt fiber and graphene reinforced polyamide 6 hybrid composites. 2016, 35, 1671-1681 Studies on Synthesis of Electrochemically Exfoliated Functionalized Graphene and Polylactic Acid/Ferric Phytate Functionalized Graphene Nanocomposites as New Fire Hazard Suppression Materials. 2016, 8, 25552-62 Bio-Applications of Graphene Composites: From Bench to Clinic. 2016, 433-471	41 10 92
1311 1310 1309 1308	Thermomechanical Analysis of Polymer Nanocomposites. 2016, 191-242 Exceptional microwave absorption in soft polymeric nanocomposites facilitated by engineered nanostructures. 2016, 4, 4954-4966 Low-cycle fatigue properties of basalt fiber and graphene reinforced polyamide 6 hybrid composites. 2016, 35, 1671-1681 Studies on Synthesis of Electrochemically Exfoliated Functionalized Graphene and Polylactic Acid/Ferric Phytate Functionalized Graphene Nanocomposites as New Fire Hazard Suppression Materials. 2016, 8, 25552-62 Bio-Applications of Graphene Composites: From Bench to Clinic. 2016, 433-471	41 10 92 9
1311 1310 1309 1308 1307	Thermomechanical Analysis of Polymer Nanocomposites. 2016, 191-242 Exceptional microwave absorption in soft polymeric nanocomposites facilitated by engineered nanostructures. 2016, 4, 4954-4966 Low-cycle fatigue properties of basalt fiber and graphene reinforced polyamide 6 hybrid composites. 2016, 35, 1671-1681 Studies on Synthesis of Electrochemically Exfoliated Functionalized Graphene and Polylactic Acid/Ferric Phytate Functionalized Graphene Nanocomposites as New Fire Hazard Suppression Materials. 2016, 8, 25552-62 Bio-Applications of Graphene Composites: From Bench to Clinic. 2016, 433-471 Graphene Derivatives in Semicrystalline Polymer Composites. 2016, 145-192 CoreEhell rubbery fillers for massive electrical conductivity enhancement and toughening of polystyrenegraphene nanoplatelet composites. 2016, 51, 10555-10560	41 10 92 9

1303	Classification of Nanomaterials and Nanocomposites. 2016 , 5-36	3
1302	Mechanical and Thermal Properties of Hybrid Graphene/Halloysite Nanotubes Reinforced Polyethylene Terepthalate Nanocomposites. 2016 , 309-327	1
1301	Characterizing the structural formation of epoxy-amine networks: The effect of monomer geometry. 2016 , 104, 83-90	8
1300	Graphene Oxide-Based Composite Materials. 2016 , 314-363	7
1299	Cellulosic Graphene Biocomposites for Versatile High-Performance Flexible Electronic Applications. 2016 , 2, 1600245	35
1298	Fabrication of polyethylene/graphene nanocomposites through in situ polymerization with a spherical graphene/MgCl2-supported Ziegler-Natta catalyst. 2016 , 136, 61-66	9
1297	Numerical simulation of thermal conductivity of graphene filled polymer composites. 2016 , 106, 324-331	46
1296	Nanoparticle reinforcement in elastomeric polyethylene composites under tensile tests. 2016 , 107, 97-105	5
1295	Polymer-inorganic hybrid nanoparticles of various morphologies via polymerization-induced self assembly and solgel chemistry. 2016 , 7, 6575-6585	21
1294	Polymer surface adsorption as a strategy to improve the biocompatibility of graphene nanoplatelets. 2016 , 146, 818-24	32
1293	Piezoelectric property of PVDF/graphene composite films using 1H, 1H, 2H, 2H-Perfluorooctyltriethoxysilane as a modifying agent. 2016 , 688, 885-892	44
1292	Atomic-Scale Defects and Impurities in Graphene. 2016 , 39-56	
1291	Graphiteand Graphene Based Nanocomposites. 2016 , 675-706	
1290	Polysaccharide based bionanocomposites, properties and applications: A review. 2016 , 92, 1012-1024	115
1289	High performance polymeric bipolar plate based on polypropylene/graphite/graphene/nano-carbon black composites for PEM fuel cells. 2016 , 99, 867-874	44
1288	Preparation of black phosphorus-PEDOT:PSS hybrid semiconductor composites with good film-forming properties and environmental stability in water containing oxygen. 2016 , 6, 76174-76182	26
1287	Electromagnetic shielding effectiveness and mechanical properties of graphite-based polymeric films. 2016 , 122, 1	17
1286	Biocompatible Hydroxyapatite-Based Composite Coatings Obtained by Electrophoretic Deposition for Medical Applications as Hard Tissue Implants. 2016 , 377-457	3

(2016-2016)

1285	Nanostructured Aptamer-Functionalized Black Phosphorus Sensing Platform for Label-Free Detection of Myoglobin, a Cardiovascular Disease Biomarker. 2016 , 8, 22860-8	164
1284	Effect of graphene nano-platelet morphology on the elastic modulus of soft and hard biopolymers. 2016 , 109, 331-339	38
1283	Chemical Modifications of Graphene via Covalent Bonding. 2016, 207-220	
1282	Study of Transmission, Transport, and Electronic Structure Properties of Periodic and Aperiodic Graphene-Based Structures. 2016 , 471-496	
1281	Simultaneous improvement in the strength and toughness of polypropylene by incorporating hybrid graphene/CaCO3 reinforcement. 2016 , 54, 281-287	18
1280	Static and dynamic behaviour of responsive graphene oxide-poly(N-isopropyl acrylamide) composite gels. 2016 , 12, 7166-73	12
1279	Chemically Converted Graphene Thin Films for Optoelectronic Applications. 2016, 627-638	
1278	Prospects of conducting polymer and graphene as counter electrodes in dye-sensitized solar cells. 2016 , 23, 1	25
1277	Graphene oxide embedded Ehree-phaselinembrane to beat Erade-offlin acid recovery. 2016 , 520, 630-638	23
1276	Recent trends in preparation and application of carbon nanotubegraphene hybrid thin films. 2016 , 7, 033002	27
1275	Solid Fullerenes under Compression. 2016 , 195-208	4
1274	Benzoxazine-functionalized graphene oxide for synthesis of new nanocomposites. 2016 , 83, 244-255	22
1273	Nanoclay Reinforced Polymer Composites. 2016,	24
1272	Graphene Composites. 2016 , 63-111	1
1271	Biomedical and Pharmaceutical Applications of Electrochemistry. 2016,	4
1270	Polyethylene-thermally reduced graphene nanocomposites: comparison of masterbatch and direct melt mixing approaches on mechanical, thermal, rheological, and morphological properties. 2016 , 294, 1659-1670	5
1269	Fabrication and characterization of polymerderamic nanocomposites containing pluronic F127 immobilized on hydroxyapatite nanoparticles. 2016 , 6, 80564-80575	20
1268	Double-Wall Nanotubes and Graphene Nanoplatelets for Hybrid Conductive Adhesives with Enhanced Thermal and Electrical Conductivity. 2016 , 8, 23244-59	43

1267	Nanostructured transparent conductive films: Fabrication, characterization and applications. 2016 , 109, 1-101	78
1266	Chemical modifications of graphene and their influence on properties of polyurethane composites: a review. 2016 , 91, 104003	11
1265	Graphene and Graphene-Based Composites: A Rising Star in Water Purification - A Comprehensive Overview. 2016 , 1, 4358-4385	61
1264	Effect of high molecular weight polyethyleneimine functionalized graphene oxide coated polyethylene terephthalate film on the hydrogen gas barrier properties. 2016 , 106, 316-323	33
1263	X-ray micro computed tomography, segmental relaxation and crystallization kinetics in interfacial stabilized co-continuous immiscible PVDF/ABS blends. 2016 , 101, 291-304	12
1262	Graphene-Based Polymer Composites for Biomedical Applications. 2016 , 657-690	2
1261	Seaweed Polysaccharides Based New Hydrogel Materials: A Green Approach. 2016 , 93-110	0
1260	Nanocomposites: an overview. 2016 , 5, 5-43	19
1259	Synthesis and characterisation of poly(3-hexyl thiophene)-grafted graphene oxide sheets by click chemistry. 2016 , 13, 318	1
1258	Graphene and Graphene Sheets Based Nanocomposites. 2016 , 107-150	1
1257	Viscoelastic response and interlaminar delamination resistance of epoxy/glass fiber/functionalized graphene oxide multi-scale composites. 2016 , 54, 186-195	27
1256	Highly thermally conductive UHMWPE/graphite composites with segregated structures. 2016 , 6, 65709-65713	3 22
1255	Graphene-Based Field Emission Devices. 2016 , 423-436	
1254	Electrically conducting, transparent, graphene based nanocomposite coatings on flexible film substrate. 2016 , 58, 793-800	1
1253	Chitosan/Graphene Oxide Composite as an Effective Adsorbent for Reactive Red Dye Removal. 2016 , 88, 579-88	28
1252	Characterization and Application of Graphene Nanoplatelets in Elastomers. 2016 , 319-360	3
1251	Control of the Crystalline Morphology of Poly(l-lactide) by Addition of High-Melting-Point Poly(l-lactide) and Its Effect on the Distribution of Multiwalled Carbon Nanotubes. 2016 , 120, 7423-37	37
1250	Bio(Sensing) devices based on ferrocenefunctionalized graphene and carbon nanotubes. 2016 , 108, 481-514	97

(2016-2016)

1249	One-step synthesis of soy protein/graphene nanocomposites and their application in photothermal therapy. 2016 , 68, 798-804	16
1248	Vapor phase sensing response of doped polyaniline-poly (vinyl alcohol) composite membrane to different aliphatic alcohols. 2016 , 220, 410-420	8
1247	Synthesis of Group IV Nanowires on Graphene: The Case of Ge Nanocrawlers. 2016 , 16, 5267-72	14
1246	Covalently Grafted Graphene Oxide/Poly(Cn-acrylate) Nanocomposites by Surface-Initiated ATRP: An Efficient Antifriction, Antiwear, and Pour-Point-Depressant Lubricating Additive in Oil Media. 2016 , 55, 8491-8500	22
1245	Carbon Nanofibers: Structure and Fabrication. 2016 , 11-26	5
1244	A hybrid particle-continuum resolution method and its application to a homopolymer solution. 2016 , 225, 1527-1549	5
1243	Studies of RTV silicone rubber nanocomposites based on graphitic nanofillers. 2016 , 56, 369-378	33
1242	Preparation of Bulk Graphene Nanoplatelets by Spark Plasma Sintering Electrical and Thermal Properties. 2016 , 15, 1660003	2
1241	Quantitative Study of Interface/Interphase in Epoxy/Graphene-Based Nanocomposites by Combining STEM and EELS. 2016 , 8, 34151-34158	29
1240	Anisotropic compressive response of StoneIIhrowerIWales defects in graphene: A molecular dynamics study. 2016 , 3, 095015	9
1239	Tailoring the Oxygen Content of Graphite and Reduced Graphene Oxide for Specific Applications. 2016 , 6, 21715	204
1238	Multifunctional 3D printing of heterogeneous hydrogel structures. 2016 , 6, 33178	42
1237	Effect of two types of graphene nanoplatelets on the physicoffnechanical properties of linear lowflensity polyethylene composites. 2016 , 2, 67-73	7
1236	Behavior of protruding lateral plane graphene sheets in liquid dodecane: molecular dynamics simulations. 2016 , 18, 1	5
1235	Superior biomaterials using diamine modified graphene grafted polyurethane. 2016 , 106, 109-119	29
1234	Direct growth of highly dispersed MnCl2🛘4H2O nanostructures with different morphologies on graphene in supercritical CO2. 2016 , 3, 065012	5
1233	Covalent functionalization of reduced graphene oxide with porphyrin by means of diazonium chemistry for nonlinear optical performance. 2016 , 6, 23325	81
1232	Non-covalent functionalisation of carbon-based nanostructures and its application to carbon/epoxy composites. 2016 , 13, 573	1

1231	Chitosan nanocomposites based on distinct inorganic fillers for biomedical applications. 2016 , 17, 626-643	51
1230	Compatibility of Thermally Reduced Graphene with Polyesters. 2016 , 55, 1099-1110	168
1229	Morphological and electrical properties of epoxy-based composites reinforced with exfoliated graphite. 2016 ,	
1228	Latex co-coagulation approach to fabrication of polyurethane/graphene nanocomposites with improved electrical conductivity, thermal conductivity, and barrier property. 2016 , 133, n/a-n/a	15
1227	Synthesis and characterization of MC nylon/modified yttrium hydroxide nanocomposites. 2016 , 133,	7
1226	Epoxygraphite oxide nanocomposites: Mechanical properties. 2016 , 133,	10
1225	High-Performance Multifunctional Graphene-PLGA Fibers: Toward Biomimetic and Conducting 3D Scaffolds. 2016 , 26, 3105-3117	38
1224	Prospects of Supercritical Fluids in Realizing Graphene-Based Functional Materials. 2016 , 28, 2663-91	54
1223	Relationship between microstructure of lamellar graphene sheets and properties of polyimide/graphene nanocomposites film under different imidization stages. 2016 , 133,	4
1222	MWCNT for Enhancing Mechanical Properties of Oil Well Cement for HPHT Applications. 2016,	5
1221	The role of interlayer adhesion in graphene oxide upon its reinforcement of nanocomposites. 2016 , 374, 20150283	18
1220	Enhanced mechanical properties of olefin block copolymer by adding a quaternary ammonium salt functionalized graphene oxide. 2016 , 6, 54785-54792	16
1219	Investigation of poly(l-lactic acid)/graphene oxide composites crystallization and nanopore foaming behaviors via supercritical carbon dioxide low temperature foaming. 2016 , 31, 348-359	15
1218	Modeling of adsorption behavior of the amine-rich GOPEI aerogel for the removal of As(III) and As(V) from aqueous media. 2016 , 6, 56684-56697	20
1217	Enhancing the mechanical and thermal properties of boron nitride nanoplatelets/elastomer nanocomposites by latex mixing. 2016 , 6, 59970-59975	37
1216	Scrutinizing the properties of functionalized graphene based polymer nanocomposites for electronic devices. 2016 , 3, 2352-2357	3
1215	Effects of process parameters and surface treatments of graphene nanoplatelets on the crystallinity and thermomechanical properties of polyamide 6 composite fibers. 2016 , 100, 220-227	35
1214	Optimization of mechanical properties of polypropylene/talc/graphene composites using response surface methodology. 2016 , 53, 283-292	70

Chemical Routes to Graphene Quantum Dots: Photoluminescence Mechanism and Novel 1213 Applications. 2016, 179-194 Effects of Preparation Parameters of a One-Pot Approach on the Conductivity, Structure, and 1212 Chemical Composition of Silver/Reduced-Graphene Oxide Composite. 2016, 55, 4390-4402 Effects of the functionalized graphene oxide on the oxygen barrier and mechanical properties of 1211 23 layer-by-layer assembled films. 2016, 92, 307-314 Electrically conductive functionalized-GNP/epoxy based composites: From nanocomposite to 1210 41 multiscale glass fibre composite material. 2016, 98, 49-55 1209 Applications of Graphene in Tissue Engineering. 2016, 371-382 On the overall viscoelastic behavior of graphene/polymer nanocomposites with imperfect 1208 28 interface. 2016, 105, 38-55 Phthalonitrile end-capped polyarylene ether nitrile nanocomposites with Cu2+ bridged carbon 18 1207 nanotube and graphene oxide network. **2016**, 178, 312-315 Epitaxial crystallization of precisely fluorine substituted polyethylene induced by carbon nanotube 1206 10 and reduced graphene oxide. 2016, 83, 205-213 Influence of oxidized graphene nanoplatelets and [DMIM][NTf2] ionic liquid on the tribological 1205 2.2 performance of an epoxy-PTFE coating. 2016, 97, 478-489 Investigating thermal conductivities of functionalized graphene and graphene/epoxy 47 nanocomposites. 2016, 122, 272-280 Effect of multi-walled carbon nanotube (MWCNT) concentration on thermomechanical reliability of 1203 2 MWCNT-reinforced solderable isotropic polymer nanocomposites. 2016, 27, 9159-9171 Vibration analysis of orthotropic circular and elliptical nano-plates embedded in elastic medium 1202 10 based on nonlocal Mindlin plate theory and using Galerkin method. 2016, 30, 2463-2474 Mechanical, thermal, and morphological properties of graphene reinforced 1201 34 polycarbonate/acrylonitrile butadiene styrene nanocomposites. 2016, 37, 1633-1640 Effect of reduced graphene oxide functionalization by sulfanilic acid on the mechanical properties of poly(styrene-co-acrylonitrile)/reduced graphene oxide composites. 2016, 37, 44-50 Synthesis of functionalized graphene oxide nanoflakes using silane coupling agents: Reinforcement 1199 7 of cyanate ester/bismaleimide nanocomposites. 2016, 28, 147-155 Effects of functionalized graphene nanoplatelets on the morphology and properties of epoxy 1198 24 resins. 2016, 28, 525-536 Preparation of economical and environmentally friendly graphene/palygorskite/TiO2 composites 1197 24 and its application for the removal of methylene blue. 2016, 121-122, 137-145 1196 Graphene-philic surfactants for nanocomposites in latex technology. 2016, 230, 54-69 28

1195	Self-stabilized polyaniline@graphene aqueous colloids for the construction of assembled conductive network in rubber matrix and its chemical sensing application. 2016 , 125, 1-8	39
1194	Recoverable Slippage Mechanism in Multilayer Graphene Leads to Repeatable Energy Dissipation. 2016 , 10, 1820-8	89
1193	Preparation and enhanced mechanical properties of non-covalently-functionalized graphene oxide/cellulose acetate nanocomposites. 2016 , 90, 223-231	59
1192	Polyethylene/graphene nanocomposites: effect of molecular weight on mechanical, thermal, rheological and morphological properties. 2016 , 294, 691-704	15
1191	Nylon 6,6/graphene nanoplatelet composite films obtained from a new solvent. 2016 , 6, 6823-6831	45
1190	Non-covalent Functionalization of CNT and Graphene and Its Application to Hybrid Carbon/Epoxy Composites. 2016 ,	1
1189	Kinetic, isotherm and thermodynamic studies for removal of methyl orange using a novel Ecyclodextrin functionalized graphene oxide-isophorone diisocyanate composites. 2016 , 106, 168-177	46
1188	Mechanical properties investigation of bilayer graphene/poly(methyl methacrylate) thin films at macro, micro and nanoscale. 2016 , 100, 355-366	18
1187	Eco-friendly production of high quality low cost graphene and its application in lithium ion batteries. 2016 , 18, 1952-1964	62
1186	High stiffness nano-composite fibres from polyvinylalcohol filled with graphene and boron nitride. 2016 , 99, 280-288	33
1185	Preparation and properties of graphene nanosheets/carbon foam composites. 2016 , 117, 290-295	13
1184	Influence of Graphite Filler on Physicochemical Characteristics of Polymer/Graphite Composites: A Review. 2016 , 55, 604-625	13
1183	Physical properties of carboxymethyl cellulose based nano-biocomposites with Graphene nano-platelets. 2016 , 84, 16-23	39
1182	Functional graphene nanoflakes/cyanate/epoxy nanocomposites: mechanical, dielectric and thermal properties. 2016 , 25, 69-77	10
1181	Experimental and analytical model for the electrical conductivity of polymer-based nanocomposites. 2016 , 123, 17-31	116
1180	PVA/polyethyleneimine-functionalized graphene composites with optimized properties. 2016 , 99, 235-242	68
1179	Surface modified graphene oxide/poly(vinyl alcohol) composite for enhanced hydrogen gas barrier film. 2016 , 50, 49-56	41
1178	Biomimetic jellyfish-like PVA/graphene oxide nanocomposite hydrogels with anisotropic and pH-responsive mechanical properties. 2016 , 51, 5901-5911	32

1177	The effect of reduced graphene oxide on the dielectric and ferroelectric properties of PVDF B aTiO3 nanocomposites. 2016 , 6, 30747-30754	46
1176	Thermal conductivity of metal-graphene composites. 2016 , 99, 163-173	96
1175	Effect of Graphitic Nanosheets on the Physical Properties of Cyclic Olefin Copolymer Composite Films. 2016 , 55, 1021-1029	2
1174	The Synthesis, Properties, and Applications of Heteroatom-Doped Graphenes. 2016 , 103-133	3
1173	Shear-induced orientation of functional graphene oxide sheets in isotactic polypropylene. 2016 , 51, 5185-519	529
1172	Novel green nano composites films fabricated by indigenously synthesized graphene oxide and chitosan. 2016 , 146, 131-8	48
1171	A facile assembly of polyimide/graphene corelinell structured nanocomposites with both high electrical and thermal conductivities. 2016 , 84, 472-481	49
1170	Nondestructive evaluation of graphene-based strain sensor using Raman analysis and Raman mapping. 2016 , 36, 649-653	O
1169	Crystallization Behavior of Poly(sodium 4-styrenesulfonate)-Functionalized Carbon Nanotubes Filled Poly(Ecaprolactone) Nanocomposites. 2016 , 55, 1881-1889	11
1168	Synthesis and characterization of graphene oxide filled ethylene methyl acrylate hybrid nanocomposites. 2016 , 6, 20781-20790	89
1167	Graphene Based Functional Hybrid Nanostructures: Preparation, Properties and Applications. 2016 , 842, 53-75	8
1166	Incorporation of graphene nanosheets into cellulose aerogels: enhanced mechanical, thermal, and oil adsorption properties. 2016 , 122, 1	13
1165	Preparation and properties of acrylic resin coating modified by functional graphene oxide. 2016 , 368, 378-387	73
1164	Synergic effect of graphene and MWCNT fillers on electromagnetic shielding properties of grapheneMWCNT/ABS nanocomposites. 2016 , 6, 18257-18265	21
1163	An electrochemical sensor based on graphene/poly(brilliant cresyl blue) nanocomposite for determination of epinephrine. 2016 , 763, 25-31	38
1162	Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)-assisted synthesis of graphene/polyaniline composites as high-performance supercapacitor electrodes. 2016 , 51, 1966-1977	36
1161	Fabrication and Characterization of Graphene/Graphene Oxide-Based Poly(vinyl alcohol) Nanocomposite Membranes. 2016 , 45, 2341-2346	7
1160	Determination of glass transition temperature of reduced graphene oxide-poly(vinyl alcohol) composites using temperature dependent Fourier transform infrared spectroscopy. 2016 , 1111, 46-54	30

1159	New photodiodes based graphene-organic semiconductor hybrid materials. 2016 , 213, 47-56	31
1158	Engineering of graphene/epoxy nanocomposites with improved distribution of graphene nanosheets for advanced piezo-resistive mechanical sensing. 2016 , 4, 3422-3430	48
1157	Molecular dynamics study on the mechanical response and failure behaviour of graphene: performance enhancement via 5000 defects. 2016 , 6, 26361-26373	19
1156	Graphite Nanosheet as Low Shrinkage Additive, Curing Accelerator, and Conducting Filler for Unsaturated Polyester Resin. 2016 , 55, 1231-1239	6
1155	Synthesis and characterization of poly(ethylene tetrasulfide)/graphene oxide nanocomposites by in situ polymerization method. 2016 , 37, 328-339	7
1154	Recent membrane development for pervaporation processes. <i>Progress in Polymer Science</i> , 2016 , 57, 1-31 ₂ 9.6	318
1153	Investigation of the effects of graphene and graphene oxide nanoplatelets on the micro- and macro-properties of cementitious materials. 2016 , 106, 102-114	130
1152	Poly(vinyl alcohol) nanocomposites containing reduced graphene oxide coated with tannic acid for humidity sensor. 2016 , 84, 89-98	60
1151	Functionalised graphene-multiwalled carbon nanotube hybrid poly(styrene-b-butadiene-b-styrene) nanocomposites. 2016 , 90, 315-325	44
1150	Mixed matrix proton exchange membranes for fuel cells: State of the art and perspectives. <i>Progress in Polymer Science</i> , 2016 , 57, 103-152	203
1149	Study of the Effect of Matrix, Fibre Treatment and Graphene on Delamination by Drilling Jute/Epoxy Nanohybrid Composite. 2016 , 41, 1883-1894	30
1148	Water soluble polyhedral oligomeric silsesquioxane based amphiphilic hybrid polymers: Synthesis, self-assembly, and applications. 2016 , 75, 67-92	26
1147	Silicon dioxide@graphene oxide-graft-poly(Ebenzyl-L-glutamate) as an advanced hybrid nanofiller reinforces poly(L-lactide). 2016 , 6, 5688-5694	4
1146	Corrosion Resistance of Graphene-Reinforced Waterborne Epoxy Coatings. 2016 , 32, 425-431	192
1145	Influence of graphene nanoplatelets on curing and mechanical properties of graphene/epoxy nanocomposites. 2016 , 125, 629-636	38
1144	A highly sensitive electrochemical biosensor for catechol using conducting polymer reduced graphene oxide-metal oxide enzyme modified electrode. 2016 , 84, 112-9	75
1143	Enhancement of the crosslink density, glass transition temperature, and strength of epoxy resin by using functionalized graphene oxide co-curing agents. 2016 , 7, 36-43	72
1142	Surface Adsorbed Reduced Graphene Oxide on Nylon-6 via Vacuum-Assisted Self-Assembly for Chemiresistor Sensing of Trimethylamine. 2016 , 16, 1880-1886	1

1141	Carbon Containing Nanostructured Polymer Blends. 2016 , 187-213	1
1140	Enhanced electromagnetic interference shielding effectiveness of polycarbonate/graphene nanocomposites foamed via 1-step supercritical carbon dioxide process. 2016 , 90, 906-914	64
1139	Effects of functionalized graphenes on the isothermal crystallization of poly(L-lactide) nanocomposites. 2016 , 34, 111-121	21
1138	Gas barrier performance of graphene/polymer nanocomposites. 2016 , 98, 313-333	387
1137	Microwave-assisted synthesis of reduced graphene oxide/titania nanocomposites as an adsorbent for methylene blue adsorption. 2016 , 360, 840-848	83
1136	Local mechanical properties of graphene/polyethylene-based nanocomposites by depth-sensing indentation. 2016 , 74, 120-129	19
1135	A review of graphene oxide, graphene buckypaper, and polymer/graphene composites: Properties and fabrication techniques. 2016 , 32, 336-379	62
1134	Effects of graphene content on the microstructure and properties of copper matrix composites. 2016 , 96, 836-842	2 80
1133	Graphene oxide (GO) enhanced polyamide (PA) thin-film nanocomposite (TFN) membrane for water purification. 2016 , 379, 93-101	361
1132	Hexylamine functionalized reduced graphene oxide/polyurethane nanocomposite-coated nylon for enhanced hydrogen gas barrier film. 2016 , 500, 106-114	57
1131	Conventional surfactant-doped poly (o-anisidine)/GO nanocomposites for benzaldehyde chemical sensor development. 2016 , 77, 361-370	27
1130	Graphene-based coatings on polymer films for gas barrier applications. 2016 , 96, 503-512	61
1129	Colloidal and rheological behavior of aqueous graphene oxide dispersions in the presence of poly(ethylene glycol). 2016 , 488, 154-161	26
1128	Electronic Applications of Styrene B utadiene Rubber and Its Composites. 2016 , 261-277	2
1127	Perspectives of Epoxy/Graphene Oxide Composite: Significant Features and Technical Applications. 2016 , 55, 704-722	37
1126	High orientation degree of graphene nanoplatelets in silicon nitride composites prepared by spark plasma sintering. 2016 , 42, 1002-1006	4º
1125	The effect of large area graphene oxide (LAGO) nanosheets on the mechanical properties of polyvinyl alcohol. 2016 , 36, 399-405	2
1124	Polyvinylidene fluoride/nanocrystalline iron composite materials for EMI shielding and absorption applications. 2016 , 654, 209-215	59

1123	Nonlocal dynamic response of embedded single-layered graphene sheet via analytical approach. 2016 , 98, 129-144	15
1122	Graphene reinforced UV-curable epoxy resins: Design, manufacture and material performance. 2016 , 90, 414-424	27
1121	Effect of Point and Line Defects on Mechanical and Thermal Properties of Graphene: A Review. 2016 , 41, 47-71	90
1120	Carbon nanofillers incorporated electrically conducting poly Eaprolactone nanocomposite films and their biocompatibility studies using MG-63 cell line. 2016 , 73, 1037-1053	20
1119	Synthesis, characterization and crystallization kinetics of nanocomposites prepared by in situ polymerization of ethylene and graphene. 2016 , 123, 1501-1511	16
1118	Improving interfacial interaction of l-phenylalanine-functionalized graphene nanofiller and poly(vinyl alcohol) nanocomposites for obtaining significant membrane properties: Morphology, thermal, and mechanical studies. 2016 , 37, 1924-1935	29
1117	Improving the mechanical, electrical, and thermal properties of polyimide by incorporating functionalized graphene oxide. 2016 , 28, 800-808	19
1116	Preparation and properties of amine-functionalized reduced graphene oxide/waterborne polyurethane nanocomposites. 2016 , 28, 453-465	23
1115	CuFe2O4@graphene nanocomposite as a sorbent for removal of alizarine yellow azo dye from aqueous solutions. 2016 , 57, 14696-14707	7
1114	Synthesis and properties of graphene oxideBoron-modified phenolic resin composites. 2016 , 28, 505-517	10
1113	The effect of bio-carbon addition on the electrical, mechanical, and thermal properties of polyvinyl alcohol/biochar composites. 2016 , 50, 1161-1168	63
1112	Comparative Review on Structure, Properties, Fabrication Techniques, and Relevance of Polymer Nanocomposites Reinforced with Carbon Nanotube and Graphite Fillers. 2016 , 55, 171-198	36
1111	Introduction of selectivity and specificity to graphene using an inimitable combination of molecular imprinting and nanotechnology. 2017 , 89, 234-248	41
1110	Fabrication of amino acid-based graphene-zinc oxide (ZnO) hybrid and its application for poly(esterEmide)/graphene-ZnO nanocomposite synthesis. 2017 , 30, 358-380	19
1109	Synthesis, characterization, and thermal degradation kinetics of poly(styrene-co-N-maleimide isobutyl polyhedral oligosilsesquioxane). 2017 , 30, 490-503	5
1108	Unmodified multi-wall carbon nanotubes in polylactic acid for electrically conductive injection-moulded composites. 2017 , 30, 1615-1638	6
1107	Polyphenylene sulfide- expanded graphite nanocomposites: Processing route dependent electrical percolation. 2017 , 30, 1603-1614	6
1106	A Review of the Recent Advances in Cyclic Butylene Terephthalate Technology and its Composites. 2017 , 42, 173-217	17

Nonisothermal and isothermal crystallization behavior of isotactic polypropylene/chemically reduced graphene nanocomposites. 2017 , 38, E342-E350	4
Comparative study on the natural rubber nanocomposites reinforced with carbon black nanoparticles and graphite oxide nanosheets. 2017 , 38, 1427-1437	10
Graphene reinforced regenerated cellulose nanocomposite fibers prepared by lyocell process. 2017 , 38, E81-E88	13
Buckling analysis of biaxially compressed double-layered graphene sheets with various boundary conditions based on nonlocal elasticity theory. 2017 , 23, 2145-2161	17
Reinforced natural rubber nanocomposites using graphene oxide as a reinforcing agent and their in situ reduction into highly conductive materials. 2017 , 38, E199-E207	18
Thermal and electrical properties of graphene incorporated into polyvinylidene fluoride/polymethyl methacrylate nanocomposites. 2017 , 38, E246-E253	11
Selective localization of reduced graphene oxides at the interface of PLA/EVA blend and its resultant electrical resistivity. 2017 , 38, 1982-1991	27
Interrelationship of thermal and mechanical properties of poly(ethylene terephthalate)/poly(ethylene 2,6-naphthalate)/graphene nanocomposites. 2017 , 23, 210-218	6
Numerical and Experimental Investigation of the Piezoresistive Behavior of Hybrid Carbon Nanotube Sheet - Graphene Nanocomposites. 2017 ,	2
Morphology and isothermal crystallization of graphene oxide reinforced biodegradable poly(butylene succinate). 2017 , 59, 1-9	14
Fracture toughness and deformation mechanism of un-vulcanized and dynamically vulcanized polypropylene/ethylene propylene diene monomer/graphene nanocomposites. 2017 , 141, 83-98	26
Effects of precursor composition and mode of crosslinking on mechanical properties of graphene oxide reinforced composite hydrogels. 2017 , 69, 282-293	23
Hybrid nanocomposites of thermoplastic elastomer and carbon nanoadditives for electromagnetic shielding. 2017 , 88, 328-339	47
The reinforcing effect of polydopamine functionalized graphene nanoplatelets on the mechanical properties of epoxy resins at cryogenic temperature. 2017 , 58, 262-269	38
Thermal and mechanical properties of polypropylene nanocomposites reinforced with nano-SiO2 functionalized graphene oxide. 2017 , 97, 120-127	41
In situ repair of graphene defects and enhancement of its reinforcement effect in polyvinyl alcohol hydrogels. 2017 , 7, 1045-1055	31
Graphene nanosheets prepared by low-temperature exfoliation and reduction technique toward fabrication of high-performance poly(1-butene)/graphene films. 2017 , 26, 55-69	7
Synthesis, characterization, and thermal aging behavior of HCl-doped polyaniline/TRGO nanocomposites. 2017 , 134,	8
	Comparative study on the natural rubber nanocomposites reinforced with carbon black nanoparticles and graphite exide nanosheets. 2017, 38, 1427-1437 Graphene reinforced regenerated cellulose nanocomposite fibers prepared by lyocell process. 2017, 38, E81-E88 Buckling analysis of biaxially compressed double-layered graphene sheets with various boundary conditions based on nonlocal elasticity theory. 2017, 23, 2145-2161 Reinforced natural rubber nanocomposites using graphene exide as a reinforcing agent and their in situ reduction into highly conductive materials. 2017, 38, E199-E207 Thermal and electrical properties of graphene incorporated into polyvinylidene fluoride/polymethyl methacrylate nanocomposites. 2017, 38, E246-E253 Selective localization of reduced graphene exides at the interface of PLA/EVA blend and its resultant electrical resistivity. 2017, 38, 1982-1991 Interrelationship of thermal and mechanical properties of poly(ethylene terephthalatol/poly(chtylene 2,6-naphthalatol/graphene nanocomposites. 2017, 23, 210-218 Numerical and Experimental Investigation of the Piezoresistive Behavior of Hybrid Carbon Nanotube Sheet - Graphene Nanocomposites. 2017, Morphology and isothermal crystallization of graphene oxide reinforced biodegradable poly(butylene succinate). 2017, 59, 1-9 Fracture toughness and deformation mechanism of un-vulcanized and dynamically vulcanized polypropylene/ethylene propylene diene monomer/graphene nanocomposites. 2017, 141, 83-98 Effects of precursor composition and mode of crosslinking on mechanical properties of graphene oxide reinforced composite hydrogels. 2017, 69, 282-293 Hybrid nanocomposites of thermoplastic elastomer and carbon nanoadditives for electromagnetic shielding. 2017, 88, 328-339 The reinforcing effect of polydopamine functionalized graphene nanocomposites reinforced with nano-SiO2 functionalized graphene exides and enhancement of its reinforcement effect in polyvinyl alcohol hydrogels. 2017, 7, 1045-1055 Graphene nanosheets prepared by low-temperatu

1087	Mechanical reinforcement of graphene/poly(vinyl chloride) composites prepared by combining the in-situ suspension polymerization and melt-mixing methods. 2017 , 113, 278-284	46
1086	Selective Light-Induced Patterning of Carbon Nanotube/Silver Nanoparticle Composite To Produce Extremely Flexible Conductive Electrodes. 2017 , 9, 6163-6170	33
1085	A computational study on the role of noncovalent interactions in the stability of polymer/graphene nanocomposites. 2017 , 23, 43	15
1084	Graphene oxide supported copper coordinated amino acids as novel heterogeneous catalysts for epoxidation of norbornene. 2017 , 92, 109-113	35
1083	Influence of chain mobility on rheological, dielectric and electromagnetic interference shielding properties of poly methyl-methacrylate composites filled with graphene and carbon nanotube. 2017 , 142, 10-19	55
1082	Local mechanical and electromechanical properties of the P(VDF-TrFE)-graphene oxide thin films. 2017 , 421, 42-51	21
1081	Reduced graphene oxide/macrocyclic iron complex hybrid materials as counter electrodes for dye-sensitized solar cells. 2017 , 495, 111-121	24
1080	Electrospinning design of functional nanostructures for biosensor applications. 2017 , 5, 1699-1711	117
1079	Constitutive modelling of ductile damage matrix reinforced by platelets-like particles with imperfect interfaces: Application to graphene polymer nanocomposite materials. 2017 , 113, 55-64	11
1078	Evaluation of a New Biosensor Based on in Situ Synthesized PPy-Ag-PVP Nanohybrid for Selective Detection of Dopamine. 2017 , 121, 1118-1127	38
1077	A benzoxazine surfactant exchange for atomic force microscopy characterization of two dimensional materials exfoliated in aqueous surfactant solutions. 2017 , 7, 3222-3228	8
1076	Preparation and characterization of graphite oxide nano-reinforced biocomposites from chicken feather keratin. 2017 , 92, 2023-2031	20
1075	A Review of Thermal Transport in Low-Dimensional Materials Under External Perturbation: Effect of Strain, Substrate, and Clustering. 2017 , 21, 201-236	27
1074	The Adaptive Tribological Investigation of Polycaprolactam/Graphene Nanocomposites. 2017, 65, 1	11
1073	Carbon Nanofiber/Polycaprolactone/Mineralized Hydroxyapatite Nanofibrous Scaffolds for Potential Orthopedic Applications. 2017 , 9, 6342-6355	41
1072	Graphene oxide co-doped with dielectric and magnetic phases as an electromagnetic wave suppressor. 2017 , 1, 1229-1244	16
1071	Facile synthesis of glucose-functionalized reduced graphene oxide (GFRGO)/poly(vinyl alcohol) nanocomposites for improving thermal and mechanical properties. 2017 , 217, 26-35	34
1070	Mechanical behaviour of graphene oxide embedded epoxy nanocomposite at sub- and above- zero temperature environments. 2017 , 3, 47-50	22

1069	Nanostructured materials for microwave receptors. 2017 , 87, 221-245	40
1068	Managing the degree of exfoliation and number of graphene layers using probe sonication approach. 2017 , 25, 318-326	12
1067	Fabrication of new magnetite-graphene nanocomposite and comparison of its laser-hyperthermia properties with conventionally prepared magnetite-graphene hybrid. 2017 , 75, 572-581	7
1066	Aqueous-Only, Green Route to Self-Healable, UV-Resistant, and Electrically Conductive Polyurethane/Graphene/Lignin Nanocomposite Coatings. 2017 , 5, 3148-3157	61
1065	One-step approach to reduce and modify graphene oxide via vulcanization accelerator and its application for elastomer reinforcement. 2017 , 317, 51-59	29
1064	Addition of a small amount of multiwalled carbon nanotubes and flaked graphene to epoxy resin. 2017 , 36, 640-654	13
1063	Segmental dynamics in interfacial region of composite materials. 2017 , 148, 1285-1293	12
1062	Effect of graphene dispersion on the equilibrium structure and deformation of graphene/eicosane composites as surrogates for graphene/polyethylene composites: a molecular dynamics simulation. 2017 , 52, 5672-5685	8
1061	Two-Dimensional (2D) Nanomaterials towards Electrochemical Nanoarchitectonics in Energy-Related Applications. 2017 , 90, 627-648	321
1060	Synthesis and characterization of nanocomposites films with graphene oxide and reduced graphene oxide nanosheets. 2017 , 55, 412-422	19
1059	Tensile mechanical properties study of SiC/graphene composites based on molecular dynamics. 2017 , 131, 266-274	9
1058	Fabrication of hydrothermally reduced graphene oxide/chitosan composite membranes with a lamellar structure on methanol dehydration. 2017 , 117, 112-119	58
1057	Enhancement of fracture toughness of graphene via crack bridging with stone-thrower-wales defects. 2017 , 74, 90-99	24
1056	Flexible Dielectric Nanocomposites with Ultrawide Zero-Temperature Coefficient Windows for Electrical Energy Storage and Conversion under Extreme Conditions. 2017 , 9, 7591-7600	19
1055	Compressive mechanical properties of porous GO materials prepared from freeze-drying method. 2017 , 4, 025601	4
1054	Multiscale modelling of graphene platelets-based nanocomposite materials. 2017 , 168, 313-321	20
1053	Thermal and aqueous stability improvement of graphene oxide enhanced diphenylalanine nanocomposites. 2017 , 18, 172-179	13
1052	Using graphene networks to build bioinspired self-monitoring ceramics. 2017 , 8, 14425	71

1051	Preparation of graphene/MgCl2-supported Ti-based Ziegler-Natta catalysts by the coagglomeration method and their application in ethylene polymerization. 2017 , 38, 131-137	2
1050	Design and synthesis of reduced graphene oxide based supramolecular scaffold: A benign microbial resistant network for enzyme immobilization and cell growth. 2017 , 75, 1168-1177	17
1049	High-density polyethylene/expanded graphite nanocomposites produced by polymerization-filling technique using an industrial heterogeneous catalyst. 2017 , 55, 1260-1267	2
1048	In situ synthesis and preparation of TiO2/polyimide composite containing phenolphthalein functional group. 2017 , 28, 6544-6551	63
1047	Absorption modulation of FSS-polymer nanocomposites through incorporation of conductive nanofillers. 2017 , 123, 1	6
1046	Current Research Status and Application of Polymer/Carbon Nanofiller Buckypaper: A Review. 2017 , 56, 1780-1800	18
1045	The Role of the Topological Constraints in the Chain Dynamics in All-Polymer Nanocomposites. 2017 , 50, 1719-1731	28
1044	Spark plasma sintering of graphene reinforced silicon carbide ceramics. 2017 , 43, 9005-9011	28
1043	Effect of hydroxypropyl cellulose (HPC), polyvinylpyrrolidone (PVP) and polyethylene glycol (PEG) on Nd-TiO/graphene oxide nanocomposite for removal of lead(II) and copper(II) from aquatic media. 2017 , 76, 15-27	3
1042	ANALYSIS OF WEAR BEHAVIOR OF GRAPHENE OXIDE POLYAMIDE GEARS FOR ENGINEERING APPLICATIONS. 2017 , 24, 1850018	4
1041	Exceptionally Reinforced Polymer Nanocomposites via Incorporated Surface Porosity on Graphene Oxide Sheets. 2017 , 302, 1700039	6
1040	Preparation of polymer/clay nanocomposites via melt intercalation under continuous elongation flow. 2017 , 145, 157-164	76
1039	Dependency of Nanodiamond Particle Size and Outermost-Surface Composition on Organo-Modification: Evaluation by Formation of Organized Molecular Films and Nanohybridization with Organic Polymers. 2017 , 9, 14379-14390	7
1038	Helix-sense-selective co-precipitation for preparing optically active helical polymer nanoparticles/graphene oxide hybrid nanocomposites. 2017 , 9, 6877-6885	15
1037	Synergistic strengthening of composite films by crosslinking graphene oxide reinforcement and poly(vinyl alcohol) with dicarboxylic acids. 2017 , 66, 1737-1746	5
1036	Effects of thinner on RTV silicone rubber nanocomposites reinforced with GR and CNTs. 2017 , 28, 1842-1850	18
1035	Microstructure and Mechanical Properties of Nanocomposite Based on Polypropylene/Ethylene Propylene Diene Monomer/Graphene. 2017 , 32, 72-83	5
1034	The influence of epitaxial crystallization on the mechanical properties of a high density polyethylene/reduced graphene oxide nanocomposite injection bar. 2017 , 7, 21918-21925	18

1033	Formation of homogeneous nanocomposite films at ambient temperature via miniemulsion polymerization using graphene oxide as surfactant. 2017 , 55, 2289-2297	15
1032	N-doped few-layered graphene-polyNi complex nanocomposite with excellent electrochromic properties. 2017 , 120, 32-43	13
1031	Influence of carbon nanotubes, nanosilica and nanometakaolin on some morphological-mechanical properties of oil well cement pastes subjected to elevated water curing temperature and regular room air curing temperature. 2017 , 146, 531-546	63
1030	Programmable molecular composites of tandem proteins with graphene oxide for efficient bimorph actuators. 2017 , 118, 404-412	24
1029	Development of Al- and Cu-based nanocomposites reinforced by graphene nanoplatelets: Fabrication and characterization. 2017 , 11, 171-181	25
1028	A Green Plastic Constructed from Cellulose and Functionalized Graphene with High Thermal Conductivity. 2017 , 9, 17914-17922	107
1027	The comparison of capacitor behaviors of polymethylcarbazole and polymethylcarbazole/graphene. 2017 , 714, 433-442	11
1026	A comparative study on different aqueous-phase graphite exfoliation methods for few-layer graphene production and its application in alumina matrix composites. 2017 , 37, 3681-3693	23
1025	Highly Conductive Water-Based Polymer/Graphene Nanocomposites for Printed Electronics. 2017 , 23, 8268-8274	15
1024	New evidence disclosed for the engineered strong interfacial interaction of graphene/rubber nanocomposites. 2017 , 118, 30-39	38
1023	Polyolefin/graphene nanocomposites: a review. 2017 , 7, 23615-23632	94
1022	Influence of the chemical functionalization of graphene on the properties of polypropylene-based nanocomposites. 2017 , 100, 31-39	42
1021	Photolatent base catalyzed Michael-addition and concomitant in situ graphene oxide reduction to obtain electrically and thermally conductive UV-cured composite. 2017 , 108, 251-256	9
1020	Improvement of thermo-electrical properties of polymer composites filled with multiwall carbon nanotubes decorated carbon fillers. 2017 , 46, 8-16	
1019	Multiscale modelling of hybrid glass fibres reinforced graphene platelets polyamide PA6 matrix composites for crashworthiness applications. 2017 , 6, 1-8	15
1018	Nano energy system model and nanoscale effect of graphene battery in renewable energy electric vehicle. 2017 , 69, 652-663	33
1017	Current and future directions in electron transfer chemistry of graphene. 2017, 46, 4530-4571	101
1016	Accordion-like graphene by a facile and green synthesis method reinforcing polyolefin nanocomposites. 2017 , 7, 31085-31092	14

1015	Advanced Nanostructured Materials in Electromagnetic Interference Shielding. 2017, 241-320	10
1014	High Performance Hybrid Filler Reinforced Epoxy Nanocomposites. 2017 , 371-422	1
1013	Recent Developments in Elastomer/Hybrid Filler Nanocomposites. 2017, 423-490	2
1012	Rapid Exfoliation and Surface Tailoring of Perovskite Nanosheets via Microwave-Assisted Reactions. 2017 , 3, 538-550	15
1011	Graphene/graphene oxide and polyvinylidene fluoride polymer ferroelectric composites for multifunctional applications. 2017 , 509, 124-142	15
1010	Facile synthesis of fluorinated polydopamine/chitosan/reduced graphene oxide composite aerogel for efficient oil/water separation. 2017 , 326, 17-28	192
1009	Green and Facile Esterification Procedure Leading to Crystalline-Functionalized Graphite Oxide. 2017 , 33, 6819-6825	6
1008	Remarkable enhancement in failure stress and strain of penta-graphene via chemical functionalization. 2017 , 10, 3865-3874	17
1007	Dynamic piezoresistive response of hybrid nanocomposites. 2017,	2
1006	Customizing thermally-reduced graphene oxides for electrically conductive or mechanical reinforced epoxy nanocomposites. 2017 , 93, 1-7	21
1005	Polypyrrole/Graphene/Polyaniline Ternary Nanocomposite with High Thermoelectric Power Factor. 2017 , 9, 20124-20131	99
1004	One-Pot Preparation of Graphene-Based Polyaniline Conductive Nanocomposites for Anticorrosion Coatings. 2017 , 12, 1750056	14
1003	Biomedical films of graphene nanoribbons and nanoflakes with natural polymers. 2017 , 7, 27578-27594	12
1002	Graphene nanosheets-filled epoxy composites prepared by a fast dispersion method. 2017 , 134, 45152	21
1001	Graphene-based molecularly imprinted polymer for separation and pre-concentration of trace polycyclic aromatic hydrocarbons in environmental water samples. 2017 , 134, 45300	8
1000	Toughening, synergistic fire retardation and water resistance of polydimethylsiloxane grafted graphene oxide to epoxy nanocomposites with trace phosphorus. 2017 , 100, 275-284	33
999	A facile synthesis method for highly water-dispersible reduced graphene oxide based on covalently linked pyridinium salt. 2017 , 121, 17-24	9
998	Dynamics of electric charge transport and determination of the percolation insulator-to-metal transition in polyvinyl-pyrrolidone/nano-graphene platelet composites. 2017 , 110, 222901	7

(2017-2017)

997	2D boron nitride nanoflakes as a multifunctional additive in gel polymer electrolytes for safe, long cycle life and high rate lithium metal batteries. 2017 , 10, 1911-1916	204
996	Molecular dynamics simulations of the graphene sheet aggregation in dodecane. 2017 , 19, 1	2
995	Improved dye entrapmentliberation performance at electrochemically synthesised polypyrrolefieduced graphene oxide nanocomposite films. 2017 , 47, 777-788	6
994	Graphene-poly(nickel complex) as novel electrochromic nanocomposite for the fabrication of a robust solid-state device. 2017 , 504, 790-799	7
993	Synergistic effects of filler size on thermal annealing-induced percolation in polylactic acid (PLA)/graphite nanoplatelet (GNP) nanocomposites. 2017 , 3, 67-75	11
992	HDPE composites strengthenedEoughened synergistically by l-aspartic acid functionalized graphene/carbon nanotubes hybrid nanomaterials. 2017 , 134, 45055	18
991	Focus: Structure and dynamics of the interfacial layer in polymer nanocomposites with attractive interactions. 2017 , 146, 203201	85
990	Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials. 2017 , 121, 34-57	108
989	Novel hydrophobic PVDF/APTES-GO nanocomposite for natural gas pipelines coating. 2017 , 42, 190-202	20
988	Comparative study on predicting Young's modulus of graphene sheets using nano-scale continuum mechanics approach. 2017 , 90, 42-48	21
987	A facile way to produce epoxy nanocomposites having excellent thermal conductivity with low contents of reduced graphene oxide. 2017 , 52, 7323-7344	54
986	Conductive biofoams of wheat gluten containing carbon nanotubes, carbon black or reduced graphene oxide. 2017 , 7, 18260-18269	18
985	Laser-generated plasmas by graphene nanoplatelets embedded into polyethylene. 2017 , 35, 294-303	3
984	Electrical conductivity enhancement in thermoplastic polyurethane-graphene nanoplatelet composites by stretch-release cycles. 2017 , 110, 121904	25
983	Oxygen vacancy effect on dielectric and hysteretic properties of zigzag ferroelectric iron dioxide nanoribbon. 2017 , 91, 113-118	6
982	Solar light triggered catalytic performance of graphene-CuO nanocomposite for waste water treatment. 2017 , 43, 10654-10660	43
981	Directional properties and microstructures of spark plasma sintered aluminum nitride containing graphene platelets. 2017 , 37, 3759-3772	24
980	Facile preparation of highly oriented poly(vinylidene fluoride) uniform films and their ferro- and piezoelectric properties. 2017 , 7, 17038-17043	15

979	Molecular modeling of the piezoelectric properties of ferroelectric composites containing polyvinylidene fluoride (PVDF) and either graphene or graphene oxide. 2017 , 23, 128	14
978	Nonlinear free vibration of functionally graded polymer composite beams reinforced with graphene nanoplatelets (GPLs). 2017 , 140, 110-119	198
977	On the graphene nanoplatelets reinforcement of hand lay-up glass fabric/epoxy laminated composites. 2017 , 118, 26-32	31
976	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. 2017, 117, 6225-6331	2919
975	Covalent approach for in situ enhancement of interaction between pristine graphene and styrene-butadiene-p-(2,2,2-triphenylethyl)styrene rubber. 2017 , 134, 44923	2
974	Mimicking an Atomically Thin Vacuum SpacerIto Measure the Hamaker Constant between Graphene Oxide and Silica. 2017 , 4, 1600495	5
973	Graphene in electrocatalyst and proton conductiong membrane in fuel cell applications: An overview. 2017 , 69, 862-870	76
972	Recent progress and advances in redox-responsive polymers as controlled delivery nanoplatforms. 2017 , 1, 807-822	93
971	Graphene oxide/alginate beads as adsorbents: Influence of the load and the drying method on their physicochemical-mechanical properties and adsorptive performance. 2017 , 491, 1-12	54
970	Effective enhancement of gas separation performance in mixed matrix membranes using core/shell structured multi-walled carbon nanotube/graphene oxide nanoribbons. 2017 , 28, 065702	31
969	Graphene as initiator/catalyst in polymerization chemistry. <i>Progress in Polymer Science</i> , 2017 , 67, 48-76 29.6	34
968	Cu-rGO subsurface layer creation on copper substrate and its resistance to oxidation. 2017 , 421, 228-233	2
967	Electrical and thermal properties of a thermoplastic elastomer nanocomposite based on polypropylene/ethylene propylene diene monomer/graphene. 2017 , 15, 82-94	7
966	Performance evaluation of polysulfone/graphene nanocomposites. 2017, 108, 143-150	2
965	Synthesis of click-coupled graphene sheets with hyperbranched polyurethane: Effective exfoliation and enhancement of nanocomposite properties. 2017 , 134,	3
964	Functionalization of carbon nanomaterials for advanced polymer nanocomposites: A comparison study between CNT and graphene. <i>Progress in Polymer Science</i> , 2017 , 67, 1-47	380
963	Advances in Enhancing Mechanical Performance of Ultrahigh Molecular Weight Polyethylene Used for Total Joint Replacement. 2017 , 273-294	3
962	Computer Simulations of Single-Chain Nanoparticles. 2017 , 47-89	

961	Applications of conducting polymer composites to electrochemical sensors: A review. 2017 , 9, 419-433	272
960	Thermal conductivity of graphene oxide-enhanced polyvinyl alcohol composites depending on molecular interaction. 2017 , 129, 201-206	22
959	Increased X-ray Attenuation Efficiency of Graphene-Based Nanocomposite. 2017, 56, 11782-11790	11
958	Applications of graphene-based composite hydrogels: a review. 2017 , 7, 51008-51020	42
957	Control of the structure and properties of SEBS nanocomposites via chemical modification of graphene with polymer brushes. 2017 , 97, 1-13	14
956	Foldcore sandwich structure formed by BN-coated graphene nanosheets grafted to SiC fibers with enhanced mechanical performance. 2017 , 707, 531-537	1
955	Fabrication of novel surface-imprinted magnetic graphene oxide-grafted cellulose nanocrystals for selective extraction and fast adsorption of fluoroquinolones from water. 2017 , 409, 6643-6653	42
954	Testing the influence of the temperature, RH and filler type and content on the universal power law for new reduced graphene oxide TPU composites. 2017 , 4, 105020	14
953	Removal of endrin and dieldrin isomeric pesticides through stereoselective adsorption behavior on the graphene oxide-magnetic nanoparticles. 2017 , 24, 24980-24988	34
952	Contribution of the organo-montmorillonite/graphene pair to the rheological and mechanical properties of polyethylene matrix based nanocomposites. 2017 , 150, 244-251	7
951	Synthesis, characterization and physical properties of rigid polyurethane foams prepared with poly(propylene oxide) polyols containing graphene oxide. 2017 , 97, 230-240	24
950	Bending and vibration analysis of functionally graded trapezoidal nanocomposite plates reinforced with graphene nanoplatelets (GPLs). 2017 , 180, 799-808	137
949	Simultaneous reduction and functionalization of graphene oxide via antioxidant for highly aging resistant and thermal conductive elastomer composites. 2017 , 151, 156-163	38
948	Morphological, rheological, crystalline and mechanical properties of ethylene-vinyl acetate copolymer/linear low-density polyethylene/amphiphilic graphene oxide nanocomposites. 2017 , 63, 289-297	20
947	Synergistic Effect of Polypyrrole-Intercalated Graphene for Enhanced Corrosion Protection of Aqueous Coating in 3.5% NaCl Solution. 2017 , 9, 34294-34304	202
946	Relaxation processes in side-chain polyazomethine/thermally reduced graphene oxide nanocomposites. 2017 , 96, 119-133	7
945	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
944	Improving the fracture toughness properties of epoxy using graphene nanoplatelets at low filler content. 2017 , 3, 85-96	49

943	Transparent PVDF-TrFE/Graphene Oxide Ultrathin Films with Enhanced Energy Harvesting Performance. 2017 , 2, 7951-7955	9
942	Performance Evolution of Alkylation Graphene Oxide Reinforcing High-Density Polyethylene. 2017 , 121, 21685-21694	13
941	Electrically and thermally conductive underwater acoustically absorptive graphene/rubber nanocomposites for multifunctional applications. 2017 , 9, 14476-14485	53
940	A Bairy[polymer/3D-foam hybrid for flexible high performance thermal gap filling applications in harsh environments. 2017 , 7, 39292-39298	2
939	A critical review on the prospect of polyaniline-grafted biodegradable nanocomposite. 2017, 249, 2-16	48
938	Synthesis of high-density polyethylene/rGO-CNT-Fe nanocomposites with outstanding magnetic and electrical properties. 2017 , 134, 45382	8
937	A critical review on research progress of graphene/cement based composites. 2017 , 102, 273-296	165
936	Mechanical properties of graphene and graphene-based nanocomposites. 2017 , 90, 75-127	1091
935	Verification of the changes in the structural and physical properties of PU/PEO embedded with graphene oxide. 2017 , 7, 2427-2431	6
934	Synergy effect of carbon nano-fillers on the fracture toughness of structural composites. 2017 , 129, 18-25	54
933	Experimental study of the effects of graphene oxide on microstructure and properties of cement paste composite. 2017 , 102, 263-272	122
932	Production routes, electromechanical properties and potential application of layered nanomaterials and 2D nanopolymeric composites review. 2017 , 93, 3449-3459	8
931	A new graphene bottom ash geopolymeric composite for photocatalytic H2 production and degradation of dyeing wastewater. 2017 , 42, 20589-20598	19
930	Electrical and morphological properties of microinjection molded polypropylene/carbon nanocomposites. 2017 , 134, 45462	21
929	Considering the possibility of bonding utilizing cold sintering for ceramic adhesives. 2017 , 100, 5421-5432	11
928	Graphene analogues as emerging materials for screening electromagnetic radiations. 2017, 11, 94-101	31
927	Fabrication and electrical characterizations of graphene nanocomposite thin film based heterojunction diode. 2017 , 524, 97-103	11
926	Accelerated biomineralization of graphene oxide - incorporated cellulose acetate nanofibrous scaffolds for mesenchymal stem cell osteogenesis. 2017 , 159, 251-258	31

925	Spatial Confining Forced Network Assembly for preparation of high-performance conductive polymeric composites. 2017 , 102, 88-95	48
924	Interfacial properties and thermal aging of glass fiber/epoxy composites reinforced with SiC and SiO2 nanoparticles. 2017 , 130, 46-53	44
923	Heat dissipation performance of graphene enhanced electrically conductive adhesive for electronic packaging. 2017 ,	
922	Reduction versus cross-linking: how to improve the tensile strength of graphene oxide/polyvinyl alcohol composite film. 2017 , 4, 085601	5
921	Effects of surface functionalized partially reduced graphene oxide and different compatibilizers on the properties and structure of PP/EPR nanocomposites. 2017 , 24, 1	18
920	Impedance characterization of epoxy composite containing conductive hybrid carbon fillers. 2017,	
919	Controlling dispersion of graphene nanoplatelets in aqueous solution by ultrasonic technique. 2017 , 91, 1517-1526	11
918	Enhancing thermal conductivity and mechanical properties of poly(methyl methacrylate) via adding expanded graphite and injecting water. 2017 , 102, 228-235	21
917	Graphene Oxide-Poly(dimethylsiloxane)-Based Lab-on-a-Chip Platform for Heavy-Metals Preconcentration and Electrochemical Detection. 2017 , 9, 44766-44775	39
916	Functionalized graphene nanoplatelets/poly(ethylene oxide) nanocomposites: Correlation between crystallization behavior and mechanical performance. 2017 , 18, 2153-2160	7
915	Effects of Amino-Functionalized Graphene Oxide on the Mechanical and Thermal Properties of Polyoxymethylene. 2017 , 56, 15038-15048	10
914	From Graphene Oxide to Reduced Graphene Oxide: Impact on the Physiochemical and Mechanical Properties of Graphene-Cement Composites. 2017 , 9, 43275-43286	106
913	Chemical vapor deposition-assisted fabrication of a graphene-wrapped MnO/carbon nanofibers membrane as a high-rate and long-life anode for lithium ion batteries. 2017 , 7, 50973-50980	9
912	Stress concentrations in nanoscale defective graphene. 2017 , 7, 115001	5
911	Nanocomposite polyazomethine/reduced graphene oxide with enhanced conductivity. 2017, 24, 1	7
910	1D and 2D oxidized carbon nanomaterials on epoxy matrix: performance of composites over the same processing conditions. 2017 , 4, 115604	4
909	Blue laser diode-initiated photosensitive resins for 3D printing. 2017 , 5, 12035-12038	9
908	Thermal conductivity, morphology and mechanical properties for thermally reduced graphite oxide-filled ethylene vinylacetate copolymers. 2017 , 132, 294-305	13

907	Enhancement of mechanical properties of epoxy/graphene nanocomposite. 2017, 914, 012036	16
906	New covalent hybrids of graphene oxide with core modified and -expanded porphyrins: Synthesis, characterisation and their non linear optical properties. 2017 , 122, 307-318	31
905	Vitrification during cure produces anomalies and path-dependence in electrical resistance of conductive composites. 2017 , 149, 90-99	3
904	An electrochemical omeprazole sensor based on shortened multi-walled carbon nanotubes-Fe3O4 nanoparticles and poly(2, 6-pyridinedicarboxylic acid). 2017 , 253, 1-9	30
903	Composite electrospun nanofibers of reduced graphene oxide grafted with poly(3-dodecylthiophene) and poly(3-thiophene ethanol) and blended with polycaprolactone. 2017 , 28, 1740-1761	21
902	Relationship between sliding-induced wear and severity of sliding contact for polyamide 66 filled with hard filler. 2017 , 231, 783-790	4
901	Recent trends in multi-layered architectures towards screening electromagnetic radiation: challenges and perspectives. 2017 , 5, 7390-7403	78
900	Development of conductive paraffin/graphene films laminated on fluoroelastomers with high strain recovery and anti-corrosive properties. 2017 , 149, 254-261	9
899	Structural, optical and sensing properties of ionophore doped graphene based bionanocomposite thin film. 2017 , 144, 308-315	29
898	New Coarse-Grained Model and Its Implementation in Simulations of Graphene Assemblies. 2017 , 13, 3706-3714	13
897	Synergistic toughening of polymer nanocomposites by hydrogen-bond assisted three-dimensional network of functionalized graphene oxide and carbon nanotubes. 2017 , 149, 228-234	30
896	Improved mechanical properties through engineering the interface by poly (ether ether ketone) grafted graphene oxide in epoxy based nanocomposites. 2017 , 122, 184-193	40
895	Effects of graphene sulfonate nanosheets on mechanical and thermal properties of sacrificial concrete during high temperature exposure. 2017 , 82, 252-264	39
894	Determination of piroxicam and nimesulide using an electrochemical sensor based on reduced graphene oxide and PEDOT:PSS. 2017 , 799, 547-555	36
893	Novel fire-retardant coatings. 2017 , 53-91	6
892	DC Electrical Conductivity Retention, Optical Properties and Ammonia Sensing Analysis of Naturally Degraded CSA-Doped Graphene/polyaniline Composite Nanofibers Prepared with CTAB. 2017 , 46, 331-339	2
891	Preparation of poly(vinyl alcohol)-grafted graphene oxide/poly(vinyl alcohol) nanocomposites via in-situ low-temperature emulsion polymerization and their thermal and mechanical characterization. 2017 , 396, 1098-1107	41
890	Segmental dynamics of functional graphene-filled poly(ether sulfone ether ketone ketone) nanocomposites. 2017 , 134,	1

889	An updated review of adhesively bonded joints in composite materials. 2017 , 72, 30-42	324
888	Water-Borne Polymer/Graphene Nanocomposites. 2017 , 302, 1600315	19
887	P3HT/graphene composites synthesized using In situ GRIM methods. 2017 , 55, 60-76	6
886	Poly(ethylene trisulfide)/graphene oxide nanocomposites. 2017 , 128, 427-442	24
885	Free-standing, flexible, electrically conductive epoxy/graphene composite films. 2017, 92, 42-50	61
884	Conducting Polymer Nanocomposites: Recent Developments and Future Prospects. 2017, 1-44	8
883	Conductive Polymer Composites Based on Carbon Nanomaterials. 2017, 117-142	5
882	In-situ growth of graphene/polyaniline for synergistic improvement of extracellular electron transfer in bioelectrochemical systems. 2017 , 87, 195-202	61
881	Engineering nanocomposite membranes: Addressing current challenges and future opportunities. 2017 , 401, 1-15	66
880	Reusable DNA-functionalized-graphene for ultrasensitive mercury (II) detection and removal. 2017 , 87, 129-135	47
879	Polyacrylamide/reduced graphene oxide-Ag nanocomposite as highly efficient antibacterial transparent film. 2017 , 14, 37-46	12
878	Carbon Nanofiber Reinforced Nonmulberry Silk Protein Fibroin Nanobiocomposite for Tissue Engineering Applications. 2017 , 9, 19356-19370	39
877	Polyamide/Carbon Nanoparticles Nanocomposites: A Review. 2017 , 57, 475-494	29
876	Graphene nanoparticle dispersion in epoxy thin film composites for electronic applications: effect on tensile, electrical and thermal properties. 2017 , 28, 808-817	12
875	Nanofillers in Polymers. 2017 , 47-86	9
874	The effect of a semi-industrial masterbatch process on the carbon nanotube agglomerates and its influence in the properties of thermoplastic carbon nanotube composites. 2017 , 55, 189-197	5
873	Surface amination of carbon nanoparticles for modification of epoxy resins: plasma-treatment vs. wet-chemistry approach. 2017 , 87, 422-448	39
872	Role of weak particle-matrix interfacial adhesion in deformation and fracture mechanisms of rigid particulate-filled poly(methyl methacrylate). 2017 , 104, 1-12	13

871	A frequency-dependent theory of electrical conductivity and dielectric permittivity for graphene-polymer nanocomposites. 2017 , 111, 221-230	97
870	N-doped reduced graphene oxide/waterborne polyurethane composites prepared by in situ chemical reduction of graphene oxide. 2017 , 94, 41-49	28
869	Thermally conductive composite film filled with highly dispersed graphene nanoplatelets via solvent-free one-step fabrication. 2017 , 110, 171-177	27
868	Fabrication of 3D lawn-shaped N-doped porous carbon matrix/polyaniline nanocomposite as the electrode material for supercapacitors. 2017 , 340, 22-31	59
867	Nonlinear bending of polymer nanocomposite beams reinforced with non-uniformly distributed graphene platelets (GPLs). 2017 , 110, 132-140	247
866	In situ polymerization of modified graphene/polyimide composite with improved mechanical and thermal properties. 2017 , 28, 576-581	97
865	Synthesis and characterization of poly(butylene succinate)-reduced graphene oxide composite through in-situ melt polymerization. 2017 , 24, 1	3
864	Current Trends in Polymer Science. 2017 , 551-573	
863	Conducting polymer@raphite binary and hybrid composites. 2017, 1-34	3
862	Synthesis, structural, thermal and dielectric properties of graphene oxide based barium titinate composite films: Possible materials for embedded capacitors. 2017 , 10, 29-36	2
861	Conducting Polyurethane Composites. 2017 , 365-399	1
860	Electromagnetic Scattering From Individual Crumpled Graphene Flakes: A Characteristic Modes Approach. 2017 , 65, 6035-6047	9
859	Epoxy Nanocomposites. 2017 , 59, 791-825	18
858	Elasto-plastic response of graphene nanoplatelets reinforced polymer composite materials. 2017 , 3, 226	
857	Non-monotonic piezoresistive behaviour of graphene nanoplatelet (GNP)-polymer composite flexible films prepared by solvent casting. 2017 , 11, 581-588	5
856	Graphene-based Polymer Nanocomposites: Recent Advances and Still Open Challenges. 2017 , 1,	7
855	Simple light-emitting electrochemical cell using reduced graphene oxide and a ruthenium (II) complex. 2017 , 56, 6476-6484	11
854	Gas Barrier, Thermal, Mechanical and Rheological Properties of Highly Aligned Graphene-LDPE Nanocomposites. 2017 , 9,	43

(2017-2017)

853	Graphene Oxide-Graft-Poly(l-lactide)/Poly(l-lactide) Nanocomposites: Mechanical and Thermal Properties. 2017 , 9,	11
852	Green hybrid nanocomposites from metal oxides, poly(vinyl alcohol) and poly(vinyl pyrrolidone). 2017 , 263-289	2
851	Electrical, Mechanical, and Thermal Properties of LDPE Graphene Nanoplatelets Composites Produced by Means of Melt Extrusion Process. 2017 , 9,	79
850	Poly(lactic acid) Composites Containing Carbon-Based Nanomaterials: A Review. 2017 , 9,	84
849	Properties of Soy Protein Isolate Biopolymer Film Modified by Graphene. 2017 , 9,	19
848	Effects of Graphene Oxide and Chemically-Reduced Graphene Oxide on the Dynamic Mechanical Properties of Epoxy Amine Composites. 2017 , 9,	40
847	Effects of Reorientation of Graphene Platelets (GPLs) on Young's Modulus of Polymer Nanocomposites under Uni-Axial Stretching. 2017 , 9,	22
846	Highly Conductive 3D Segregated Graphene Architecture in Polypropylene Composite with Efficient EMI Shielding. 2017 , 9,	30
845	Biosensor Based on Tyrosinase Immobilized on Graphene-Decorated Gold Nanoparticle/Chitosan for Phenolic Detection in Aqueous. 2017 , 17,	43
844	Biopolymer Composites With High Dielectric Performance: Interface Engineering. 2017, 27-128	64
843	Composites and Nanocomposites Based on Starches. Effect of Mineral and Organic Fillers on Processing, Structure, and Final Properties of Starch. 2017 , 125-151	3
842	Mechanical and Electrical Properties of Elastomer Nanocomposites Based on Different Carbon Nanomaterials. 2017 , 3, 10	22
841	IPN Polysiloxane-Epoxy Resin for High Temperature Coatings: Structure Effects on Layer Performance after 450 °C Treatment. 2017 , 7, 213	7
840	Biotechnological Production Process and Life Cycle Assessment of Graphene. 2017 , 2017, 1-10	11
839	Polyurethane Ionic Blends as the Electrically Conductive Coatings. 2017 , 117-152	
838	Graphene composites with synthetic polymers. 2017 , 141-154	
837	Alginate-Based Hybrid Nanocomposite Materials. 2017, 603-648	2
836	Future Prospects of Algae-Based Materials. 2017 , 687-691	

835	Water-soluble polyaniline/graphene composites as materials for energy storage applications. 2017 , 11, 127-139	28
834	The Influence of Epitaxial Crystallization on the Mechanical Properties of Polyamide 66/Reduced Graphene Oxide Nanocomposite Injection Bar. 2017 , 7, 384	12
833	Experimental Multi-scale analysis of Carbon/Epoxy Composites Nano-Reinforced by Carbon Nanotubes/Multi-layer Graphene. 2017 , 20, 134-142	2
832	Electrical and optical percolations in PMMA/GNP composite films. 2018, 91, 546-557	11
831	Nonlinear low-velocity impact response of FG-GRC laminated plates resting on visco-elastic foundations. 2018 , 144, 184-194	33
830	Interfacial design and strengthening mechanisms of AZ91 alloy reinforced with in-situ reduced graphene oxide. 2018 , 138, 215-228	36
829	Effects of shear on epitaxial crystallization of poly(Eaprolactone) on reduced graphene oxide 2018 , 8, 6406-6413	4
828	Graphene/polypyrrole nanofiber prepared by simple one step green method for electrochemical supercapacitors. 2018 , 238, 22-27	12
827	Recent developments in fire-retardant thermoset resins using inorganic-organic hybrid flame retardants. 2018 , 38, 563-571	4
826	Tailored distribution of nanoparticles in bi-phasic polymeric blends as emerging materials for suppressing electromagnetic radiation: challenges and prospects. 2018 , 6, 3120-3142	56
825	Synthesis of environment-friendly graphene reinforced slag-based nanocomposite and performance of photocatalytic H2 generation. 2018 , 522, 36-44	8
824	Sorption of thorium using magnetic graphene oxide polypyrrole composite synthesized from natural source. 2018 , 53, 2016-2033	33
823	Graphene-coated polymer foams as tuneable impact sensors. 2018 , 10, 5366-5375	36
822	Effect of Graphene Nanoplatelets and Paraffin Oil Addition on the Mechanical and Tribological Properties of Low-Density Polyethylene Nanocomposites. 2018 , 43, 1435-1443	6
821	Multiple cracking in deformed laminated metal-graphene composites. 2018, 191, 113-118	14
820	A review on the role of interface in mechanical, thermal, and electrical properties of polymer composites. 2018 , 1, 415-439	77
819	One-step surface modification of graphene oxide and influence of its particle size on the properties of graphene oxide/epoxy resin nanocomposites. 2018 , 101, 211-217	34
818	Enhanced thermal conductivity and mechanical properties of hybrid MoS2/h-BN polyurethane nanocomposites. 2018 , 135, 46560	19

(2018-2018)

817	2018 , 25, 1059-1073	25
816	Ultrasonication-induced sp hybridization defects in Langmuir-Schaefer layers of turbostratic graphene. 2018 , 20, 12777-12784	7
815	Nitrogen-doped graphene combined with bioactive conducting polymer: An ideal platform for neural interface. 2018 , 58, 1548-1554	
814	A review on the mechanical, electrical and EMI shielding properties of carbon nanotubes and graphene reinforced polycarbonate nanocomposites. 2018 , 29, 1547-1567	61
813	Ammonia-Sensing Using a Composite of Graphene Oxide and Conducting Polymer. 2018 , 12, 1800037	13
812	Low-velocity impact response of FG-GRC laminated beams resting on visco-elastic foundations. 2018 , 141, 117-126	26
811	Non-linear vibration and resonance analysis of graphene sheet subjected to moving load on a visco-Pasternak foundation under thermo-magnetic-mechanical loads: An analytical and simulation study. 2018 , 124, 103-119	12
810	Dielectric and impedance properties of three dimension graphene oxide-carbon nanotube acrylonitrile butadiene styrene hybrid composites. 2018 , 68, 456-466	25
809	Graphene-reinforced elastomeric nanocomposites: A review. 2018 , 68, 160-184	44
808	Effect of topological defects on mechanical properties of graphene sheets: a molecular dynamics study. 2018 , 5, 6780-6788	4
807	Effect of sonication on the mechanical response of graphene nanoplatelets/glass fabric/epoxy laminated nanocomposites. 2018 , 147, 33-41	16
806	Co-exfoliation and fabrication of graphene based microfibrillated cellulose composites - mechanical and thermal stability and functional conductive properties. 2018 , 10, 9569-9582	16
805	Atomistic and Coarse-Grained Modeling of the Adsorption of Graphene Nanoflakes at the Oil-Water Interface. 2018 , 122, 2396-2407	4
804	Underwater acoustic properties of graphene nanoplatelet-modified rubber. 2018 , 37, 609-616	10
803	Recent advances in the development of aerospace materials. 2018, 97, 22-34	286
802	Architecture & functionalization evolution of RGO affect physicomechanical properties of polyolefin/RGO composites. 2018 , 107, 479-488	10
801	Graphene-based materials and their composites: A review on production, applications and product limitations. 2018 , 142, 200-220	522
800	Recent advances on fatigue of rubber after the literature survey by Mars and Fatemi in 2002 and 2004. 2018 , 110, 115-129	40

799	Effect of cell morphology on electrical properties and electromagnetic interference shielding of graphene-poly(methyl methacrylate) microcellular foams. 2018 , 157, 217-227	37
798	Efficient large-scale preparation of defect-free few-layer graphene using a conjugated ionic liquid as green media and its polyetherimide composite. 2018 , 157, 144-151	9
797	CurrentMoltage characteristics of electrochemically synthesized multi-layer graphene with polyaniline. 2018 , 3, 37-43	9
796	Amino acid functionalized graphene oxide based nanocomposite membrane electrolytes for direct methanol fuel cells. 2018 , 551, 1-11	61
795	Dynamic performance of an amorphous polymer composite under controlled loading of reduced graphene oxide based on entanglement of filler with polymer chains. 2018 , 25, 1	5
794	Electrically Conductive Polymers and Composites for Biomedical Applications. 2018, 219-235	1
793	Graphene and Graphene Oxide Polymer Composite for Biosensors Applications. 2018 , 93-112	1
792	Characterization of Interfacial Bonding Mechanism for Graphene-Modified Powder Metallurgy Nickle-Based Superalloy. 2018 , 31, 753-760	1
791	A thermo/pH/magnetic-responsive nanogel based on sodium alginate by modifying magnetic graphene oxide: Preparation, characterization, and drug delivery. 2018 , 27, 137-144	16
790	Graphene-based nanocomposites: synthesis and their theranostic applications. 2018 , 26, 858-883	34
789	Effective gas separation through graphene oxide containing mixed matrix membranes. 2018, 135, 46271	30
788	Synthesis and properties of Ce-doped TiO2-reduced graphene oxide nanocomposite. 2018 , 742, 986-995	24
787	Preparation and Properties of Elastomer Composites Containing © raphene Based Fillers: A Review. 2018 , 58, 403-443	15
786	Hybrid micromolding of silver micro fiber doped electrically conductive elastomeric composite polymer for flexible sensors and electronic devices. 2018 , 24, 4159-4164	10
785	Raman spectroscopy of graphene-based materials and its applications in related devices. 2018 , 47, 1822-1873	814
7 ⁸ 4	Effect of nano-filler graphene on nano-composite system of polystyrene-graphene. 2018 , 95, 3707-3715	11
783	Enhanced local controllable laser patterning of polymers induced by graphene/polystyrene composites. 2018 , 141, 159-169	24
782	Graphite nanosheets - polypropylene composites from in toluene delaminated graphite using atactic polypropylene as dispersant. 2018 , 156, 28-38	12

(2019-2018)

781	On the absorption dominated EMI shielding effects in free standing and flexible films of poly(vinylidene fluoride)/graphene nanocomposite. 2018 , 99, 437-444	29
78o	Graphene oxide affects in vitro fertilization outcome by interacting with sperm membrane in an animal model. 2018 , 129, 428-437	20
779	3D-printed graphene-Al2O3 composites with complex mesoscale architecture. 2018 , 44, 5760-5767	19
778	Enhanced electrical, mechanical and thermal properties by exfoliating graphene platelets of larger lateral dimensions. 2018 , 129, 191-198	23
777	Nanoconfinement effects of chemically reduced graphene oxide nanoribbons on poly(vinyl chloride). 2018 , 10, 2025-2033	11
776	Fully-sprayed flexible polymer solar cells with a cellulose-graphene electrode. 2018 , 7, 105-112	42
775	Comparison of 3D and 2D Monte Carlo Models for Piezoresistive Behavior of Hybrid Nanocomposites. 2018 ,	1
774	A facile synthesis of bis-(pththalimidoethyl)-amine functionalized graphene oxide and its dual performance as a supercapacitor electrode and fluorescence sensor. 2019 , 222, 45-54	19
773	Electrochemical supercapacitors of PANI/MWCNT, PEDOT/MWCNT and P(ANI-co-EDOT)/MWCNT nanocomposites. 2019 , 76, 3207-3231	7
772	Aligned-graphene composites: a review. 2019 , 54, 36-61	45
771	A study of oriented conductive composites with segregated network structure obtained via solid-state processing of UHMWPE reactor powder and carbon nanofillers. 2019 , 40, E146	5
770	Applications of polymer/graphene nanocomposite membranes: a review. 2019 , 23, 276-287	32
769	Polyelectrolyte-Graphene Oxide Multilayer Composites for Array of Microchambers which are Mechanically Robust and Responsive to NIR Light. 2019 , 40, e1700868	18
768	Improved piezoresistivity and damage detection application of hybrid carbon nanotube sheet-graphite platelet nanocomposites. 2019 , 26, 1333-1341	11
767	Effect of carbon fiber-graphene oxide multiscale reinforcements on the thermo-mechanical properties of polyurethane elastomer. 2019 , 40, E953-E961	8
766	Electrical conductivity of graphene filled PLA/PMMA blends: Experimental investigation and modeling. 2019 , 40, 704-715	13
765	Recent concepts in biodegradable polymers for tissue engineering paradigms: a critical review. 2019 , 64, 91-126	86
764	Advances in polyamide nanocomposites: A review. 2019 , 40, 851-870	23

763	Superior electromagnetic interference shielding effectiveness and low percolation threshold through the preferential distribution of carbon black in the highly flexible polymer blend composites. 2019 , 40, 1404-1418	41
762	Superhydrophobic Coating Polymer/Silica Nanocomposites: Part I Synthesis and Characterization as Eco-Friendly Coating. 2020 , 12, 805-811	8
761	Improving the tribological and mechanical properties of polyimide composites by incorporating functionalized graphene. 2020 , 32, 21-29	5
760	Preparation of adsorptive nanoporous membrane using powder activated carbon: Isotherm and thermodynamic studies. 2020 , 14, 673-687	5
759	Mechanical and aging resistance properties of polypropylene (PP) reinforced with nanocellulose/attapulgite composites (NCC/AT). 2020 , 27, 73-85	9
758	Mechanical properties and morphologies of polypropylene composites synergistically reinforced-toughened by styreneButadiene rubber and graphene oxide nanosheets. 2020 , 33, 413-431	4
757	Synthesis, Characterization and Electrical Conductivity of Silver Doped Polyvinyl Acetate/Graphene Nanocomposites: A Novel Humidity Sensor. 2020 , 234, 27-43	3
756	A review on thermo-mechanical properties of bi-crystalline and polycrystalline 2D nanomaterials. 2020 , 45, 134-170	26
755	Ferroelectric Polymers PVDF and P(VDFIIrFE) Films and Their Composites With Either Graphene or Graphene Oxide: Molecular Modeling and Experimental Observations. 2020 ,	О
754	Synthesis of emeraldine PANI polymer-reduced graphene and its use as polyelectrolyte. 2020 , 77, 4023-4041	2
753	Roll-to-roll graphene oxide radon barrier membranes. 2020 , 383, 121148	6
752	Multi-scale structure construction of carbon fiber surface by electrophoretic deposition and electropolymerization to enhance the interfacial strength of epoxy resin composites. 2020 , 499, 143929	40
751	Double-cross-linking strategy for preparing flexible, robust, and multifunctional polyimide aerogel. 2020 , 381, 122784	38
75°	Parametrically excited nonlinear dynamics and instability of double-walled nanobeams under thermo-magneto-mechanical loads. 2020 , 26, 1121-1132	1
749	Torsional Buckling of Functionally Graded Multilayer Graphene Nanoplatelet-Reinforced Cylindrical Shells. 2020 , 20, 2050005	11
748	Electrostatically-coupled graphene oxide nanocomposite cation exchange membrane. 2020 , 594, 117457	13
747	A review of research advances in epoxy-based nanocomposites as adhesive materials. 2020 , 96, 102454	42
746	Enhanced interfacial characteristics in PLA/graphene composites through numerically-designed interface treatment. 2020 , 502, 144150	22

745 Conductive elastomer engineering in extreme environments. **2020**, 235-255

744	Nonlinear Dynamics of Temperature-Dependent FG-GRC Laminated Beams Resting on Visco-Pasternak Foundations. 2020 , 20, 2050012	15
743	Graphene and graphene oxide-reinforced 3D and 4D printable composites. 2020 , 259-296	2
742	Silica/GO hybrids reinforced NR: Better interface interaction and dynamic behavior. 2020 , 52, 575-592	2
741	Graphene oxide/waterborne polyurethane nanocoatings: effects of graphene oxide content on performance properties. 2020 , 17, 255-269	10
740	Graphene and Graphene/Polymer Composites as the Most Efficient Protective Coatings for Steel, Aluminum and Copper in Corrosive Media: A Review of Recent Studies. 2020 , 20, 467-493	8
739	Overview on nanocarbon sponges in polymeric nanocomposite. 2020 , 24, 309-320	6
738	Nonlinear dynamic modeling of smart graphene/piezoelectric composite nanoplates subjected to dual frequency excitation. 2020 , 2, 025019	2
737	A molecular dynamics study on the interfacial properties of carbene-functionalized graphene/polymer nanocomposites. 2020 , 16, 387-400	9
736	Assessment on the mechanical, structural, and thermal attributes of green graphene-based water soluble polymer electrolyte composites. 2020 , 137, 48376	1
735	Functionalized graphenes as nanofillers for polylactide: Molecular dynamics simulation study. 2020 , 41, 294-305	10
734	Highly dispersed graphene oxidelinc oxide nanohybrids in epoxy coating with improved water barrier properties and corrosion resistance. 2020 , 17, 101-114	16
733	Design of the ultrahigh molecular weight polyethylene composites with multiple nanoparticles: An artificial intelligence approach. 2020 , 54, 179-192	9
732	Electrospun PI@GO separators for Li-ion batteries: a possible solution for high-temperature operation. 2020 , 94, 109-117	3
731	3D Printing of polymer composites: A short review. 2020 , 2, e97	31
730	Bio-adenine-bridged molecular design approach toward non-covalent functionalized graphene by liquid-phase exfoliation. 2020 , 55, 140-150	3
729	A review on application of carbon nanostructures as nanofiller in corrosion-resistant organic coatings. 2020 , 17, 19-55	15
728	Novel construction of nanostructured carbon materials as sulfur hosts for advanced lithium-sulfur batteries. 2020 , 44, 70-91	15

727	Tuning interfacial structure and mechanical properties of graphene oxide sheets/polymer nanocomposites by controlling functional groups of polymer. 2020 , 504, 144152	27
726	Chemically Functionalized Reduced Graphene Oxide as Additives in Polyethylene Composites for Space Applications. 2020 , 60, 86-94	4
7 2 5	Nitroxide-mediated radical polymerization of methacryloisobutyl POSS and its block copolymers with poly(n-acryloylmorpholine). 2020 , 58, 428-437	5
724	WITHDRAWN: A comprehensive study on the impact of RGO/MWCNT hybrid filler reinforced polychloroprene rubber multifunctional nanocomposites. 2020 ,	О
723	Facile synthesis of novel reduced graphene oxide@polystyrene nanospheres for sensitive label-free electrochemical immunoassay. 2020 , 56, 699-702	22
722	Graphitic carbon nitride and polymers: a mutual combination for advanced properties. 2020 , 7, 762-786	76
721	Enhancement of piezoelectric energy-harvesting capacity of electrospun EPVDF nanogenerators by adding GO and rGO. 2020 , 31, 1960-1968	14
720	The interphase and thermal conductivity of graphene oxide/butadiene-styrene-vinyl pyridine rubber composites: A combined molecular simulation and experimental study. 2020 , 188, 107971	16
719	Epoxy coating modified with graphene: A promising composite against corrosion behavior of copper surface in marine media. 2020 , 820, 153380	28
718	Enhanced CO2-selective behavior of Pebax-1657: A comparative study between the influence of graphene-based fillers. 2020 , 81, 106264	19
717	Polymer supports for the removal and degradation of hazardous organic pollutants: an overview. 2020 , 69, 333-345	7
716	Nonlinear dual frequency excited vibration of viscoelastic graphene sheets exposed to thermo-magnetic field. 2020 , 83, 105111	4
715	Green, fast, and scalable production of reduced graphene oxide via Taylor vortex flow. 2020 , 391, 123482	12
714	Graphene-dendritic polymer hybrids: synthesis, properties, and applications. 2020 , 17, 735-764	6
713	Structure-property relationship in silicone rubber nanocomposites reinforced with carbon nanomaterials for sensors and actuators. 2020 , 303, 111712	16
712	Functionalization of Polystyrene Nanocomposite with Excellent Antimicrobial Efficiency for Food Packaging Application. 2020 , 31, 1371-1382	13
711	Ultrasonic Vibration-Induced Shape Memory Polymer (Polyurethane)/Graphene Nanoplatelets Composite. 2020 , 101, 141-149	1
710	Simultaneous Reduction and Polymerization of Graphene Oxide/Styrene Mixtures To Create Polymer Nanocomposites with Tunable Dielectric Constants. 2020 , 3, 962-968	17

709	Self-standing Substrates. 2020 ,	1
708	Effect of hydrogen functionalization on interfacial behavior of defective-graphene/polymer nanocomposites. 2020 , 41, 1291-1298	6
707	Engineering investigation for the size effect of graphene oxide derived from graphene nanoplatelets in polyurethane composites. 2020 , 98, 1084-1096	9
706	High performance epoxy nanocomposites with enhanced thermal and mechanical properties by incorporating amine-terminated oligoimide-grafted graphene oxide. 2020 , 32, 569-587	3
705	Evaluating the effect of addition of nanodiamond on the synergistic effect of graphene-carbon nanotube hybrid on the mechanical properties of epoxy based composites. 2020 , 81, 106274	21
704	Effect of graphene nano-sheets additions on the density, hardness, conductivity, and corrosion behavior of Sn D .7Cu solder alloy. 2020 , 31, 202-211	6
703	WPU/CB/GO nanocomposites: in situ polymerization preparation, thermal, and anticorrosion performance evaluation. 2020 , 137, 48716	4
702	Recent advances in the applications of substituted polyanilines and their blends and composites. 2020 , 77, 6641-6669	3
701	Nano-modified functional composite coatings for metallic structures: Part I-Electrochemical and barrier behavior. 2020 , 401, 126286	1
700	Development of new graphene/epoxy nanocomposites and study of cure kinetics, thermal and mechanical properties. 2020 , 694, 178785	7
699	Polymeric Guide Conduits for Peripheral Nerve Tissue Engineering. 2020 , 8, 582646	19
698	Experimental investigation for machinability aspects of graphene oxide/carbon fiber reinforced polymer nanocomposites and predictive modeling using hybrid approach. 2020 , 17, 1671-1671	3
697	Improving Dispersion and Mechanical Properties of Polypropylene/Graphene Nanoplatelet Composites by Mixed Solvent-Assisted Melt Blending. 2020 , 28, 1166-1173	5
696	The incorporation of graphene to enhance mechanical properties of polypropylene self-reinforced polymer composites. 2020 , 195, 109073	13
695	Influence of Graphene Oxide on Rheological Parameters of Cement Slurries. 2020, 13, 5441	6
694	RF plasma polymer modification of graphene oxide for micromotors with improved performance. 2020 , 3, 613-624	1
693	Dual-Responsive Pectin/Graphene Oxide (Pc/GO) nano-composite as an efficient adsorbent for Cr (III) ions and photocatalyst for degradation of organic dyes in waste water. 2020 , 403, 112841	17
692	Flexible, Strong, Multifunctional Graphene Oxide/Silica-Based Composite Aerogels via a Double-Cross-Linked Network Approach. 2020 , 12, 47854-47864	13

691	AgNPsPDACR nanocomposites-based molecularly imprinted electrochemical sensor for highly recognition of 2,4,6-trichlorophenol. 2020 , 159, 105567	6
690	Two-dimensional carbon nanomaterials-based adsorbents. 2020 , 225-273	
689	Effect of Alignment on Enhancement of Thermal Conductivity of Polyethylene-Graphene Nanocomposites and Comparison with Effective Medium Theory. 2020 , 10,	9
688	Industrial manufacturing and characterization of multiscale CFRP laminates made from prepregs containing graphene-related materials. 2020 , 7, 075601	3
687	Significant enhancement of dielectric properties of graphene oxide filled polyvinyl alcohol nanocomposites: Effect of ionic liquid and temperature. 2020 , 41, 4411-4430	6
686	Nanoheterostructured materials based on conjugated polymer and two-dimensional materials: synthesis and applications. 2020 , 91-124	O
685	Highly selective epoxidation of olefins using vanadium (IV) schiff base- amine-tagged graphene oxide composite. 2020 , 591, 124520	20
684	Fabrication of ZnO/rGO and ZnO/MWCNT nanohybrids to reinforce the anticorrosion performance of polyurethane coating. 2020 , 24, 100208	7
683	Current trends in spinel based modified polymer composite materials for electromagnetic shielding. 2020 , 17, 100346	5
(0		
682	Synthesis and characterization of lanthana/graphene oxide nanocomposite. 2020 ,	
681	Synthesis and characterization of lanthana/graphene oxide nanocomposite. 2020 , Structures of Graphene-Reinforced Epoxy Coatings and the Dynamic Diffusion of Guest Water: A Molecular Dynamics Study. 2020 , 59, 20749-20756	6
	Structures of Graphene-Reinforced Epoxy Coatings and the Dynamic Diffusion of Guest Water: A	6
681	Structures of Graphene-Reinforced Epoxy Coatings and the Dynamic Diffusion of Guest Water: A Molecular Dynamics Study. 2020 , 59, 20749-20756	
681 680	Structures of Graphene-Reinforced Epoxy Coatings and the Dynamic Diffusion of Guest Water: A Molecular Dynamics Study. 2020 , 59, 20749-20756 Recent advances in chemical functionalisation of graphene and sensing applications. 2020 , 4, 1 Tensile, impact, and mode-I behaviour of glass fiber-reinforced polymer composite modified by	1
681 680 679	Structures of Graphene-Reinforced Epoxy Coatings and the Dynamic Diffusion of Guest Water: A Molecular Dynamics Study. 2020, 59, 20749-20756 Recent advances in chemical functionalisation of graphene and sensing applications. 2020, 4, 1 Tensile, impact, and mode-I behaviour of glass fiber-reinforced polymer composite modified by graphene nanoplatelets. 2020, 20, 1 Starfish surface-inspired graphene-copper metaparticles for ultrahigh vertical thermal conductivity	6
681 680 679 678	Structures of Graphene-Reinforced Epoxy Coatings and the Dynamic Diffusion of Guest Water: A Molecular Dynamics Study. 2020, 59, 20749-20756 Recent advances in chemical functionalisation of graphene and sensing applications. 2020, 4, 1 Tensile, impact, and mode-I behaviour of glass fiber-reinforced polymer composite modified by graphene nanoplatelets. 2020, 20, 1 Starfish surface-inspired graphene-copper metaparticles for ultrahigh vertical thermal conductivity of carbon fiber composite. 2020, 199, 108385 Effect of processing temperature and mixing time on the properties of PP/GnP nanocomposites.	6
681 680 679 678	Structures of Graphene-Reinforced Epoxy Coatings and the Dynamic Diffusion of Guest Water: A Molecular Dynamics Study. 2020, 59, 20749-20756 Recent advances in chemical functionalisation of graphene and sensing applications. 2020, 4, 1 Tensile, impact, and mode-I behaviour of glass fiber-reinforced polymer composite modified by graphene nanoplatelets. 2020, 20, 1 Starfish surface-inspired graphene-copper metaparticles for ultrahigh vertical thermal conductivity of carbon fiber composite. 2020, 199, 108385 Effect of processing temperature and mixing time on the properties of PP/GnP nanocomposites. 2020, 181, 109321 Nano-confinement-inspired metal organic framework/polymer composite separation membranes.	1 6 6

(2020-2020)

673	Preliminary In Vitro Evaluation of Chitosan-Graphene Oxide Scaffolds on Osteoblastic Adhesion, Proliferation, and Early Differentiation. 2020 , 21,	7
672	Advances in the smart materials applications in the aerospace industries. 2020 , 92, 1027-1035	43
671	Polypyrrole-Bonded Quaternary Semiconductor LiCuMoO-Graphene Nanocomposite for a Narrow Band Gap Energy Effect and Its Gas-Sensing Performance. 2020 , 5, 17337-17346	12
670	Ionic Liquid (1-Ethyl-3-methylimidazolium Acetate) Plasticization of Chitosan-Based Bionanocomposites. 2020 , 5, 19070-19081	5
669	Preparation of functionalized graphene-linear low-density polyethylene composites by melt mixing method. 2020 ,	3
668	Elasticity Solutions for In-Plane Free Vibration of FG-GPLRC Circular Arches with Various End Conditions. 2020 , 10, 4695	O
667	Effects of Graphene-Based Fillers on Cathodic Delamination and Abrasion Resistance of Cataphoretic Organic Coatings. 2020 , 10, 602	8
666	Shrinkage reduced polyimide-graphene oxide composite aerogel for oil absorption. 2020 , 307, 110501	14
665	3D-printed and injection molded polymer matrix composites with 2D layered materials. 2020 , 38, 042201	2
664	Polyester-graphene primer coatings: corrosive and mechanical properties. 2020 , 1535, 012050	O
663	Electric modulus approach to the analysis of electric relaxation and magnetodielectric effect in reduced graphene oxidepoly(vinyl alcohol) nanocomposite. 2020 , 31, 15919-15930	9
662	Magnetodielectric effects in three reduced graphene oxidepolymer nanocomposites. 2020 , 43, 1	3
661	A Bayesian regularized feed-forward neural network model for conductivity prediction of PS/MWCNT nanocomposite film coatings. 2020 , 96, 106632	6
660	Benzoyl hydrazine-anchored graphene oxide as supercapacitor electrodes. 2020 , 256, 123666	7
659	Anti-Angiogenic and Anti-Proliferative Graphene Oxide Nanosheets for Tumor Cell Therapy. 2020 , 21,	9
658	A Review of Microscale, Rheological, Mechanical, Thermoelectrical and Piezoresistive Properties of Graphene Based Cement Composite. 2020 , 10,	11
657	High micromechanical interlocking graphene oxide/carboxymethyl cellulose composite architectures for enhancing the interface adhesion between carbon fiber and epoxy. 2020 , 139, 106092	23
656	Chitosan/Polyethylene Oxide (PEO) Filled Carbonized Wood Fiber Conductive Composite Film. 2020 , 1010, 638-644	O

655	Production and enzymatic degradation of poly(Laprolactone)/graphene oxide composites. 2020 , 10, 866-876	2
654	Urethane-Acrylate/Aramid Nanocomposites Based on Graphenic Materials. A Comparative Study of Their Mechanical Properties. 2020 , 12,	
653	Mechanical and thermal properties of electrospun polyimide/rGO composite nanofibers via in-situ polymerization and in-situ thermal conversion. 2020 , 141, 110083	19
652	A Novel Single-Component Fractional-Order Capacitor Based on Graphene Nanosheet/P(VDF) Composite: Synthesis and Analysis. 2020 ,	
651	Integrated Computational and Experimental Design of Ductile, Abrasion-Resistant Thermoplastic Polyurethane/Graphene Oxide Nanocomposites. 2020 , 3, 9694-9705	4
650	Use of in-situ polymerization in the preparation of graphene / polymer nanocomposites. 2020 , 35, 336-343	19
649	Improving Properties of Poly(vinylidene fluoride) by Adding Expanded Graphite without Surface Modification via Water-Assisted Mixing Extrusion. 2020 , 305, 2000270	5
648	Electrode Materials for Supercapacitors: A Review of Recent Advances. 2020 , 10, 969	81
647	Dynamic buckling of functionally graded multilayer graphene nanocomposite annular plate under different boundary conditions in thermal environment. 2020 , 1	3
646	Wear and thermal resistance properties of aluminium particulate microcomposites. 2020 , 43, 1	1
645	Polyvinylidene Fluoride/Reduced Graphene Oxide Layers on SiOxNy/Poly(ethylene terephthalate) Films as Transparent Coatings for Organic Electronic Devices and Packaging Materials. 2020 , 3, 8972-8981	5
644	Scrutinizing the charge storage mechanism in SrO based composites for asymmetric supercapacitors by diffusion-controlled process. 2020 , 10, 3999-4011	8
643	The preparation and application of polymer/graphene nanocomposites. 2020 , 9, 943-959	
642	Effect of graphene nanoplatelets concentration on optical, dielectric and electrical properties of poly(2-ethyl-2-oxazoline) polyvinylpyrrolidone graphene nanocomposites. 2020 , 31, 16498-16510	3
641	Physical properties of graphene-oxide modified asphalt and performance analysis of its mixtures using response surface methodology. 2020 , 1-15	8
640	The roles of M-TiO2 (M = $Co2+$ & FInanoparticles loaded on RGO in the denitrogenation performance of photocatalytic. 2020 , 42, 141-151	O
639	A Study of Manufacturing Processes of Composite Form-Stable Phase Change Materials Based on Ca(NO)-NaNO and Expanded Graphite. 2020 , 13,	4
638	Graphene-Based Reinforcing Filler for Double-Layer Acrylic Coatings. 2020 , 13,	4

(2020-2020)

637	Effect of Graphene Nanoplatelets on the Structure, the Morphology, and the Dielectric Behavior of Low-Density Polyethylene Nanocomposites. 2020 , 13,	5
636	Molecular Dynamics Simulation of Calcium-Silicate-Hydrate for Nano-Engineered Cement Composites-A Review. 2020 , 10,	13
635	Graphene based nanocomposites: Synthesis, properties and application as electrochemical sensors. 2020 , 91, 1-20	2
634	Graphene nanosheets as reinforcement and cell-instructive material in soft tissue scaffolds. 2020 , 281, 102167	12
633	Static bending and free vibration analysis of multilayered composite cylindrical and spherical panels reinforced with graphene platelets by using isogeometric analysis method. 2020 , 215, 110682	25
632	Graphene oxide nanofilm and the addition of L-glutamine can promote development of embryonic muscle cells. 2020 , 18, 76	5
631	Production of graphene nanoplate/polyetheretherketone composites by semi-industrial melt-compounding. 2020 , 6, e03740	6
630	Antibacterial Action of Nanoparticle Loaded Nanocomposites Based on Graphene and Its Derivatives: A Mini-Review. 2020 , 21,	28
629	A composite of imprinted polypyrrole beads and reduced graphene oxide for specific electrochemical sensing of atrazine in complex matrices. 2020 , 151, 1271-1282	3
628	Diisocyanate-modified graphene oxide/hydroxyl-terminated silicone rubber composites for improved thermal conductivity. 2020 , 252, 123250	6
627	A systematic review on carbohydrate biopolymers for adsorptive remediation of copper ions from aqueous environments-part A: Classification and modification strategies. 2020 , 738, 139829	48
626	Tribological characterization of graphene nanoplatelets/alumina particles filled epoxy hybrid nanocomposites. 2020 , 137, 49518	4
625	Concentration-Dominated Orientation of Phenyl Groups at the Polystyrene/Graphene Interface. 2020 , 9, 889-894	18
624	Facilitating supercritical CO2 assisted exfoliation of graphene nanoplatelets with the polymer matrix. 2020 , 394, 124930	18
623	Taking advantage of the functional synergism between carbon nanotubes and graphene nanoplatelets to obtain polypropylene-based nanocomposites with enhanced oxidative resistance. 2020 , 133, 109796	5
622	B ^B ier extraction based isogeometric analysis for bending and free vibration behavior of multilayered functionally graded composite cylindrical panels reinforced with graphene platelets. 2020 , 183, 105744	10
621	Efficiency improvement in non-enzymatic H2O2 detection induced by the simultaneous synthesis of Au and Ag nanoparticles in an RGO/Au/Fe3O4/Ag nanocomposite. 2020 , 44, 9037-9045	11
620	Copper-based ternary metal sulfide nanocrystals embedded in graphene oxide as photocatalyst in water treatment. 2020 , 51-113	1

619	Impedance and electrochemical studies of rGO/Li-ion/PANI intercalated polymer electrolyte films for energy storage application. 2020 , 24, 2108-2114	
618	Hybrid Graphene Nanocomposites: Thermal Interface Materials and Functional Energy Materials. 2020 ,	1
617	Polymeric composite membranes for gas separation: State-of-the-art 2D fillers. 2020 , 293-306	
616	Elastic properties of graphene-reinforced aluminum nanocomposite: Effects of temperature, stacked, and perforated graphene. 2020 , 234, 1218-1227	1
615	Melt-Processed Graphite-Polypropylene Composites for EMI Shielding Applications. 2020 , 49, 5293-5301	2
614	Ultra-small SiO2 nanoparticles highly dispersed on non-covalent functionalized reduced graphene oxide nanoplatelets for high-performance elastomer applications. 2020 , 198, 108297	6
613	Experimental design of AlO/MWCNT/HDPE hybrid nanocomposites for hip joint replacement. 2020 , 11, 679-692	18
612	Low temperature microwave fabrication of three-dimensional graphene/polyimide foams with flexibility strain responsivity. 2020 , 137, 105995	15
611	Functionalized graphene paper with the function of fuse and its flame-triggered self-cutting performance for fire-alarm sensor application. 2020 , 252, 123292	10
610	Electrically Conductive Nanocomposites Composed of Styrene-Acrylonitrile Copolymer and rGO via Free-Radical Polymerization. 2020 , 12,	1
609	Role of anions on electrochemical exfoliation of graphite into graphene in aqueous acids. 2020 , 167, 816-825	27
608	A three-dimensional solution for free vibration of FGP-GPLRC cylindrical shells resting on elastic foundations: a comparative and parametric study. 2020 , 187, 105896	19
607	Effects of chemical structure and morphology of graphene-related materials (GRMs) on melt processing and properties of GRM/polyamide-6 nanocomposites. 2020 , 7, 100105	8
606	Investigation of milling characteristics in graphene-embedded epoxy/carbon fibre reinforced composite. 2020 , 33, 5643-5648	3
605	Enhancement of the mechanical properties of graphene based acrylonitrile butadiene styrene (ABS) nanocomposites. 2020 , 28, 1744-1747	8
604	Spatiotemporally Controlled Photoresponsive Hydrogels: Design and Predictive Modeling from Processing through Application. 2020 , 30, 2000639	21
603	Epoxy-Based Hybrid Structural Composites with Nanofillers: A Review. 2020 , 59, 12617-12631	15
602	Future needs and trends: influence of polymers on the environment. 2020 , 593-634	1

601	Graphene-based composite materials for flexible supercapacitors. 2020 , 345-372	2
600	Study of Microwave Heating Effect in the Behaviour of Graphene as Second Phase in Ceramic Composites. 2020 , 13,	3
599	Quantification of Dispersion for Weakly and Strongly Correlated Nanofillers in Polymer Nanocomposites. 2020 , 53, 2235-2248	4
598	Sustainable Jatropha Oil-Based Membrane with Graphene Oxide for Potential Application in Cu(II) Ion Removal from Aqueous Solution. 2020 , 8, 230	2
597	Graphene/poly (methyl methacrylate) electrochemical impedance-transduced chemiresistor for detection of volatile organic compounds in aqueous medium. 2020 , 1109, 27-36	15
596	Zener-like electrical transport in polyaniline-graphene oxide nanocomposites 2020 , 10, 4733-4744	4
595	Poly(2-hydroxyethyl methacrylate) grafted graphene oxide for cadmium removal from water with interaction mechanisms. 2020 , 13, 100288	6
594	Striking analogies and dissimilarities between graphene oxides and humic acids: pH-dependent charging and colloidal stability. 2020 , 306, 112948	3
593	Impedance variation with different relative humidities of PAni/Mn nanofibres. 2020, 43, 1	1
592	Thermo-mechanical vibration of FG curved nanobeam containing porosities and reinforced by graphene platelets. 2020 , 26, 2535-2551	5
591	Effect of Structure of Polymers Grafted from Graphene Oxide on the Compatibility of Particles with a Silicone-Based Environment and the Stimuli-Responsive Capabilities of Their Composites. 2020 , 10,	7
590	Thermal Property Studies of In Situ Blended Graphene/Nature Rubber Nanocomposites. 2020 , 2020, 1-7	1
589	Platinum Nanoparticle-decorated Graphene Oxide@Polystyrene Nanospheres for Label-free Electrochemical Immunosensing of Tumor Markers. 2020 , 8, 4392-4399	25
588	Damage Monitoring of Structural Resins Loaded with Carbon Fillers: Experimental and Theoretical Study. 2020 , 10,	17
587	Fatigue behaviour of graphene composites: An overview. 2020 , 25, 282-293	3
586	Stimulation and reinforcement of shape-memory polymers and their composites: A review. 2020 , 089270572	209 <u>3</u> 077
585	The Use of Nanomaterials in Shaping the Properties of Cement Slurries Used in Drilling. 2020, 13, 3121	О
584	Effect of the Fluorination of Graphene Nanoflake on the Dispersion and Mechanical Properties of Polypropylene Nanocomposites. 2020 , 10,	5

583	Processing techniques of chitosan-based interpenetrating polymer networks, gels, blends, composites and nanocomposites. 2020 , 61-93		3
582	Engineering foam skeletons with multilayered graphene oxide coatings for enhanced energy dissipation. 2020 , 137, 106035		9
581	The Thermal Properties of Polyurethane/Neoprene Blends on Prosthetic Foot. 2020 , 990, 106-110		
580	Graphene and MnO2 decorated graphene filled composites for electromagnetic shielding applications having excellent dielectric properties. 2020 , 90, 106716		8
579	Glycerol plasticisation of chitosan/carboxymethyl cellulose composites: Role of interactions in determining structure and properties. 2020 , 163, 683-693		9
578	Development, processing and applications of bio-sourced cellulose nanocrystal composites. <i>Progress in Polymer Science</i> , 2020 , 103, 101221	29.6	84
577	Tribological Behaviors of Porous 3D Graphene Lubricant Reinforced Monomer Casting Polyamide 6 Composite. 2020 , 22, 1901170		1
576	Effect of graphene on thermal stability and mechanical properties of ethylene-vinyl acetate: a molecular dynamics simulation. 2020 , 7, 035304		6
575	Technical viewpoint on polystyrene/graphene nanocomposite. 2020 , 089270572090765		4
574	Silane coupling agent with amine group grafted nano/micro-glass fiber as novel toughener for epoxy resin: fabrication and mechanical properties. 2020 , 27, 1085-1100		6
573	Functionally graded graphene reinforced composite structures: A review. 2020 , 210, 110339		149
572	One-Step Electrochemically Prepared Graphene/Polyaniline Conductive Filter Membrane for Permeation Enhancement by Fouling Mitigation. 2020 , 36, 2209-2222		6
571	Graphene-based nanocomposites: Synthesis, characterizations, and their agri-food applications. 2020 , 33-57		1
570	Superhigh Electromagnetic Interference Shielding of Ultrathin Aligned Pristine Graphene Nanosheets Film. 2020 , 32, e1907411		140
569	Quantifying nanodiamonds assisted exfoliation of graphene and its effect on toughening behaviour of composite structure. 2020 , 132, 105840		5
568	Characterization of commercial graphene-based materials for application in thermoplastic nanocomposites. 2020 , 20, 383-390		8
567	Thermoplastic polymer composites for EMI shielding applications. 2020 , 73-99		4
566	Robust electrochemical performance of polypyrrole (PPy) and polyindole (PIn) based hybrid electrode materials for supercapacitor application: A review. 2020 , 29, 101302		69

(2020-2020)

565	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
564	Assembly and application advancement of organic-functionalized graphene-based materials: A review. 2020 , 43, 1544-1557	15
563	Enhanced electrical conductivity of polymer nanocomposite based on edge-selectively functionalized graphene nanoplatelets. 2020 , 189, 108001	20
562	Micromechanical modeling of barrier properties of polymer nanocomposites. 2020 , 189, 108002	16
561	Effect of mixing conditions (dynamic process). 2020 , 107-142	1
560	Nonlinear static behaviors of functionally graded polymer-based circular microarches reinforced by graphene oxide nanofillers. 2020 , 16, 102894	11
559	Preparation and Characterization of Freely-Suspended Graphene Nanomechanical Membrane Devices with Quantum Dots for Point-of-Care Applications. 2020 , 11,	3
558	Tuning series resistance in Au/Alq3/n-Si diodes with high-energy e-Beam irradiation. 2020 , 31, 4287-4293	3
557	Development of Interaction-Induced Functionalized Graphene Oxide on Mechanical and Anticorrosive Properties of Reinforced Polyurethane Composites. 2020 , 59, 3617-3628	10
556	Nonlinear resonance of FG multilayer beam-type nanocomposites: Effects of graphene nanoplatelet-reinforcement and geometric imperfection. 2020 , 98, 105702	31
555	Sulfonated Poly(ether ether ketone) Hybrid Membranes with Amphoteric Graphene Oxide Nanosheets as Interfacial Reinforcement for Vanadium Redox Flow Battery. 2020 , 34, 2452-2461	24
554	Sea-Island-Like Morphology of CuNi Bimetallic Nanoparticles Uniformly Anchored on Single Layer Graphene Oxide as a Highly Efficient and Noble-Metal-Free Catalyst for Cyanation of Aryl Halides. 2020 , 10, 677	8
553	Chloramine-T/N-Bromosuccinimide/FeCl/KIO Decorated Graphene Oxide Nanosheets and Their Antibacterial Activity. 2020 , 10,	14
552	Precontrolled Alignment of Graphite Nanoplatelets in Polymeric Composites Prevents Bacterial Attachment. 2020 , 16, e1904756	16
551	Non-isothermal crystallization of Ziegler Natta i-PP-graphene nanocomposite: DSC and new model prediction. 2020 , 98, 1398-1410	2
550	Thermal properties of graphene-based polymer composite materials: A molecular dynamics study. 2020 , 16, 102974	16
549	Improving mechanics behavior of hot mix asphalt using graphene-oxide. 2020 , 254, 119261	20
548	Hydrothermal carbon nanospheres assisted-fabrication of PVDF ultrafiltration membranes with improved hydrophilicity and antifouling performance. 2020 , 247, 116889	21

547	Quantitative and Selective Surface Plasmon Resonance Response Based on a Reduced Graphene Oxide-Polyamidoamine Nanocomposite for Detection of Dengue Virus E-Proteins. 2020 , 10,	42
546	Evolving Strategies for Producing Multiscale Graphene-Enhanced Fiber-Reinforced Polymer Composites for Smart Structural Applications. 2020 , 7, 1903501	31
545	Physiochemical and mechanical properties of reduced graphene oxidedement mortar composites: Effect of reduced graphene oxide particle size. 2020 , 250, 118832	16
544	Fabrication of calcium hydroxyapatite incorporated polyurethane-graphene oxide nanocomposite porous scaffolds from poly (ethylene terephthalate) waste: A green route toward bone tissue engineering. 2020 , 195, 122436	19
543	Higher thermal conductivity and mechanical enhancements in hybrid 2D polymer nanocomposites. 2020 , 87, 106510	16
542	Electrically-Conductive Polyketone Nanocomposites Based on Reduced Graphene Oxide. 2020 , 12,	7
541	A comprehensive study on the impact of RGO/MWCNT hybrid filler reinforced polychloroprene rubber multifunctional nanocomposites. 2020 , 87, 106525	11
540	Augmented healing of full thickness chronic excision wound by rosmarinic acid loaded chitosan encapsulated graphene nanopockets. 2020 , 46, 878-888	8
539	Comparative Study of Three Carbon Additives: Carbon Nanotubes, Graphene, and Fullerene-C60, for Synthesizing Enhanced Polymer Nanocomposites. 2020 , 10,	9
538	Revealing the erosion-corrosion performance of sphere-shaped morphology of nickel matrix nanocomposite strengthened with reduced graphene oxide nanoplatelets. 2020 , 104, 107763	58
537	Highly improved electrocatalytic oxidation of dimethylamine borane on silver nanoparticles modified polymer composite electrode. 2020 , 44, 125-141	4
536	Heavy crude oil asphaltenes as a nanofiller for epoxy resin. 2020 , 60, 1530-1545	10
535	Preparation of epoxy-glass composites with graphene and flyash filler. 2020 , 26, 2328-2332	5
534	Flexible Supercapacitor-Type Rectifier-free Self-Charging Power Unit Based on a Multifunctional Polyvinylidene Fluoride-ZnO-rGO Piezoelectric Matrix. 2020 , 12, 20891-20900	27
533	Synthesis and micromechanical properties of graphene oxide-based polymer nanocomposites. 2020 , 46, 276-284	1
532	Nanofiber-reinforced nanocomposites for structural applications. 2020 , 559-567	1
531	Tailoring surface properties of carbon nanofibers via oxidation and its influence on dental pulp stem cell viability of PCL/CNF composites. 2021 , 78, 695-711	2
530	Effect of nano-nickel on the dielectric characteristics of polyurethane-metal nanocomposites. 2021 , 35, 86-90	

(2021-2021)

529	Effect of residual surface stress on parametrically excited nonlinear dynamics and instability of double-walled nanobeams: an analytical study. 2021 , 37, 1219-1230	5
528	Study of reinforcement mechanism and structural elucidation of expanded graphite-carbon black hybrid filler-SBR nanocomposites through comprehensive analysis of mechanical properties and small angle X-ray data. 2021 , 138, 49093	6
527	Polypropylene nanocomposites with high-loading conductive carbon nano-reinforcements for multifunctional applications. 2021 , 11, 493-503	8
526	Thermal oxidation of graphite as the first step for graphene preparation: effect of heating temperature and time. 2021 , 56, 3675-3691	2
525	Surface oxidized/silanized graphite nanoplatelets for reinforcing an epoxy matrix. 2021, 258, 123851	3
524	Natural Polysaccharide Based Graphene Oxide Nanocomposites for Removal of Dyes from Wastewater: A Review. 2021 , 66, 11-37	14
523	Green one-pot synthesis and characterisation of hybrid reduced graphene oxide/zeolitic imidazole framework-8 (rGO/ZIF-8). 2021 , 18, 363-373	1
522	Graphene nanoplatelets composite membranes for thermal comfort enhancement in performance textiles. 2021 , 138, 49645	5
521	Study of induced structural, optical and electrochemical properties of Poly(3-hexylthiophene) (P3HT), [6,6]-phenyl-C61-butyric-acid-methyl-ester (PCBM) and their blend as an effect of graphene doping. 2021 , 148, 109644	3
520	Advances in Graphene-Based Magnetic and Graphene-Based/TiO2 Nanoparticles in the Removal of Heavy Metals and Organic Pollutants from Industrial Wastewater. 2021 , 31, 463-480	16
519	Materials Used Within Polymer Matrix Composites (PMCs) and PCM Production Via Additive Manufacturing. 2021 , 837-846	3
519	· · · · · · · · · · · · · · · · · · ·	3
	Manufacturing. 2021 , 837-846	
518	Manufacturing. 2021, 837-846 Solution-coated barriers for organic electronics. 2021, 249-303 Design and synthesis of PbBiVO5 electrode by polymorph engineering for rechargeable battery.	1
518 517	Manufacturing. 2021, 837-846 Solution-coated barriers for organic electronics. 2021, 249-303 Design and synthesis of PbBiVO5 electrode by polymorph engineering for rechargeable battery. 2021, 293, 121777	1
518 517 516	Manufacturing. 2021, 837-846 Solution-coated barriers for organic electronics. 2021, 249-303 Design and synthesis of PbBiVO5 electrode by polymorph engineering for rechargeable battery. 2021, 293, 121777 Thermal and morphological study of graphene based polyurethane composites. 2021, 45, 3982-3985	1 5
518 517 516 515	Manufacturing. 2021, 837-846 Solution-coated barriers for organic electronics. 2021, 249-303 Design and synthesis of PbBiVO5 electrode by polymorph engineering for rechargeable battery. 2021, 293, 121777 Thermal and morphological study of graphene based polyurethane composites. 2021, 45, 3982-3985 Recent developments of graphene composites for energy storage devices. 2021, 45, 1779-1782 Boosting electrical and piezoresistive properties of polymer nanocomposites via hybrid carbon	1 1 5 6

511	Crystallization of precisely halogen-substituted polyethylenes induced by ultra-high molecular weight polyethylene fiber. 2021 , 213, 123198	1
510	Preparation of conductive polylactic acid/high density polyethylene/carbon black composites with low percolation threshold by locating the carbon black at the Interface of co-continuous blends. 2021 , 138, 50291	2
509	A transcriptomic overview of lung and liver changes one day after pulmonary exposure to graphene and graphene oxide. 2021 , 410, 115343	14
508	Covalent intercalation of hydrazine derived graphene oxide as an efficient 2D material for supercapacitor application. 2021 , 272, 116656	12
507	The effect of equal-channel angular pressing (ECAP) on the properties of graphene reinforced aluminium matrix composites. 2021 , 55, 1749-1768	1
506	The Influence of Graphene Nanoplatelets on the Tensile and Impact Behavior of Glass-Fiber-Reinforced Polymer Composites. 2021 , 30, 596-609	1
505	Self-diagnostic carbon nanocomposites manufactured from industrial epoxy masterbatches. 2021 , 259, 113244	6
504	Review of the past and recent developments in functionalization of graphene derivatives for reinforcement of polypropylene nanocomposites. 2021 , 42, 1075-1108	2
503	Nanofiber hybrid membranes: progress and application in proton exchange membranes. 2021 , 9, 3729-3766	17
502	Graphene derivative based high dielectric constant polymer composite electrodes for supercapacitors. 2021 , 42, 1657-1660	O
501	Effect of graphene nanoplatelets on the dielectric permittivity and segmental motions of electrospun poly(ethylene-co-vinyl alcohol) nanofibers. 2021 , 183, 109404	2
500	Nanostructured Materials and their Applications. 2021,	
499	Fatigue analysis and fracture toughness of graphene reinforced carbon fibre polymer composites. 2021 , 44, 461-474	7
498	Enhancement of thermal, morphological, and mechanical properties of compatibilized based on PA6-enriched graphene oxide/EPDM-g-MA/CR: Graphene oxide and EPDM-g-MA compatibilizer role. 2021 , 138, 49901	5
497	Preparation, characterization and performance evaluation of wood flour/HDPE foamed composites reinforced with graphene nanoplatelets. 2021 , 55, 531-540	1
496	An improved strategy to synthesize graphite oxide with controllable interlayer spacing as coatings for anticorrosion application. 2021 , 138, 49823	3
495	Environmental Remediation Through Carbon Based Nano Composites. 2021,	3
494	Nonlinear vibration and dynamic instability analysis nanobeams under thermo-magneto-mechanical loads: a parametric excitation study. 2021 , 37, 395-408	11

493	Efficiency of different methods of oxidation of graphite: a key route of graphene preparation. 2021 , 6, 1-11	О
492	Effect of interaction between conjugated polymers and nanofillers on sensing properties. 2021, 237-263	
491	Graphene Nanocomposite: Concept and Applications. 2021 , 1147-1159	
490	Enhancing the Curie temperature of two-dimensional monolayer CrI by introducing I-vacancies and interstitial H-atoms. 2021 , 23, 22103-22109	1
489	Graphene-functionalized carbon/glass fiber reinforced polymer nanocomposites: fabrication and characterization for manufacturing applications. 2021 , 57-78	0
488	Stress-strain behaviour of graphene reinforced aluminum nanocomposite under compressive loading using molecular dynamics. 2021 , 44, 4521-4525	2
487	Transparent polymer nanocomposites based on two-dimensional materials and their multiple applications. 2021 , 1-30	
486	A Literature Review for Development of Advanced Composites Materials by Reinforcement of Epoxy Composites with Graphene and Natural Silk. 2021 , 341-353	O
485	Graphene Nanocomposite Based Nanoproducts. 2021 , 1-28	
484	Investigations of Graphene Reinforced Acrylonitrile-Butadiene-Styrene Matrix Prototypes Produced Via Functional Deposition Modeling (FDM). 2021 , 847-854	1
483	Polymer nanocomposites for energy-related applications. 2021 , 215-248	
482	Development on graphene based polymer composite materials and their applications arecent review. 2021 ,	3
481	A review on the use of carbon matrix incorporated with macrocyclic metal complexes as counter electrodes for platinum free dye sensitized solar cells. 2021 , 74, 543-562	4
480	Probing interface strength in nanocomposites and hybrid nanomaterials. 2021 , 209-240	O
479	Recent progress of polyamide thin film nanocomposite membranes for water applications. 2021, 125-145	
478	Graphene Oxide and Reduced Graphene Oxide as Nanofillers in Membrane Separation. 2021, 113-144	3
477	Effects of graphene oxide size on curing kinetics of epoxy resin 2021, 11, 29215-29226	1
476	Fabrication of highly thermal conductive PA6/hBN composites via in-situ polymerization process. 2021 , 28, 1	O

475	Green Fiber Thermoplastic Composites. 2021 , 35-62	
474	Application of Carbon-Based Nanomaterials for Removal of Hydrocarbons. 2021 , 205-227	O
473	Mechanical properties of poly(lactic acid) compounded with recycled tyre waste/graphene nanoplatelets nanocomposite. 2021 , 42, 265-269	1
472	CHAPTER 5:Graphitic Carbon Nitride-polymer Hybrids: A WinWin Combination with Advanced Properties for Different Applications. 2021 , 174-220	
471	Fabrication of Polymer-Graphene Nanocomposites. 2021 , 1053-1067	
470	Polymer Nanocomposite Matrix. 2021 , 523-542	
469	Production of graphene and other two-dimensional nanosheets by liquid phase exfoliation. 2021, 251-314	
468	Polymer Nanocomposites Coating for Anticorrosion Application. 2021 , 1093-1134	
467	Tuning the interface in epoxy based composites and laminates through epoxy grafted graphene oxide enhances mechanical properties.	
466	Yarn on yarn abrasion performance of high modulus polyethylene fiber improved by graphene/polyurethane composites coating. 2021 , 16, 155892502098356	12
466 465		12 O
	graphene/polyurethane composites coating. 2021 , 16, 155892502098356	
465	graphene/polyurethane composites coating. 2021, 16, 155892502098356 Thermoresponsive Polymer Nanocomposites. 2021, 510-526 A Review of the Polymer for Cryogenic Application: Methods, Mechanisms and Perspectives. 2021,	o
465 464	graphene/polyurethane composites coating. 2021, 16, 155892502098356 Thermoresponsive Polymer Nanocomposites. 2021, 510-526 A Review of the Polymer for Cryogenic Application: Methods, Mechanisms and Perspectives. 2021, 13,	o 8
465 464 463	graphene/polyurethane composites coating. 2021, 16, 155892502098356 Thermoresponsive Polymer Nanocomposites. 2021, 510-526 A Review of the Polymer for Cryogenic Application: Methods, Mechanisms and Perspectives. 2021, 13, Scope of Polymer/Graphene Nanocomposite in Defense Relevance. 2021, 597-616	o 8
465 464 463 462	graphene/polyurethane composites coating. 2021, 16, 155892502098356 Thermoresponsive Polymer Nanocomposites. 2021, 510-526 A Review of the Polymer for Cryogenic Application: Methods, Mechanisms and Perspectives. 2021, 13, Scope of Polymer/Graphene Nanocomposite in Defense Relevance. 2021, 597-616 Synthesis of graphene through electrochemical exfoliation technique in aqueous medium. 2021, 44, 2695-269	o 8
465 464 463 462 461	graphene/polyurethane composites coating. 2021, 16, 155892502098356 Thermoresponsive Polymer Nanocomposites. 2021, 510-526 A Review of the Polymer for Cryogenic Application: Methods, Mechanisms and Perspectives. 2021, 13, Scope of Polymer/Graphene Nanocomposite in Defense Relevance. 2021, 597-616 Synthesis of graphene through electrochemical exfoliation technique in aqueous medium. 2021, 44, 2695-269 Thermally Switchable Electrically Conductive Thermoset rGO/PK Self-Healing Composites. 2021, 13, Mechanical, Thermal, and Morphological Properties of Graphene Nanoplatelet-Reinforced	0 8 991 4

Bionanocomposite hydrogels for regenerative medicine and biomedical applications. 2021, 91-118 457 Preparation and Characterization of Electrically Conductive Polymer Nanocomposites with 456 Different Carbon Nanoparticles. A novel quadrilateral element for analysis of functionally graded porous plates/shells reinforced by 6 455 graphene platelets. 2021, 91, 2435-2466 Thermal conductivity of hybrid multilayer graphene-fiber carbon membranes. 1 454 Graphene Effect on Mechanical Properties of Sandwich Panel for Aerospace Structures. 875, 121-126 453 1 Graphene-Supported, Well-Defined Metal-Based Catalysts for C⊞ Bond Functionalization and 452 Related Reactions. 2021, 363, 1740-1755 Flow-Mediated Interaction between Graphene Oxide Nanosheets and Polycarbonate Chains. 2021, 1 451 125, 4146-4154 450 Fabrication of Conductive Polymer Composites and Their Applications in Sensors. 2021, 21-52 Graphene oxide dispersion state in polystyrene-based composites below percolation threshold via 1 449 linear melt rheology. 2021, 60, 209-218 Effects of ionic liquid types on the tribological, mechanical, and thermal properties of ionic liquid 448 modified graphene/polyimide shape memory composites. 095400832199676 Study of different polymer nanocomposites and their pollutant removal efficiency: Review. 2021, 11 447 217, 123453 446 Role of Graphene and Graphene Derived Materials to Fight with COVID-19. Friction and Wear Properties of Graphene / Epoxy Composites. 2021, 706, 012038 445 1 Mechanical and tribological properties of porous metallic CBN composites reinforced by graphene 444 4 nanoparticles. 2021, 114, 397-405 Well dispersion of poly(acrylonitrile-butadiene-styrene) in isotactic polypropylene mediated by 1 443 incorporation of graphene and the elevated toughness. 2021, 32, 2020-2029 Polymer Nanocomposites in Sensor Applications: A Review on Present Trends and Future Scope. 10 442 2021, 39, 665 Graphene Oxide Enabled Flexible PEO-Based Solid Polymer Electrolyte for All-Solid-State Lithium 441 21 Metal Battery. 2021, 4, 3660-3669 Thermal Degradation Kinetics and Modeling Study of Ultra High Molecular Weight Polyethylene 7 (UHMWP)/Graphene Nanocomposite. 2021, 26,

439	Polymer nanocomposites with aligned two-dimensional materials. <i>Progress in Polymer Science</i> , 2021 , 114, 101360	14
438	EMI Shielding and Mechanical Properties of Polycarbonate Nanocomposites Containing CNT Composite Powder. 2021 , 22, 1704	1
437	A Simple Model Relating Gauge Factor to Filler Loading in Nanocomposite Strain Sensors 2021 , 4, 2876-288	6 11
436	Simplified Approach for Preparing Graphene Oxide TEM Grids for Stained and Vitrified Biomolecules. 2021 , 11,	1
435	A Review on Applicability, Limitations, and Improvements of Polymeric Materials in High-Pressure Hydrogen Gas Atmospheres. 1-36	10
434	Tribological Properties of 2D Materials and Composites-A Review of Recent Advances. 2021 , 14,	7
433	Synthesis and Characterization of PANI and Block Copolymer PANI-b-PEO Catalyzed by Maghnite (AlgerianMMT): Electrical and Electronic Domain.	
432	The correlated effects of polyetheramine-functionalized graphene oxide loading on the curing reaction and the mechanical properties of epoxy composites. 2021 , 33, 832-847	1
431	Role of the interface on electron transport in electro-conductive polymer-matrix composite: A review. 2021 , 42, 2614-2628	6
430	Graphene Integrated Hydrogels Based Biomaterials in Photothermal Biomedicine. 2021 , 11,	14
429	Effects of graphene on thermal properties and thermal stability of polycarbonate/graphene nanocomposite. 089270572199788	2
428	Comprehensive Enhancement in Thermomechanical Performance of Melt-Extruded PEEK Filaments by Graphene Incorporation. 2021 , 13,	8
427	Damage and self-healing characteristics of monolayer graphene enhanced Cu under ballistic impact. 2021 , 155, 103736	3
426	Assessment of Graphene Oxide and Nanoclay Based Hybrid Filler in Chlorobutyl-Natural Rubber Blend for Advanced Gas Barrier Applications. 2021 , 11,	5
425	A review of biomass-derived graphene and graphene-like carbons for electrochemical energy storage and conversion. 2021 , 36, 350-372	11
424	Microfluidics for flexible electronics. 2021 , 44, 105-135	26
423	In Situ SAXS and WAXD Investigations of Polyamide 66/Reduced Graphene Oxide Nanocomposites During Uniaxial Deformation. 2021 , 6, 11762-11771	3
422	Graphene/graphene nanoplatelets reinforced polyamide nanocomposites: A review. 095400832110112	3

421	Research progress of new nanocomposite pour point depressant: a mini-review. 2021 , 39, 313-322	1
420	Graphene Oxide Topical Administration: Skin Permeability Studies. 2021 , 14,	5
419	Recent Progress in Two-dimensional Nanomaterials Following Graphene for Improving Fire Safety of Polymer (Nano)composites. 2021 , 39, 935-956	9
418	Nanocellulose/polyethylene nanocomposite sheets prepared from an oven-dried nanocellulose by elastic kneading. 2021 , 207, 108734	9
417	Determination of the elastic moduli of CVD graphene by probing graphene/polymer Bragg stacks. 2021 , 8, 035040	6
416	Nanoparticles enhanced interfaces of Glass fiber laminate aluminum reinforced epoxy (GLARE) fiber metal laminates. 2021 , 42, 3954-3968	3
415	Nanomaterials for cancer therapy: current progress and perspectives. 2021 , 14, 85	74
414	Enhancement of crystallization and mechanical properties in isotactic polypropylene via adding liquid-phase exfoliated graphene. 2021 , 699, 178916	2
413	The effect of nanoparticle additive on surface milling in glass fiber reinforced composite structures. 096739112110141	1
412	On the Influence of the Functionalization of Graphene Nanoplatelets and Glass Fiber on the Mechanical Properties of GFRP Composites. 2021 , 28, 1127-1152	3
411	Experimental Investigation on the Effect of Graphene Oxide Additive on the Steady-State and Dynamic Shear Properties of PDMS-Based Magnetorheological Elastomer. 2021 , 13,	2
410	Development of advanced composite materials: Defining the fabrication process for hybridization of graphene and natural silk reinforced epoxy composites. 2021 , 1149, 012018	
409	Propagating Surface Plasmon Polaritons Excited at the Graphene Oxide/AgAu Alloy Interface Enhance Nonlinearity. 2021 , 258, 2000602	2
408	Preliminary Study of Reduced Graphene Oxide Cobalt Sulfide Synthesis. 2021 , 1912, 012013	
407	GO based PVA nanocomposites: tailoring of optical and structural properties of PVA with low percentage of GO nanofillers. 2021 , 7, e06983	6
406	Mechanical and durability-related performance of graphene/epoxy resin and epoxy resin enhanced OPC mortar. 2021 , 282, 122644	4
405	Studies on the electrostatic effects of stretched PVDF films and nanofibers. 2021 , 16, 79	4
404	Generic Method to Create Segregated Structures toward Robust, Flexible, Highly Conductive Elastomer Composites. 2021 , 13, 24154-24163	6

403	Improvements in thermal and mechanical properties of composites based on epoxy-carbon nanomaterials - A brief landscape. 2021 , 98, 107180	12
402	Effects of Graphene Oxidation on Interaction Energy and Interfacial Thermal Conductivity of Polymer Nanocomposite: A Molecular Dynamics Approach. 2021 , 11,	3
401	Multiscale Modeling of Epoxy-Based Nanocomposites Reinforced with Functionalized and Non-Functionalized Graphene Nanoplatelets. 2021 , 13,	6
400	Emerging polyimide and graphene derived nanocomposite foam: research and technical tendencies. 2021 , 58, 643-658	2
399	Change in the Electrical Conductivity of Graphene Oxide Film after Treatment with Supercritical Fluids (iso-日本日本)。Fluids (iso-日本日本),100-1011年)。Fluids (iso-日本日本)),100-1011年,100-1011年,100-101	1
398	Advances in polystyrene/graphene nanoplatelet nanocomposites. 875608792110296	1
397	Lightweight, few-layer graphene composites with improved electro-thermal properties as efficient heating devices for de-icing applications. 2021 , 182, 655-655	5
396	Enhancement investigations on dielectric and electrical properties of niobium pentoxide (Nb2O5) reinforced poly(vinylidene fluoride) (PVDF)- graphene oxide (GO) nanocomposite films. 1-11	1
395	Mechanical behavior of multilayer graphene reinforced epoxy nano-composites via a hierarchical multi-scale technique. 2021 , 4, 100048	2
394	Mechanical Strength of Graphene Reinforced Geopolymer Nanocomposites: A Review. 2021 , 8,	2
393	Biofilm inhibition and bactericidal activity of NiTi alloy coated with graphene oxide/silver nanoparticles via electrophoretic deposition. 2021 , 11, 14008	6
392	An integrated module for machinability evaluation and correlated response optimization during milling of carbon nanotube/glass fiber modified polymer composites. 2021 , 4, 303	1
391	Cellulose nanocrystal-mediated assembly of graphene oxide in natural rubber nanocomposites with high electrical conductivity. 2021 , 138, 51460	3
390	Probing the role of hydrolytically stable, 3-aminopropyl triethoxysilane crosslinked chitosan/graphene oxide membrane towards Congo red dye adsorption. 2021 ,	1
389	Micro Scalable Graphene Oxide Productions Using Controlled Parameters in Bench Reactor. 2021 , 11,	1
388	Dependence of the polycarbonate mechanical performances on boron nitride flakes morphology. 2021 , 4, 045002	O
387	Production and tribological evaluation of polypropylene nanocomposites with reduced graphene oxide (rGO) for using in water-lubricated bearings. 2021 , 477, 203860	0
386	Coagulation-assisted preparation of graphene oxide/polyamide 6 composites. 2021 , 266, 124579	O

385	Preparation and characterization of hybrid laminated composite beams. 1-14	3
384	Processing and properties of graphene-enhanced glass fibre composites using a scalable manufacturing process. 2021 , 267, 113874	
383	Flexible piezoelectric energy harvesters with graphene oxide nanosheets and PZT-incorporated P(VDF-TrFE) matrix for mechanical energy harvesting. 2021 , 47, 19614-19621	4
382	Enhancing HO Tolerance and Separation Performance through the Modification of the Polyamide Layer of a Thin-Film Composite Nanofiltration Membrane by Using Graphene Oxide. 2021 , 11,	2
381	Understanding the Reinforcement of Graphene in Poly(Ether Ether Ketone)/Carbon Fibre Laminates. 2021 , 13,	
380	Engineered tyrosinases with broadened bio-catalysis scope: immobilization using nanocarriers and applications. 2021 , 11, 365	2
379	Morphologic and synergistic effects of GNP/NS binary-filler-based multifunctional coatings with robust anti-corrosion and hydrophobic properties. 2021 , 157, 106286	1
378	Biomedical Applications of Antiviral Nanohybrid Materials Relating to the COVID-19 Pandemic and Other Viral Crises. 2021 , 13,	1
377	Molecular hierarchical release using hydrogenated graphene origami under electric field. 2021 , 131, 105844	1
376	Graphene as a stimulus for mechanical strength in glass-fiber reinforced polymers composite. 2021 , ahead-of-print,	
375	In-situ desorption of acetaminophen from the surface of graphene oxide driven by an electric field: A study by molecular dynamics simulation. 2021 , 418, 129391	4
374	Fast, simple, and gentle method for removal of polythiophene and other conductive polymer films from gold electrodes. 2021 , 895, 115466	2
373	Characterization of reduced graphene oxide/macrocyclic Fe(II) complex nanocomposite as the counter electrode in Pt-free dye-sensitized solar cells. 1-15	
372	Effects of temperature and repeat layer spacing on mechanical properties of graphene/polycrystalline copper nanolaminated composites under shear loading. 2021 , 12, 863-877	
371	Indirect Z-scheme heterojunction of NH2-MIL-125(Ti) MOF/g-C3N4 nanocomposite with RGO solid electron mediator for efficient photocatalytic CO2 reduction to CO and CH4. 2021 , 9, 105600	21
370	Methods of Synthesis and Specific Properties of Graphene Nano Composites for Biomedical and Related Energy Storage Applications. 2021 , 17, 572-590	2
369	Arginine-functionalized graphene oxide for green and high-performance symmetric supercapacitors. 2021 , 46, 30219-30229	3
368	Graphene-Based Nanocomposites: Synthesis, Mechanical Properties, and Characterizations. 2021 , 13,	16

367	Effects of nano reinforcing/matrix interaction on chemical, thermal and mechanical properties of epoxy nanocomposites. 002199832110370	4
366	Effective EMI shielding behaviour of thin graphene/PMMA nanolaminates in the THz range. 2021 , 12, 4655	21
365	Design, Development and Evaluation of Thermal Properties of Polysulphone-CNT/GNP Nanocomposites. 2021 , 11,	5
364	Effect of Graphene Concentration on the Electrochemical Properties of Cobalt Ferrite Nanocomposite Materials. 2021 , 11,	2
363	Redox-active polymers as organic electrode materials for sustainable supercapacitors. 2021 , 147, 111247	11
362	MicroRNA Delivery by Graphene-Based Complexes into Glioblastoma Cells. 2021 , 26,	1
361	Ionic liquid-plasticised composites of chitosan and hybrid 1D and 2D nanofillers. 2021 , 2,	O
360	A State-of-the-Art Review on Biowaste Derived Chitosan Biomaterials for Biosorption of Organic Dyes: Parameter Studies, Kinetics, Isotherms and Thermodynamics. 2021 , 13,	O
359	Covalent double functionalization of graphene oxide for proton conductive and redox-active functions. 2021 , 24, 101120	3
358	Photocatalytic CO2 reduction to CO and CH4 using g-C3N4/RGO on titania nanotube arrays (TNTAs). 2021 , 56, 18989	Ο
357	Simple and green route for fabrication of a nanostructured of the graphene-Fe3O4@PANI for the photovoltaic activity. 2021 , 139327	1
356	Analysis of bending deformation considering shear effect in graphene nanoribbons coated with nano-film. 2021 , 98, 801-812	O
355	Fabrication of GOMnO2 nanocomposite using hydrothermal process for cationic and anionic dyes adsorption: Kinetics, isotherm, and reusability. 2021 , 9, 106045	16
354	Characterization of graphene nanoplatelets reinforced sustainable thermoplastic elastomers. 2021 , 6, 100172	O
353	High flux and complete dyes removal from water by reduced graphene oxide laminate on Poly Vinylidene Fluoride/graphene oxide membranes. 2021 , 201, 111576	4
352	Sustained effect of dry water in a thermal environment after fire extinguishing: Fuel surface coating methods. 2021 , 27, 101237	O
351	Graphene nanoplatelet reinforcement for thermal and mechanical properties enhancement of bio-based polyamide 6, 10 nanocomposites for automotive applications. 2021 , 6, 100177	1
350	Effect of loading fraction of three-dimensional graphene foam (3D-C) on thermal, mechanical, and shape memory properties of 3D-C/SMP composite. 2021 , 142, 111378	1

349	Isogeometric analysis for buckling and postbuckling of graphene platelet reinforced composite plates in thermal environments. 2021 , 244, 112746	2
348	L-tyrosine grafted palladium graphite oxide and sulfonated poly(ether ether ketone) based novel composite membrane for direct methanol fuel cell. 2021 , 423, 130235	7
347	Preparation of highly efficient Ni-doped layered perovskite grafted graphene oxide NixSr1-xTiO3-RGO heterojunction photocatalyst with enhanced visible-light photocatalytic activity for MB degradation. 2021 , 273, 125119	2
346	Effects of inorganic nanofibers and high char yield fillers on char layer structure and ablation resistance of ethylene propylene diene monomer composites. 2021 , 150, 106633	Ο
345	Computational assessment of Stone-Wales defects on the elastic modulus and vibration response of graphene sheets. 2021 , 209, 106702	0
344	Ultra-high gas barrier and enhanced mechanical properties of corn cellulose nanocomposite films filled with graphene oxide nanosheets. 2021 , 2, 100066	5
343	A modified trilayer membrane for suppressing Li dendrite growth in all-solid-state lithium-metal batteries. 2021 , 426, 131850	4
342	Incorporation of polyaniline on graphene-related materials for wearable thermoelectric applications. 2021 , 304, 130576	4
341	Facile fabrication of well-designed 2D/2D porous g-C3N4GO nanocomposite for photocatalytic methane reforming (DRM) with CO2 towards enhanced syngas production under visible light. 2021 , 305, 121558	8
340	Polymer-graphene composite in aerospace engineering. 2022 , 683-711	
339	The use of polymer-graphene composites in catalysis. 2022 , 537-556	
338	Highly sensitive, self-powered photodetector based on reduced graphene oxide- polyvinyl pyrrolidone fibers (Fs)/p-Si heterojunction. 2022 , 889, 161647	3
337	Electrical conductivity of polymer-graphene composites. 2022 , 107-139	1
336	Investigation of Electromagnetic Pulse Compaction on Conducting Graphene/PEKK Composite Powder. 2021 , 14,	5
335	Thermal Properties of Boehmite-Epoxy Nanocomposites. 2021 , 301-324	
334	Novel Graphene Based Nanocomposites Based Nanoproducts. 2021 , 1-17	
333	Synthesis, characterization and electrical properties of conducting nanoparticles of graphene oxide. 2021 , 44, 3017-3024	6
332	Ti3C2 MXenepolymer nanocomposites and their applications. 2021 , 9, 8051-8098	26

331 Polymer Nanocomposite Matrix. **2021**, 1-20

330	Dispersant-assisted liquid-phase exfoliation of 2D materials beyond graphene. 2021 , 13, 460-484	26
329	Functionalized graphene-based nanocomposites for smart optoelectronic applications. 2021, 10, 605-635	7
328	Applications of electrospraying in biosensing, diagnostics, and beyond. 2021 , 277-329	
327	Mechanical Characterization of Carbon Fibre and Graphene Oxide Reinforced Epoxy Hybrid Composite. 2021 , 155-161	
326	Graphene Nanocomposite-Based Nanoproducts for Renewable Energy Application. 2021 , 1-16	
325	Development of novel polyether sulfone mixed matrix membranes to enhance antifouling and sustainability: Treatment of oil sands produced water (OSPW). 2021 , 118, 215-222	6
324	CHAPTER 6:Mechanical Properties of Polymer Functionalized Graphene. 2021 , 164-196	
323	Flexible, multifunctional, and thermally conductive nylon/graphene nanoplatelet composite papers with excellent EMI shielding performance, improved hydrophobicity and flame resistance. 2021 , 9, 5033-5044	18
322	Graphene for Energy Solutions and its Printable Applications. 191-236	1
321	Graphene: Synthesis, Properties and Application. 139-193	1
320	Conducting Polymer Membranes and Their Applications. 2020 , 147-176	4
319	Possibility Usage of Acacia Wood Bio-composites in Application and Appliances. 2019 , 207-224	1
318	Synthesis and Properties of Graphene and Graphene Oxide-Based Polymer Composites. 2019 , 175-201	1
317	Methods and Concepts. 2015 , 9-25	1
316	Smart Materials for Biosensing Applications. 2018 , 421-431	11
315	Electrical and Electronic Application of Polymerlarbon Composites. 2019, 397-455	5
314	Organic-Inorganic Hybrid Materials. 2019 , 213-233	1

313	Emerging Trends in Green Polymer Based Composite Materials: Properties, Fabrication and Applications. 2021 , 1-24	5
312	Application of Graphene-Based Biopolymer Nanocomposites for Automotive and Electronic Based Components. 2021 , 311-323	3
311	Active composites based on shape memory polymers: overview, fabrication methods, applications, and future prospects. 2020 , 55, 10975-11051	19
310	Nanocomposite hydrogels for tissue engineering applications. 2020 , 499-528	3
309	Graphene-based thin film nanocomposite membranes for separation and purification. 2020, 73-97	5
308	Recent advancements in graphene adsorbents for wastewater treatment: Current status and challenges. 2020 , 31, 2525-2538	44
307	Plasma-assisted mechanochemistry to produce polyamide/boron nitride nanocomposites with high thermal conductivities and mechanical properties. 2019 , 164, 710-719	29
306	Electrical conductivity and mechanical property improvement by low-temperature carbon nanotube growth on carbon fiber fabric with nanofiller incorporation. 2020 , 182, 107581	31
305	Effects of single layer graphene and graphene oxide modification on the properties of phthalocyanine blue pigments. 2020 , 180, 108449	8
304	Structure and properties of thermomechanically processed chitosan/carboxymethyl cellulose/graphene oxide polyelectrolyte complexed bionanocomposites. 2020 , 158, 420-429	15
303	Dispersion of graphite nanoplates in melt mixed PC/SAN polymer blends and its influence on rheological and electrical properties. 2020 , 200, 122577	12
302	High-actuation displacement with high flexibility for silicone rubber and few layer graphene composites. 2020 , 309, 111956	8
301	Preparation and loads transfer behaviour of graphene/halloysite organicIhorganic hybrid aerogel. 2020 , 15, 503-508	2
300	Corrosion behaviour of an epoxy paint reinforced with carbon nanoparticles. 2020 , 55, 603-608	4
299	Enhanced electrochemical performance of solution-processed single-wall carbon nanotube reinforced polyvinyl alcohol nanocomposite synthesized via solution-cast method. 2020 , 1, 030013	10
298	Hybrid PCDTBT:PCBM:Graphene-Nanoplatelet Photoabsorbers. 2020 , 167, 136504	3
297	CARBON-BASED HIGH ASPECT RATIO POLYMER NANOCOMPOSITES. 2013 , 85-123	2
296	Surface Morphology Analysis of Composite Thin Films based on Titanium-Dioxide Nanoparticles. 2017 , 131, 1529-1533	7

295	Elastic properties of CNT- and graphene-reinforced nanocomposites using RVE. 2016, 21, 1085-1103	11
294	Electrical and Chemical Properties of Graphene over Composite Materials: A Technical Review. 2019 , 16, 142-163	9
293	Review on the research progress of cement-based and geopolymer materials modified by graphene and graphene oxide. 2020 , 9, 155-169	116
292	A review on the properties, reinforcing effects, and commercialization of nanomaterials for cement-based materials. 2020 , 9, 303-322	28
291	Preparation and properties of composite materials containing graphene structures and their applicability in personal protective equipment: A Review. 2020 , 59, 215-242	22
29 0	Piezoresistive Characterization of Polyethylene Terephthalate © raphite Composite. 2017 , 45, 20160026	7
289	NanocompBitos de matriz epoxBica com reforBs produzidos a partir do grafite natural. 2013 , 18, 1216-1272	4
288	Advances in graphene-based polymer composites with high thermal conductivity. 2018 , 2, 1-17	11
287	POLÍAMÍD 6/GRAFEN NANOTABAKALI (PA6/GNP) KOMPOZÍTLERÍN TERMO-MEKANÍK ZELLÍKLERÍNÍN KARAKTERÍZASYONU.	1
286	Grafen Nanolevha Takviyesinin AlSi10Mg Ala∰⊞ Mikroyap⊞e Mekanik ⊠ellikleri ⊠erine Etkisi. 177-187	4
285	Assessing the static behavior of hybrid CNT-metal-ceramic composite plates. 2016 , 3, 808-831	4
284	Recent trends in the graphene-based sensors for the detection of hydrogen peroxide. 2018 , 5, 422-466	11
283	Enhancing electrical conductivity of multiwalled carbon nanotube/epoxy composites by graphene nanoplatelets. 2018 , 57,	3
282	Polymer Nanocomposites Coating for Anticorrosion Application. 2019 , 254-294	3
281	Graphene Sheets with Modified Surface by Sodium Lauryl Sulfate Surfactant for Biomedical Applications. 2016 , 05, 155-165	1
280	Modification Effect of Nano-Graphene Oxide on Properties and Structure of Polysulfone Ultrafiltration Membrane. 2018 , 09, 1185-1195	2
279	Synthesis and Characterization of Graphene Based Unsaturated Polyester Resin Composites. 2013 , 14, 53-58	17
278	Synthesis and Properties of Polyimide Composites Containing Graphene Oxide Via In-Situ Polymerization. 2012 , 13, 230-235	20

(2016-2014)

277	Effect of chemically reduced graphene oxide on epoxy nanocomposites for flexural behaviors. 2014 , 15, 67-70	16
276	Characteristics of Silane Treated Graphene Filled Nanocomposites Exposed to Low Earth Orbit Space Environment. 2015 , 28, 130-135	1
275	Fabrication of EPDM Rubber/Organo-bentonite Composites: Influence of Hydrochloric Acid on the Characteristics of Modified Bentonite and Final Products. 2014 , 38, 62-68	6
274	Graphene Attached on Microsphere Surface for Thermally Conductive Composite Material. 2013 , 19, 243-248	2
273	Raman Spectra and Mechanical Properties of Graphene/Polypropylene Nanocomposites. 2015, 6, 1-5	19
272	Reduced graphene oxide for the development of wearable mechanical energy-harvesters: A review. 2021 , 1-1	3
271	The optimization of Carreau model and rheological behavior of alumina/linear low-density polyethylene composites with different alumina content and diameter. 2021 , 21, 742-753	Ο
270	Acoustic Absorption Properties of Polystyrene-Pyrolytic Pinus Resinosa Composite Foams Prepared by Torsion-Induced Extrusion. 2100622	
269	Electrical conductivity of polymer/carbon nanofillers composites. 2021 , 2045, 012008	
268	Buckling and free vibration of axially functionally graded graphene reinforced nanocomposite beams. 2021 , 249, 113327	6
267	Evolution and recent developments of high performance electrode material for supercapacitors: A review. 2021 , 44, 103366	10
266	Fabrication and Electrical, Thermal and Morphological Properties of Novel Carbon Nanofiber Web/Unsaturated Polyester Composites. 2010 , 11, 285-292	
265	Effect of Interfacial Bonding on Piezoresistivity in Carbon Nanotube and Reduced Graphene Oxide Polymer Nanocomposites. 2012 , 13, 137-144	1
264	Tensile Property and Cytotoxicity of Electrospun PLGA/Graphene Composite Scaffold. 2013, 50, 40-47	
263	Aktuelle Trends in den Polymerwissenschaften. 2014 , 569-593	
262	Encyclopedia of Membranes. 2015 , 1-3	
261	Covalent Graphene-Polymer Nanocomposites. 101-149	
260	Encyclopedia of Membranes. 2016 , 1884-1886	O

259	Molecular dynamics simulation on the glass transition temperature and mechanical properties of polyimide/functional graphene composites. 2017 , 66, 227101	2
258	Piezoresistive effect in composite films based on polybenzimidazole and few-layered graphene. 2017 ,	O
257	Bioplasitcizer Epoxidized Vegetable Oils-Based Poly(Lactic Acid) Blends and Nanocomposites. 205-231	
256	Conducting Polymer Composite-Based Sensors for Flexible Electronics. 2018 , 1-32	
255	Functionalized Graphene/Polymer Nanofiber Composites and Their Functional Applications. 2019, 127-156	О
254	Graphene-Based Advanced Materials: Properties and Their Key Applications. 2019, 31-51	
253	Introduction. 2019 , 1-18	
252	Graphene, Its Analogues, and Modern Science. 2019 , 215-236	
251	Scope of Polymer/Graphene Nanocomposite in Defense Relevance. 2019 , 296-315	
250	Conducting Polymer Composite-Based Sensors for Flexible Electronics. 2019 , 1311-1341	1
250 249	Conducting Polymer Composite-Based Sensors for Flexible Electronics. 2019, 1311-1341	1
		1
249	到的的程则知知 到的图2019 , 14, 56-64	
249 248	Fabrication of Polymer-Graphene Nanocomposites. 2020, 1-15 A Review of Recent Developments in Mechanical Properties of Polymer@lay Nanocomposites.	1
249 248 247	Fabrication of Polymer-Graphene Nanocomposites. 2020, 1-15 A Review of Recent Developments in Mechanical Properties of Polymer@lay Nanocomposites. 2020, 107-129 Investigation on Mechanical and Thermal Behaviours of PBAT/PLA Blend Reinforced with Reduced	1
249 248 247 246	Fabrication of Polymer-Graphene Nanocomposites. 2020, 1-15 A Review of Recent Developments in Mechanical Properties of Polymer@lay Nanocomposites. 2020, 107-129 Investigation on Mechanical and Thermal Behaviours of PBAT/PLA Blend Reinforced with Reduced Graphene Oxide Nanosheets. 2020, 631-639 Studies on the Role of Graphene Nanoplatelets on Mechanical Properties, Dynamic-mechanical and	2
249248247246245	Fabrication of Polymer-Graphene Nanocomposites. 2020, 1-15 A Review of Recent Developments in Mechanical Properties of Polymer@lay Nanocomposites. 2020, 107-129 Investigation on Mechanical and Thermal Behaviours of PBAT/PLA Blend Reinforced with Reduced Graphene Oxide Nanosheets. 2020, 631-639 Studies on the Role of Graphene Nanoplatelets on Mechanical Properties, Dynamic-mechanical and Thermogravimetric Analysis of Carbon-Epoxy Composites. 1 Computational Modeling of Hybrid Carbon Fiber/Epoxy Composites Reinforced with Functionalized	1 2 0

241	Natural Rubber/Graphene Nanocomposites and Their Applications. 2021 , 203-220	
240	The effects of solvent casting temperature and physical aging on polyhydroxybutyrate-graphene nanoplatelet composites. 2021 , 42, 1451-1461	1
239	Graphene Nanocomposite: Concept and Applications. 2021 , 1-13	
238	The Insulating Properties of Polypropylene Blends Modified by ULDPE and Graphene for HVDC Cables. 2021 , 97-126	
237	On the graphene and its derivative based polymer nanocomposites for glucose sensing. 2022 , 307, 130971	7
236	Ferroelectric Polymers PVDF and P(VDFIIrFE) Films and Their Composites With Either Graphene or Graphene Oxide: Molecular Modeling and Experimental Observations. 2022 , 483-494	
235	Investigation of Electrical Properties of Graphene-Based Nanocomposites Supported by Tunnelling AFM (TUNA). 2020 , 375-387	
234	Bioenergy-Byproducts Based Electrodes for Flexible Supercapacitors. 2020 , 437-464	
233	Diverse Applications of Graphene-Based Polymer Nanocomposites. 2020 , 47-82	1
232	Grafeno oksido poveikis cementini[med[ag[hidratacijai, struktfai ir savybfhs. 2020 ,	
-5-		
231	Synthesis of Graphene-based Polymeric Nanocomposites using Emulsion Techniques. <i>Progress in Polymer Science</i> , 2021 , 125, 101476	7
	Synthesis of Graphene-based Polymeric Nanocomposites using Emulsion Techniques. <i>Progress in</i>	7
231	Synthesis of Graphene-based Polymeric Nanocomposites using Emulsion Techniques. <i>Progress in Polymer Science</i> , 2021 , 125, 101476 Enhancement of chromic-piezoelectric sensitivity responses of polyvinylidene	7
231	Synthesis of Graphene-based Polymeric Nanocomposites using Emulsion Techniques. <i>Progress in Polymer Science</i> , 2021 , 125, 101476 Enhancement of chromic-piezoelectric sensitivity responses of polyvinylidene fluoride/polydiacetylene nanofibers using graphene oxide. 2021 , 28, 1	7
231 230 229	Synthesis of Graphene-based Polymeric Nanocomposites using Emulsion Techniques. <i>Progress in Polymer Science</i> , 2021 , 125, 101476 Enhancement of chromic-piezoelectric sensitivity responses of polyvinylidene fluoride/polydiacetylene nanofibers using graphene oxide. 2021 , 28, 1 Electrospinning of Graphene Oxide-Based Nanofibers for Supercapacitor Applications. 2021 , 367-383	7 1
231 230 229 228	Synthesis of Graphene-based Polymeric Nanocomposites using Emulsion Techniques. <i>Progress in Polymer Science</i> , 2021 , 125, 101476 Enhancement of chromic-piezoelectric sensitivity responses of polyvinylidene fluoride/polydiacetylene nanofibers using graphene oxide. 2021 , 28, 1 Electrospinning of Graphene Oxide-Based Nanofibers for Supercapacitor Applications. 2021 , 367-383 Lead and Cadmium Toxic Metals Removal by Carbon Nanocomposites. 2021 , 343-363 Potential Applications of Graphene-Based Nanomaterials in Biomedical, Dental, and Implant	1
231 230 229 228 227	Synthesis of Graphene-based Polymeric Nanocomposites using Emulsion Techniques. <i>Progress in Polymer Science</i> , 2021 , 125, 101476 Enhancement of chromic-piezoelectric sensitivity responses of polyvinylidene fluoride/polydiacetylene nanofibers using graphene oxide. 2021 , 28, 1 Electrospinning of Graphene Oxide-Based Nanofibers for Supercapacitor Applications. 2021 , 367-383 Lead and Cadmium Toxic Metals Removal by Carbon Nanocomposites. 2021 , 343-363 Potential Applications of Graphene-Based Nanomaterials in Biomedical, Dental, and Implant Applications. 2021 , 77-105 Influence of Point Mass Over FGM Plate for Vibration Signature in Different Boundary Conditions	1

223	Solution-processed 2D hectorite nanolayers for high-efficient composite solid-state electrolyte. 2022 , 216, 106363	О
222	Polymer/graphene nanocomposites as versatile platforms for energy and electronic devices. 2022 , 173-196	
221	Rapid effective reduction by microwave-irradiated thermal reaction for large-scale production of high-quality reduced graphene oxide. 2022 , 187, 330-337	0
220	Recent advances on bioprinting of hydrogels containing carbon materials. 2022 , 23, 100617	3
219	Numerical investigation of fracture behavior by crazing in graphene reinforced polymers. 1-9	
218	Morphology, electrical conductivity, and rheology of latex-based polymer/nanocarbon nanocomposites. 2021 , 33, 357-366	2
217	The synthesis and characterization of graphene-based cobalt ferrite nanocomposite materials and its electrochemical properties. 2021 , 11, 2661-2668	0
216	Flexible, robust, and high-performance gas sensors based on lignocellulosic nanofibrils 2022 , 278, 118920	7
215	Electroresponsive Hydrogels for Therapeutic Applications in the Brain. 2021 , e2100355	3
214	Consumer Nanoproducts Based on Graphene and Graphene-Based Nanocomposite. 2021 , 1-22	
213	Preparation and electromagnetic shielding performances of graphene/TPUBVDF nanocomposites by high-energy ball milling. 1	0
212	On the free vibration behavior of nanocomposite laminated plates contained piece-wise functionally graded graphene-reinforced composite plies. 2022 , 253, 113784	1
211	In situ graphene oxide-gelatin hydrogels with enhanced mechanical property for tissue adhesive and regeneration 2022 , 592, 24-30	1
210	Recent developments in natural rubber nanocomposites containing graphene derivatives and its hybrids. 2022 , 177, 114529	2
209	Self-reinforced composites based on polypropylene fiber and graphene nano-platelets/polypropylene film. 2022 , 189, 586-595	1
208	Chapter 4. Advanced Membranes Functionalized with Carbon-based 2D Nanomaterials for Liquid Separation. 2021 , 83-107	
207	Graphene for Antimicrobial and Coating Application 2022 , 23,	4
206	Graphene oxide nanosheets functionalized protected amine for tuning of interlayer d-spacing with DFT studies: A versatile material design. 2022 , 12, 37	O

205	Influences of elastic foundations and thermal environments on the thermoelastic buckling of nanocomposite truncated conical shells. 2022 , 233, 685	1
204	Review on Graphene-, Graphene Oxide-, Reduced Graphene Oxide-Based Flexible Composites: From Fabrication to Applications 2022 , 15,	17
203	Failure Simulation in Notched Polymer Nanocomposites using Molecular Dynamics. 2022,	
202	l b-Based Epoxy/Amine Reinforced with Reduced Graphene Oxide (rGO) or GLYMO-rGO: Study of Curing Kinetics, Mechanical Properties, Lamination and Bonding Performance 2022 , 12,	1
201	Shape memory polymer/graphene nanocomposites: State-of-the-art. 2022 , 22, 165-181	9
200	Deformation mechanism of copper reinforced by three-dimensional graphene under torsion and tension. 2022 , 30, 025004	1
199	Chitosan-based green nanomaterials for treatment of textile industry dyes. 2022, 153-176	
198	Effect of Grain BoundariesDoping on the Mechanical Properties of Nitrogen-Doped Bicrystalline Graphene. 2022 , 121, 108771	2
197	Electromagnetic interference shielding materials: recent progress, structure design, and future perspective. 2021 , 10, 44-72	7
196	Physical, mechanical and viscoelastic properties of Biocomposite produced from polylactic acid (PLA) and wood flour using graphene nanoparticles. 1-8	1
195	Computational Study on Production Mechanism of Nano-Graphene Oxide/Poly Diallyl Dimethyl Ammonium Chloride (NGO/PDADMAC) Nanocomposite. 1-14	0
194	Effect of Graphene on Mechanical and Morphological Properties of Coconut Shell Reinforced Unsaturated Polyester Composite. 908, 33-38	O
193	Potentialities of graphene and its allied derivatives to combat against SARS-CoV-2 infection 2022 , 13, 100208	4
192	Two-dimensional nanomaterial-based polymer composites: Fundamentals and applications. 2022 , 11, 770-792	5
191	Thermal Characterization of Graphene Based Composites. 2022 , 8,	
190	Graphene-based materials: analysis through calorimetric techniques. 1	1
189	Formulation of nano-graphene doped with nano silver modified dentin bonding agents with enhanced interfacial stability and antibiofilm properties 2021 , 38, 347-347	2
188	Review on the preparation and application of lignin-based carbon aerogels 2022 , 12, 10755-10765	O

187	Polymer/Carbon Nanocomposites: Synthesis, Properties and Application in Solar Energy. 2022, 795-816	1
186	Graphene-Based Polymer Composites: Physical and Chemical Properties. 2022 , 159-197	
185	Graphene Polymer Composites for Biomedical Applications. 2022 , 435-470	
184	Annealing induced high-impact toughness of injection molded isotactic polypropylene filled with liquid-phase exfoliated graphene.	0
183	Carboxyl-functionalized graphene reinforced aromatic polyamide nanocomposites. 089270572210742	
182	A novel economically viable method of preparation of graphene-rubber masterbatch for its application in tyre compound. 2022 ,	
181	Computational and experimental study of dental resin composites with high filler content. 2022 , 57, 5788-5804	0
180	In-situ interfacial compatibilization via edge-sulfurated few layer graphene during the formation of crosslinked graphene-rubber nanocomposites 2022 , 12, 4013	1
179	Investigation of Structural and Thermal Properties of Graphene Oxide Reinforced Epoxy Nanocomposites.	
178	Graphene oxide-based multi-component antimicrobial hydrogels.	1
178	Graphene oxide-based multi-component antimicrobial hydrogels. Enhanced mechanical strength and antibacterial properties of Chitosan/Graphene oxide composite fibres. 1	0
	Enhanced mechanical strength and antibacterial properties of Chitosan/Graphene oxide composite	
177	Enhanced mechanical strength and antibacterial properties of Chitosan/Graphene oxide composite fibres. 1 Preparation of Styrene-Butadiene Rubber (SBR) Composite Incorporated with	О
177 176	Enhanced mechanical strength and antibacterial properties of Chitosan/Graphene oxide composite fibres. 1 Preparation of Styrene-Butadiene Rubber (SBR) Composite Incorporated with Collagen-Functionalized Graphene Oxide for Green Tire Application 2022, 8, Transfer of dislocation slip through grain boundaries in metal-graphene nanocomposites. 2022,	0
177 176	Enhanced mechanical strength and antibacterial properties of Chitosan/Graphene oxide composite fibres. 1 Preparation of Styrene-Butadiene Rubber (SBR) Composite Incorporated with Collagen-Functionalized Graphene Oxide for Green Tire Application 2022, 8, Transfer of dislocation slip through grain boundaries in metal-graphene nanocomposites. 2022, 241, 111515 Exfoliated graphene and its derivatives from liquid phase and their role in performance	O 2 O
177 176 175	Enhanced mechanical strength and antibacterial properties of Chitosan/Graphene oxide composite fibres. 1 Preparation of Styrene-Butadiene Rubber (SBR) Composite Incorporated with Collagen-Functionalized Graphene Oxide for Green Tire Application 2022, 8, Transfer of dislocation slip through grain boundaries in metal-graphene nanocomposites. 2022, 241, 111515 Exfoliated graphene and its derivatives from liquid phase and their role in performance enhancement of epoxy matrix composite. 2022, 156, 106886 The significance of graphene based composite hydrogels as smart materials: A review on the	O 2 O 1
177 176 175 174	Enhanced mechanical strength and antibacterial properties of Chitosan/Graphene oxide composite fibres. 1 Preparation of Styrene-Butadiene Rubber (SBR) Composite Incorporated with Collagen-Functionalized Graphene Oxide for Green Tire Application 2022, 8, Transfer of dislocation slip through grain boundaries in metal-graphene nanocomposites. 2022, 241, 111515 Exfoliated graphene and its derivatives from liquid phase and their role in performance enhancement of epoxy matrix composite. 2022, 156, 106886 The significance of graphene based composite hydrogels as smart materials: A review on the fabrication, properties, and its applications. 2022, 33, 100352 Preparation and characterization of lignin/nano graphene oxide/styrene butadiene rubber	O 2 O 1

169	Mechanical and Water Absorption Properties of Short Banana Fiber/Unsaturated Polyester/Molecular Sieves + ZnO Nanorod Hybrid Nanobiocomposites 2021 , 6, 35256-35271	О
168	Creation of Tortuosity in Unfilled Rubber via Heterogeneous Cross-Linking toward Improved Barrier Property. 2021 , 54, 11522-11532	O
167	Poly(lactic acid) (PLA)-Based Nanosystems in Biomedical Applications. 2022, 63-89	1
166	On linear and nonlinear bending of functionally graded graphene nanoplatelet reinforced composite beams using Gram-Schmidt-Ritz method. 1-27	О
165	A Finite Element Analysis of the Effects of Graphene and Carbon Nanotubes on Thermal Conductivity of Co Phase in WC-Co Carbide 2021 , 14,	0
164	Facile synthesis of zwitterionic surfactant-assisted molybdenum oxide/reduced graphene oxide nanocomposite with enhanced photocatalytic and antimicrobial activities. 2022 , 69, 269-279	O
163	A Novel Method to Prepare Transparent, Flexible and Thermally Conductive Polyethylene/Boron Nitride Films 2021 , 12,	1
162	Roadmap of Effects of Biowaste-Synthesized Carbon Nanomaterials on Carbon Nano-Reinforced Composites. 2021 , 11, 1485	1
161	Graphene oxide-Fe3O4 nanocomposite used as aniline adsorbent with a wide pH range. 2022 , 300, 83-93	1
160	Recovery of Some Rare-Earth Elements by Sorption Technique onto Graphene Oxide.	1
159	Porous, Encapsulated SiDC Lithium-Ion Battery Anode Materials from Silicone-Containing Polyesters: Influences of Graphene Oxides.	
158	Fluorine-18 Fluorodeoxyglucose Isolation Using Graphene Oxide for Alternative Radiopharmaceutical Spillage Decontamination in PET Scan. 2022 , 14, 4492	O
157	Additive Manufactured Poly(Laprolactone)-graphene Scaffolds: Lamellar Crystal Orientation, Mechanical Properties and Biological Performance 2022 , 14,	1
156	Data_Sheet_1.pdf. 2019 ,	
155	Effect of graphene nanoparticles on suspension viscosity and mechanical properties of epoxy-based nanocomposites. 2022 , 37, 820-825	2
154	Graphene Nanocomposite-Based Nanoproducts for Renewable Energy Application. 2022, 357-372	
153	Applications of Graphene and Graphene-Based Nanocomposite for Consumer Nanoproducts. 2022 , 501-522	
152	Graphene Nanocomposite-Based Nanoproducts. 2022 , 373-400	

Novel Graphene-Based Nanocomposites-Based Nanoproducts. **2022**, 401-417

150	A comprehensive review of current research on various materials used for developing composite bipolar plates in polymer electrolyte membrane fuel cells.	O
149	Low cost hydrothermal synthesis of optically important graphene/zinc oxide nanocomposites. 2022 , 18, 291-299	
148	Synergistic effects of tubular halloysite clay and zirconium phosphate on thermal behavior of intumescent coating for structural steel. 2022 , 18, 4456-4469	
147	The Effect of Residual Solvent in Carbon B ased Filler Reinforced Polymer Coating on the Curing Properties, Mechanical and Corrosive Behaviour. 2022 , 15, 3445	1
146	A review on recent advances on the mechanical and conductivity properties of epoxy nanocomposites for industrial applications. 1	1
145	Recent advances in epoxy coatings for corrosion protection of steel: Experimental and modelling approach-A review. 2022 ,	1
144	Mechanical properties of in situ modified graphene nanosheets-reinforced polypropylene.	1
143	Nonlinear vibration of third-order shear deformable FG-GPLRC beams under time-dependent forces: GramBchmidt R itz method. 2022 , 176, 109343	1
142	Effect of graphene oxide on the performance of foamed concrete and its action mechanism in cement. 2022 , 12, 305-318	
141	Recent advances in experimental and molecular dynamics study of graphene-oxide/natural rubber composites: A review. 073168442211029	1
140	The effect of graphene-based nanofillers on the structure, thermal, and mechanical properties of poly(vinyl alcohol).	O
139	Comparative investigation on antibacterial studies of Oxalis corniculata and silver nanoparticle stabilized graphene surface.	О
138	The effect of chemical tagging of graphene oxide in thermoplastic polyurethane on gelation behavior. 2022 , 253, 124999	1
137	Characterisation of graphene oxide-coated sand for potential use as proppant in hydraulic fracturing. 2022 , 15,	О
136	Water Treatment Using High Performance Antifouling Ultrafiltration Polyether Sulfone Membranes Incorporated with Activated Carbon. 2022 , 14, 2264	
135	Graphene-based polymer composites for photocatalytic applications. 2022 , 377-432	
134	Introduction to graphene-based materials and their composites. 2022 , 1-47	

133	Comprehensive Characterization of Solution-Cast Pristine and Reduced Graphene Oxide Composite Polyvinylidene Fluoride Films for Sensory Applications. 2022 , 14, 2546	O
132	Effect of addition of graphene nanoplatelets on the mechanical properties of triaxially braided composites. 1-29	Ο
131	In Situ Formation of Microfibrillar PBAT in PGA Films: An Effective Way to Robust Barrier and Mechanical Properties for Fully Biodegradable Packaging Films. 2022 , 7, 21280-21290	O
130	Challenges, Opportunities and Future Directions of Membrane Technology for Natural Gas Purification: A Critical Review. 2022 , 12, 646	1
129	Thermo-mechanical behavior of a rotating FG-GRC circular disk with variable thickness considering GNP dispersion patterns. 2022 , 178, 109484	O
128	Fabrications and applications of polymergraphene nanocomposites for sustainability. 2022 , 149-184	
127	Fabrication and properties of graphene oxide and reduced graphene oxide reinforced Poly(Vinyl alcohol) nanocomposite films for packaging applications. 2022 , 30, 096739112211133	
126	2D materials p olymer composites for developing piezoelectric energy-harvesting devices. 2022 , 99-128	
125	Multicomponent Flexible Electromagnetic Absorber in X-Band.	
124	Lowering the curing shrinkage of epoxy acrylate-based photosensitive resins through nano-TiO 2 particle with surface grafted by thiol-terminated hyperbranched polymer. 2022 , 139,	
123	Graphene-Embedded Hybrid Network Structure to Render Olefin Block Copolymer Foams with High Compression Performance. 2022 , 61, 9735-9744	2
122	A review on the alternative of indium tin oxide coated glass substrate in flexible and bendable organic optoelectronic device.	1
121	Multivariate regression (MVR) and different artificial neural network (ANN) models developed for optical transparency of conductive polymer nanocomposite films. 2022 , 207, 117937	O
120	Processing of Graphene/Elastomer Nanocomposites: A Minireview.	
119	Real-time observation of microcrack growth in thin film microtomed from rubber/nanocellulose composite sheets, during tensile deformation.	
118	Fabrication of super-strength PA66/graphene nanocomposite fibers reinforced with small lateral-sized graphene and graphene oxide nanosheets. 2022 , 57, 14297-14309	
117	Applications of Spectroscopic Techniques for Characterization of Polymer Nanocomposite: A Review.	O
116	Influence of fillers on epoxy resins properties: a review. 2022 , 57, 15183-15212	3

Construction of Electrochemical Sensors for Antibiotic Detection Based on Carbon Nanocomposites. **2022**, 12, 2789

114	Flexible Sandwich-Structured Silicone Rubber/MXene/Fe3O4 Composites for Tunable Electromagnetic Interference Shielding. 2022 , 61, 11766-11776	O
113	A review on the proton exchange membrane fuel cells (PEMFCs) water/thermal management: From theory to the current challenges and real-time fault diagnosis methods. 2022 , 100002	2
112	Nanomaterial-based electrochemical enzymatic biosensors for recognizing phenolic compounds in aqueous effluents. 2022 , 214, 113858	1
111	Non-isothermal Crystallization Kinetics of Polyvinylidene Fluoride (PVDF)/Microcrystalline Graphite (MCG) Composites. 1-14	0
110	The effect of reduced graphene oxide content on the microstructural and mechanical properties of copper metal matrix composites. 2022 , 856, 143921	O
109	Hybrid composites based on carbon nanotubes and graphene nanosheets outperforming their single-nanofiller counterparts. 2022 , 36, 100431	1
108	Synthesis and characterization of aramid composites reinforced with silanized graphene platelets. 2022 , 12, 26753-26762	O
107	Enhanced dual photo/thermal initiating systems for preparation of few layer graphene filler-based composites and 3D printing.	0
106	Effect of graphene oxide reinforcement on the flexural behavior of an epoxy resin. 2022, 112, 602-606	O
105	Introduction to Chitosan and Chitosan-Based Nanocomposites. 2022, 1-51	О
104	Electrical and dielectric properties of nanoparticles-based polymer composites. 2022 , 197-218	O
103	Graphene oxides and its composites as new generation adsorbents for remediation of toxic pollutants from water: An overview. 2022 , 65-85	O
102	Preparation and study of the flame retardant properties of C60/PMMA microspheres. 2022 , 12, 22623-22630	O
101	3D Hierarchical V and N-codoped MoS2/rGO Composite as a Potential Electrode Material Towards Hydrogen Evolution Reaction in Acidic and Alkaline pH. 2022 , 155-169	0
100	Modification of C.I. Pigment Red 146 with surfactants and graphene oxide. 2022 , 12, 21859-21865	O
99	Study on the nanoscale mechanical properties of graphene oxide@nhanced shear resisting cement. 2022 , 61, 552-562	O
98	Mechanical and thermal properties of graphene nanoplatelets-reinforced recycled polycarbonate composites. 2023 , 6, 117-128	2

97	The Effect of Agglomeration on the Electrical Percolation of Polyimide/Graphene Nanocomposites. 2022 ,	Ο
96	Enhanced mechanical properties of bridged graphene oxide/bismaleimide nanocomposites.	O
95	New Frontiers of Graphene Based Nanohybrids for Energy Harvesting Applications. 2022, 78-103	О
94	The Effect of Carbon/Oxygen Ratio upon Structure-Property Relationships in Polymer/Graphene Nanocomposites. 37, 59-78	O
93	Scalable Manufacturing Process and Multifunctional Performance of Cotton Fibre-Reinforced Poly(Lactic Acid) (PLA) Bio-Composites Coated by Graphene Oxide. 2022 , 14, 3946	O
92	A rapid and sensitive method to detection of Cr3+by using the Fe3O4@Pectin-polymethacrylimide@graphene quantum dot as a sensitive material.	O
91	Artificial Neural Network (ANN) for Parametric Appraisal and Milling Efficiency Evaluation of Carbon/Epoxy Nanocomposites. 2023 , 167-179	O
90	Aptasensors Based on Graphene Field-Effect Transistors for Arsenite Detection. 2022 , 5, 12848-12854	2
89	Fabrication of Electrospun Exfoliated Graphite Nanosheets/Polystyrene composite nanofiber mats. 08927	70572211294
88	Graphene nanoplatelet filled elastomer composites; influence of different matrices on the dispersion, electrical and mechanical properties.	1
87	Continuous film casting of polycarbonate/single-walled carbon nanotubes composites with ultrasound-assisted twin-screw extruder: Effect of screw configuration.	O
86	Research progress on dielectric properties of PU and its application on capacitive sensors and OTFTs. 2022 , 105420	1
85	Progress in preparation, characterization, surface functional modification of graphene oxide: A review. 2022 , 101560	O
84	Safety issue on PCM-based battery thermal management: Material thermal stability and system hazard mitigation. 2022 , 53, 580-612	1
83	Graphene enhanced linear low-density polyethylene nanocomposites by premixing and melt compounding. 2021 , 31,	0
82	Graphene Oxide-Incorporated Cementitious Composites: A Thorough Investigation.	O
81	Enhanced thermal conductivity in copolymerized Polyimide. 2022, 105451	0
80	Crystallisation Kinetics and Associated Electrical Conductivity Dynamics of Poly(Ethylene Vinyl Acetate) Nanocomposites in the Melt State. 2022 , 12, 3602	O

79	Graphene-Based Materials, Their Composites, and Potential Applications. 2022, 15, 7184	0
78	Synergistically Improving Mechanical and Interfacial Properties of Epoxy Resin and CFRP Composites by Introducing Graphene Oxide. 2022 , 2022, 1-14	0
77	Effect of Graphene Content on the Mechanical Properties of PMMA Composites. 2023, 954-967	O
76	Effect of non-functionalized and functionalized graphene oxide with a silane agent on the thermal and rheological properties of nylon 6,6.	O
75	Composition and processing influence on the performance of graphene-containing SBR/BR rubber compounds.	O
74	Fused filament fabrication of polyamide 6 nanographene composite for electrostatic discharge applications. 2023 , 287, 116086	O
73	Synchronizing charge-carrier capacity and interfacial morphology of green rGO modified ZnO and TiO2 heterojunctions and study of their photocatalytic behaviour towards UV and visible light active drug and dye. 2023 , 287, 116094	О
72	Graphene Reinforced Polymer Matrix Nanocomposites: Fabrication Method, Properties and Applications.	O
71	Assessment of graphene-based polymers for sustainable wastewater treatment: Development of a soft computing approach. 2022 , 137189	O
70	Optimal time delayed control of the combination resonances of viscoelastic graphene sheets under dual-frequency excitation. 2022 , 165, 112856	O
69	Review on effects of graphene oxide on mechanical and microstructure of cement-based materials. 2022 , 360, 129609	0
68	Graphene/Polyaniline nanocomposite as efficient electrocatalyst for oxygen reduction reaction for fuel cells. 2022 , 110192	O
67	Conductive polymers and composite-based systems: A quantum leap in the drug delivery arena and therapeutics. 2023 , 485-522	О
66	Growth mechanism study of boron nitride atomic layer deposition by experiment and density functional theory. 2023 , 217, 111919	O
65	Innovations in the synthesis of graphene nanostructures for bio and gas sensors. 2023, 145, 213234	2
64	Carbon material/vitrimer composites: Towards sustainable, functional, and high-performance crosslinked polymeric materials. 2023 , 13, 100136	1
63	A systematic study of the effect of graphene oxide and reduced graphene oxide on the thermal degradation behavior of acrylonitrile-butadiene rubber in air and nitrogen media. 2023 , 19, e01501	О
62	Grafting macromolecular chains on the surface of graphene oxide through crosslinker for antistatic and thermally stable polyethylene terephthalate nanocomposites. 2022 , 12, 33329-33339	0

61	Dispersion of graphene oxide nanolayers in novel heat-stable poly(benzimidazole-amide) by ultrasonic irradiation route: synthesis and characterization. 2023 , 62, 76-85	0
60	On-Site Application of Solar-Activated Membrane (CrMn-Doped TiO2@Graphene Oxide) for the Rapid Degradation of Toxic Textile Effluents. 2022 , 12, 1178	O
59	Flexible Graphene-Copper Nanocomposite for Potential Wearable Electronics Applications. 1075, 39-47	О
58	Biodegradable polymer/graphene oxide Bmposite for in vivo use.	О
57	Enhanced photodetection properties of GO incorporated flexible PVDF membranes under solar spectrum. 2022 , 29,	O
56	Molybdenum disulfide of modified in situ as a nanofiller for enhanced mechanical properties and thermal properties of polypropylene composites.	O
55	Properties of polyamide 6/multiwalled carbon nanotubes composites: The influence of processing methods. 2023 , 140,	Ο
54	Modified Graphene Oxide/Polyvinyl Chloride Membranes for Wastewater Treatment.	Ο
53	Reduced graphene oxide coated poly-methyl methacrylate beads based thermoplastic polyurethane nanocomposites for gas sensing applications. 1-10	0
52	Enhancing the Performance of PVDF/GO Ultrafiltration Membrane via Improving the Dispersion of GO with Homogeniser. 2022 , 12, 1268	O
51	Free vibration analysis of rotating stiffened functionally graded graphene-platelet-reinforced composite toroidal shell segments with novel four-unknown refined theories.	Ο
50	Reinforced polyaniline nanocomposite nanofibers: cutting-edge potential. 2022 , 61, 1088-1101	1
49	Bio-based polyurethane-graphene composites for adhesive application.	O
48	An Investigation on Mechanical Characteristics of Carbon Nanomaterials Used in Cementitious Composites. 2022 , 1-22	O
47	Packaging Materials Based on Styrene-Isoprene-Styrene Triblock Copolymer Modified with Graphene. 2023 , 15, 353	O
46	Modification and development in the microstructure of PVA/CMC-GO/Fe3O4 nanocomposites films as an application in energy storage devices and magnetic electronics industry. 2023 ,	O
45	Flexible temperature sensors based on two-dimensional materials for wearable devices.	0
44	Some Typical Applications of Chemical Product Design and Intellectual Property. 2023, 7-21	O

43	Polypropylene and Graphene Nanocomposites: Effects of Selected 2D-Nanofiller Plate Sizes on Fundamental Physicochemical Properties. 2023 , 8, 8	O
42	Flexible Electromagnetic Absorber in X-Band Using a Polymer Electrolyte Having Mixed Conduction.	O
41	Introduction to polymer composite-based sensors. 2023 , 1-21	0
40	Composite Materials: A Review of Polymer and Metal Matrix Composites, Their Mechanical Characterization, and Mechanical Properties.	O
39	Polymeric nanocomposites reinforced with noncovalently bonded fullerene. 2023, 43-64	0
38	Ni-Co-Cu/carbon Nanocomposites Synthesis, Characterization and Magnetic Properties.	o
37	Electrode materials for EDLC and pseudocapacitors. 2023 , 179-198	0
36	From two-dimensional materials to polymer nanocomposites with emerging multifunctional applications: A critical review.	1
35	Functionalized graphene nanomaterials: Next-generation nanomedicine. 2023, 3-18	0
34	Graphene-based polymer coatings for preventing marine corrosion: a review.	o
33	Scalable preparation of high-quality graphene by electrochemical exfoliation: effect of hydrogen peroxide addition. 2023 , 46,	0
32	Graphene Utilization for Efficient Energy Storage and Potential Applications: Challenges and Future Implementations. 2023 , 16, 2927	o
31	Boron nitride nanosheet reinforced polyethylene nanocomposite film for high-performance hot-melt adhesive type thermal interfacial material. 2023 , 275, 125934	0
30	Hybrid photothermal structure based on Cr-MgF2 solar absorber/PMMA-graphene heat reservoir for enhanced thermoelectric power generation. 2023 , 110, 108352	O
29	Transient thermal behaviour of high thermal conductivity graphene based composite materials: Experiments and theoretical models. 2023 , 188, 108253	0
28	Effect of graphene interface modification on the mechanical properties of graphene-epoxy nanocomposite. 2023 ,	o
27	MWCNTs polymer nanocomposite with enhanced thermomechanical properties and electrical insulation for effective encapsulation. 2023 , 10, 025003	0
26	Comparative life cycle assessment of seawater desalination technologies enhanced by graphene membranes. 2023 , 551, 116418	1

25	Thermoset-Based Composite Bipolar Plates in Proton Exchange Membrane Fuel Cell. 2023, 137-211	О
24	Graphene: an overview of technology in the electric vehicles of the future.	1
23	Polymer and biopolymer based nanocomposites for glucose sensing. 1-32	О
22	A multiscale continuum model for the mechanics of hyperelastic composite reinforced with nanofibers. 2023 , 267, 112168	O
21	Conductive polymers and composites-based systems: An incipient stride in drug delivery and therapeutics realm. 2023 , 355, 709-729	1
20	Biocomposites: Prospects and Manifold Applications for Human and Environmental Sustainability. 2023 , 12, 037002	O
19	Recent trends in graphene-based materials for pharmaceuticals wastewater treatment. 2023, 53-68	О
18	Enhanced Power Generation by Piezoelectric P(VDF-TrFE)/rGO Nanocomposite Thin Film. 2023, 13, 860	1
17	Fabrication approaches of nanocomposites. 2023 , 67-85	Ο
16	Buckling and vibration of beams using Ritz method: Effects of axial grading of GPL and axially varying load. 1-14	1
15	Notable electrical and mechanical properties of polyacrylamide (PAM) with graphene oxide (GO) and single-walled carbon nanotubes (SWCNTs). 2023 ,	O
14	Graphene/Nanohydroxyapatite hybrid reinforced polylactic acid nanocomposite for load-bearing applications. 2022 , 61, 803-815	O
13	Influence of the addition of graphene nanoplatelets on the ballistic properties of HDPE/aramid multi-laminar composites. 2022 , 61, 363-373	O
12	Design of thermal conductive polymer composites with precisely controlling graphene nanoplatelets at the interface of polypropylene and high melt strength polypropylene via elongation flow.	O
11	Flexible electromagnetic absorber in X-band using a polymer electrolyte having mixed conduction.	О
10	The tough and multi-functional stretchable device based on silicone rubber composites.	Ο
9	Graphene derivatives: Properties and potential food applications. 2023,	O
8	Synthesis and Characterization of Membranes from Sulfonated Polystyrene Waste and TiO2 Fillers (PSS/TiO2) as Proton Exchange Membranes. 2023 , 35, 1025-1030	O

7	A nonenzymatic laser-induced flexible amperometric graphene electrode for glucose detection in saliva.	0
6	Rapid preparation of hydrogen barrier films by a novel ultrasonic atomization-assisted layer-by-layer self-assembly method. 2023 ,	O
5	Revolutionizing Drug Delivery and Therapeutics: The Biomedical Applications of Conductive Polymers and Composites-Based Systems. 2023 , 15, 1204	O
4	Reinforcement effect of multilayer graphene in PVA hydrogel during large strain tension. 2023 , 30,	O
3	Water decolorization and antifouling melioration of a novel PEBA1657/PES TFC membrane using chitosan-decorated graphene oxide fillers. 2023 , 109955	O
2	Effects of graphene nanoplatelets dispersion on the morphology of polymer nano-composites. 2023 ,	O
1	The potential of functionalized graphene-based composites for removing heavy metals and organic pollutants. 2023 , 53, 103809	0