## Mechanical properties of graphene and graphene-based

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Citation Report

#	Article	IF	CITATIONS
1	Charge transport in conjugated polymer–semiconductor nanoparticle composite near the percolation threshold. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	7
2	Mechanical behaviour of graphene and carbon fibre reinforced epoxy based hybrid nanocomposites for orthotic callipers. Journal of Experimental Nanoscience, 2018, 13, S14-S23.	2.4	12
3	Synergistic effect of αâ€ZrP and graphene oxide nanofillers on the gas barrier properties of PVA films. Journal of Applied Polymer Science, 2018, 135, 46455.	2.6	26
4	Micromechanics of reinforcement of a graphene-based thermoplastic elastomer nanocomposite. Composites Part A: Applied Science and Manufacturing, 2018, 110, 84-92.	7.6	53
5	Dielectric relaxations and conductivity of cross-linked PVA/SSA/GO composite membranes for fuel cells. Polymer Testing, 2018, 67, 55-67.	4.8	49
6	Self-Driven Graphene Tearing and Peeling: A Fully Atomistic Molecular Dynamics Investigation. MRS Advances, 2018, 3, 463-468.	0.9	1
7	Template-Free Synthesis of Hollow G-C <sub>3</sub> N <sub>4</sub> Polymer with Vesicle Structure for Enhanced Photocatalytic Water Splitting. Journal of Physical Chemistry C, 2018, 122, 3786-3793.	3.1	55
8	A molecular dynamics study on efficient nanocomposite formation of styrene–butadiene rubber by incorporation of graphene. Graphene Technology, 2018, 3, 25-33.	1.9	32
9	Effect of surface functionalization of halloysite nanotubes on synthesis and thermal properties of poly(Îμ-caprolactone). Journal of Materials Science, 2018, 53, 6519-6541.	3.7	23
10	First principles study of optical properties of molybdenum disulfide: From bulk to monolayer. Superlattices and Microstructures, 2018, 115, 10-18.	3.1	35
11	Enhanced thermal and fire retardancy properties of polypropylene reinforced with a hybrid graphene/glass-fibre filler. Composites Science and Technology, 2018, 156, 95-102.	7.8	59
12	Low-force spectroscopy on graphene membranes by scanning tunneling microscopy. Nanoscale, 2018, 10, 2148-2153.	5.6	11
13	Graphene/polymer nanocomposites: The active role of the matrix in stiffening mechanics. Composite Structures, 2018, 202, 170-181.	5.8	33
14	Effect of Graphene Oxide on the Characteristics and Mechanisms of Phosphorus Removal in Aerobic Granular Sludge: Case Report. Water, Air, and Soil Pollution, 2018, 229, 1.	2.4	7
15	Multifunctional green nanostructured composites: preparation and characterization. Materials Research Express, 2018, 5, 055010.	1.6	4
16	Synthesis and thermal behavior of Cu 2 O flower-like, Cu 2 O-C 60 and Al/Cu 2 O-C 60 as catalysts on the thermal decomposition of ammonium perchlorate. Vacuum, 2018, 153, 277-290.	3.5	25
17	Simple device for the growth of micrometer-sized monocrystalline single-layer graphene on SiC(0001). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	2.1	4
18	Effect of graphene oxide on the bioactivities of nitrifying and denitrifying bacteria in aerobic granular sludge. Ecotoxicology and Environmental Safety, 2018, 156, 287-293.	6.0	25

#	Article	IF	CITATIONS
19	A review on liquid-phase exfoliation for scalable production of pure graphene, wrinkled, crumpled and functionalized graphene and challenges. FlatChem, 2018, 8, 40-71.	5.6	154
20	A novel flexible heating element using graphene polymeric composite ink on polyimide film. Microsystem Technologies, 2018, 24, 3283-3289.	2.0	5
21	Insights into crystallization and melting of high density polyethylene/graphene nanocomposites studied by fast scanning calorimetry. Polymer Testing, 2018, 67, 349-358.	4.8	32
22	Synthesis, characterization, and electrochemical properties of the modified graphene oxide with 4,4′-methylenedianiline. Materials Letters, 2018, 211, 323-327.	2.6	18
23	Graphene as biomedical sensing element: State of art review and potential engineering applications. Composites Part B: Engineering, 2018, 134, 193-206.	12.0	113
24	Ultra-large sized graphene nano-platelets (GnPs) incorporated polypropylene (PP)/GnPs composites engineered by melt compounding and its thermal, mechanical, and electrical properties. Composites Part B: Engineering, 2018, 133, 218-225.	12.0	83
25	Two- and three-dimensional graphene-based hybrid composites for advanced energy storage and conversion devices. Journal of Materials Chemistry A, 2018, 6, 702-734.	10.3	126
26	The mechanics of reinforcement of polymers by graphene nanoplatelets. Composites Science and Technology, 2018, 154, 110-116.	7.8	221
27	Fabrication of Multilayer Graphene by an Environment-friendly Synthesis of Metallic Magnesium and Carbon Dioxide Combined in a Chemical Reaction. Microscopy and Microanalysis, 2018, 24, 1732-1733.	0.4	3
28	A Self-Adaptive Umbrella Model for Vibration Analysis of Graphene. Materials, 2018, 11, 2497.	2.9	0
29	Mini Review on the Structure and Properties (Photocatalysis), and Preparation Techniques of Graphitic Carbon Nitride Nano-Based Particle, and Its Applications. Nanoscale Research Letters, 2018, 13, 388.	5.7	127
30	Thermal insulation with 2D materials: liquid phase exfoliated vermiculite functional nanosheets. Nanoscale, 2018, 10, 23182-23190.	5.6	40
31	The Effect of Dispersion Method on the Mechanical Properties of Graphene Reinforced Alumina Composites. Solid State Phenomena, 2018, 281, 93-98.	0.3	1
32	Formation Mechanism and Cohesive Energy Analysis of Metal-Coated Graphene Nanocomposites Using In-Situ Co-Reduction Method. Materials, 2018, 11, 2071.	2.9	10
33	Design of 2D massless Dirac fermion systems and quantum spin Hall insulators based on sp–sp2 carbon sheets. Npj Computational Materials, 2018, 4, .	8.7	20
34	Electromagnetic interference shielding properties of graphene/MWCNT hybrid buckypaper. Micro and Nano Letters, 2018, 13, 1252-1254.	1.3	6
35	Graphene-Functionalized Biomimetic Scaffolds for Tissue Regeneration. Advances in Experimental Medicine and Biology, 2018, 1064, 73-89.	1.6	5
36	Effect of Bipolar Plate Materials on Performance of Fuel Cells. , 2018, , .		12

#	ARTICLE	IF	CITATIONS
37	Graphene Nanocomposites Studied by Raman Spectroscopy. , 0, , .		43
38	A Perspective Study of Mechanical Characterisation of Graphene for Potential Applications in Thermal Management of Microsystems. , 2018, , .		0
39	Effect of Sonication Time on the Production of Graphene by Electrochemical Exfoliation Method. Journal of Physics: Conference Series, 2018, 1082, 012031.	0.4	1
40	Polysaccharide Based Hybrid Materials. Springer Briefs in Molecular Science, 2018, , .	0.1	9
41	Polysaccharides-Based Hybrids with Graphene. Springer Briefs in Molecular Science, 2018, , 69-93.	0.1	1
42	The chemical functionalization of graphene nanoplatelets through solvent-free reaction. RSC Advances, 2018, 8, 33564-33573.	3.6	15
43	Scattering Theory of Graphene Grain Boundaries. Materials, 2018, 11, 1660.	2.9	5
44	Ionic liquid functionalised reduced graphene oxide fluoroelastomer nanocomposites with enhanced mechanical, dielectric and viscoelastic properties. European Polymer Journal, 2018, 109, 277-287.	5.4	19
45	New functional nanocomposites based on poly(trimethylene 2,5-furanoate) and few layer graphene prepared by in situ polymerization. EXPRESS Polymer Letters, 2018, 12, 530-542.	2.1	19
46	Insights on porphyrin-functionalized graphene: Theoretical study of substituent and metal-center effects on adsorption. Chemical Physics Letters, 2018, 713, 172-179.	2.6	14
47	Adsorptive removal of cationic and anionic dyes using graphene oxide. Water Science and Technology, 2018, 78, 732-742.	2.5	15
48	Composites with carbon nanotubes and graphene: An outlook. Science, 2018, 362, 547-553.	12.6	662
49	Synthesis, characterization and kinetic computations of fullerene (C60)–CuO on the mechanism decomposition of ammonium perchlorate. Materials Today Chemistry, 2018, 10, 19-30.	3.5	10
50	Construction of Polyurethane-imide/Graphene Oxide Nanocomposite Foam with Gradient Structure and Its Thermal Mechanical Stability. Industrial & Engineering Chemistry Research, 2018, 57, 13742-13752.	3.7	9
51	Covalent grafting of triazine derivatives onto graphene oxide for preparation of epoxy composites with improved interfacial and mechanical properties. Journal of Materials Science, 2018, 53, 16318-16330.	3.7	33
52	Functional Composites Based on Polylactide and Graphene. Russian Journal of Applied Chemistry, 2018, 91, 392-395.	0.5	3
53	Quantum particles on graphenic systems. Part 2. Bondons by absorption Raman spectra. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 330-341.	2.1	7
54	Tailoring the mechanical properties of 2D materials and heterostructures. 2D Materials, 2018, 5, 032005.	4.4	128

#	Article	IF	CITATIONS
55	Camphorâ€Enabled Transfer and Mechanical Testing of Centimeterâ€Scale Ultrathin Films. Advanced Materials, 2018, 30, e1800888.	21.0	32
56	Synthesis and controlled crystallization of <i>in situ</i> prepared poly(butylene-2,6-naphthalate) nanocomposites. CrystEngComm, 2018, 20, 3590-3600.	2.6	3
57	Polyurethane nanocomposite based gas barrier films, membranes and coatings: A review on synthesis, characterization and potential applications. Progress in Materials Science, 2018, 97, 230-282.	32.8	151
58	Vibration of FG-GPLs eccentric annular plates embedded in piezoelectric layers using a transformed differential quadrature method. Computer Methods in Applied Mechanics and Engineering, 2018, 340, 451-479.	6.6	92
59	Compressive response and buckling of graphene nanoribbons. Scientific Reports, 2018, 8, 9593.	3.3	25
60	Evaluation of strength-ductility combination by in-situ tensile testing of graphene nano platelets reinforced shroud plasma sprayed Nickel-Aluminium coating. Journal of Alloys and Compounds, 2018, 765, 1082-1089.	5.5	18
61	Role of Graphene oxide and addition of MoS <sub>2</sub> in HDPE matrix for improved tribological properties. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012077.	0.6	2
62	Strained hexagonal boron nitride: Phonon shift and Grüneisen parameter. Physical Review B, 2018, 97, .	3.2	51
63	Electrically conductive GNP/epoxy composites for out-of-autoclave thermoset curing through Joule heating. Composites Science and Technology, 2018, 164, 304-312.	7.8	52
64	Adsorption and Oxidation Techniques to Remove Organic Pollutants from Water. Environmental Chemistry for A Sustainable World, 2018, , 249-300.	0.5	7
65	Strong and biocompatible poly(lactic acid) membrane enhanced by Ti3C2Tz (MXene) nanosheets for Guided bone regeneration. Materials Letters, 2018, 229, 114-117.	2.6	100
66	Realizing the theoretical stiffness of graphene in composites through confinement between carbon fibers. Composites Part A: Applied Science and Manufacturing, 2018, 113, 311-317.	7.6	22
67	Structural supercapacitors using a solid resin electrolyte with carbonized electrospun cellulose/carbon nanotube electrodes. Journal of Materials Science, 2018, 53, 14598-14607.	3.7	29
68	Mapping of Graphene Oxide and Single Layer Graphene Flakes—Defects Annealing and Healing. Frontiers in Materials, 2018, 5, .	2.4	27
69	Interaction of Edge Dislocations with Graphene Nanosheets in Graphene/Fe Composites. Crystals, 2018, 8, 160.	2.2	24
70	Chitosan-grafted-poly(methacrylic acid)/graphene oxide nanocomposite as a pH-responsive de novo cancer chemotherapy nanosystem. International Journal of Biological Macromolecules, 2018, 118, 1871-1879.	7.5	70
71	New insights into chemical and electrochemical functionalization of graphene oxide electrodes by o-phenylenediamine and their potential applications. Journal of Materials Science, 2018, 53, 15285-15297.	3.7	10
72	Effect of functional groups on the agglomeration of graphene in nanocomposites. Composites Science and Technology, 2018, 163, 116-122.	7.8	51

#	Article	IF	CITATIONS
73	Enhancement of bi-axial glass fibre reinforced polymer composite with graphene platelet nanopowder modifies epoxy resin. Advances in Mechanical Engineering, 2018, 10, 168781401879326.	1.6	27
74	Graphene Nanoplatelets-Based Advanced Materials and Recent Progress in Sustainable Applications. Applied Sciences (Switzerland), 2018, 8, 1438.	2.5	201
75	Surface-modified microcrystalline cellulose for reinforcement of chitosan film. Carbohydrate Polymers, 2018, 201, 367-373.	10.2	50
76	Effect of VIPS fabrication parameters on the removal of acetic acid by supported liquid membrane using a PES–graphene membrane support. RSC Advances, 2018, 8, 25396-25408.	3.6	12
77	Nanoscopic imaging of oxidized graphene monolayer using tip-enhanced Raman scattering. Nano Research, 2018, 11, 6346-6359.	10.4	13
78	Searching for effective compatibilizing agents for the preparation of poly(ether ether) Tj ETQq1 1 0.784314 rgBT Manufacturing, 2018, 113, 180-188.	/Overlock 7.6	10 Tf 50 54 13
79	Progress on nanostructured electrochemical sensors and their recognition elements for detection of mycotoxins: A review. Biosensors and Bioelectronics, 2018, 121, 205-222.	10.1	163
80	Recent advances in the preparation, characterization, and applications of two-dimensional heterostructures for energy storage and conversion. Journal of Materials Chemistry A, 2018, 6, 21747-21784.	10.3	85
81	Novel electroactive polyamide 12 based nanocomposites filled with reduced graphene oxide. Polymer Engineering and Science, 2019, 59, 198-205.	3.1	15
82	Microwave assisted polymeric modification of graphite oxide and graphite by poly(allyl) Tj ETQq1 1 0.784314 rgB	T /Overloc 7.0	k 10 Tf 50 3
83	Straintronics in graphene: Extra large electronic band gap induced by tensile and shear strains. Journal of Applied Physics, 2019, 126, .	2.5	51
84	A facile approach to synthesize in situ functionalized graphene oxide/epoxy resin nanocomposites: mechanical and thermal properties. Journal of Materials Science, 2019, 54, 13973-13989.	3.7	17
85	New generation graphene oxide for removal of polycyclic aromatic hydrocarbons. , 2019, , 241-266.		7
86	Graphene Modified Multifunctional Personal Protective Clothing. Advanced Materials Interfaces, 2019, 6, 1900622.	3.7	150
87	Corrosion protection properties of functionalised graphene–acrylate coatings produced via cataphoretic deposition. Progress in Organic Coatings, 2019, 136, 105261.	3.9	14
88	PMMA nanocomposites with graphene oxide hybrid nanofillers. EXPRESS Polymer Letters, 2019, 13, 910-922.	2.1	6
89	Evaluation of nanocomposites containing graphene nanoplatelets: Mechanical properties and combustion behavior. Polymer Engineering and Science, 2019, 59, 2062-2071.	3.1	18
90	Nickel Catalysts Activated by rGO Modified with a Boron Lewis Acid To Produce rGO-Hyperbranched PE Nanocomposites. Organometallics, 2019, 38, 3327-3337.	2.3	10

#	Article	IF	CITATIONS
91	Polystyrene-Based Composites with Aluminosilicate Inclusions of Different Shapes. Technical Physics, 2019, 64, 213-219.	0.7	2
92	Comprehensive molecular dynamics studies of the ballistic resistance of multilayer graphene-polymer composite. Computational Materials Science, 2019, 170, 109171.	3.0	40
93	Viscoelastic behaviour of nanocomposites enhanced by graphene: An overview. Material Design and Processing Communications, 2019, 1, e99.	0.9	4
94	Graphene-Based Materials as Strain Sensors in Glass Fiber/Epoxy Model Composites. ACS Applied Materials & Interfaces, 2019, 11, 31338-31345.	8.0	14
95	A facile and fast transfer of ultrathin graphene oxide film on various substrates. Journal Physics D: Applied Physics, 2019, 52, 455301.	2.8	1
96	Graphene and carbon nanotube reinforced epoxy nanocomposites: A review. Polymer, 2019, 180, 121724.	3.8	135
97	A Review on Graphene Polymer Nanocomposites in Harsh Operating Conditions. Industrial & Engineering Chemistry Research, 2019, 58, 17106-17129.	3.7	31
98	Graphene-Based Membranes for CO2/CH4 Separation: Key Challenges and Perspectives. Applied Sciences (Switzerland), 2019, 9, 2784.	2.5	29
99	Ab-initio calculations of strain induced relaxed shape armchair graphene nanoribbon. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 114, 113648.	2.7	7
100	Graphene nanoparticles induces apoptosis in MCF-7 cells through mitochondrial damage and NF-KB pathway. Materials Research Express, 2019, 6, 095413.	1.6	41
101	The strength of mechanically-exfoliated monolayer graphene deformed on a rigid polymer substrate. Nanoscale, 2019, 11, 14339-14353.	5.6	18
102	Ni-graphene oxide composite coatings: Optimum graphene oxide for enhanced corrosion resistance. Composites Part B: Engineering, 2019, 175, 107145.	12.0	80
103	Optimizing tribological, tensile & in-vitro biofunctional properties of UHMWPE based nanocomposites with simultaneous incorporation of graphene nanoplatelets (GNP) & hydroxyapatite (HAp) via a facile approach for biomedical applications. Composites Part B: Engineering, 2019, 175, 107181.	12.0	35
104	Two-dimensional layered materials: from mechanical and coupling properties towards applications in electronics. Nanoscale, 2019, 11, 13181-13212.	5.6	67
105	Effect of Stone-Wales Defect on Mechanical Properties of Gr/epoxy Nanocomposites. Polymers, 2019, 11, 1116.	4.5	11
106	Promotion of the performance of nitrogen-doped graphene by secondary heteroatoms doping in energy transformation and storage. Ionics, 2019, 25, 3499-3522.	2.4	7
107	The Influence of Graphene in Improvement of Physico-Mechanical Properties in PMMA Denture Base Resins. Materials, 2019, 12, 2335.	2.9	47
108	Polyurethane coatings reinforced with 3-(triethoxysilyl)propyl isocyanate functionalized graphene oxide nanosheets: Mechanical and anti-corrosion properties. Progress in Organic Coatings, 2019, 136, 105243.	3.9	21

#	Article	IF	CITATIONS
109	Structural and electronic properties of BN co-doped and BN analogue of twin graphene sheets: A density functional theory study. Journal of Physics and Chemistry of Solids, 2019, 135, 109115.	4.0	28
110	Bidirectional charge-transfer behavior in carbon-based hybrid nanomaterials. Nanoscale, 2019, 11, 14978-14992.	5.6	20
111	Enhanced bone regeneration using an electrospun nanofibrous membrane – A novel approach. Journal of Drug Delivery Science and Technology, 2019, 53, 101163.	3.0	13
112	Functionalization of graphene layers and advancements in device applications. Carbon, 2019, 152, 954-985.	10.3	110
113	Thermal and mechanical enhancement of styrene–butadiene rubber by filling with modified anthracite coal. Journal of Applied Polymer Science, 2019, 136, 48203.	2.6	6
114	MoS <sub>2</sub> /Graphene Composites as Promising Materials for Energy Storage and Conversion Applications. Advanced Materials Interfaces, 2019, 6, 1900915.	3.7	54
115	Buckling of non-uniformly distributed graphene and fibre reinforced multiscale angle-ply laminates. Meccanica, 2019, 54, 2263-2279.	2.0	12
116	Graphene oxide-reinforced poly(2-hydroxyethyl methacrylate) hydrogels with extreme stiffness and high-strength. Composites Science and Technology, 2019, 184, 107819.	7.8	26
117	Effect of various carbon nanofillers and different filler aspect ratios on the thermal conductivity of epoxy matrix nanocomposites. Results in Physics, 2019, 15, 102771.	4.1	23
118	A Mechanics Based Surface Image Interpretation Method for Multifunctional Nanocomposites. Nanomaterials, 2019, 9, 1578.	4.1	3
119	An Easy Fabricable Film for Organic Electronics Based on Phenoxy and Epoxy. Macromolecular Chemistry and Physics, 2019, 220, 1900135.	2.2	1
121	3D Printing of Covalent Functionalized Graphene Oxide Nanocomposite via Stereolithography. ACS Applied Materials & Interfaces, 2019, 11, 46034-46043.	8.0	41
122	Facile Fabrication of Polyvinyl Alcohol/Edge-Selectively Oxidized Graphene Composite Fibers. Materials, 2019, 12, 3525.	2.9	5
123	Electromechanical Properties of PVDF-Based Polymers Reinforced with Nanocarbonaceous Fillers for Pressure Sensing Applications. Materials, 2019, 12, 3545.	2.9	30
124	Effect of graphene reinforcement on mechanical and microstructure behavior of AA8030/graphene composites fabricated by stir casting technique. AIP Conference Proceedings, 2019, , .	0.4	11
125	Thermal and Mechanical Behavior of Wood Plastic Composites by Addition of Graphene Nanoplatelets. Polymers, 2019, 11, 1365.	4.5	17
126	Electronic and transport characteristics of vacancy and nitrogen-doped graphene nanoribbon rotational switch. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	4
127	Using Different lons to Tune Graphene Stack Structures from Sheet- to Onion-Like During Plasma Exfoliation, with Supercapacitor Applications. Nanoscale Research Letters, 2019, 14, 141.	5.7	14

#	Article	IF	CITATIONS
128	Preparation and characterization of pulsed electrodeposited cobalt–graphene nanocomposite coatings. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 2469-2477.	1.1	1
129	Deformation-driven metallurgy of graphene nanoplatelets reinforced aluminum composite for the balance between strength and ductility. Composites Part B: Engineering, 2019, 177, 107413.	12.0	57
130	Optimization design on simultaneously strengthening and toughening graphene-based nacre-like materials through noncovalent interaction. Journal of the Mechanics and Physics of Solids, 2019, 133, 103706.	4.8	36
131	Tuning the graphene mechanical anisotropy via defect engineering. Carbon, 2019, 155, 697-705.	10.3	39
132	Graphene-based polymer composite films with enhanced mechanical properties and ultra-high in-plane thermal conductivity. Composites Science and Technology, 2019, 184, 107797.	7.8	67
133	Effects of sintering parameters on microstructure, graphene structure stability and mechanical properties of graphene reinforced Al2O3-based composite ceramic tool material. Ceramics International, 2019, 45, 23384-23392.	4.8	34
134	Mechanical, tribological, and electrochemical behavior of hybrid aluminum matrix composite containing boron carbide (B4C) and graphene nanoplatelets. Journal of Materials Research, 2019, 34, 3116-3129.	2.6	16
135	Graphene/polyphenylene sulfide composites for tailorable negative permittivity media by plasmonic oscillation. Materials Letters, 2019, 257, 126683.	2.6	16
136	Structural and chemical comparison between moderately oxygenated and edge oxygenated graphene: mechanical, electrical and thermal performance of the epoxy nanocomposites. SN Applied Sciences, 2019, 1, 1.	2.9	9
137	Hyperelastic characteristics of graphene natural rubber composites and reinforcement and toughening mechanisms at multi-scale. Composite Structures, 2019, 228, 111365.	5.8	23
138	Polyvinylamine Membranes Containing Graphene-Based Nanofillers for Carbon Capture Applications. Membranes, 2019, 9, 119.	3.0	13
139	Modelling mechanical percolation in graphene-reinforced elastomer nanocomposites. Composites Part B: Engineering, 2019, 178, 107506.	12.0	27
140	3-Arm star pyrene-functional PMMAs for efficient exfoliation of graphite in chloroform: fabrication of graphene-reinforced fibrous veils. Nanoscale, 2019, 11, 915-931.	5.6	19
141	Preparation and characterization of silver-doped graphene-reinforced silver matrix bulk composite as a novel electrical contact material. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	10
142	Nanocarbon: Preparation, properties, and applications. , 2019, , 327-354.		5
143	Irradiation-induced defects in graphene on copper. Nuclear Instruments & Methods in Physics Research B, 2019, 460, 189-192.	1.4	5
144	Novel flexible Ag nanoparticles doped on graphene – Ba2GaInO6 as cathode material for enhancement in the power conversion of DSSCs. Solar Energy, 2019, 180, 510-518.	6.1	8
145	Graphene synthesized in atmospheric plasmas—A review. Journal of Materials Research, 2019, 34, 214-230.	2.6	63

#	Article	IF	CITATIONS
146	A review on graphene based nanofluids: Preparation, characterization and applications. Journal of Molecular Liquids, 2019, 279, 444-484.	4.9	144
147	The equivalent Young's modulus prediction for vacancy defected graphene under shear stress. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 110, 115-122.	2.7	13
148	Combined strengthening effect of nanocrystalline matrix and graphene nanoplatelet reinforcement on the mechanical properties of spark plasma sintered aluminum based nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 749, 14-26.	5.6	71
149	Coumarin–graphene turn-on fluorescent probe for femtomolar level detection of copper( <scp>ii</scp> ). New Journal of Chemistry, 2019, 43, 1001-1008.	2.8	14
150	Effect of graphene dispersion and interfacial bonding on the mechanical properties of metal matrix composites: An overview. FlatChem, 2019, 16, 100113.	5.6	51
151	Interlock or Chemical Bond: Investigation on the Interface of Graphene Oxide and Styrenic Block Copolymers as Layer-by-Layer Films. ACS Omega, 2019, 4, 9120-9128.	3.5	4
152	Random fiber networks with inclusions: The mechanism of reinforcement. Physical Review E, 2019, 99, 063001.	2.1	10
153	Copper/graphene composites: a review. Journal of Materials Science, 2019, 54, 12236-12289.	3.7	193
154	High-sensitivity and fast-response fiber-tip Fabry–Pérot hydrogen sensor with suspended palladium-decorated graphene. Nanoscale, 2019, 11, 15821-15827.	5.6	49
155	Negative Gauge Factor Piezoresistive Composites Based on Polymers Filled with MoS <sub>2</sub> Nanosheets. ACS Nano, 2019, 13, 6845-6855.	14.6	52
156	Multifunctional graphene oxide/iron oxide nanoparticles for magnetic targeted drug delivery dual magnetic resonance/fluorescence imaging and cancer sensing. PLoS ONE, 2019, 14, e0217072.	2.5	105
157	Study of vertical graphene growth on silver substrate based on design of experiment. Diamond and Related Materials, 2019, 97, 107439.	3.9	5
158	Synthesis of Cu/rGO composites by chemical and thermal reduction ofÂgraphene oxide. Journal of Alloys and Compounds, 2019, 800, 379-391.	5.5	34
159	Biofabrication of Lysinibacillus sphaericus-reduced graphene oxide in three-dimensional polyacrylamide/carbon nanocomposite hydrogels for skin tissue engineering. Colloids and Surfaces B: Biointerfaces, 2019, 181, 539-548.	5.0	28
160	Graphene nanosheet-grafted double-walled carbon nanotube hybrid nanostructures by two-step chemical vapor deposition and their application for ethanol detection. Scientific Reports, 2019, 9, 7871.	3.3	12
161	Production of large-area 2D materials for high-performance photodetectors by pulsed-laser deposition. Progress in Materials Science, 2019, 106, 100573.	32.8	160
162	Vibration of multilayer FG-GPLRC toroidal panels with elastically restrained against rotation edges. Thin-Walled Structures, 2019, 143, 106209.	5.3	30
163	Effect of polysulfone brush functionalization on thermo-mechanical properties of melt extruded graphene/polysulfone nanocomposites. Carbon, 2019, 151, 84-93.	10.3	11

#	Article	IF	Citations
164	Promising Tradeâ€Offs Between Energy Storage and Load Bearing in Carbon Nanofibers as Structural Energy Storage Devices. Advanced Functional Materials, 2019, 29, 1901425.	14.9	47
165	Novel green route to synthesize cadmium oxide@graphene nanocomposite: optical properties and antimicrobial activity. Materials Research Express, 2019, 6, 085094.	1.6	13
166	A comprehensive review on graphene-based anti-corrosive coatings. Chemical Engineering Journal, 2019, 373, 104-121.	12.7	300
167	Ultra-fast enrichment and reduction of As(V)/Se(VI) on three dimensional graphene oxide sheets-oxidized carbon nanotubes hydrogels. Environmental Pollution, 2019, 251, 945-951.	7.5	21
168	Electrically conductive polystyrene nanocomposites incorporated with aspect ratio ontrolled silver nanowires. Journal of Applied Polymer Science, 2019, 136, 47927.	2.6	10
169	Characterisation of graphite nanoplatelets (GNP) prepared at scale by high-pressure homogenisation. Journal of Materials Chemistry C, 2019, 7, 6383-6390.	5.5	26
170	Preparation of Piezo-Resistive Materials by Combination of PP, SEBS and Graphene. Journal of Composites Science, 2019, 3, 37.	3.0	2
171	State-of-the-Art Characterization Methods for Graphene and Its Derivatives. , 2019, , 43-86.		5
172	Polyimide nanohybrid films with electrochemically functionalized graphene. Polymer International, 2019, 68, 1441-1449.	3.1	5
173	UNIQUE NATURE OF GRAPHENE. RESEARCH RESULTS. , 2019, , 91-153.		0
174	Mechanical behavior of Graphene decorated carbon fiber reinforced polymer composites: An assessment of the influence of functional groups. Composites Part A: Applied Science and Manufacturing, 2019, 122, 36-44.	7.6	96
175	Stereocomplexation of Poly(Lactic Acid)s on Graphite Nanoplatelets: From Functionalized Nanoparticles to Self-assembled Nanostructures. Frontiers in Chemistry, 2019, 7, 176.	3.6	11
176	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. 2D Materials, 2019, 6, 035007.	4.4	23
177	Engineered 3D printed poly(É›-caprolactone)/graphene scaffolds for bone tissue engineering. Materials Science and Engineering C, 2019, 100, 759-770.	7.3	95
178	Enhanced removal of arsenic and chromium contaminants from drinking water by electrodeposition technique using graphene composites. Materials Chemistry and Physics, 2019, 229, 197-209.	4.0	28
179	Effects of graphene nanosheets on the ceramic coatings formed on Ti6Al4V alloy drill pipe by plasma electrolytic oxidation. Journal of Alloys and Compounds, 2019, 789, 996-1007.	5.5	44
180	Accelerated discoveries of mechanical properties of graphene using machine learning and high-throughput computation. Carbon, 2019, 148, 115-123.	10.3	68
181	Effect of graphene nanoplatelets on the physical and mechanical properties of Al6061 in fabricated and T6 thermal conditions. Journal of Alloys and Compounds, 2019, 790, 1076-1091.	5.5	35

#	Article	IF	CITATIONS
182	Fabrication of ZnO-RGO nanorods by electrospinning assisted hydrothermal method with enhanced photocatalytic activity. Materials Today Communications, 2019, 19, 407-412.	1.9	32
183	Comparison Between Functionalized Graphene and Carbon Nanotubes. , 2019, , 177-204.		17
184	Hybrid poly(ether ether ketone) composites reinforced with a combination of carbon fibres and graphene nanoplatelets. Composites Science and Technology, 2019, 175, 60-68.	7.8	52
185	Effect of graphene oxide as a filler material on the mechanical properties of LLDPE nanocomposites. Journal of Composite Materials, 2019, 53, 2761-2773.	2.4	16
186	An alternative synthesis route to graphene oxide: influence of surface chemistry on charge transport in epoxy-based composites. Journal of Materials Science, 2019, 54, 8302-8318.	3.7	23
187	Composite properties of graphene-based materials/natural rubber vulcanized using electron beam irradiation. Materials Today Communications, 2019, 19, 413-424.	1.9	25
188	Organic phase change materials confined in carbon-based materials for thermal properties enhancement: Recent advancement and challenges. Renewable and Sustainable Energy Reviews, 2019, 108, 398-422.	16.4	141
189	Scalable screen-printing manufacturing process for graphene oxide platinum free alternative counter electrodes in efficient dye sensitized solar cells. FlatChem, 2019, 15, 100105.	5.6	19
190	A Photoaddressable Liquid Crystalline Phase Transition in Graphene Oxide Nanocomposites. Advanced Functional Materials, 2019, 29, 1900738.	14.9	2
191	Effects of <i>SiC</i> and <i>SiC</i> -GNP additions on the mechanical properties and oxidation behavior of NbB <sub>2</sub> . Journal of Asian Ceramic Societies, 2019, 7, 170-182.	2.3	9
192	Tunable nitrogen-doped graphene sheets produced with in situ electrochemical cathodic plasma at room temperature for lithium-ion batteries. Materials Today Energy, 2019, 12, 336-347.	4.7	25
193	Composite Films of Waterborne Polyurethane and Few-Layer Graphene—Enhancing Barrier, Mechanical, and Electrical Properties. Journal of Composites Science, 2019, 3, 35.	3.0	8
194	Aerospace applications of graphene nanomaterials. AIP Conference Proceedings, 2019, , .	0.4	7
195	Micromechanics based FEM study on the mechanical properties and damage of epoxy reinforced with graphene based nanoplatelets. Composite Structures, 2019, 215, 266-277.	5.8	41
196	Multiscale Design of Graphyneâ€Based Materials for Highâ€Performance Separation Membranes. Advanced Materials, 2019, 31, e1805665.	21.0	30
197	Measurement of Signalâ€toâ€Noise Ratio In Grapheneâ€based Passive Microelectrode Arrays. Electroanalysis, 2019, 31, 991-1001.	2.9	3
198	Functionalized Graphene Reinforced Hybrid Nanocomposites and Their Applications. , 2019, , 205-218.		2
199	Effect of humidity on the synergy of friction and wear properties in ternary epoxy-graphene-MoS2 composites. Carbon, 2019, 146, 717-727.	10.3	50

ARTICLE IF CITATIONS # Mechanical and Corrosion Protection Properties of a Smart Composite Epoxy Coating with Dual-Encapsulated Epoxy/Polyamine in Carbon Nanospheres. Industrial & amp; Engineering Chemistry 200 3.7 55 Research, 2019, 58, 3033-3046. Carbon Nanotubes and Graphene as Nanoreinforcements in Metallic Biomaterials: a Review. Advanced Biology, 2019, 3, e1800212. Effect of Graphene on Flame Retardancy of Graphite Doped Intumescent Flame Retardant (IFR) 202 2.6 16 Coatings: Synergy or Antagonism. Coatings, 2019, 9, 94. Enhancing the electrochemical performance of lithium ion battery anodes by poly(acrylonitrile–butyl) Tj ETQq1 1 0.784314 rgBT /O 2.9 389-398. Fabrication of a bismuth nanoparticle/Nafion modified screen-printed graphene electrode for <i>in 204 2.7 15 situ</i> environmental monitoring. Analytical Methods, 2019, 11, 1591-1603. Polymer nanocomposites having a high filler content: synthesis, structures, properties, and applications. Nanoscale, 2019, 11, 4653-4682. 5.6 Effect of functionalization on the elastic behavior of graphene nanoplatelet-PE nanocomposites with 206 3.2 10 interface consideration using a multiscale approach. Mechanics of Materials, 2019, 132, 18-30. Electrical Properties and Electromagnetic Interference Shielding Effectiveness of Interlayered Systems Composed by Carbon Nanotube Filled Carbon Nanofiber Mats and Polymer Composites. 4.1 36 Nanomaterials, 2019, 9, 238. Adsorbates on Multilayer Graphene Surface: Morphology, Distribution and Electrical Properties. 208 0 2019,,. Surface Modification of Graphene for Use as a Structural Fortifier in Water-Borne Epoxy Coatings. 209 Coatings, 2019, 9, 754. Transfer-free Graphene-based Differential Pressure Sensor., 2019,,. 210 1 Highly Sensitive Piezoresistive Graphene-Based Stretchable Composites for Sensing Applications. ACS 211 8.0 50 Appliéd Materials & amp; Interfaces, 2019, 11, 46286-46295. Reduced graphene oxide foils for ion stripping applications. Radiation Effects and Defects in Solids, 212 1.2 4 2019, 174, 973-984. Formation of nanographite flakes on SiO2 substrate by plasma deposition of carbon and subsequent 0.4 annealing. AIP Conference Proceedings, 2019, , . Green Composites of Poly(3-hydroxybutyrate) Containing Graphene Nanoplatelets with Desirable 214 3.5 22 Electrical Conductivity and Oxygen Barrier Properties. ACS Omega, 2019, 4, 19746-19755. Effects of pore morphology and pore edge termination on the mechanical behavior of graphene nanomeshes. Journal of Applied Physics, 2019, 126, 164306. Assessment of Antioxidant Activity of Pure Graphene Oxide (GO) and ZnO-Decorated Reduced Graphene 216 2.7 22 Oxide (rGO) Using DPPH Radical and H2O2 Scavenging Assays. Journal of Carbon Research, 2019, 5, 75. Effect of the Organic Functional Group on the Grafting Ability of Trialkoxysilanes onto Graphene Oxide: A Combined NMR, XRD, and ESR Study. Materials, 2019, 12, 3828.

#	Article	IF	CITATIONS
218	Recent advances in graphene based nano-composites for automotive and off-highway vehicle applications. Current Graphene Science, 2019, 03, .	0.5	7
219	Dynamics of a Three-Component Delocalized Nonlinear Vibrational Mode in Graphene. Physics of the Solid State, 2019, 61, 2139-2144.	0.6	19
220	The Role of Functionalization in the Applications of Carbon Materials: An Overview. Journal of Carbon Research, 2019, 5, 84.	2.7	51
221	Recent advances in graphene based photoresponsive materials. Progress in Natural Science: Materials International, 2019, 29, 603-611.	4.4	16
222	Synthesis of 3D flower-like structured Gd/TiO2@rGO nanocomposites via a hydrothermal method with enhanced visible-light photocatalytic activity. RSC Advances, 2019, 9, 31177-31185.	3.6	22
223	The Role of Graphene and Other 2D Materials in Solar Photovoltaics. Advanced Materials, 2019, 31, e1802722.	21.0	268
224	Thermoelastic analysis of FG-GPLRC spherical shells under thermo-mechanical loadings based on Lord-Shulman theory. Composites Part B: Engineering, 2019, 164, 400-424.	12.0	41
225	Nanoindentation mapping of multiscale composites of graphene-reinforced polypropylene and carbon fibres. Composites Science and Technology, 2019, 169, 151-157.	7.8	22
226	Co-milling-assisted exfoliated graphite nanoplatelets filler introduction in polyethylene and alumina composites. Journal of Composite Materials, 2019, 53, 1815-1826.	2.4	1
227	Synthesis and characterization of CuZnO@GO nanocomposites and their enhanced antibacterial activity with visible light. Journal of Sol-Gel Science and Technology, 2019, 89, 672-684.	2.4	13
228	Effect of graphene nanoplatelets (GNPs) content on improvement of mechanical and tribological properties of AZ31 Mg matrix nanocomposite. Tribology International, 2019, 132, 1-10.	5.9	28
229	Mechanical behavior of nanocomposites. MRS Bulletin, 2019, 44, 19-24.	3.5	42
230	Strain Engineering of 2D Materials: Issues and Opportunities at the Interface. Advanced Materials, 2019, 31, e1805417.	21.0	415
231	Layer-layer assembly of water-based graphene for facile fabrication of sensitive strain gauges on paper. Cellulose, 2019, 26, 1417-1429.	4.9	9
232	Interfacial structures and mechanisms for strengthening and enhanced conductivity of graphene/epoxy nanocomposites. Polymer, 2019, 163, 171-177.	3.8	47
233	Effective reduction of graphene oxide via a hybrid microwave heating method by using mildly reduced graphene oxide as a susceptor. Applied Surface Science, 2019, 473, 222-229.	6.1	43
234	Graphene oxide impregnated with iron oxide nanoparticles for the removal of atrazine from the aqueous medium. Separation Science and Technology, 2019, 54, 2653-2670.	2.5	22
235	Finite element analysis of titanium alloy-graphene based mandible plate. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 324-330.	1.6	11

#	Article	IF	CITATIONS
236	Efficiency of nanoparticle reinforcement using finite element analysis of titanium alloy mandible plate. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2019, 233, 309-317.	1.8	4
237	Graphene Surface Reinforcement of Iron. Nanomaterials, 2019, 9, 59.	4.1	18
238	Enhanced thermoelectric performance of Bi2Te3 based graphene nanocomposites. Applied Surface Science, 2019, 474, 2-8.	6.1	54
239	Reinforcement and workability aspects of graphene-oxide-reinforced cement nanocomposites. Composites Part B: Engineering, 2019, 161, 68-76.	12.0	113
240	Mesoporous silica coated graphene oxide: fabrication, characterization and effects on the dielectric properties of its organosilicon hybrid films. Journal of Materials Science: Materials in Electronics, 2019, 30, 130-146.	2.2	4
241	Uniform dispersion of nano-Al2O3 particles in the 3D graphene network of ternary nanocomposites. Ceramics International, 2019, 45, 3407-3413.	4.8	7
242	Graphene-Based Nanomaterials and Their Polymer Nanocomposites. , 2019, , 177-216.		17
243	The possibility of Young's modulus improvement in graphene by random vacancy defects under uniaxial tension. Materials Research Express, 2019, 6, 025007.	1.6	2
244	The taxonomy of graphite nanoplatelets and the influence of nanocomposite processing. Carbon, 2019, 142, 99-106.	10.3	16
245	Antibacterial properties of chitosan chloride-graphene oxide composites modified quartz sand filter media in water treatment. International Journal of Biological Macromolecules, 2019, 121, 760-773.	7.5	44
246	Accurate nonlinear buckling analysis of functionally graded porous graphene platelet reinforced composite cylindrical shells. International Journal of Mechanical Sciences, 2019, 151, 537-550.	6.7	123
247	Structure and Dynamics of Biobased Polyester Nanocomposites. Biomacromolecules, 2019, 20, 164-176.	5.4	10
248	Atomic Properties and Electronic Structure. Interface Science and Technology, 2019, , 23-66.	3.3	3
249	Effect of grain boundaries on the interfacial behaviour of graphene-polyethylene nanocomposite. Applied Surface Science, 2019, 470, 1085-1092.	6.1	108
250	Polymer nanocomposites for water shutoff application- A review. Materials Research Express, 2019, 6, 032001.	1.6	17
251	Morphology, thermal, mechanical properties and ageing of nylon 6,6/graphene nanofibers as Nano2 materials. Composites Part B: Engineering, 2019, 166, 120-129.	12.0	47
252	α-Fe2O3 loaded rGO nanosheets based fast response/recovery CO gas sensor at room temperature. Applied Surface Science, 2019, 465, 56-66.	6.1	96
253	Graphene: Properties and Applications. , 2019, , 287-304.		4

#	Article	IF	CITATIONS
254	Enhancing the adhesion of graphene to polymer substrates by controlled defect formation. Nanotechnology, 2019, 30, 015704.	2.6	12
255	Acoustic emission investigation of the effect of graphene on the fracture behavior of cement mortars. Engineering Fracture Mechanics, 2019, 210, 444-451.	4.3	36
256	A review on thermo-mechanical properties of bi-crystalline and polycrystalline 2D nanomaterials. Critical Reviews in Solid State and Materials Sciences, 2020, 45, 134-170.	12.3	31
257	Electrostatically-coupled graphene oxide nanocomposite cation exchange membrane. Journal of Membrane Science, 2020, 594, 117457.	8.2	26
258	Graphene related materials for thermal management. 2D Materials, 2020, 7, 012001.	4.4	161
259	Stretchability of PMMA-supported CVD graphene and of its electrical contacts. 2D Materials, 2020, 7, 014003.	4.4	17
260	Lowâ€defect graphene–polyamideâ€6 composites and modeling the filler–matrix interface. Journal of Applied Polymer Science, 2020, 137, 48630.	2.6	9
261	Dilution effect on the compensation temperature in a honeycomb nano-lattice: Monte Carlo study. Chinese Journal of Physics, 2020, 63, 36-44.	3.9	22
262	Graphene induced carbonization of polyimide films to prepared flexible carbon films with improving-thermal conductivity. Ceramics International, 2020, 46, 3332-3338.	4.8	28
263	Graphene and related materials in hierarchical fiber composites: Production techniques and key industrial benefits. Composites Science and Technology, 2020, 185, 107848.	7.8	36
264	Application of Clean & Clear ® polymer film as a substrate for flexible and highly sensitive graphene–based strain sensor. Organic Electronics, 2020, 77, 105501.	2.6	13
265	Revealing the dependence of graphene concentration and physicochemical properties on the crushing strength of co-granulated fertilizers by wet granulation process. Powder Technology, 2020, 360, 588-597.	4.2	10
266	Emerging Bottomâ€Up Strategies for the Synthesis of Graphene Nanoribbons and Related Structures. Angewandte Chemie, 2020, 132, 4652-4661.	2.0	36
267	Emerging Bottomâ€Up Strategies for the Synthesis of Graphene Nanoribbons and Related Structures. Angewandte Chemie - International Edition, 2020, 59, 4624-4633.	13.8	92
268	Preparation and Properties of Spherical Natural Rubber/Silica Composite Powders via Spray Drying. KONA Powder and Particle Journal, 2020, 37, 214-223.	1.7	2
269	Effect of functionalized graphene oxide concentration on the corrosion resistance properties provided by cataphoretic acrylic coatings. Materials Chemistry and Physics, 2020, 239, 121984.	4.0	29
270	Nanoarchitectonics for Nanocarbon Assembly and Composite. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 42-55.	3.7	17
271	PMMA-grafted graphene nanoplatelets to reinforce the mechanical and thermal properties of PMMA composites. Carbon, 2020, 157, 750-760.	10.3	56

#	Article	IF	CITATIONS
272	Recovery from mechanical degradation of graphene by defect enlargement. Nanotechnology, 2020, 31, 085707.	2.6	6
273	Preparation of porous chitosan/reduced graphene oxide microspheres supported Pd nanoparticles catalysts for Heck coupling reactions. Carbohydrate Polymers, 2020, 230, 115583.	10.2	41
274	Pool boiling performance and bubble dynamics on graphene oxide nanocoating surface. International Journal of Thermal Sciences, 2020, 147, 106154.	4.9	48
275	Interfacial interaction-induced temperature-dependent mechanical property of graphene-PDMS nanocomposite. Journal of Materials Science, 2020, 55, 1553-1561.	3.7	18
276	Enhanced properties of cementitious composite tailored with graphene oxide nanomaterial - A review. Developments in the Built Environment, 2020, 1, 100002.	4.0	41
277	Interlaminar Fracture Toughness Characterization of Laminated Composites: A Review. Polymer Reviews, 2020, 60, 542-593.	10.9	42
278	Influence of nonlinear terms on dynamical behavior of graphene reinforced laminated composite plates. Applied Mathematical Modelling, 2020, 78, 169-184.	4.2	18
279	Model of Enhanced Strength and Ductility of Metal/Graphene Composites with Bimodal Grain Size Distribution. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 189-199.	2.2	12
280	Bioactivity of flexible graphene composites coated with a CaSiO3/acrylic polymer membrane. Materials Chemistry and Physics, 2020, 241, 122358.	4.0	11
281	Enhancing chloride ion penetration resistance into concrete by using graphene oxide reinforced waterborne epoxy coating. Progress in Organic Coatings, 2020, 138, 105389.	3.9	36
282	Biocompatibility and hemocompatibility of hydrothermally derived reduced graphene oxide using soluble starch as a reducing agent. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110579.	5.0	42
283	Microstructure, mechanical and high temperature tribological behaviour of graphene nanoplatelets reinforced plasma sprayed titanium nitride coating. Journal of the European Ceramic Society, 2020, 40, 660-671.	5.7	44
284	Mechanisms of mechanical reinforcement by graphene and carbon nanotubes in polymer nanocomposites. Nanoscale, 2020, 12, 2228-2267.	5.6	222
285	A filler-matrix interaction model for the large deformation response of graphene nanocomposite – A PVA-GO nanocomposite example. Composites Part A: Applied Science and Manufacturing, 2020, 129, 105729.	7.6	17
286	Progress in supercapacitors: roles of two dimensional nanotubular materials. Nanoscale Advances, 2020, 2, 70-108.	4.6	164
287	Multifunctional carbon nanotubes covalently coated with imine-based covalent organic frameworks: exploring structure–property relationships through nanomechanics. Nanoscale, 2020, 12, 1128-1137.	5.6	20
288	Nonlocal thermo-viscoelasticity and its application in size-dependent responses of bi-layered composite viscoelastic nanoplate under nonuniform temperature for vibration control. Mechanics of Advanced Materials and Structures, 2021, 28, 1797-1811.	2.6	16
289	Effects of electrophoretic deposition process parameters on the mechanical properties of graphene carboxylâ€grafted carbon fiber reinforced polymer composite. Journal of Applied Polymer Science, 2020, 137, 48925.	2.6	15

#	Article	IF	CITATIONS
290	Plasmaâ€Enabled Ternary SnO <sub>2</sub> @Sn/Nitrogenâ€Doped Graphene Aerogel Anode for Sodiumâ€lon Batteries. ChemElectroChem, 2020, 7, 1358-1364.	3.4	26
291	Recent Progress in 2D Materialâ€Based Saturable Absorbers for All Solidâ€State Pulsed Bulk Lasers. Laser and Photonics Reviews, 2020, 14, 1900240.	8.7	111
292	Flexoelectric and surface effects on the electromechanical behavior of graphene-based nanobeams. Applied Mathematical Modelling, 2020, 81, 70-91.	4.2	16
293	Development of new biocompatible 3D printed graphene oxide-based scaffolds. Materials Science and Engineering C, 2020, 110, 110595.	7.3	103
294	Comparative Studies on Polyurethane Composites Filled with Polyaniline and Graphene for DLP-Type 3D Printing. Polymers, 2020, 12, 67.	4.5	46
295	Recent progress on flexible and stretchable piezoresistive strain sensors: From design to application. Progress in Materials Science, 2020, 114, 100617.	32.8	267
296	High strain rate behavior of graphene-epoxy nanocomposites. Polymer Testing, 2020, 81, 106219.	4.8	31
297	The preparation of graphene ink from the exfoliation of graphite in pullulan, chitosan and alginate for strain-sensitive paper. International Journal of Biological Macromolecules, 2020, 153, 1211-1219.	7.5	16
298	Review—Recent Progress in the Graphene-Based Electrochemical Sensors and Biosensors. Journal of the Electrochemical Society, 2020, 167, 037528.	2.9	103
299	The preliminary study based on milling dental glass ceramics with visible and infrared picosecond laser pulse. International Journal of Advanced Manufacturing Technology, 2020, 108, 1029-1038.	3.0	0
300	Structure-property relationship in silicone rubber nanocomposites reinforced with carbon nanomaterials for sensors and actuators. Sensors and Actuators A: Physical, 2020, 303, 111712.	4.1	30
301	A facile approach to obtaining PVDF/graphene fibers and the effect of nanoadditive on the structure and properties of nanocomposites. Polymer Testing, 2020, 81, 106229.	4.8	20
302	Clays and carbon nanotubes as hybrid nanofillers in thermoplastic-based nanocomposites – A review. Applied Clay Science, 2020, 185, 105408.	5.2	81
303	Enhanced mechanical properties of 3D printed graphene-polymer composite lattices at very low graphene concentrations. Composites Part A: Applied Science and Manufacturing, 2020, 129, 105726.	7.6	76
304	Buckling and vibration of FG graphene platelets/aluminum sandwich curved nanobeams considering the thickness stretching effect and exposed to a magnetic field. Results in Physics, 2020, 16, 102865.	4.1	24
305	Preparation and characterization of hexamethylenediamine-modified graphene oxide/Co-polyamide nanocomposites. Polymers and Polymer Composites, 2020, 28, 421-432.	1.9	7
306	Engineering investigation for the size effect of graphene oxide derived from graphene nanoplatelets in polyurethane composites. Canadian Journal of Chemical Engineering, 2020, 98, 1084-1096.	1.7	17
307	High performance epoxy nanocomposites with enhanced thermal and mechanical properties by incorporating amine-terminated oligoimide-grafted graphene oxide. High Performance Polymers, 2020, 32, 569-587.	1.8	5

#	Article	IF	CITATIONS
308	A Graphene Oxide–Based Composite for Solid-Phase Extraction of Carbamate Pesticides from Vegetables. Food Analytical Methods, 2020, 13, 690-698.	2.6	17
309	Multifunctional Graphene-Oxide-Reinforced Dissolvable Polymeric Microneedles for Transdermal Drug Delivery. ACS Applied Materials & Interfaces, 2020, 12, 352-360.	8.0	74
310	Influence of amine functionalized graphene oxide on mechanical and thermal properties of epoxy matrix composites. Iranian Polymer Journal (English Edition), 2020, 29, 47-55.	2.4	17
311	Synthesis, characterization, and properties of graphene reinforced metal-matrix nanocomposites. Composites Part B: Engineering, 2020, 183, 107664.	12.0	124
312	Graphene-based material for self-healing: mechanism, synthesis, characteristics, and applications. , 2020, , 163-175.		2
313	First-principles Modeling of Thermal Transport in Materials: Achievements, Opportunities, and Challenges. International Journal of Thermophysics, 2020, 41, 1.	2.1	30
314	Graphene and Lithium-Based Battery Electrodes: A Review of Recent Literature. Energies, 2020, 13, 4867.	3.1	33
315	Advances in graphene-based supercapacitor electrodes. Energy Reports, 2020, 6, 2768-2784.	5.1	100
316	Polymer Nanocompositeâ€based Coatings for Corrosion Protection. Chemistry - an Asian Journal, 2020, 15, 3915-3941.	3.3	58
317	Improving Dispersion and Mechanical Properties of Polypropylene/Graphene Nanoplatelet Composites by Mixed Solvent-Assisted Melt Blending. Macromolecular Research, 2020, 28, 1166-1173.	2.4	16
318	Graphene nano-flakes on Cu low-index surfaces by density functional theory and molecular dynamics simulations. Frontiers of Nanoscience, 2020, 17, 141-159.	0.6	2
319	Well-Designed Au Nanorod-Doped Cu <sub>2</sub> O Core–Shell Nanocube-Embedded Reduced Graphene Oxide Composite for Efficient Removal of a Water Pollutant Dye. ACS Omega, 2020, 5, 24799-24810.	3.5	15
320	The incorporation of graphene to enhance mechanical properties of polypropylene self-reinforced polymer composites. Materials and Design, 2020, 195, 109073.	7.0	39
321	Graphene oxide and its chemical nature: Multi-stage interactions between the oxygen and graphene. Surfaces and Interfaces, 2020, 21, 100763.	3.0	35
322	Preparation of grafted few-layer graphene from K-THF-graphite intercalation compounds by the addition of aldehyde. FlatChem, 2020, 24, 100206.	5.6	3
323	<p>Applications of Graphene and Its Derivatives in Bone Repair: Advantages for Promoting Bone Formation and Providing Real-Time Detection, Challenges and Future Prospects</p> . International Journal of Nanomedicine, 2020, Volume 15, 7523-7551.	6.7	52
324	Dynamic stress–strain response of graphene nanocomposites. International Journal of Impact Engineering, 2020, 145, 103690.	5.0	4
325	Nanocellulose as a Sustainable Building Block to Construct Eco-Friendly Thermally Conductive Composites. Industrial & Engineering Chemistry Research, 2020, 59, 19465-19484.	3.7	17

#	Article	IF	CITATIONS
326	Effect of graphene nanoplatelets on the impact response of a carbon fibre reinforced composite. Materials Today Communications, 2020, 25, 101530.	1.9	12
327	Graphene/polyaniline nanocomposites: Effect of surfactant and fabrication methods. AIP Conference Proceedings, 2020, , .	0.4	1
328	Graphene Oxide as a Sensing Material for Gas Detection Based on Nanomechanical Sensors in the Static Mode. Chemosensors, 2020, 8, 82.	3.6	17
329	A novel approach to synthesize nitrogen-doped graphene in aspects of milling energy. Diamond and Related Materials, 2020, 110, 108116.	3.9	3
330	Tailoring nanocomposite interfaces with graphene to achieve high strength and toughness. Science Advances, 2020, 6, .	10.3	40
331	Radio frequency heating and reduction of Graphene Oxide and Graphene Oxide - Polyvinyl Alcohol Composites. Carbon, 2020, 169, 475-481.	10.3	15
332	Edge effect on interlayer shear in multilayer two-dimensional material assemblies. International Journal of Solids and Structures, 2020, 204-205, 128-137.	2.7	7
333	Mechanical properties of composites with graphene oxide functionalization of either epoxy matrix or curaua fiber reinforcement. Journal of Materials Research and Technology, 2020, 9, 13390-13401.	5.8	43
334	Fabrication of graphene nanosheets decorated by nitrogen-doped ZnO nanoparticles with enhanced visible photocatalytic activity for the degradation of Methylene Blue dye. Journal of Molecular Liquids, 2020, 317, 114112.	4.9	49
335	A chirality-dependent peridynamic model for the fracture analysis of graphene sheets. Mechanics of Materials, 2020, 149, 103535.	3.2	14
336	The Role of Reduced Graphene Oxide in the Suspension Polymerization of Styrene and Its Effect on the Morphology and Thermal Properties of the Polystyrene/rGO Nanocomposites. Polymers, 2020, 12, 1468.	4.5	6
337	Investigating the exfoliation behavior of MoS2 and graphite in water: A comparative study. Applied Surface Science, 2020, 512, 145588.	6.1	22
338	A self-converted strategy toward multifunctional composites with laser-induced graphitic structures. Composites Science and Technology, 2020, 199, 108334.	7.8	12
339	Theoretical study of collision dynamics of fullerenes on graphenylene and porous graphene membranes. Journal of Molecular Graphics and Modelling, 2020, 100, 107664.	2.4	1
340	Conductivity and elasticity of graphene-type composites. , 2020, , 193-231.		1
341	2D graphene oxide liquid crystal for real-world applications: Energy, environment, and antimicrobial. APL Materials, 2020, 8, .	5.1	24
342	The "Superlubricity State―of Carbonaceous Fillers on Polymer Composites. Macromolecular Chemistry and Physics, 2020, 221, 2000192.	2.2	4
343	Fabrication and Characterization of Flexible Three-Phase ZnO-Graphene-Epoxy Electro-Active Thin-Film Nanocomposites: Towards Applications in Wearable Biomedical Devices. Journal of Composites Science, 2020, 4, 88.	3.0	4

#	Article	IF	CITATIONS
344	A comprehensive review on mechanical, electromagnetic radiation shielding, and thermal conductivity of fibers/inorganic fillers reinforced hybrid polymer composites. Polymer Composites, 2020, 41, 3940-3965.	4.6	179
345	Mechanical properties of fiber/graphene epoxy hybrid composites. Journal of Mechanical Science and Technology, 2020, 34, 4589-4595.	1.5	25
346	Nano-modified functional composite coatings for metallic structures: Part II—Mechanical and damage tolerance. Surface and Coatings Technology, 2020, 401, 126274.	4.8	6
347	Doping-Induced Stacking Transition in Trilayer Graphene: Implications for Layer Stacking Manipulation. ACS Applied Nano Materials, 2020, 3, 11861-11868.	5.0	9
348	Ballistic Performance of Ramie Fabric Reinforcing Graphene Oxide-Incorporated Epoxy Matrix Composite. Polymers, 2020, 12, 2711.	4.5	25
349	Experimental investigation of oligo cyclic compression behavior of pure epoxy and graphene-epoxy nanocomposites. Polymer Bulletin, 2020, , 1.	3.3	2
350	Investigation of effective coating of the Ti–6Al–4V alloy and 316L stainless steel with graphene or carbon nanotubes with finite element methods. Journal of Materials Research and Technology, 2020, 9, 15880-15893.	5.8	18
351	Intercalation: Constructing Nanolaminated Reduced Graphene Oxide/Silica Ceramics for Lightweight and Mechanically Reliable Electromagnetic Interference Shielding Applications. ACS Applied Materials & Interfaces, 2020, 12, 55148-55156.	8.0	25
352	Impact of the microstructure of polycarboxylate superplasticizers on the dispersion of graphene. New Carbon Materials, 2020, 35, 547-558.	6.1	4
353	Ultra-sensitive and resilient compliant strain gauges for soft machines. Nature, 2020, 587, 219-224.	27.8	279
353 354	Ultra-sensitive and resilient compliant strain gauges for soft machines. Nature, 2020, 587, 219-224. Reduction and functionalization of graphene oxide with L-cysteine: Synthesis, characterization and biocompatibility. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 29, 102284.	27.8 3.3	279 24
353 354 355	Ultra-sensitive and resilient compliant strain gauges for soft machines. Nature, 2020, 587, 219-224.         Reduction and functionalization of graphene oxide with L-cysteine: Synthesis, characterization and biocompatibility. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 29, 102284.         Graphene Templated DNA Arrays and Biotin-Streptavidin Sensitive Bio-Transistors Patterned by Dynamic Self-Assembly of Polymeric Films Confined within a Roll-on-Plate Geometry. Nanomaterials, 2020, 10, 1468.	27.8 3.3 4.1	279 24 10
353 354 355 356	Ultra-sensitive and resilient compliant strain gauges for soft machines. Nature, 2020, 587, 219-224.         Reduction and functionalization of graphene oxide with L-cysteine: Synthesis, characterization and biocompatibility. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 29, 102284.         Graphene Templated DNA Arrays and Biotin-Streptavidin Sensitive Bio-Transistors Patterned by Dynamic Self-Assembly of Polymeric Films Confined within a Roll-on-Plate Geometry. Nanomaterials, 2020, 10, 1468.         Graphene-based printable conductors for cyclable strain sensors on elastomeric substrates. Carbon, 2020, 169, 25-31.	27.8 3.3 4.1 10.3	279 24 10 18
353 354 355 356	Ultra-sensitive and resilient compliant strain gauges for soft machines. Nature, 2020, 587, 219-224.Reduction and functionalization of graphene oxide with L-cysteine: Synthesis, characterization and biocompatibility. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 29, 102284.Graphene Templated DNA Arrays and Biotin-Streptavidin Sensitive Bio-Transistors Patterned by Dynamic Self-Assembly of Polymeric Films Confined within a Roll-on-Plate Geometry. Nanomaterials, 2020, 10, 1468.Graphene-based printable conductors for cyclable strain sensors on elastomeric substrates. Carbon, 2020, 169, 25-31.Bound Layer Polymer Behavior on Graphene and Graphene Oxide Nanosheets. Macromolecules, 2020, 53, 6190-6203.	27.8 3.3 4.1 10.3 4.8	279 24 10 18
<ul> <li>353</li> <li>354</li> <li>355</li> <li>356</li> <li>357</li> <li>358</li> </ul>	Ultra-sensitive and resilient compliant strain gauges for soft machines. Nature, 2020, 587, 219-224.         Reduction and functionalization of graphene oxide with L-cysteine: Synthesis, characterization and biocompatibility. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 29, 102284.         Graphene Templated DNA Arrays and Biotin-Streptavidin Sensitive Bio-Transistors Patterned by Dynamic Self-Assembly of Polymeric Films Confined within a Roll-on-Plate Geometry. Nanomaterials, 2020, 10, 1468.         Graphene-based printable conductors for cyclable strain sensors on elastomeric substrates. Carbon, 2020, 169, 25-31.         Bound Layer Polymer Behavior on Graphene and Graphene Oxide Nanosheets. Macromolecules, 2020, 53, 6190-6203.         Perspectives in the design and application of composites based on graphene derivatives and bioâ€based polymers. Polymer International, 2020, 69, 1173-1186.	27.8 3.3 4.1 10.3 4.8 3.1	279 24 10 18 10 23
<ul> <li>353</li> <li>354</li> <li>355</li> <li>356</li> <li>358</li> <li>359</li> </ul>	Ultra-sensitive and resilient compliant strain gauges for soft machines. Nature, 2020, 587, 219-224.         Reduction and functionalization of graphene oxide with L-cysteine: Synthesis, characterization and biocompatibility. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 29, 102284.         Graphene Templated DNA Arrays and Biotin-Streptavidin Sensitive Bio-Transistors Patterned by Dynamic Self-Assembly of Polymeric Films Confined within a Roll-on-Plate Geometry. Nanomaterials, 2020, 10, 1468.         Graphene-based printable conductors for cyclable strain sensors on elastomeric substrates. Carbon, 2020, 169, 25-31.         Bound Layer Polymer Behavior on Graphene and Graphene Oxide Nanosheets. Macromolecules, 2020, 53, 6190-6203.         Perspectives in the design and application of composites based on graphene derivatives and bioâ&based polymers. Polymer International, 2020, 69, 1173-1186.         Graphene composites; from hype-time shadows into the light of novel opportunities. Graphene Technology, 2020, 5, 29-31.	27.8 3.3 4.1 10.3 4.8 3.1 1.9	279 24 10 18 10 23 23
<ul> <li>353</li> <li>354</li> <li>355</li> <li>356</li> <li>360</li> </ul>	Ultra-sensitive and resilient compliant strain gauges for soft machines. Nature, 2020, 587, 219-224.Reduction and functionalization of graphene oxide with L-cysteine: Synthesis, characterization and biocompatibility. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 29, 102284.Graphene Templated DNA Arrays and Biotin-Streptavidin Sensitive Bio-Transistors Patterned by Dynamic Self-Assembly of Polymeric Films Confined within a Roll-on-Plate Geometry. Nanomaterials, 2020, 10, 1468.Graphene-based printable conductors for cyclable strain sensors on elastomeric substrates. Carbon, 2020, 169, 25-31.Bound Layer Polymer Behavior on Graphene and Graphene Oxide Nanosheets. Macromolecules, 2020, S3, 6190-6203.Perspectives in the design and application of composites based on graphene derivatives and bioacebased polymers. Polymer International, 2020, 69, 1173-1186.Graphene composites: from hype-time shadows into the light of novel opportunities. Graphene Facile synthesis of reduced graphene oxide encapsulated selenium nanoparticles prepared by hydrothermal method for acetone gas sensors. Chemical Physics Letters, 2020, 755, 137797.	27.8 3.3 4.1 10.3 4.8 3.1 1.9 2.6	279 24 10 18 10 23 23 1

#	Article	IF	CITATIONS
362	Effects of Graphene-Based Fillers on Cathodic Delamination and Abrasion Resistance of Cataphoretic Organic Coatings. Coatings, 2020, 10, 602.	2.6	18
363	A brief review on supercapacitor energy storage devices and utilization of natural carbon resources as their electrode materials. Fuel, 2020, 282, 118796.	6.4	216
364	Potential of Graphene–Polymer Composites for Ligament and Tendon Repair: A Review. Advanced Engineering Materials, 2020, 22, 2000492.	3.5	12
365	Application of the hybrid DQ- Heaviside-NURBS method for dynamic analysis of FG-GPLRC cylindrical shells subjected to impulse load. Thin-Walled Structures, 2020, 155, 106914.	5.3	16
366	Mechanical properties and oxidation behavior of spark plasma sintered (Zr,Ti)B2 ceramics with graphene nanoplatelets. Ceramics International, 2020, 46, 26109-26120.	4.8	12
367	Graphene based nanomaterials for strain sensor application—a review. Journal of Environmental Chemical Engineering, 2020, 8, 103743.	6.7	136
368	Graphene-Incorporated Natural Fiber Polymer Composites: A First Overview. Polymers, 2020, 12, 1601.	4.5	69
369	A perspective on the structure and properties of nanocomposites. Polymer Composites, 2020, 41, 2986-2989.	4.6	3
370	Effect of exfoliation medium on the morphology of multi-layer graphene oxide and its importance for Poly(Ethylene terephthalate) based nanocomposites. Polymer Testing, 2020, 90, 106742.	4.8	13
371	The Current Role of Graphene-Based Nanomaterials in the Sample Preparation Arena. Frontiers in Chemistry, 2020, 8, 664.	3.6	32
372	Direct growth of CVD graphene on 3D-architectured substrates for highly stable tactile sensors. Chinese Journal of Physics, 2020, 67, 569-575.	3.9	4
373	Graphene/polyaniline nanocomposites: effect of in-situ polymerization and solvent blending methods with dodecylbenzene sulfonic acid surfactant. Journal of Materials Science: Materials in Electronics, 2020, 31, 15805-15821.	2.2	6
374	Graphene impregnated electrospun nanofiber sensing materials: a comprehensive overview on bridging laboratory set-up to industry. Nano Convergence, 2020, 7, 27.	12.1	52
375	Recent Advances of Graphene-Derived Nanocomposites in Water-Based Drilling Fluids. Nanomaterials, 2020, 10, 2004.	4.1	18
376	Mechanical properties of intrinsic and defective hybrid polyaniline (C3N)-BC3 nanosheets in the armchair and zigzag configurations: a molecular dynamics study. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	13
377	Approaching the Limit of Electromechanical Performance in Mixed-Phase Nanocomposites. ACS Applied Nano Materials, 2020, 3, 11240-11246.	5.0	10
378	Urethane-Acrylate/Aramid Nanocomposites Based on Graphenic Materials. A Comparative Study of Their Mechanical Properties. Polymers, 2020, 12, 2388.	4.5	1
379	Mechanical and thermal properties of electrospun polyimide/rGO composite nanofibers via in-situ polymerization and in-situ thermal conversion. European Polymer Journal, 2020, 141, 110083.	5.4	56

#	Article	IF	CITATIONS
380	GOPY: A tool for building 2D graphene-based computational models. SoftwareX, 2020, 12, 100586.	2.6	10
381	Integration of 3D nanographene into mesoporous germanium. Nanoscale, 2020, 12, 23984-23994.	5.6	6
382	Universal Transfer Printing of Micelle-Templated Nanoparticles Using Plasma-Functionalized Graphene. ACS Applied Materials & Interfaces, 2020, 12, 46530-46538.	8.0	4
383	Tribology of 2D Nanomaterials: A Review. Coatings, 2020, 10, 897.	2.6	49
384	An overview of graphene and its derivatives reinforced metal matrix composites: Preparation, properties and applications. Carbon, 2020, 170, 302-326.	10.3	169
385	Embedding two-dimensional graphene array in ceramic matrix. Science Advances, 2020, 6, .	10.3	67
386	Synthesis of reduced graphene oxide modified Cu (rGO-Cu) by gamma irradiation and its electroactive properties. Journal of Physics: Conference Series, 2020, 1436, 012077.	0.4	0
387	Graphene and Polyethylene: A Strong Combination Towards Multifunctional Nanocomposites. Polymers, 2020, 12, 2094.	4.5	17
388	Mechanical, electrical and thermal properties of graphene oxide-carbon nanotube/ ABS hybrid polymer nanocomposites. Journal of Polymer Research, 2020, 27, 1.	2.4	17
389	Flash Graphene Morphologies. ACS Nano, 2020, 14, 13691-13699.	14.6	78
390	A Review on Graphene-Based Light Emitting Functional Devices. Molecules, 2020, 25, 4217.	3.8	18
391	All-Carbon Conductors for Electronic and Electrical Wiring Applications. Frontiers in Materials, 2020, 7, .	2.4	30
392	Mechanical Properties of Graphene with Defects and Its Application in Nanocomposites–Brief Overview IOP Conference Series: Materials Science and Engineering, 2020, 912, 052028.	0.6	0
393	Comparative study of the influence of graphene nanoplatelets filler on the mechanical and tribological behavior of glass fabricâ€reinforced epoxy composites. Polymer Composites, 2020, 41, 5403-5417.	4.6	41
394	Graphene–Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. Advanced Electronic Materials, 2020, 6, 2000429.	5.1	25
395	Enhancing electromagnetic interference shielding effectiveness for radiation vulcanized natural rubber latex composites containing multiwalled carbon nanotubes and silk textile. Polymer Composites, 2020, 41, 3996-4009.	4.6	14
396	Graphene-PSS/ <scp>l</scp> -DOPA nanocomposite cation exchange membranes for electrodialysis desalination. Environmental Science: Nano, 2020, 7, 3108-3123.	4.3	8
398	Exceptional in-plane and interfacial thermal transport in graphene/2D-SiC van der Waals heterostructures. Scientific Reports, 2020, 10, 22050.	3.3	21

#	Article	IF	CITATIONS
399	Fabrication and characterization of mechanically competent 3D printed polycaprolactone-reduced graphene oxide scaffolds. Scientific Reports, 2020, 10, 22210.	3.3	59
400	Recent advances in graphene-based materials for dye-sensitized solar cell fabrication. RSC Advances, 2020, 10, 44453-44469.	3.6	43
401	Scanning Probe Spectroscopy of WS2/Graphene Van Der Waals Heterostructures. Nanomaterials, 2020, 10, 2494.	4.1	4
402	Ti <sub>3</sub> C <sub>2</sub> 2D MXene: Recent Progress and Perspectives in Photocatalysis. ACS Applied Materials & Interfaces, 2020, 12, 56663-56680.	8.0	148
403	Photocatalytic Degradation of Phenol Using Chemical Vapor Desposition Graphene Column. Catalysts, 2020, 10, 1251.	3.5	0
404	Utilization of Graphite Rods from Waste Batteries to Produce Graphene Solvent for Augmented Mechanical Strength of Papers and Boards. Materials Science Forum, 2020, 1005, 131-138.	0.3	2
405	Graphene-Based Reinforcing Filler for Double-Layer Acrylic Coatings. Materials, 2020, 13, 4499.	2.9	14
406	Micro-scale computational modeling of graphene-based nanocomposites – Influence of filler-matrix interface failure. Mechanics of Materials, 2020, 150, 103584.	3.2	7
407	Charge Transport Behavior of Al-Doped ZnO Incorporated with Reduced Graphene Oxide Nanocomposite Thin Film. Applied Sciences (Switzerland), 2020, 10, 7703.	2.5	1
408	Pâ€60: Singleâ€Step Plasmaâ€Enhanced Chemical Vapor Deposition of Graphene on Cu Ink and Sputtered Cu Thin Films. Digest of Technical Papers SID International Symposium, 2020, 51, 1565-1568.	0.3	1
409	Nanomaterial based aptasensing of prostate specific antigen (PSA): Recent progress and challenges in efficient diagnosis of prostate cancer using biomedicine. Biomedicine and Pharmacotherapy, 2020, 132, 110878.	5.6	29
410	3D printed nanocomposites using polymer grafted graphene oxide prepared by multicomponent Passerini reaction. Polymer Chemistry, 2020, 11, 7253-7263.	3.9	6
411	Editorial: Recent Trends in Optical and Mechanical Characterization of Nanomaterials. Frontiers in Chemistry, 2020, 8, 564014.	3.6	2
412	Properties of Graphene-Related Materials Controlling the Thermal Conductivity of Their Polymer Nanocomposites. Nanomaterials, 2020, 10, 2167.	4.1	20
413	Polystyrene-Based Nanocomposites with Different Fillers: Fabrication and Mechanical Properties. Polymers, 2020, 12, 2457.	4.5	14
414	Characteristics of Highly Areaâ€Mismatched Grapheneâ€ŧoâ€Substrate Transfers and the Predictability of Wrinkle Formation in Graphene for Stretchable Electronics. Advanced Materials Interfaces, 2020, 7, 2001224.	3.7	1
415	Graphene nanosheets as reinforcement and cell-instructive material in soft tissue scaffolds. Advances in Colloid and Interface Science, 2020, 281, 102167.	14.7	20
416	Wear behaviour of hybrid polymer matrix composites using Taguchi technique. Materials Today: Proceedings, 2020, 33, 3186-3190.	1.8	17

#	Article	IF	CITATIONS
417	Modeling and Electrochemical Characterization of Electrodes Based on Epoxy Composite with Functionalized Nanocarbon Fillers at High Concentration. Nanomaterials, 2020, 10, 850.	4.1	8
418	Extremely facile and green synthesis of magnetic carbon composites drawn from natural bulrush for electromagnetic wave absorbing. Journal of Alloys and Compounds, 2020, 835, 155345.	5.5	46
419	A Review on Graphene Derivatives-Based Nanofluids: Investigation on Properties and Heat Transfer Characteristics. Industrial & Engineering Chemistry Research, 2020, 59, 10231-10277.	3.7	56
420	Thermodynamics of the formation of water dispersions of graphene and water solutions of the nanostructures based on graphene and gold nanoparticles. Applied Nanoscience (Switzerland), 2020, 10, 4609-4616.	3.1	3
421	Methylation Detection and DNA Sequencing Based on Adsorption of Nucleobases on Silicene Nanoribbon. Journal of Physical Chemistry C, 2020, 124, 10823-10831.	3.1	12
422	Anion intercalated graphite: a combined electrochemical and tribological investigation by in situ AFM. Journal of Microscopy, 2020, 280, 222-228.	1.8	3
423	Tribological characterization of graphene nanoplatelets/alumina particles filled epoxy hybrid nanocomposites. Journal of Applied Polymer Science, 2020, 137, 49518.	2.6	10
424	A modified Mori–Tanaka approach incorporating filler-matrix interface failure to model graphene/polymer nanocomposites. International Journal of Mechanical Sciences, 2020, 180, 105699.	6.7	29
425	Highly tunable thermal conductivity of C3N under tensile strain: A first-principles study. Journal of Applied Physics, 2020, 127, 184304.	2.5	16
426	Investigation of MoS2 ultrathin films formed by physical vapor deposition in vacuum. IOP Conference Series: Materials Science and Engineering, 2020, 781, 012020.	0.6	0
427	Electrical properties of Graphene/Silicon structure with Al2O3 interlayer. Journal of Materials Science: Materials in Electronics, 2020, 31, 9719-9725.	2.2	18
428	Non-covalently surface modification of graphene oxide nanosheets and its role in the enhancement of the epoxy-based coatings` physical properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 602, 125061.	4.7	20
429	Flexoelectric effect on electric potential in piezoelectric graphene-based composite nanowire: Analytical and numerical modelling. European Journal of Mechanics, A/Solids, 2020, 84, 104050.	3.7	20
430	Exfoliation synthesis of graphene and optimization with alkali halide salts. Surfaces and Interfaces, 2020, 20, 100548.	3.0	7
431	Effect of Novel Synthesized Nanoeggshell on the Properties of Cementitious Composites. Journal of Advanced Concrete Technology, 2020, 18, 294-306.	1.8	8
432	Electrodeposited nickel–graphene nanocomposite coating: effect of graphene nanoplatelet size on its microstructure and hardness. RSC Advances, 2020, 10, 22080-22090.	3.6	19
433	Mechanical Behavior of Melt-Mixed 3D Hierarchical Graphene/Polypropylene Nanocomposites. Polymers, 2020, 12, 1309.	4.5	14
434	Synthesis, characterisation and biocompatibility of graphene–L-methionine nanomaterial. Journal of Molecular Liquids, 2020, 314, 113605.	4.9	20

#	Article	IF	CITATIONS
435	Mechanical Properties Improvement in Highly and Aligned Dispersed Graphene Oxide/Bismaleimide Nanocomposites based on Graphene Oxide Sponge. Advanced Engineering Materials, 2020, 22, 2000231.	3.5	3
436	Fabrication of polystyrene/carbon nanocomposites with superior mechanical properties. Polymer Engineering and Science, 2020, 60, 2046-2056.	3.1	9
437	Tunable thermal conductivity of single layer MoS2 nanoribbons: an equilibrium molecular dynamics study. Journal of Computational Electronics, 2020, 19, 957-965.	2.5	5
438	Effects of chemical structure and morphology of graphene-related materials (GRMs) on melt processing and properties of GRM/polyamide-6 nanocomposites. Results in Materials, 2020, 7, 100105.	1.8	18
439	A versatile route to edge-specific modifications to pristine graphene by electrophilic aromatic substitution. Journal of Materials Science, 2020, 55, 10284-10302.	3.7	8
440	Enhancement of the mechanical properties of graphene based acrylonitrile butadiene styrene (ABS) nanocomposites. Materials Today: Proceedings, 2020, 28, 1744-1747.	1.8	17
441	Development and Characterization of Freestanding Poly (Methyl Methacrylate)/Monolayer Graphene Membrane. IEEE Access, 2020, 8, 29702-29710.	4.2	2
442	Nanocarbon and macrocarbonaceous filler–reinforced epoxy/polyamide: A review. Journal of Thermoplastic Composite Materials, 2022, 35, 2620-2640.	4.2	20
443	Carbonaceous Nanomaterials Employed in the Development of Electrochemical Sensors Based on Screen-Printing Technique—A Review. Catalysts, 2020, 10, 680.	3.5	43
444	Influence of graphene addition on the mechanical and surface properties of vitreous enamel coatings. Surface and Coatings Technology, 2020, 398, 126071.	4.8	18
445	Thermo-Electro-Mechanical Size-Dependent Buckling Response for Functionally Graded Graphene Platelet Reinforced Piezoelectric Cylindrical Nanoshells. International Journal of Structural Stability and Dynamics, 2020, 20, 2050100.	2.4	22
446	Detection of Leptospirosis Bacteria in Rodent Urine by Surface Plasmon Resonance Sensor Using Graphene. Photonic Sensors, 2020, 11, 305.	5.0	6
447	Controllable fabrication and multifunctional applications of graphene/ceramic composites. Journal of Advanced Ceramics, 2020, 9, 271-291.	17.4	77
448	Mechanical and tribological properties of nanocomposites incorporated with two-dimensional materials. Friction, 2020, 8, 813-846.	6.4	79
449	The effect of graphene nano-sheet (GNS) weight percentage on mechanical and corrosion properties of AZ61 and AZ91 based magnesium matrix composites. Journal of Composite Materials, 2020, 54, 4473-4485.	2.4	22
450	Stress Field Characteristics and Collective Mechanical Properties of Defective Graphene. Journal of Physical Chemistry C, 2020, 124, 7421-7431.	3.1	6
451	ZrO <sub>2</sub> Nanoflowers Decorated with Graphene Quantum Dots for Electrochemical Immunosensing. ACS Applied Nano Materials, 2020, 3, 2506-2516.	5.0	41
452	Synthesis of polyaniline/electrochemically exfoliated graphene composite as counter-electrode in dye-sensitized solar cell. Polymer-Plastics Technology and Materials, 2020, 59, 1370-1378.	1.3	3

#	Article	IF	CITATIONS
453	Facile synthesis of battery waste-derived graphene for transparent and conductive film application by an electrochemical exfoliation method. RSC Advances, 2020, 10, 10322-10328.	3.6	20
454	Carbon fiber/poly ether ether ketone composites modified with graphene for electro-thermal deicing applications. Composites Science and Technology, 2020, 192, 108117.	7.8	50
455	Interface binding and mechanical properties of MXene-epoxy nanocomposites. Composites Science and Technology, 2020, 192, 108124.	7.8	64
457	Nanoscale Assembly of 2D Materials for Energy and Environmental Applications. Advanced Materials, 2020, 32, e1907006.	21.0	106
458	Probing the compound effect of spatially varying intrinsic defects and doping on mechanical properties of hybrid graphene monolayers. Journal of Materials Science and Technology, 2020, 50, 44-58.	10.7	23
459	A novel method for fabricating bioinspired layered nanocomposites using aligned graphene oxide/PVDF and their micromechanical modeling. Materials Today Communications, 2020, 24, 101050.	1.9	9
460	Grafting conductive polymers on graphene oxide through cross-linker: a stepwise approach. Journal of Materials Chemistry A, 2020, 8, 13718-13724.	10.3	22
461	Effect of the Gate Volume on the Performance of Printed Nanosheet Network-Based Transistors. ACS Applied Electronic Materials, 2020, 2, 2164-2170.	4.3	6
462	Graphene/ZnO van der Waals Stacks for Thermal Management. ACS Applied Nano Materials, 2020, 3, 7136-7142.	5.0	4
463	Effect of the Fluorination of Graphene Nanoflake on the Dispersion and Mechanical Properties of Polypropylene Nanocomposites. Nanomaterials, 2020, 10, 1171.	4.1	8
464	High-Performance Strain Sensors Based on Vertically Aligned Piezoelectric Zinc Oxide Nanowire Array/Graphene Nanohybrids. ACS Applied Nano Materials, 2020, 3, 6711-6718.	5.0	30
465	Supermolecular Structure of Poly(Butylene Terephthalate) Fibers Formed with the Addition of Reduced Graphene Oxide. Polymers, 2020, 12, 1456.	4.5	3
466	Nanoadsorbents and nanoporous materials for the food industry. , 2020, , 107-159.		4
467	A multiscale modeling on fracture and strength of graphene platelets reinforced epoxy. Engineering Fracture Mechanics, 2020, 235, 107197.	4.3	21
468	Nanographene enfolded AuNPs sophisticatedly synchronized polycaprolactone based electrospun nanofibre scaffold for peripheral nerve regeneration. Materials Science and Engineering C, 2020, 116, 111213.	7.3	34
469	Noncovalent interaction of single-walled carbon nanotubes with graphene/graphene oxide: Spectroscopy and theoretical characterizations. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114279.	2.7	1
470	Sulfonic-functionalized graphene oxide reinforced polyethersulfone nanocomposites with enhanced dielectric permittivity and EMI shielding effectivenessA. Journal of Macromolecular Science - Pure and Applied Chemistry, 2020, 57, 778-790.	2.2	12
471	A Comparative Study of the ZnO Growth on Graphene and Graphene Oxide: The Role of the Initial Oxidation State of Carbon. Journal of Carbon Research, 2020, 6, 41.	2.7	12

#	Article	IF	CITATIONS
472	Graphene-Like Nanocomposites. , 2020, , .		0
473	Graphene-based nanocomposites and their fabrication, mechanical properties and applications. Materialia, 2020, 12, 100815.	2.7	54
474	Synthesis and analysis of Mg–3%Al alloy nanocomposites reinforced by RGO. Materials and Manufacturing Processes, 2020, 35, 1650-1660.	4.7	6
475	Study on Modified Hummers Method for Partially Oxidized Graphene Oxide Synthesis. Materials Science Forum, 0, 981, 23-28.	0.3	1
476	Mechanical response of <i>η</i> -layered borophene: impact of strain, temperature, vacancies and intercalation. EPJ Applied Physics, 2020, 90, 30401.	0.7	3
477	Printed Electronics as Prepared by Inkjet Printing. Materials, 2020, 13, 704.	2.9	118
478	Graphene nanoplatelets-reinforced magnesium metal matrix nanocomposites with superior mechanical and corrosion performance for biomedical applications. Journal of Magnesium and Alloys, 2020, 8, 269-290.	11.9	87
479	Out-of-plane vibration of laminated FG-GPLRC curved beams with piezoelectric layers. Thin-Walled Structures, 2020, 150, 106678.	5.3	36
480	Anisotropic swelling of elastomers filled with aligned 2D materials. 2D Materials, 2020, 7, 025031.	4.4	8
481	Synthesis of Few-Layer Graphene Sheets from Waste Expanded Polystyrene by Dense Fe Cluster Catalysis. ACS Omega, 2020, 5, 4075-4082.	3.5	20
482	Functionally graded graphene reinforced composite structures: A review. Engineering Structures, 2020, 210, 110339.	5.3	332
483	Resistive and impedimetric properties of elastic composite based on graphene and CNT under uniaxial compressive displacement. Advanced Composite Materials, 2020, 29, 559-568.	1.9	5
484	Preparation of Ag/reduced graphene oxide reinforced copper matrix composites through spark plasma sintering: An investigation of microstructure and mechanical properties. Ceramics International, 2020, 46, 13569-13579.	4.8	22
485	Characterization of commercial graphene-based materials for application in thermoplastic nanocomposites. Materials Today: Proceedings, 2020, 20, 383-390.	1.8	15
486	Large amplitude vibration of functionally graded graphene nanocomposite annular plates in thermal environments. Composite Structures, 2020, 239, 112047.	5.8	67
487	Strong graphene oxide nanocomposites from aqueous hybrid liquid crystals. Nature Communications, 2020, 11, 830.	12.8	30
488	Graphene-boundary strengthening mechanism in Cu/graphene nanocomposites: A molecular dynamics simulation. Materials and Design, 2020, 190, 108555.	7.0	41
489	N-Doped Biomass Carbon/Reduced Graphene Oxide as a High-Performance Anode for Sodium-Ion Batteries. Energy & Fuels, 2020, 34, 3923-3930.	5.1	26

#	Article	IF	CITATIONS
490	The role of nanofiller size and polymer chain configuration on the properties of polypropylene/graphite nanoplates composites. Journal of the Taiwan Institute of Chemical Engineers, 2020, 108, 82-91.	5.3	16
491	Elastic straining of free-standing monolayer graphene. Nature Communications, 2020, 11, 284.	12.8	194
492	Features of obtaining an effective catalyst for synthesis of carbon nanostructured materials. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 348-352.	2.1	3
493	Introduction to graphene. , 2020, , 1-10.		2
494	Polydimethylsiloxane-based nanocomposite: present research scenario and emergent future trends. Polymer-Plastics Technology and Materials, 2020, 59, 1148-1166.	1.3	27
495	Extrusion of Polymer Nanocomposites with Graphene and Graphene Derivative Nanofillers: An Overview of Recent Developments. Materials, 2020, 13, 549.	2.9	77
496	Preparation and Characterization of Freely-Suspended Graphene Nanomechanical Membrane Devices with Quantum Dots for Point-of-Care Applications. Micromachines, 2020, 11, 104.	2.9	5
497	Enhanced mechanical properties of epoxyâ€matrix nanocomposites reinforced with graphene synthesized in atmospheric plasmas. Plasma Processes and Polymers, 2020, 17, 1900244.	3.0	8
498	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	4.4	333
499	Improved metal-graphene contacts for low-noise, high-density microtransistor arrays for neural sensing. Carbon, 2020, 161, 647-655.	10.3	19
500	Development of π–̀ Interaction-Induced Functionalized Graphene Oxide on Mechanical and Anticorrosive Properties of Reinforced Polyurethane Composites. Industrial & Engineering Chemistry Research, 2020, 59, 3617-3628.	3.7	17
501	Friction Reduction of Hydrogenated Graphene by Strain Engineering. Tribology Letters, 2020, 68, 1.	2.6	17
502	Influence of nano graphene on mechanical behavior of PA66/PA6 blend based hybrid nano composites: Effect of micro fillers. Materials Today: Proceedings, 2020, 20, 228-235.	1.8	11
503	Strong Light–Matter Interactions Enabled by Polaritons in Atomically Thin Materials. Advanced Optical Materials, 2020, 8, 1901473.	7.3	56
504	Precontrolled Alignment of Graphite Nanoplatelets in Polymeric Composites Prevents Bacterial Attachment. Small, 2020, 16, e1904756.	10.0	34
505	Metal-graphene interfaces in epitaxial and bulk systems: A review. Progress in Materials Science, 2020, 110, 100652.	32.8	114
506	Bioinspired footed soft robot with unidirectional all-terrain mobility. Materials Today, 2020, 35, 42-49.	14.2	77
507	Effect of addition of multiwalled carbon nanotube/graphite nanoplatelets hybrid on the mechanical properties of aluminium. Diamond and Related Materials, 2020, 104, 107715.	3.9	20

#	Article	IF	CITATIONS
508	Realising biaxial reinforcement <i>via</i> orientation-induced anisotropic swelling in graphene-based elastomers. Nanoscale, 2020, 12, 3377-3386.	5.6	7
509	Grapheneâ€based polymer composites with ultraâ€high inâ€plane thermal conductivity: A comparison study between optothermal Raman spectroscopy and laser flash method. Journal of Applied Polymer Science, 2020, 137, 48927.	2.6	10
510	Revisiting Silica Networks by Small-angle Neutron Scattering and Synchrotron Radiation X-ray Imaging Techniques. Chinese Journal of Polymer Science (English Edition), 2020, 38, 1006-1014.	3.8	6
511	Improving mechanics behavior of hot mix asphalt using graphene-oxide. Construction and Building Materials, 2020, 254, 119261.	7.2	32
512	Development of a novel low-temperature differential hollow roller using an ultra-thin heating element of graphene polymeric composite material. Microsystem Technologies, 2020, 26, 2561-2567.	2.0	1
513	Evolving Strategies for Producing Multiscale Grapheneâ€Enhanced Fiberâ€Reinforced Polymer Composites for Smart Structural Applications. Advanced Science, 2020, 7, 1903501.	11.2	71
514	Toughening of graphene-based polymer nanocomposites via tuning chemical functionalization. Composites Science and Technology, 2020, 194, 108140.	7.8	44
515	Strength and damage of nanoplatelets reinforced polymer: A 3D finite element modeling and simulation. Composite Structures, 2020, 245, 112337.	5.8	10
516	Mode I interlaminar fracture toughness improvement of the glass/epoxy composite by using multiscale composite approach. Materials Today: Proceedings, 2020, 33, 5328-5333.	1.8	5
517	An experimental investigation of the effects of reinforcement of graphene fillers on mechanical properties of bi-directional glass/epoxy composite. Materials Today: Proceedings, 2020, 33, 5429-5441.	1.8	16
518	Advancing Modern Healthcare With Nanotechnology, Nanobiosensors, and Internet of Nano Things: Taxonomies, Applications, Architecture, and Challenges. IEEE Access, 2020, 8, 65230-65266.	4.2	82
519	Fabrication of Poly(vinyl alcohol)-Polyaniline Nanofiber/Graphene Hydrogel for High-Performance Coin Cell Supercapacitor. Polymers, 2020, 12, 928.	4.5	22
520	Nanostructured graphene materials utilization in fuel cells and batteries: A review. Journal of Energy Storage, 2020, 29, 101386.	8.1	50
521	Tunable Wettability of Graphene through Nondestructive Hydrogenation and Wettability-Based Patterning for Bioapplications. Nano Letters, 2020, 20, 5625-5631.	9.1	21
522	Ballistic impact analysis of graphene nanosheets reinforced kevlar-29. Materials Today: Proceedings, 2021, 45, 788-793.	1.8	3
523	A molecular dynamics-based investigation on tribological properties of functionalized graphene reinforced thermoplastic polyurethane nanocomposites. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2021, 235, 61-78.	1.8	15
524	A novel thermo-responsive system based on β-cyclodextrin-nanocomposite for improving the docetaxel activity. International Journal of Polymeric Materials and Polymeric Biomaterials, 2021, 70, 830-840.	3.4	5
525	Differential quadrature method for magneto-hygrothermal bending of functionally graded graphene/Al sandwich-curved beams with honeycomb core via a new higher-order theory. Journal of Sandwich Structures and Materials, 2021, 23, 1662-1700.	3.5	48

#	Article	IF	CITATIONS
526	Atomistic investigation of the interfacial mechanical characteristics of graphene reinforced thermoplastic polyurethane composite. Composite Interfaces, 2021, 28, 395-427.	2.3	9
527	Polypropylene nanocomposites with high-loading conductive carbon nano-reinforcements for multifunctional applications. Applied Nanoscience (Switzerland), 2021, 11, 493-503.	3.1	12
528	Enhancement of hydrogenated graphene on mechanical and adhesive properties of diamond-like carbon films. Tribology International, 2021, 154, 106725.	5.9	5
529	Improved mechanical properties of resistance welded joints of thermoplastic composites by versatile graphene oxide. Journal of Adhesion Science and Technology, 2021, 35, 1099-1113.	2.6	8
530	Evaluation of tensile properties on Glass/Carbon/Kevlar fiber reinforced hybrid composites. Materials Today: Proceedings, 2021, 39, 1655-1660.	1.8	35
531	Understanding the effect of bimodal microstructure on the strength–ductility synergy of Al–CNT nanocomposites. Journal of Materials Science, 2021, 56, 1730-1748.	3.7	12
532	Numerical modelling of nanocomposite conductive plate for battery thermal management using a novel multi-domain approach. Applied Thermal Engineering, 2021, 182, 116067.	6.0	10
533	Characterization of the structure and properties of processed alumina-graphene and alumina-zirconia composites. Ceramics International, 2021, 47, 367-380.	4.8	12
534	Development of graphene oxide – PDMS composite dielectric for rapid droplet movement in digital microfluidic applications. Chemical Engineering Science, 2021, 230, 116175.	3.8	8
535	Examining the effect of graphene nanoplatelets on the corrosion resistance of epoxy coatings. International Journal of Adhesion and Adhesives, 2021, 104, 102723.	2.9	21
536	The effect of graphene flake size on the properties of grapheneâ€based polymer composite films. Journal of Applied Polymer Science, 2021, 138, 49821.	2.6	28
537	TiN/Al2O3 binary ceramics for negative permittivity metacomposites at kHz frequencies. Journal of Alloys and Compounds, 2021, 855, 157499.	5.5	60
538	Structural Impact of Graphene Nanoribbon on Mechanical Properties and Anti-corrosion Performance of Polyurethane Nanocomposites. Chemical Engineering Journal, 2021, 405, 126858.	12.7	46
539	Toward the Application of Graphene for Combating Marine Biofouling. Advanced Sustainable Systems, 2021, 5, .	5.3	27
540	Improving the volumetric specific capacitance of flexible polyaniline electrode: solution casting method and effect of reduced graphene oxide sheets. Science China Materials, 2021, 64, 571-580.	6.3	2
541	Tailoring Single- and Double-Sided Fluorination of Bilayer Graphene via Substrate Interactions. Nano Letters, 2021, 21, 891-898.	9.1	14
542	Recent advances on composite hydrogels designed for the remediation of dye-contaminated water and wastewater: A review. Journal of Cleaner Production, 2021, 284, 124703.	9.3	141
543	Dependence of linear and non-linear optical properties to sp3 domains level and edges length in graphene-based nanomaterials. Optik, 2021, 226, 165903.	2.9	5

#	Article	IF	CITATIONS
544	Temperature dependence of the relaxation time in scattering of elementary excitations in graphene. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114933.	3.5	0
545	A Critical Review of Graphene Quantum Dots: Synthesis and Application in Biosensors. Nano, 2021, 16, 2130001.	1.0	11
546	Graphene field-effect transistors as bioanalytical sensors: design, operation and performance. Analyst, The, 2021, 146, 403-428.	3.5	101
547	Composite membrane of sulfonated polybenzimidazole and sulfonated graphene oxide for potential application in microbial fuel cell. Journal of Environmental Chemical Engineering, 2021, 9, 104945.	6.7	31
548	Reprintable Polymers for Digital Light Processing 3D Printing. Advanced Functional Materials, 2021, 31, 2007173.	14.9	38
549	Effect of nanoparticles on the mechanical properties of kenaf fiber-reinforced bio-based epoxy resin. Textile Reseach Journal, 2021, 91, 1313-1325.	2.2	10
550	A review on graphene-based electrochemical sensor for mycotoxins detection. Food and Chemical Toxicology, 2021, 148, 111931.	3.6	69
551	Development of a graphene oxide-poly lactide nanocomposite as a Smart Drug Delivery System. International Journal of Biological Macromolecules, 2021, 169, 521-531.	7.5	42
552	Organic solar cells: Current perspectives on grapheneâ€based materials for electrodes, electron acceptors and interfacial layers. International Journal of Energy Research, 2021, 45, 6518-6549.	4.5	22
553	Role of nanomaterials and surfactants for the preparation of graphene nanofluid: A review. Materials Today: Proceedings, 2021, 44, 1136-1143.	1.8	11
554	High-performance fluoroelastomer-graphene nanocomposites for advanced sealing applications. Composites Science and Technology, 2021, 202, 108592.	7.8	18
555	Self-diagnostic carbon nanocomposites manufactured from industrial epoxy masterbatches. Composite Structures, 2021, 259, 113244.	5.8	13
556	In situ TPU/graphene nanocomposites: Correlation between filler aspect ratio and phase morphology. Polymer Engineering and Science, 2021, 61, 1018-1027.	3.1	8
557	Theoretical investigation of electronic and optical properties of 2D transition metal dichalcogenides MoX2 (XÂ=ÂS, Se, Te) from first-principles. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114416.	2.7	14
558	Benign species-tuned biomass carbonization to nano-layered graphite for EMI filtering and greener energy storage functions. Renewable Energy, 2021, 164, 1039-1051.	8.9	12
559	The effect of graphene oxide on the mechanical, thermal characteristics and flame retardancy of polyurethane. Plastics, Rubber and Composites, 2021, 50, 61-70.	2.0	10
560	Grapheneâ€Based Biomaterials for Bone Regenerative Engineering: A Comprehensive Review of the Field and Considerations Regarding Biocompatibility and Biodegradation. Advanced Healthcare Materials, 2021, 10, e2001414.	7.6	50
561	Fe3O4 nano assembly embedded in 2D-crumpled porous carbon sheets for high energy density supercapacitor. Chemical Engineering Journal, 2021, 420, 127584.	12.7	34

		15	<b>C</b>
#	ARTICLE	IF	CITATIONS
562	catalyst with superior stability. International Journal of Energy Research, 2021, 45, 1587-1598.	4.5	16
563	Environmental Remediation Through Carbon Based Nano Composites. Green Energy and Technology, 2021, , .	0.6	10
564	The preparation and performance of a polyaniline/graphene composite coated fabric. Journal of the Textile Institute, 2021, 112, 1258-1265.	1.9	7
565	Effect of graphene filler structure on electrical, thermal, mechanical, and fire retardant properties of epoxy-graphene nanocomposites - a review. Critical Reviews in Solid State and Materials Sciences, 2021, 46, 152-187.	12.3	44
566	EpoxyEpoxy CompositeEpoxy Hybrid Composite Coatings for Tribological Applications—A Review. Polymers, 2021, 13, 179.	4.5	35
567	Tuning the intrinsic catalytic activities of oxygen-evolution catalysts by doping: a comprehensive review. Journal of Materials Chemistry A, 2021, 9, 20131-20163.	10.3	110
568	2D nanosheet enabled thin film nanocomposite membranes for freshwater production – a review. Materials Advances, 2021, 2, 3519-3537.	5.4	11
569	A review on polymeric materials in additive manufacturing. Materials Today: Proceedings, 2021, 46, 1349-1365.	1.8	38
570	Nanomaterial development and its applications for emerging pollutant removal in water. , 2021, , 67-97.		12
571	Electronic and thermal transport in novel carbon-based bilayer with tetragonal rings: a combined study using first-principles and machine learning approach. Physical Chemistry Chemical Physics, 2021, 23, 14608-14616.	2.8	19
572	Me-graphane: tailoring the structural and electronic properties of Me-graphene <i>via</i> hydrogenation. Physical Chemistry Chemical Physics, 2021, 23, 9483-9491.	2.8	9
573	Graphene-based materials: the key for the successful application of pHEMA as a blood-contacting device. Biomaterials Science, 2021, 9, 3362-3377.	5.4	14
574	An efficient graphene oxide reinforced aluminum phosphate/Cr2O3 double coating as an enhanced tritium permeation barrier. Surface and Coatings Technology, 2021, 405, 126699.	4.8	15
575	Micro- and Nanocellulose in Polymer Composite Materials: A Review. Polymers, 2021, 13, 231.	4.5	192
576	Ultraâ€Robust Flexible Electronics by Laserâ€Driven Polymerâ€Nanomaterials Integration. Advanced Functional Materials, 2021, 31, 2008818.	14.9	49
577	Preparation of rGO@Fe <sub>3</sub> O <sub>4</sub> nanocomposite and its application to enhance the thermal conductivity of epoxy resin. RSC Advances, 2021, 11, 16592-16599.	3.6	15
578	Graphene-functionalized carbon/glass fiber reinforced polymer nanocomposites: fabrication and characterization for manufacturing applications. , 2021, , 57-78.		4
579	Probing the coupling between the components in a graphene–mesoporous germanium nanocomposite using high-pressure Raman spectroscopy. Nanoscale Advances, 2021, 3, 2577-2584.	4.6	2

#	Article	IF	CITATIONS
580	A Literature Review for Development of Advanced Composites Materials by Reinforcement of Epoxy Composites with Graphene and Natural Silk. Lecture Notes in Mechanical Engineering, 2021, , 341-353.	0.4	1
581	4D Printed Cardiac Construct with Aligned Myofibers and Adjustable Curvature for Myocardial Regeneration. ACS Applied Materials & amp; Interfaces, 2021, 13, 12746-12758.	8.0	82
582	Membrane Fouling in Desalination. Advances in Science, Technology and Innovation, 2021, , 39-52.	0.4	1
583	Effect of the number of nitrogen dopants on the electronic and magnetic properties of graphitic and pyridinic N-doped graphene – a density-functional study. RSC Advances, 2021, 11, 18371-18380.	3.6	30
584	Development on graphene based polymer composite materials and their applications—A recent review. AIP Conference Proceedings, 2021, , .	0.4	13
585	Nanocomposites of PEDOT:PSS with Graphene and its Derivatives for Flexible Electronic Applications: A Review. Macromolecular Materials and Engineering, 2021, 306, 2000716.	3.6	62
586	Design of new bioinspired GO-COOH decorated alginate/gelatin hybrid scaffolds with nanofibrous architecture: structural, mechanical and biological investigations. RSC Advances, 2021, 11, 13653-13665.	3.6	14
587	Lithium Iron Phosphate (LiFePO4) as High-Performance Cathode Material for Lithium Ion Batteries. Environmental Chemistry for A Sustainable World, 2021, , 35-73.	0.5	3
588	An extensive analysis of mechanical and tribological studies of Al6061 alloy based hybrid composite reinforced with B4C and Graphene. Materials Today: Proceedings, 2021, 44, 2808-2812.	1.8	4
589	Bandgap evolution in nanographene assemblies. Physical Chemistry Chemical Physics, 2021, 23, 11501-11506.	2.8	1
590	The Influence of Graphene Nano-Sheets Inclusion on the Mechanical and Thermal Characteristics of Acrylonitrile–Butadiene–Styrene Copolymer. SSRN Electronic Journal, 0, , .	0.4	0
591	Efficient Mechanical Stress Transfer in Multilayer Graphene with a Ladder-like Architecture. ACS Applied Materials & Interfaces, 2021, 13, 4473-4484.	8.0	9
592	Lowâ€weight fractions of graphene and hydroxyapatite enhance mechanics in photocured methacrylate adhesives. Journal of Applied Polymer Science, 2021, 138, 50442.	2.6	3
593	Multifunctional 3D Hybrid Nanomaterials for Clean Energy Technologies. , 2021, , 1463-1492.		0
594	Total conversion from graphite to few-layer graphene nanocomposite. Carbon Trends, 2021, 2, 100017.	3.0	5
595	Engineering defects in 2D g-C <sub>3</sub> N <sub>4</sub> for wideband, efficient electromagnetic absorption at elevated temperature. Journal of Materials Chemistry A, 2021, 9, 19710-19718.	10.3	126
596	Ultrasound-assisted process: Applications in reactions, extraction, and surface modifications. , 2021, , 247-272.		2
597	Overview of Electrode Materials Progressed for Application in Electrochemical Supercapacitors: An Update. Asian Journal of Chemistry, 2021, 33, 1039-1050.	0.3	1

#	Article	IF	Citations
598	Review on carbonaceous materials and metal composites in deformable electrodes for flexible lithium-ion batteries. RSC Advances, 2021, 11, 5958-5992.	3.6	14
599	Ultrasensitive Determination of Microcystin-Leucine-Arginine (MCLR) by an Electrochemiluminescence (ECL) Immunosensor with Graphene Nanosheets as a Scaffold for Cadmium-Selenide Quantum Dots (QDs). Analytical Letters, 2021, 54, 2523-2536.	1.8	7
600	Graphene Nanocomposite for Biomedical Applications. , 2021, , 1207-1221.		0
601	Mechanical, Thermal, and Morphological Properties of Graphene Nanoplatelet-Reinforced Polypropylene Nanocomposites: Effects of Nanofiller Thickness. Journal of Composites Science, 2021, 5, 24.	3.0	26
602	Diverse Applications of Graphene-Based Polymer Nanocomposites. , 2021, , 973-1001.		0
603	Deep neural network analysis of nanoparticle ordering to identify defects in layered carbon materials. Chemical Science, 2021, 12, 7428-7441.	7.4	10
604	Mechanical, adhesion and corrosive properties of unsaturated polyester-graphene coating treated with silane coupling agent on metal substrate. AIP Conference Proceedings, 2021, , .	0.4	3
605	Viscoelastic and high strain rate response of anisotropic graphene-polymer nanocomposites fabricated with stereolithographic 3D printing. Additive Manufacturing, 2021, 37, 101721.	3.0	16
606	Preparation and Characterization of Electrically Conductive Polymer Nanocomposites with Different Carbon Nanoparticles. , 0, , .		2
607	Effects of polycarboxylate superplasticizer-modified graphene oxide on hydration characteristics and mechanical behavior of cement. Construction and Building Materials, 2021, 272, 121904.	7.2	35
608	Effects of Doped N, B, P, and S Atoms on Graphene toward Oxygen Evolution Reactions. ACS Omega, 2021, 6, 5368-5378.	3.5	15
609	An experimental investigation on tool wear behaviour of uncoated and coated micro-tools in micro-milling of graphene-reinforced polymer nanocomposites. International Journal of Advanced Manufacturing Technology, 2021, 113, 2003-2015.	3.0	10
610	Edge-Rich Interconnected Graphene Mesh Electrode with High Electrochemical Reactivity Applicable for Glucose Detection. Nanomaterials, 2021, 11, 511.	4.1	3
611	Nanomaterial-sensors for herbicides detection using electrochemical techniques and prospect applications. TrAC - Trends in Analytical Chemistry, 2021, 135, 116178.	11.4	37
612	Graphene oxide–cerium oxide hybrids for enhancement of mechanical properties and corrosion resistance of epoxy coatings. Journal of Materials Science, 2021, 56, 10108-10123.	3.7	41
613	Fire behavior of flame-retardant polyurethane semi-rigid foam in presence of nickel (II) oxide and graphene nanoplatelets additives. Journal of Polymer Research, 2021, 28, 1.	2.4	18
614	Graphene-reinforced polymer matrix composites fabricated by in situ shear exfoliation of graphite in polymer solution: processing, rheology, microstructure, and properties. Nanotechnology, 2021, 32, 175703.	2.6	5
615	Quantification of the mechanical strength of thermally reduced graphene oxide layers on flexible substrates. Engineering Fracture Mechanics, 2021, 243, 107525.	4.3	6

		CITATION R	EPORT	
#	Article		IF	CITATIONS
616	Innovative Approaches to Synthesize Novel Graphene Materials. Current Nanoscience, 2	2021, 17, .	1.2	1
617	Low-Temperature Growth of Graphene on a Semiconductor. Journal of Physical Chemist 4243-4252.	try C, 2021, 125,	3.1	6
618	The Possible Detriment of Oxygen in Creep of Alumina and Zirconia Ceramic Composite with Graphene. Materials, 2021, 14, 984.	s Reinforced	2.9	4
619	Highly Efficient Light Absorption of Monolayer Graphene by Quasi-Bound State in the C Nanomaterials, 2021, 11, 484.	ontinuum.	4.1	47
620	Mechanical Response of Polymer Epoxy/BMI Composites with Graphene and a Boron Ni from First Principles. ACS Applied Polymer Materials, 2021, 3, 1052-1059.	tride Monolayer	4.4	10
621	Single-Step Direct Growth of Graphene on Cu Ink toward Flexible Hybrid Electronic App Plasma-Enhanced Chemical Vapor Deposition. ACS Applied Materials & Interfaces,	lications by 2021, 13, 6951-6959.	8.0	10
622	Large twisting angles in bilayer graphene moir $ ilde{A}$ © quantum dot structures. Physical Rev	view B, 2021, 103, .	3.2	8
623	The Magnetization of a Composite Based on Reduced Graphene Oxide and Polystyrene 2021, 11, 403.	. Nanomaterials,	4.1	4
624	Graphene-Based Composites for Phosphate Removal. ACS Omega, 2021, 6, 4119-4125		3.5	15
625	In situ polymerization of ethylene in the presence of graphene by αâ€diimine Nickel (II) system: Thermal and rheological study. Applied Organometallic Chemistry, 2021, 35, e	/MAO catalyst 5244.	3.5	4
626	Efficient electrophoretic deposition of an intensification process to enhance the mecha properties of glass fibre reinforced polymer. Chemical Engineering and Processing: Proc Intensification, 2021, 160, 108298.	nical ess	3.6	1
627	Printability study of self-supporting graphene oxide-laponite nanocomposites for 3D pri applications. International Journal of Advanced Manufacturing Technology, 2021, 114,	nting 343-355.	3.0	15
628	Graphene Oxide and Reduced Graphene Oxide Exhibit Cardiotoxicity Through the Regul Peroxidation, Oxidative Stress, and Mitochondrial Dysfunction. Frontiers in Cell and Dev Biology, 2021, 9, 616888.	ation of Lipid velopmental	3.7	28
629	Electrodeposited nickel–graphene nanocomposite coating: influence of graphene na wearÂandÂcorrosion resistance. Applied Nanoscience (Switzerland), 2021, 11, 1481-14	noplatelet size on 190.	3.1	10
630	Influences of pressure and thermal environment on nonlinear vibration characteristics of FG-GPLRC toroidal panels on nonlinear elastic foundation. Composite Structures, 2021	of multilayer , 259, 113503.	5.8	15
631	Study of mechanical, electrical and EMI shielding properties of polymer-based nanocom incorporating polyaniline coated graphene nanoparticles. Nano Express, 2021, 2, 0100	posites 38.	2.4	22
632	Unusual Width Dependence of Lattice Thermal Conductivity in Ultranarrow Armchair G Nanoribbons with Unpassivated Edges. Journal of Physical Chemistry C, 2021, 125, 603	raphene 4-6042.	3.1	3
633	Moiré pattern at graphene/Al (111) interface: Experiment and simulation. Materials a 109509.	nd Design, 2021, 201,	7.0	7
#	Article	IF	CITATIONS	
-----	--	------	-----------	
634	Wood plastic composites with improved electrical and thermal conductivity. Wood Science and Technology, 2021, 55, 719-739.	3.2	8	
635	Microstructure and Mechanical Properties of Zinc Matrix Biodegradable Composites Reinforced by Graphene. Frontiers in Bioengineering and Biotechnology, 2021, 9, 635338.	4.1	10	
636	Graphene Transfer: Paving the Road for Applications of Chemical Vapor Deposition Graphene. Small, 2021, 17, e2007600.	10.0	68	
637	Experimental investigation of quasi-static behavior of composite and fiber metal laminate panels modified by graphene nanoplatelets. Journal of Reinforced Plastics and Composites, 2021, 40, 518-532.	3.1	8	
638	Bispyrene Functionalization Drives Self-Assembly of Graphite Nanoplates into Highly Efficient Heat Spreader Foils. ACS Applied Materials & Interfaces, 2021, 13, 15509-15517.	8.0	8	
639	Carbonâ€Based Composite Phase Change Materials for Thermal Energy Storage, Transfer, and Conversion. Advanced Science, 2021, 8, 2001274.	11.2	162	
640	Computational design of shape memory polymer nanocomposites. Polymer, 2021, 217, 123476.	3.8	8	
641	Multiple Machining Performance Optimization in Drilling of MWCNT/Epoxy Nanocomposites Using TOPSIS and Grey Theory. Journal of Advanced Manufacturing Systems, 2021, 20, 249-271.	1.0	2	
642	Efficient natural rubber latex foam coated by rGO modified high density polyethylene for oil-water separation and electromagnetic shielding performance. European Polymer Journal, 2021, 147, 110288.	5.4	7	
643	The correlated effects of polyetheramine-functionalized graphene oxide loading on the curing reaction and the mechanical properties of epoxy composites. High Performance Polymers, 2021, 33, 832-847.	1.8	2	
644	Biomedical Applications of Electrospun Graphene Oxide. ACS Biomaterials Science and Engineering, 2021, 7, 1278-1301.	5.2	30	
645	Graphene Integrated Hydrogels Based Biomaterials in Photothermal Biomedicine. Nanomaterials, 2021, 11, 906.	4.1	34	
646	From scaled-up production of silicon-graphene nanocomposite to the realization of an ultra-stable full-cell Li-ion battery. 2D Materials, 2021, 8, 035014.	4.4	15	
647	Performance of Graphene Derivatives Produced by Chemical and Physical Methods as Reinforcements in Glass Fiber Composite Laminates. Applied Composite Materials, 2021, 28, 923-949.	2.5	3	
648	Timeâ€dependent properties of graphene nanoplatelets reinforced highâ€density polyethylene. Journal of Applied Polymer Science, 2021, 138, 50783.	2.6	8	
649	Comprehensive Enhancement in Thermomechanical Performance of Melt-Extruded PEEK Filaments by Graphene Incorporation. Polymers, 2021, 13, 1425.	4.5	21	
650	Synthesis of Waferâ€Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. Advanced Materials Technologies, 2021, 6, 2000744.	5.8	46	
651	Enhanced ultraviolet absorption in graphene by aluminum and magnesium hole-arrays. Scientific Reports, 2021, 11, 8516.	3.3	10	

#	Article	IF	CITATIONS
652	A theoretical analysis on sensitivity improvement of an SPR refractive index sensor with graphene and barium titanate nanosheets. Optik, 2021, 231, 166378.	2.9	68
653	Understanding the mechanical and viscoelastic properties of graphene reinforced polycarbonate nanocomposites using coarse-grained molecular dynamics simulations. Computational Materials Science, 2021, 191, 110339.	3.0	15
654	Nanomaterials: Applications, waste-handling, environmental toxicities, and future challenges – A review. Journal of Environmental Chemical Engineering, 2021, 9, 105028.	6.7	133
655	Graphene Oxide Chemistry Management via the Use of KMnO4/K2Cr2O7 Oxidizing Agents. Nanomaterials, 2021, 11, 915.	4.1	8
656	A Straightforward Approach to Create Ag/SWCNT Composites. Materials, 2021, 14, 1956.	2.9	1
657	Tailoring adhesion characteristics of poly(L-lactic acid)/graphene nanocomposites by end-grafted polymer chains: An atomic-level study. European Polymer Journal, 2021, 148, 110351.	5.4	3
659	Characterization of PVDF/Graphene Nanocomposite Membranes for Water Desalination with Enhanced Antifungal Activity. Water (Switzerland), 2021, 13, 1279.	2.7	29
660	Electrocatalytic Reduction of Oxygen on Reduced Graphene Oxide/Iron Oxide (rGO/Fe3O4) Composite Electrode. Russian Journal of Physical Chemistry A, 2021, 95, 834-842.	0.6	4
661	Graphene/graphene nanoplatelets reinforced polyamide nanocomposites: A review. High Performance Polymers, 2021, 33, 981-997.	1.8	21
662	Micromechanical modeling over two length-scales for elastic properties of graphene nanoplatelet/graphite fiber/polyimide composites. Materials Chemistry and Physics, 2021, 262, 124255.	4.0	10
663	Effect of interfacial interactions on static and dynamic behavior of hyperbranched polymers: Comparison between different layered nanoadditives. Polymer, 2021, 222, 123646.	3.8	5
664	Effect of interfacial bonding on dislocation strengthening in graphene nanosheet reinforced iron composite: A molecular dynamics study. Computational Materials Science, 2021, 191, 110309.	3.0	11
665	Critical Strain-Induced Photoresponse in Folded Graphene Superlattices. ACS Applied Materials & Interfaces, 2021, 13, 21573-21581.	8.0	5
666	Impact of Polymer Residue Level on the In-Plane Thermal Conductivity of Suspended Large-Area Graphene Sheets. ACS Applied Materials & Interfaces, 2021, 13, 17910-17919.	8.0	7
667	Nanohybrid composed of graphene oxide functionalized with sodium hyaluronate accelerates bone healing in the tibia of rats. Materials Science and Engineering C, 2021, 123, 111961.	7.3	10
668	An Overview on Recent Progress of Metal Oxide/Graphene/CNTs-Based Nanobiosensors. Nanoscale Research Letters, 2021, 16, 65.	5.7	37
669	Interface adjustment between poly(ethylene terephthalate) and graphene oxide in order to enhance mechanical and thermal properties of nanocomposites. Polymer Engineering and Science, 2021, 61, 1997-2011.	3.1	3
670	Biologically prepared copper-graphene nanohybrid as the interface of microchips for sensitive detection of crop viruses. Journal of Materials Research and Technology, 2021, 12, 727-738.	5.8	4

ARTICLE IF CITATIONS Equilibrium and Stability of Anisotropic Hyperelastic Graphene Membranes. Journal of Elasticity, 2021, 671 1.9 17 144, 169-195. Physico-chemical Characterization of PLA-based Composites Holding Carbon Nanofillers. Applied 2.5 Composite Materials, 2021, 28, 1175-1192. A review of graphene reinforced Cu matrix composites for thermal management of smart electronics. 673 7.6 49 Composites Part A: Applied Science and Manufacturing, 2021, 144, 106357. Manufacturing and Characterisation of Polymeric Membranes for Water Treatment and Numerical 674 Investigation of Mechanics of Nanocomposite Membranes. Polymers, 2021, 13, 1661. Doping and Stress Induced Raman Shifts in Pd-Decorated CVD Grown Graphene. ECS Journal of Solid 675 1.8 3 State Science and Technology, 0, , . Application-Driven Carbon Nanotube Functional Materials. ACS Nano, 2021, 15, 7946-7974. 14.6 Perovskite Solar Cells: Current Trends in Grapheneâ€Based Materials for Transparent Conductive Electrodes, Active Layers, Charge Transport Layers, and Encapsulation Layers. Advanced Energy and Sustainability Research, 2021, 2, 2100050. 677 5.8 12 Self-assembled oil palm biomass-derived modified graphene oxide anode: An efficient medium for energy transportation and bioremediating Cd (II) via microbial fuel cells. Arabian Journal of Chemistry, 2021, 14, 103121. Determination of the elastic moduli of CVD graphene by probing graphene/polymer Bragg stacks. 2D 679 4.4 12 Materials, 2021, 8, 035040. Strengthening in Metal/Graphene Composites: Capturing the Transition from Interface to Precipitate 8.0 Hardening. ACS Applied Materials & amp; Interfaces, 2021, 13, 26610-26620. A brief review of the graphene oxide-based polymer nanocomposite coatings: preparation, 681 2.5 20 characterization, and properties. Journal of Coatings Technology Research, 2021, 18, 945-969. Multifunctional epoxy composites modified with a graphene nanoplatelet/carbon nanotube hybrid. Journal of Applied Polymer Science, 2021, 138, 50890. 2.6 Development of advanced composite materials: Defining the fabrication process for hybridization of 683 graphene and natural silk reinforced epoxy composites. IOP Conference Series: Materials Science and 0.6 0 Ĕngineering, 2021, 1149, 012018. Experimental validation of bulk-graphene as a thermoelectric generator. Materials Research Express, 684 1.6 2021, 8, 056302. Anomalous Loss of Stiffness with Increasing Reinforcement in a Photoâ€Activated Nanocomposite. 685 0 3.9 Macromolecular Rapid Communications, 2021, 42, 2100147. Analysis of vibration in rotating pretwisted functionally graded graphene platelets reinforced nanocomposite laminated blades with an attached point mass. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 6690-6710. High-grip and hard-wearing graphene reinforced polyurethane coatings. Composites Part B: 687 12.0 13 Engineering, 2021, 213, 108727. Theoretical Basis of Quantum-Mechanical Modeling of Functional Nanostructures. Symmetry, 2021, 13, 688 2.2 883.

#	Article	IF	Citations
689	Three-Dimensional Conductive Fingerprint Phantoms Made of Ethylene-Vinyl Acetate/Graphene Nanocomposite for Evaluating Smartphone Scanners. ACS Applied Electronic Materials, 2021, 3, 2097-2105.	4.3	4
690	Reviewing the recent developments of using graphene-based nanosized materials in membrane separations. Critical Reviews in Environmental Science and Technology, 2022, 52, 3415-3452.	12.8	17
691	Effect of GNPs Concentration on the Pool Boiling Performance of R-134a on Cu-GNPs Nanocomposite Coatings Prepared by a Two-Step Electrodeposition Method. International Journal of Thermophysics, 2021, 42, 1.	2.1	13
692	Deformation and tearing of graphene-reinforced elastomer nanocomposites. Composites Communications, 2021, 25, 100764.	6.3	5
693	Electrochemical Biosensing of Dopamine Neurotransmitter: A Review. Biosensors, 2021, 11, 179.	4.7	98
694	Evaluating the effective creep properties of graphene-reinforced polymer nanocomposites by a homogenization approach. Composites Science and Technology, 2021, 209, 108791.	7.8	41
695	Recent mechanical processing techniques of two-dimensional layered materials: A review. Journal of Science: Advanced Materials and Devices, 2021, 6, 135-152.	3.1	11
696	Homogeneously Dispersed Graphene Nanoplatelets as Long-Term Corrosion Inhibitors for Aluminum Matrix Composites. ACS Applied Materials & Interfaces, 2021, 13, 32161-32174.	8.0	101
697	Three-Dimensional (3D) Laser-Induced Graphene: Structure, Properties, and Application to Chemical Sensing. ACS Applied Materials & amp; Interfaces, 2021, 13, 30245-30260.	8.0	128
698	Tuning of shear thickening behavior and elastic strength of polyvinylidene fluoride via doping of <scp>ZnOâ€graphene</scp> . Journal of Applied Polymer Science, 2021, 138, 51260.	2.6	8
700	Structure and Properties of Polyoxymethylene/Silver/Maleic Anhydride-Grafted Polyolefin Elastomer Ternary Nanocomposites. Polymers, 2021, 13, 1954.	4.5	4
701	Effects of Graphene Oxidation on Interaction Energy and Interfacial Thermal Conductivity of Polymer Nanocomposite: A Molecular Dynamics Approach. Nanomaterials, 2021, 11, 1709.	4.1	14
702	The effect of adding reduced graphene oxide to electrospun polycaprolactone scaffolds on MG-63 cells activity. Materials Today Communications, 2021, 27, 102287.	1.9	10
703	Modeling of H2O, H2O2, and H2O3 formation mechanisms on graphene oxide (GO) surfaces. Carbon, 2021, 177, 252-259.	10.3	0
704	Detection of SARS-CoV-2 Using Antibody–Antigen Interactions with Graphene-Based Nanomechanical Resonator Sensors. ACS Applied Nano Materials, 2021, 4, 6189-6200.	5.0	21
705	Effect of Nanoparticle Size on the Mechanical Strength of Ni–Graphene Composites. Materials, 2021, 14, 3087.	2.9	8
706	Probing matrix/filler interphase with ultrasonic waves. Journal of Materials Science, 2021, 56, 14047-14069.	3.7	1
707	Bulk Production of Any Ratio <sup>12</sup> C: <sup>13</sup> C Turbostratic Flash Graphene and Its Unusual Spectroscopic Characteristics. ACS Nano, 2021, 15, 10542-10552.	14.6	17

ARTICLE IF CITATIONS # Electronic Structure and Transport in Graphene Nanoribbon Heterojunctions under Uniaxial Strain: 708 5.0 6 Implications for Flexible Electronics. ACS Applied Nano Materials, 2021, 4, 5816-5824. Quantitative Detection of Trace Copper by Using Graphene Oxide and X-Ray Fluorescence Spectroscopy. 1.0 Nano, 2021, 16, 2150066. The relations between wear behavior and basic material properties of grapheneâ€based materials reinforced ultrahigh molecular weight polyethylene. Polymers for Advanced Technologies, 2021, 32, 710 3.2 8 4263-4281. PFA nanocomposites: the influence of three carbon nanofillers on the mechanical and 2.4 electromagnetic properties. Journal of Polymer Research, 2021, 28, 1. Impact of hybrid nanofillers on the structure and property of polypropylene/polystyrene composites 712 3.2 2 based on elongation flow. Polymers for Advanced Technologies, 2021, 32, 4340-4351. Self-feeding formation of atomically thin molybdenum nanoflakes on MoS<sub>2</sub> monolayer. 4.4 2D Materials, 2021, 8, 035054. 714 Mechanical properties of graphene. Applied Physics Reviews, 2021, 8, . 11.3 37 Homogenization of the Mooney-Rivlin coefficients of graphene-based soft sandwich nanocomposites. Mechanics of Soft Materials, 2021, 3, 1. Improved dynamical response of functionally graded GPL-reinforced sandwich beams subjected to 716 7 6.1 external excitation via nonlinear dispersion pattern. Engineering With Computers, 2022, 38, 3011-3023. Investigation of the Morphological, Structural, and Vibrational Behaviour of Graphite Nanoplatelets. 2.7 Journal of Nanomaterials, 2021, 2021, 1-8. Synergistically optimizing interlaminar behavior of CFRP composites by simultaneously applying amino-rich graphene oxide to carbon fiber and epoxy matrix. Composites Part A: Applied Science and 719 42 7.6 Manufacturing, 2021, 145, 106372. High performance of polysulfone/graphene oxide-silver nanocomposites with excellent antibacterial capability for medical applications. Materials Today Communications, 2021, 27, 102297. Morphology and Chemical Purity of Water Suspension of Graphene Oxide FLAKES Aged for 14 Months 721 2.9 8 in Ambient Conditions. A Preliminary Study. Materials, 2021, 14, 4108. Modeling of structure and interface controlled strength of laminated metal/graphene composites. 3.2 14 Mechanics of Materials, 2021, 158, 103888. Hollow Graphene as an Expansion-Inhibiting Electrical Interconnector for Silicon Electrodes in 723 8.0 8 Lithium-Ion Batteries. ACS Applied Materials & amp; Interfaces, 2021, 13, 35759-35766. Factors affecting the biological response of Graphene. Colloids and Surfaces B: Biointerfaces, 2021, 724 203, 111767. Ultrasensitive Immunosensor Based on Langmuir–Blodgett Deposited Ordered Graphene Assemblies 725 3.57 for Dengue Detection. Langmuir, 2021, 37, 8705-8713. Effects of GNP on the mechanical properties and sliding wear of WC-10wt%Co cemented carbide. 4.8 Ceramics International, 2021, 47, 18020-18029.

#	ARTICLE Biofilm inhibition and bactericidal activity of NiTi alloy coated with graphene oxide/silver	IF 33	CITATIONS
728	nanoparticles via electrophoretic deposition. Scientific Reports, 2021, 11, 14008. Free vibration of rotating graphene-reinforced laminated composite conical shells. Composites Part C: Open Access, 2021, 5, 100153.	3.2	4
729	Improving Physical Properties of Polypropylene Nanocomposites by a Natural Resource-Based Bottom-up Graphene Oxide Filler. Macromolecular Research, 2021, 29, 487-493.	2.4	5
730	Fabrication of a novel latex-based membrane for oily wastewater filtration: effect of degassing on the properties of membrane. Iranian Polymer Journal (English Edition), 2021, 30, 989-1000.	2.4	9
731	Performance evaluation of graphene oxide–MnO <sub>2</sub> nanocomposite for alkaline membrane fuel cell. Electrochemical Science Advances, 2022, 2, e2100085.	2.8	2
732	3-D elasticity numerical solution for magneto-hygrothermal bending of FG graphene/metal circular and annular plates on an elastic medium. European Journal of Mechanics, A/Solids, 2021, 88, 104265.	3.7	18
733	Fe3O4/Graphene Composite Anode Material for Fast-Charging Li-Ion Batteries. Molecules, 2021, 26, 4316.	3.8	11
734	Microwave-assisted rapid synthesis of honeycomb core-ZnO tetrapods nanocomposites for excellent photocatalytic activity against different organic dyes. Applied Surface Science, 2021, 555, 149663.	6.1	28
735	Nanocellulose Coupled 2D Graphene Nanostructures: Emerging Paradigm for Sustainable Functional Applications. Industrial & Engineering Chemistry Research, 2021, 60, 10882-10916.	3.7	25
736	Processing and properties of graphene-enhanced glass fibre composites using a scalable manufacturing process. Composite Structures, 2021, 267, 113874.	5.8	3
737	The use of the Gurtin-Murdoch theory for modeling mechanical processes in composites with two-dimensional reinforcements. Composites Science and Technology, 2021, 210, 108751.	7.8	14
738	Graphene Oxide Coating Improves the Mechanical and Biological Properties of Decellularized Umbilical Cord Arteries. ACS Applied Materials & Interfaces, 2021, 13, 32662-32672.	8.0	10
739	Fabrication of graphene/copper nanocomposites via in-situ delamination of graphite in copper by accumulative roll-compositing. Composites Part B: Engineering, 2021, 216, 108850.	12.0	31
740	Effect of Tensile Strain on Performance Parameters of Different Structures of MoS2ÂMonolayer. Silicon, 2022, 14, 4935-4943.	3.3	2
741	Application of graphene in <scp>lowâ€ŧemperature</scp> fuel cell technology: An overview. International Journal of Energy Research, 2021, 45, 18318-18336.	4.5	10
742	Sensing Organophosphorus Compounds with SWCNT Films. Sensors, 2021, 21, 4915.	3.8	1
743	Understanding the Reinforcement of Graphene in Poly(Ether Ether Ketone)/Carbon Fibre Laminates. Polymers, 2021, 13, 2440.	4.5	1
744	Dispersion <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:msub> <mml:mi>C</mml:mi> <mml:mn>3 coefficients for physisorption of heavy ions and atoms with graphene and carbon nanotubes. Physical Review A. 2021, 104.</mml:mn></mml:msub></mml:math 	> 2.5	syb>

#	Article	IF	CITATIONS
745	Enhancing thermal dimensional stability of polyimide composite films through in-situ constructing highly interfacial grafting degree to constrain early chain relaxation. Composites Part B: Engineering, 2021, 216, 108829.	12.0	10
746	石墨烯增强空å;ƒå¾®ç,¹é˜µææ–™çš"制å <b>¤</b> 与表徕 Journal of Shanghai Jiaotong University (Science), 2	028928, 1	19 <b>2</b> -196.
747	ZnO/graphene heterostructure nanohybrids for optoelectronics and sensors. Journal of Applied Physics, 2021, 130, .	2.5	12
748	Tuning Mechanical and Electrical Properties of Elastomer Composites with Hybrid Filler Network Containing Graphene for Stretchable Strain Sensors. Advanced Engineering Materials, 2022, 24, 2100703.	3.5	8
749	Edgeâ€Rich Reduced Graphene Oxide Embedded in Silicaâ€Based Laminated Ceramic Composites for Efficient and Robust Electrocatalytic Hydrogen Evolution. Small Methods, 2021, 5, e2100621.	8.6	5
750	Evaluating the thermal conductivity coefficient of polypropylene/graphene nanocomposites: A hierarchical investigation. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 2762-2770.	1.1	3
751	Improving the electrochemical performance of flexible carbon nanotubes based supercapacitors by depositing Ni@TiO2:W nanoparticles on their anodes. Journal of Physics and Chemistry of Solids, 2021, 155, 110128.	4.0	11
752	Recovery of thermal transport in atomic-layer-deposition-healed defective graphene. Carbon, 2021, 180, 77-84.	10.3	2
753	Graphene oxide synthesis using a top–down approach and discrete characterization techniques: a holistic review. Carbon Letters, 2022, 32, 1-38.	5.9	14
754	Interfacial behavior of graphene carboxylâ€grafted carbon fiber reinforced polymer composites at elevated temperatures: Emphasis on the effect of electrophoretic deposition time. Polymer Composites, 2021, 42, 5893-5903.	4.6	14
755	Sparse machine learning assisted deep computational insights on the mechanical properties of graphene with intrinsic defects and doping. Journal of Physics and Chemistry of Solids, 2021, 155, 110111.	4.0	31
756	Investigating mechanical properties and thermal conductivity of 2D carbon-based materials by computational experiments. Computational Materials Science, 2021, 196, 110493.	3.0	13
757	Optical spectroscopy, thermal analysis, and dynamic mechanical properties of graphene nano-platelets reinforced polyvinylchloride. Journal of Materials Science: Materials in Electronics, 2021, 32, 22699-22717.	2.2	25
758	Dehydration of polymer chains initiates graphene folding in water. Carbon, 2021, 180, 244-253.	10.3	5
759	Insight into ultra-refined grains of aluminum matrix composites via deformation-driven metallurgy. Composites Communications, 2021, 26, 100776.	6.3	94
760	Effective EMI shielding behaviour of thin graphene/PMMA nanolaminates in the THz range. Nature Communications, 2021, 12, 4655.	12.8	84
761	A review of grapheneâ€TiO <sub>2</sub> and grapheneâ€ZnO nanocomposite photocatalysts for wastewater treatment. Water Environment Research, 2021, 93, 2414-2460.	2.7	35
762	A Review on the Production Methods and Applications of Graphene-Based Materials. Nanomaterials, 2021, 11, 2414.	4.1	34

#	Article	IF	CITATIONS
763	Recent progress in acoustic materials and noise control strategies – A review. Applied Materials Today, 2021, 24, 101141.	4.3	40
764	Progress in sensory devices of pesticides, pathogens, coronavirus, and chemical additives and hazards in food assessment: Food safety concerns. Progress in Materials Science, 2022, 124, 100866.	32.8	44
765	Rheology, dispersion, and cure kinetics of epoxy filled with amine―and nonâ€functionalized reduced graphene oxide for composite manufacturing. Journal of Applied Polymer Science, 2022, 139, .	2.6	11
766	Enhancement of Structural Stability of Graphene Aerogel for Thermal Energy Harvesting. ACS Applied Energy Materials, 2021, 4, 11666-11674.	5.1	26
767	Advanced Carbon Materials for Sustainable and Emerging Applications. , 0, , .		2
768	Enhanced Conductivity and Flexibility in Reduced Graphene Oxide Paper by Combined Chemical-Thermal Reduction. Journal of Electronic Materials, 2021, 50, 6991.	2.2	2
769	DNA Studies: Latest Spectroscopic and Structural Approaches. Micromachines, 2021, 12, 1094.	2.9	1
770	Ozark Graphene Nanopore for Efficient Water Desalination. Journal of Physical Chemistry B, 2021, 125, 11256-11263.	2.6	26
771	Recent advances in development of nanostructured photodetectors from ultraviolet to infrared region: A review. Chemosphere, 2021, 279, 130473.	8.2	77
772	Effect of graphene nanoplatelets on the mechanical and gas barrier properties of woven carbon fibre/epoxy composites. Journal of Materials Science, 2021, 56, 19538-19551.	3.7	17
773	Adsorption performance of reduced graphene-oxide/cellulose nano-crystal hybrid aerogels reinforced with waste-paper extracted cellulose-fibers for the removal of toluene pollution. Materials Today Communications, 2021, 28, 102610.	1.9	9
774	The strategy of repairing defective graphene by graphene patch via interlayer cross-linking. Computational Materials Science, 2021, 197, 110645.	3.0	1
775	Polyelectrolyte-Assisted Dispersions of Reduced Graphite Oxide Nanoplates in Water and Their Gas-Barrier Application. ACS Applied Materials & amp; Interfaces, 2021, 13, 43301-43313.	8.0	7
776	Sustainable Development of Carbon Nanocomposites: Synthesis and Classification for Environmental Remediation. Journal of Nanomaterials, 2021, 2021, 1-21.	2.7	43
777	Converging 2D Nanomaterials and 3D Bioprinting Technology: Stateâ€ofâ€ŧheâ€Art, Challenges, and Potential Outlook in Biomedical Applications. Advanced Healthcare Materials, 2021, 10, e2101439.	7.6	9
778	Improved Thermal Signature of Composite Beams with GNP Smart Skin for Defect Investigation. Journal of Nondestructive Evaluation, 2021, 40, 1.	2.4	2
779	Recent Advances in Chitin and Chitosan/Graphene-Based Bio-Nanocomposites for Energetic Applications. Polymers, 2021, 13, 3266.	4.5	19
780	The Effect of Annealing Process on Some Physical Properties of GaN Thin Films with Gr Doping. ECS Journal of Solid State Science and Technology, 0, , .	1.8	0

#	Article	IF	CITATIONS
781	Tribological performance of aluminium hybrid self-lubricating composites reinforced with green synthesized graphene. Materials Research Express, 2021, 8, 096530.	1.6	3
782	Graphene Oxide Synthesis, Properties and Characterization Techniques: A Comprehensive Review. ChemEngineering, 2021, 5, 64.	2.4	33
783	Frank-van der Merwe growth in bilayer graphene. Matter, 2021, 4, 3339-3353.	10.0	20
784	Tungsten disulfide nanoparticle-containing PCL and PLGA-coated bioactive glass composite scaffolds for bone tissue engineering applications. Journal of Materials Science, 2021, 56, 18650-18667.	3.7	13
785	Mechanical anisotropy of graphene nanocomposites induced by graphene alignment during stereolithography 3D printing. Journal of Materials Research, 2021, 36, 4262-4274.	2.6	14
786	Carbon nanomaterials-based polymer-matrix nanocomposites for antimicrobial applications: A review. Carbon, 2021, 182, 463-483.	10.3	28
787	Graphene and graphene oxide for bio-sensing: General properties and the effects of graphene ripples. Acta Biomaterialia, 2021, 131, 62-79.	8.3	90
788	Plastic deformation and fracture processes in metal/graphene composites: a review. Critical Reviews in Solid State and Materials Sciences, 2022, 47, 708-735.	12.3	7
789	Dimethyl carbonate production via transesterification reaction using nitrogen functionalized graphene oxide nanosheets. Renewable Energy, 2021, 175, 1-13.	8.9	19
790	Ambient energy dispersion and long-term stabilisation of large graphene sheets from graphite using a surface energy matched ionic liquidâ€. Journal of Ionic Liquids, 2021, 1, 100001.	2.7	6
791	An experimental investigation on the effect of incorporating graphene nanoplatelets on the low-velocity impact behavior of fiber metal laminates. Thin-Walled Structures, 2021, 167, 108162.	5.3	23
792	Reinforcing natural rubber by amphiphilic graphene oxide for high-performance catheters. Polymer, 2021, 232, 124142.	3.8	7
793	Thermal performance of nanomaterial in solar collector: State-of-play for graphene. Journal of Energy Storage, 2021, 42, 103022.	8.1	13
794	Polyamide 66 fibers synergistically reinforced with functionalized graphene and multi-walled carbon nanotubes. Materials Chemistry and Physics, 2021, 271, 124898.	4.0	7
795	Selective electrochemical H2O2 generation on the graphene aerogel for efficient electro-Fenton degradation of ciprofloxacin. Separation and Purification Technology, 2021, 272, 118884.	7.9	38
796	Synthesis dielectric and mechanical properties of paddy straw derived graphene quantum dots-stone waste nanocomposite. Materials Letters, 2021, 301, 130323.	2.6	16
797	New perspectives 2Ds to 3Ds MXenes and graphene functionalized systems as high performance energy storage materials. Journal of Energy Storage, 2021, 42, 102993.	8.1	10
798	In situ observation of metal ion interactions with graphene oxide layers: From the growth of metal hydroxide to metal oxide formation. Carbon, 2021, 184, 721-727.	10.3	14

#	Article	IF	CITATIONS
799	The design and 3D simulation of a new high-speed half adder based on graphene resonators. Optics and Laser Technology, 2021, 142, 107280.	4.6	12
800	Enhanced Hall-Petch strengthening in graphene/Cu nanocomposites. Journal of Materials Science and Technology, 2021, 87, 176-183.	10.7	28
801	A nonlinear molecular mechanics model for graphene subjected to large in-plane deformations. International Journal of Engineering Science, 2021, 167, 103527.	5.0	20
802	Fabrication of High Dielectric Materials Through Selective Insertion of Functionalized Reduced Graphene Oxide on Hard Segment of Thermoplastic Polyurethane. Journal of Nanoscience and Nanotechnology, 2021, 21, 5569-5582.	0.9	0
803	Excited state absorption induced optical limiting action of MoS2-rGO nanocomposites. Journal of Molecular Liquids, 2021, 341, 117337.	4.9	7
804	Mechanical properties of graphene, defective graphene, multilayer graphene and SiC-graphene composites: A molecular dynamics study. Physica B: Condensed Matter, 2021, 620, 413250.	2.7	20
805	Multifunctional epoxy nanocomposites reinforced by two-dimensional materials: A review. Carbon, 2021, 185, 57-81.	10.3	88
806	The influence of graphene specific surface on material properties of MOC-based composites for construction use. Journal of Building Engineering, 2021, 43, 103193.	3.4	1
807	Graphene nanosheet as a new particle dispersant for the jet-electrodeposition of high-performance Ni-P-WC composite coatings. Surface and Coatings Technology, 2021, 425, 127740.	4.8	15
808	One-pot wet chemical synthesis of reduced graphene oxide-zinc oxide nanocomposites for fast and selective ammonia sensing at room temperature. Sensors and Actuators A: Physical, 2021, 331, 112965.	4.1	22
809	Graphene-based membrane techniques for heavy metal removal: A critical review. Environmental Technology and Innovation, 2021, 24, 101863.	6.1	33
810	Photocatalytic degradation of ethylene in cold storage using the nanocomposite photocatalyst MIL101(Fe)-TiO2-rGO. Chemical Engineering Journal, 2021, 424, 130407.	12.7	25
811	Hierarchical nickel-based metal-organic framework/graphene oxide incorporated graphene nanoplatelet electrode with exceptional cycling stability for coin cell and pouch cell supercapacitors. Journal of Energy Storage, 2021, 43, 103304.	8.1	24
812	Incorporation of graphene nano platelets in suspension plasma sprayed alumina coatings for improved tribological properties. Applied Surface Science, 2021, 570, 151227.	6.1	23
813	Impact of TiO2/Graphene-Oxide coated on quartz crystal resonator on the sensing performance of NH3, N2 and ethanol at room temperature. Physica B: Condensed Matter, 2021, 623, 413348.	2.7	6
814	Preparation of 2D Graphene/MXene nanocomposite for the electrochemical determination of hazardous bisphenol A in plastic products. Chemosphere, 2022, 287, 132106.	8.2	39
815	Ï€-Ï€ Stacked step-scheme PDI/g-C3N4/TiO2@Ti3C2 photocatalyst with enhanced visible photocatalytic degradation towards atrazine via peroxymonosulfate activation. Chemical Engineering Journal, 2022, 427, 131809.	12.7	108
816	The use of polymer-graphene composites in fuel cell and solar energy. , 2022, , 425-505.		1

#	Article	IF	CITATIONS
817	Graphene as a reinforcement in thermoset resins. , 2022, , 317-341.	·	0
818	Nonequilibrium nonclassical phenomena in regions with membrane boundaries. Physics of Fluids, 2021, 33, .	4.0	5
819	Near-UV light assisted green reduction of graphene oxide films through l-ascorbic acid. International Journal of Smart and Nano Materials, 2021, 12, 20-35.	4.2	6
820	Thermal and viscoelastic behaviour of graphene nanoplatelets/flax fibre/epoxy composites. Plastics, Rubber and Composites, 2021, 50, 219-227.	2.0	8
821	Graphene and water-based elastomer nanocomposites – a review. Nanoscale, 2021, 13, 9505-9540.	5.6	10
822	Recent developments in the photodetector applications of Schottky diodes based on 2D materials. Journal of Materials Chemistry C, 0, , .	5.5	72
823	Synthesis of holey graphene for advanced nanotechnological applications. RSC Advances, 2021, 11, 27381-27405.	3.6	20
824	Effect of TiC Nanoparticles Reinforcement in Coir Fiber Based Bio/Synthetic Epoxy Hybrid Composites: Mechanical and Thermal Characteristics. Journal of Polymers and the Environment, 2021, 29, 2609-2627.	5.0	34
825	Polymer Nanocomposites for Advanced Automobile Applications. , 2021, , 1353-1387.		0
826	Functionalized graphene-based nanocomposites for smart optoelectronic applications. Nanotechnology Reviews, 2021, 10, 605-635.	5.8	28
828	Comparative Study on Tribological Behavior of Graphene/Polyimide and Carbon Fibers/Polyimide Composites: A Review. World Journal of Engineering and Technology, 2021, 09, 26-50.	0.5	3
829	First-principles investigation of electronic, mechanical and thermoelectric properties of graphene-like XBi (X = Si, Ge, Sn) monolayers. Physical Chemistry Chemical Physics, 2021, 23, 12471-12478.	2.8	16
830	Mechanics of free-standing inorganic and molecular 2D materials. Nanoscale, 2021, 13, 1443-1484.	5.6	28
831	Novel Corrosion Properties of 2D Nanostructures for Advanced Applications. Materials Horizons, 2021, , 197-209.	0.6	0
832	Structural Quality of Graphene Oxide Nanosheets on the Basis of Defect Ratio: A Raman Study. Lecture Notes in Mechanical Engineering, 2021, , 423-439.	0.4	3
833	Atomically precise graphene nanoribbons: interplay of structural and electronic properties. Chemical Society Reviews, 2021, 50, 6541-6568.	38.1	105
834	The effectiveness of Soxhlet extraction as a simple method for GO rinsing as a precursor of high-quality graphene. Nanoscale Advances, 2021, 3, 5292-5300.	4.6	4
835	Tuning polylactic acid scaffolds for tissue engineering purposes by incorporating graphene oxideâ€chitosan nanoâ€hybrids. Polymers for Advanced Technologies, 2021, 32, 1654-1666.	3.2	18

#	Article	IF	CITATIONS
836	Synthesis and Properties of Graphene and Graphene Oxide-Based Polymer Composites. Carbon Nanostructures, 2019, , 175-201.	0.1	2
837	Characteristics of Graphene/Reduced Graphene Oxide. Springer Series in Materials Science, 2020, , 155-177.	0.6	28
838	Recent Innovation on Synthesis Methods of Graphene-Based Composites. Lecture Notes in Mechanical Engineering, 2020, , 11-30.	0.4	1
839	Impact of Armor-Perforating Projectile on a Bullet-Resistant Silicon-Carbide-Graphene Composite Through Finite Element Method. Lecture Notes in Mechanical Engineering, 2021, , 3-18.	0.4	8
840	Active composites based on shape memory polymers: overview, fabrication methods, applications, and future prospects. Journal of Materials Science, 2020, 55, 10975-11051.	3.7	53
841	An "all-in-one―scaffold targeting macrophages to direct endogenous bone repair in situ. Acta Biomaterialia, 2020, 111, 153-169.	8.3	11
842	Interfacial engineering by non-toxic graphene-based nanoribbons for improved performance of planar Sb2S3 solar cells. Applied Surface Science, 2020, 526, 146705.	6.1	17
843	Super Carbonaceous Graphene-based structure as a gas separation membrane: A Non-Equilibrium Molecular Dynamics Investigation. Composites Part B: Engineering, 2020, 196, 108140.	12.0	9
844	Graphene and graphene oxide as new class of materials for corrosion control and protection: Present status and future scenario. Progress in Organic Coatings, 2020, 147, 105741.	3.9	92
845	Transient absorption spectroscopy as a promising optical tool for the quality evaluation of graphene layers deposited by microwave plasma. Surface and Coatings Technology, 2020, 395, 125887.	4.8	7
846	Performance of a Novel 3D Graphene–WS <sub>2</sub> Hybrid Structure for Sodium-Ion Batteries. Journal of Physical Chemistry C, 2020, 124, 3536-3541.	3.1	6
847	Silicon Few-Layer Graphene Nanocomposite as High-Capacity and High-Rate Anode in Lithium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 1793-1802.	5.1	26
848	An electrochemical DNA biosensor fabricated from graphene decorated with graphitic nanospheres. Nanotechnology, 2020, 31, 485501.	2.6	21
849	Biaxial strain engineering of CVD and exfoliated single- and bi-layer MoS <sub>2</sub> crystals. 2D Materials, 2021, 8, 015023.	4.4	26
850	Prediction of wear properties of graphene-Si <sub>3</sub> N <sub>4</sub> reinforced titanium hybrid composites by artificial neural network. Materials Research Express, 2020, 7, 086511.	1.6	9
851	Ultrasensitive Non-Enzymatic Glucose Sensors Based on Hybrid Reduced Graphene Oxide and Carbonized Silk Fabric Electrodes Decorated with Cu Nanoflowers. Journal of the Electrochemical Society, 2020, 167, 127501.	2.9	10
852	Progress in Graphene Synthesis and its Application: History, Challenge and the Future Outlook for Research and Industry. ECS Journal of Solid State Science and Technology, 2020, 9, 093013.	1.8	65
853	A Review on the Contemporary Development of Composite Materials Comprising Graphene/Graphene Derivatives. Advances in Materials Science and Engineering, 2020, 2020, 1-16.	1.8	11

#	Article	IF	CITATIONS
854	Physico-chemical characterization of hybridized graphene and boron-nitride layers. Mediterranean Journal of Chemistry, 2018, 7, 223-233.	0.7	1
855	Graphene-incorporated plasmo-thermomechanical infrared radiation detection. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 774.	2.1	2
856	Synthesis of graphene: Potential carbon precursors and approaches. Nanotechnology Reviews, 2020, 9, 1284-1314.	5.8	72
857	MECHANICAL PROPERTIES OF CEMENT MORTAR WITH GRAPHENE OXIDE. Architecture Civil Engineering Environment, 2019, 12, 91-96.	0.6	5
858	Graphene and Graphene-Based Materials in Biomedical Applications. Current Medicinal Chemistry, 2019, 26, 6834-6850.	2.4	22
859	Mechanical Characterization of Graphene Nanoplatelets-Reinforced Mg-3Sn Alloy Synthesized by Powder Metallurgy. Metals, 2021, 11, 62.	2.3	6
860	Ultrasensitive Materials for Electrochemical Biosensor Labels. Sensors, 2021, 21, 89.	3.8	24
861	A Study of the Correlation between the Oxidation Degree and Thickness of Graphene Oxides. SSRN Electronic Journal, 0, , .	0.4	0
862	Conductive two-dimensional M <sub>3</sub> (C <sub>6</sub> S <sub>3</sub> O <sub>3</sub> ) <sub>2</sub> monolayers as effective electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2021, 9, 24887-24894.	10.3	20
863	Lightweight and flexible silicone rubber foam with dopamine grafted multi-walled carbon nanotubes and silver nanoparticles using supercritical foaming technology: Its preparation and electromagnetic interference shielding performance. European Polymer Journal, 2021, 161, 110839.	5.4	19
864	Graphene Oxide of Extra High Oxidation: A Wafer for Loading Guest Molecules. Journal of Physical Chemistry Letters, 2021, 12, 10015-10024.	4.6	4
865	Largeâ€Scale Syntheses of 2D Materials: Flash Joule Heating and Other Methods. Advanced Materials, 2022, 34, e2106970.	21.0	66
866	A review on synthetic strategies and gas sensing approach for polypyrroleâ€based hybrid nanocomposites. Polymer Engineering and Science, 2021, 61, 2949-2973.	3.1	6
867	Sensing Methods for Hazardous Phenolic Compounds Based on Graphene and Conducting Polymers-Based Materials. Chemosensors, 2021, 9, 291.	3.6	13
868	A Review of Available Theories and Methodologies for the Analysis of Nano Isotropic, Nano Functionally Graded, and CNT Reinforced Nanocomposite Structures. Archives of Computational Methods in Engineering, 2022, 29, 2237-2270.	10.2	32
869	Ultrasound-induced exfoliation of graphene in 1,4-butanediol diglycidyl ether monomer: a promising free-solvent route to epoxy-based nanocomposites. Graphene and 2D Materials Technologies, 2021, 6, 49.	1.3	0
870	Novel Synthetic Approach to Heteroatom Doped Polycyclic Aromatic Hydrocarbons: Optimizing the Bottom-Up Approach to Atomically Precise Doped Nanographenes. Molecules, 2021, 26, 6306.	3.8	11
871	Graphene nanoplatelets/epoxy nanocomposites: A review on functionalization, characterization techniques, properties, and applications. Journal of Reinforced Plastics and Composites, 2022, 41, 99-129.	3.1	31

			<b>6</b>
#	ARTICLE	IF	CITATIONS
872	062003.	2.6	0
873	Leading strategies and research advances for the restoration of graphite from expired Li+ energy storage devices. Journal of Environmental Chemical Engineering, 2021, 9, 106455.	6.7	13
874	Niobium pentoxide nanoparticles decorated graphene as electrode material in aqueous-based supercapacitors: Accurate determination of the working voltage window and the analysis of the distributed capacitance in the time domain. Journal of Energy Storage, 2021, 44, 103371.	8.1	16
875	Recent progress on adsorption and membrane separation for organic contaminants on multi-dimensional graphene. Materials Today Chemistry, 2021, 22, 100603.	3.5	7
876	Pell-Shear-Exfoliation of few-layer graphene nanoflakes as an electrode in supercapacitors. Innovaciencia, 2018, 6, 1-10.	0.0	0
877	Evaluation on Microstructure and Mechanical Behaviour of Al6061-Al <sub>2</sub> 0 <sub>3</sub> -Gr Hybrid Composites. Open Journal of Composite Materials, 2019, 09, 285-299.	0.8	0
879	Nanotechnology-Based Stem Cell Tissue Engineering with a Focus on Regeneration of Cardiovascular Systems. , 2019, , 1-67.		1
880	Polymer Nanocomposites for Advanced Automobile Applications. Advances in Chemical and Materials Engineering Book Series, 2019, , 96-130.	0.3	0
881	INFLUÊNCIA DO TEMPO DE ULTRASSOM NAS DISPERSÕES DE ÓXIDO DE GRAFENO. , 0, , .		0
882	Akä±msä±z Kaplama Yöntemi ile ÜretilmiÅŸ Grafen Takviyeli Gümüş Matrisli Nanokompozitlerin Yapä±sa Özellikline Banyo BileÅŸiminin Etkisi. Uluslararasä± Muhendislik Arastirma Ve Gelistirme Dergisi, 0, , 637-642.	al 0.2	0
883	Effect of green GO/Au nanocomposite on inâ€vitro amplification of human DNA. IET Nanobiotechnology, 2019, 13, 887-890.	3.8	3
884	Structure—Property Co-relation of Graphene/Graphene Derivative Based TPE. Engineering Materials, 2020, , 127-181.	0.6	0
885	Applications of Carbon Nanostructures Produced in Molten Salts. , 2020, , 75-108.		0
886	Modeling the Influence of Structure Morphology on the Physical and Mechanical Properties of Nanocomposites Based on a Polymer Matrix and Graphene Oxide. Mechanics of Solids, 2020, 55, 316-323.	0.7	2
887	Wettability of graphene and its control. Ceramist, 2020, 23, 166-177.	0.1	2
888	An Updated Review on the Properties of Graphene Nano Filled Composites and Their Applications in Dentistry. Bioscience Biotechnology Research Communications, 2020, 13, 365-372.	0.1	2
889	Effect of Nano and Microfillers in Basalt/Epoxy Composites. Lecture Notes in Mechanical Engineering, 2021, , 419-432.	0.4	3
890	Electric field quenching of graphene oxide photoluminescence. Nanotechnology, 2020, 31, 465203.	2.6	1

#	Article	IF	CITATIONS
891	Improvements in the thermomechanical and electrical behavior of hybrid carbon-epoxy nanocomposites. Carbon Trends, 2021, 5, 100126.	3.0	0
892	Review on mechanical and microstructural properties of cementitious composites with graphene oxide. Materials Today: Proceedings, 2022, 50, 2280-2287.	1.8	11
893	The Development of Graphene/Silica Hybrid Composites: A Review for Their Applications and Challenges. Crystals, 2021, 11, 1337.	2.2	9
894	Influence of Graphene and Tungsten Carbide Reinforcement on Tensile and Flexural Strength of Glass Fibre Epoxy Composites. Smart Innovation, Systems and Technologies, 2020, , 379-389.	0.6	1
895	Thermomechanical properties of honeycomb lattices from internal-coordinates potentials: the case of graphene and hexagonal boron nitride. 2D Materials, 2021, 8, 015026.	4.4	7
897	Magnetization and electron spin resonance of a carbon/polymer composite. Journal of Physics: Conference Series, 2020, 1697, 012132.	0.4	0
898	Electrodeposition from a Graphene Bath: A Sustainable Copper Composite Alloy in a Graphene Matrix. Journal of Composites Science, 2021, 5, 9.	3.0	1
899	Graphene Based Biopolymer Nanocomposites in Sensors. Composites Science and Technology, 2021, , 273-286.	0.6	2
900	Advances and future outlook in epoxy/graphene composites for anticorrosive applications. Progress in Organic Coatings, 2022, 162, 106571.	3.9	29
901	Interfacial Friction and Adhesion Between Graphene and Silicon. Springer Theses, 2020, , 67-96.	0.1	0
902	Structure–Property Relationships in Polymer Nanocomposites. , 2021, , 1-27.		1
903	Diverse Applications of Graphene-Based Polymer Nanocomposites. Advances in Mechatronics and Mechanical Engineering, 2020, , 47-82.	1.0	1
904	Defect Dynamics in Graphene. International Journal of Applied Nanotechnology Research, 2020, 5, 26-34.	1.1	0
905	Multifunctional 3D Hybrid Nanomaterials for Clean Energy Technologies. , 2020, , 1-30.		0
907	Twist the doorknob to open the electronic properties of graphene-based van der Waals structure. Matter, 2021, 4, 3444-3482.	10.0	12
908	Roles of CuO and Cu2O in graphene growth on a copper substrate. Applied Surface Science, 2022, 576, 151812.	6.1	12
909	Synthesis of Graphene and fabrication of Aluminium-Grp nanocomposites: A review. Materials Today: Proceedings, 2022, 50, 2436-2442.	1.8	2
910	A review of bipolar plates materials and graphene coating degradation mechanism in proton exchange membrane fuel cell. International Journal of Energy Research, 2022, 46, 3766-3781.	4.5	16

#	Article	IF	CITATIONS
911	Scalably Nanomanufactured Atomically Thin Materialsâ€Based Wearable Health Sensors. Small Structures, 2022, 3, 2100120.	12.0	16
912	Preparation of 3â€pentadecylphenolâ€modified cellulose nanocrystal and its application as a filler to polypropylene nanocomposites having improved antibacterial and mechanical properties. Journal of Applied Polymer Science, 2022, 139, 51848.	2.6	13
913	Structural, electronic, and transport properties of Janus GalnX <sub>2</sub> (X = S, Se, Te) monolayers: first-principles study. Journal of Physics Condensed Matter, 2022, 34, 045501.	1.8	5
914	The Crack Angle of 60° Is the Most Vulnerable Crack Front in Graphene According to MD Simulations. Crystals, 2021, 11, 1355.	2.2	6
916	Potential Applications of Graphene-Based Nanomaterials in Biomedical, Dental, and Implant Applications. , 2021, , 77-105.		7
918	Processing strategies in graphene-derived nanocomposites. , 2022, , 45-66.		0
919	Properties of free-standing graphene oxide/silver nanowires films and effects of chemical reduction and gamma irradiation. Synthetic Metals, 2022, 283, 116980.	3.9	4
920	Graphene-enabled wearable sensors for healthcare monitoring. Biosensors and Bioelectronics, 2022, 197, 113777.	10.1	82
921	Unique g-C3N4/PDI-g-C3N4 homojunction with synergistic piezo-photocatalytic effect for aquatic contaminant control and H2O2 generation under visible light. Applied Catalysis B: Environmental, 2022, 303, 120929.	20.2	155
922	Graphene oxide enriched with oxygen-containing groups: on the way to an increase of antioxidant activity and biocompatibility. Colloids and Surfaces B: Biointerfaces, 2022, 210, 112232.	5.0	18
923	Growing twisted bilayer graphene at small angles. CheM, 2021, 7, 2860-2862.	11.7	0
924	The effect of temperature on the electrical and thermal conductivity of grapheneâ€based polymer composite films. Journal of Applied Polymer Science, 2022, 139, 51896.	2.6	8
925	Graphene-Lined Porous Gelatin Glycidyl Methacrylate Hydrogels: Implications for Tissue Engineering. ACS Applied Nano Materials, 2021, 4, 12650-12662.	5.0	5
926	Invariant percolation properties in some continuum systems. Physical Review B, 2021, 104, .	3.2	6
927	Advances in preparation, mechanism and applications of graphene quantum dots/semiconductor composite photocatalysts: A review. Journal of Hazardous Materials, 2022, 424, 127721.	12.4	72
928	Two-Dimensional Nanomaterials for the Removal of Pharmaceuticals from Wastewater: A Critical Review. Processes, 2021, 9, 2160.	2.8	26
929	An Atomistic-Based Nonlinear Plate Theory for Hexagonal Boron Nitride. Nanomaterials, 2021, 11, 3113.	4.1	7
930	Chemical Vapor Deposition Mechanism of Graphene-Encapsulated Au Nanoparticle Heterostructures and Their Plasmonics. ACS Applied Materials & amp; Interfaces, 2021, 13, 58134-58143.	8.0	Ο

#	Article	IF	CITATIONS
931	In situ microscopy techniques for characterizing the mechanical properties and deformation behavior of two-dimensional (2D) materials. Materials Today, 2021, 51, 247-272.	14.2	22
932	prepared using spark plasma sintering. Journal of the European Ceramic Society, 2022, 42, 1282-1291.	5.7	5
933	Wave propagation and free vibration of FG graphene platelets sandwich curved beam with auxetic core resting on viscoelastic foundation via DQM. Archives of Civil and Mechanical Engineering, 2022, 22, 1.	3.8	26
934	Dimensionally engineered ternary nanocomposite of reduced graphene oxide/multiwalled carbon nanotubes/zirconium oxide for supercapacitors. Journal of Alloys and Compounds, 2022, 896, 163067.	5.5	28
935	Depth Gradient Reduced Graphene Oxide Layer via Intense Pulsed Light Annealing Process for the Flexible Resistive Random Access Memory Device. Advanced Electronic Materials, 2022, 8, 2101018.	5.1	2
936	Flexible and Soft Materials and Devices for Neural Interface. , 2021, , 1-61.		1
937	Exfoliation Routes to the Production of Nanoflakes of Graphene Analogous 2D Materials and Their Applications. Indian Institute of Metals Series, 2022, , 377-443.	0.3	1
938	Patterning Configuration of Surface Hydrophilicity by Graphene Nanosheet towards the Inhibition of Ice Nucleation and Growth. Coatings, 2022, 12, 52.	2.6	1
939	Toward the design of robust multilayer graphene: mechanistic understanding of the role played by interlayer interactions. Journal of Materials Science, 2022, 57, 2514-2527.	3.7	3
940	Self-assembly synthesis of 3D graphene/nano-Fe3O4 hybrid aerogels with improved mechanical and thermal properties. Journal of Alloys and Compounds, 2022, 902, 163718.	5.5	5
941	Hybrid graphene-NiW nanofiber transparent electrodes for all-nanofiber-based pressure sensor. Journal of Materials Science, 2022, 57, 2627-2635.	3.7	3
942	Recent trends in 2D materials and their polymer composites for effectively harnessing mechanical energy. IScience, 2022, 25, 103748.	4.1	19
943	Joule Heating and mechanical properties of epoxy/graphene based aerogel composite. Composites Science and Technology, 2022, 218, 109199.	7.8	23
944	Nonlinear elastic analysis of 2D materials of arbitrary symmetries with application to black phosphorus. Mechanics of Materials, 2022, 165, 104159.	3.2	2
945	Functionalisation of graphene as a tool for developing nanomaterials with predefined properties. Journal of Molecular Liquids, 2022, 348, 118368.	4.9	12
946	Ameliorating strength-ductility efficiency of graphene nanoplatelet-reinforced aluminum composites via deformation-driven metallurgy. Composites Science and Technology, 2022, 219, 109225.	7.8	77
947	Post-buckling analysis of GPLs reinforced porous cylindrical shells under axial compression and hydrostatic pressure. Thin-Walled Structures, 2022, 172, 108834.	5.3	15
948	Coupled dynamics of axially functionally graded graphene nanoplatelets-reinforced viscoelastic shear deformable beams with material and geometric imperfections. Engineering Analysis With Boundary Elements, 2022, 136, 4-36.	3.7	18

#	Article	IF	CITATIONS
949	Interfacial energy dissipation in bio-inspired graphene nanocomposites. Composites Science and Technology, 2022, 219, 109216.	7.8	9
950	Characteristics and potential applications of nano-enhanced phase change materials: A critical review on recent developments. Sustainable Energy Technologies and Assessments, 2022, 50, 101799.	2.7	6
951	rGO functionalized α-Fe2O3/Co3O4 heterojunction for NO2 detection. Sensors and Actuators B: Chemical, 2022, 354, 131194.	7.8	30
952	Self-reinforced composites based on polypropylene fiber and graphene nano-platelets/polypropylene film. Carbon, 2022, 189, 586-595.	10.3	17
953	Synthesis and characterization of reduced graphene oxide/iron oxide/silicon dioxide (rGO/Fe3O4/SiO2) nanocomposite as a potential cathode catalyst. Journal of Physics and Chemistry of Solids, 2022, 163, 110551.	4.0	8
954	A study of the correlation between the oxidation degree and thickness of graphene oxides. Carbon, 2022, 189, 579-585.	10.3	26
955	Electronic Properties of Molecular-Adsorbed Monolayer Graphene. , 2020, , .		0
957	Inelastic neutron spectra of polyacrylonitrile-based carbon fibers. Physical Review Materials, 2022, 6, .	2.4	3
958	Photo-modulated optical and electrical properties of graphene. Nanophotonics, 2022, 11, 917-940.	6.0	15
959	Graphene for Antimicrobial and Coating Application. International Journal of Molecular Sciences, 2022, 23, 499.	4.1	26
960	Optimization of Delamination and Thrust Force in the Drilling Process of Nanocomposites. European Journal of Science and Technology, 0, , .	0.5	0
962	Silane-functionalized graphene nanoplatelets for silicone rubber nanocomposites. Journal of Materials Science, 2022, 57, 2683-2696.	3.7	11
963	Effective doping of single-walled carbon nanotube films with bromine under ultrasound. Materials and Design, 2022, 213, 110310.	7.0	11
964	Cyclic production of biocompatible few-layer graphene ink with in-line shear-mixing for inkjet-printed electrodes and Li-ion energy storage. Npj 2D Materials and Applications, 2022, 6, .	7.9	15
965	Magnetic hybrid nanomaterials for the removal of pesticides from water. , 2022, , 283-312.		0
966	Grafting redox-active molecules on graphene oxide through a diamine linker: length optimization for electron transfer. Dalton Transactions, 2022, 51, 1874-1878.	3.3	6
967	Enhanced electrical property of graphite/Al2O3 composite fabricated by reductive sintering of gel-casted body using cross-linked epoxy polymer. Journal of Advanced Ceramics, 2022, 11, 523-531.	17.4	10
968	Graphene Enhances Actin Filament Assembly Kinetics and Modulates NIH-3T3 Fibroblast Cell Spreading. International Journal of Molecular Sciences, 2022, 23, 509.	4.1	6

ARTICLE IF CITATIONS Solventâ€Free Synthesis and Processing of Conductive Elastomer Composites for Green Dielectric 969 3.9 9 Elastomer Transducers. Macromolecular Rapid Communications, 2022, 43, e2100823. Recent advances on graphene-based materials as cathode materials in lithium-sulfur batteries. 970 7.1 International Journal of Hydrogen Energy, 2022, 47, 8630-8657. Characteristics, properties, synthesis and advanced applications of 2D graphdiyne <i>versus</i> 971 5.9 14 graphene. Materials Chemistry Frontiers, 2022, 6, 528-552. From graphene to graphene oxide: the importance of extended topological defects. Physical Chemistry Chemical Physics, 2022, 24, 2318-2331. A comprehensive review on polymer matrix composites: material selection, fabrication, and 973 3.3 30 application. Polymer Bulletin, 2023, 80, 47-87. 974 Graphene as a Piezoresistive Material in Strain Sensing Applications. Micromachines, 2022, 13, 119. Stretching Graphene to 3.3% Strain Using Formvar-Reinforced Flexible Substrate. Experimental 975 2.0 9 Mechanics, 2022, 62, 761-767. Guided self-assembly of polyethene on graphene., 2022, , . Liquid metal polymer composites: from printed stretchable circuits to soft actuators. Flexible and 978 2.7 32 Printed Electronics, 2022, 7, 013002. Investigation of the third-order optical nonlinearity of Au/GO-CeO2 nanocomposites under different 979 3.6 high-energy ball milling parameters. Optical Materials, 2022, 124, 112010. Multiwalled carbon nanotubes coated with twin-strengthened copper. Materials Chemistry and 980 4.0 2 Physics, 2022, 280, 125799. xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ga</mml:mi><mml:mi>2</mml:mn>2</mml:msub><mr mathvariant="normal">S</mml:mi><mml:msub><mml:mi>X</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> ( <mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 292 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mr The effect of the modification of graphene oxide with  $\hat{I}_{3}$ - aminopropyltriethoxysilane (KH550) on the 982 7.2 16 properties and hydration of cement. Construction and Building Materials, 2022, 322, 126497. A review on graphene quantum dots, an emerging luminescent carbon nanolights: Healthcare and Environmental applications. Materials Science and Engineering B: Solid-State Materials for Advanced 3.5 14 Technology, 2022, 278, 115633. Characterization and electrical analysis of carbon-based solid lubricant coatings. Carbon Trends, 984 3.0 9 2022, 7, 100156. Corrosion resistance of a superelastic NiTi alloy coated with graphene–based coatings. Progress in Organic Coatings, 2022, 165, 106727. Advances in the application of chitosan-based metal organic frameworks as adsorbents for 986 10.2 44 environmental remediation. Carbohydrate Polymers, 2022, 283, 119153. Cerium functionalized graphene nano-structures and their applications; A review. Environmental 987 Research, 2022, 208, 112685.

# ARTICLE

IF CITATIONS

988	Three-dimensional electrodes. , 2022, , 177-212.		0
989	Environmental and safety aspects of bionanotechnology. , 2022, , 605-650.		0
990	Microstructural, mechanical and marine water tribological properties of plasma-sprayed graphene nanoplatelets reinforced Al2O3- 40Âwt% TiO2 coating. Journal of the European Ceramic Society, 2022, 42, 2892-2904.	5.7	15
991	Development of Performance-Enhanced Graphene Oxide-Based Nanostructured Thin-Film Composite Seawater Reverse Osmosis Membranes. ACS Applied Polymer Materials, 2022, 4, 2149-2159.	4.4	10
992	Mechanical and morphological properties of carbon fibre and its composite for biomaterials' application. Applied Nanoscience (Switzerland), 0, , 1.	3.1	0
993	Multifunctional and durable graphene-based composite sponge doped with antimonene nanosheets. Journal of Materials Research and Technology, 2022, 17, 2466-2479.	5.8	10
994	Bioactive Graphene Quantum Dots Based Polymer Composite for Biomedical Applications. Polymers, 2022, 14, 617.	4.5	61
995	Hybridization of carbon fiber composites with graphene nanoplatelets to enhance interfacial bonding and thermomechanical properties for shape memory applications. Polymer-Plastics Technology and Materials, 2022, 61, 161-175.	1.3	7
996	A review on the recent advances on improving the properties of epoxy nanocomposites for thermal, mechanical, and tribological applications: challenges and recommendations. Polymer-Plastics Technology and Materials, 2022, 61, 176-195.	1.3	9
997	Facile Preparation of Dopamine Mediated Graphene Oxide Composite Membranes with Enhanced Stability for Nanofiltration: Structure, Performance and Stability. SSRN Electronic Journal, 0, , .	0.4	0
998	Development of Yttria-Stabilized Zirconia and Graphene Coatings Obtained by Suspension Plasma Spraying: Thermal Stability and Influence on Mechanical Properties. SSRN Electronic Journal, 0, , .	0.4	0
999	Graphene-Based Materials for Efficient Neurogenesis. Advances in Experimental Medicine and Biology, 2022, 1351, 43-64.	1.6	2
1000	Dynamics of Hyperbranched Polymers Under Severe Confinement in Intercalated Nanocomposites. Advances in Dielectrics, 2022, , 187-221.	1.2	0
1001	Mechanical Properties of Metal Matrix Composites with Graphene and Carbon Nanotubes. Physics of Metals and Metallography, 2022, 123, 57-84.	1.0	5
1002	Electrical conductivity of metal oxide–carbon composites. , 2022, , 61-74.		1
1003	Interlayer Coupling and External Field Controllable Electronic Structures and Schottky Contact of Hfsex (X=Se, S)/Graphene Van Der Waals Heterostructures. SSRN Electronic Journal, 0, , .	0.4	0
1004	Nanomaterial-based biosensor developing as a route toward in vitro diagnosis of early ovarian cancer. Materials Today Bio, 2022, 13, 100218.	5.5	23
1005	Graphene sheets decorated with silver in orthodontic bonding. International Journal of Adhesion and Adhesives, 2022, 117, 103113.	2.9	2

#	Article	IF	CITATIONS
1006	Carbon-based and carbon-supported nanomaterials for the catalytic conversion of biomass: a review. Environmental Chemistry Letters, 2022, 20, 1719-1744.	16.2	19
1007	Interlayer Coulomb interaction in twisted bilayer graphene nanofragments characterized by the vibrational mode of G <sub>r</sub> <sup>+</sup> band. Applied Physics Letters, 2022, 120, 083103.	3.3	5
1008	Modulating vectored non-covalent interactions for layered assembly with engineerable properties. Bio-Design and Manufacturing, 2022, 5, 529-539.	7.7	6
1009	Recent Trends in Graphene/Polymer Nanocomposites for Sensing Devices: Synthesis and Applications in Environmental and Human Health Monitoring. Polymers, 2022, 14, 1030.	4.5	19
1010	Dynamic, Spontaneous Blistering of Substrate-Supported Graphene in Acidic Solutions. ACS Nano, 2022, 16, 6145-6152.	14.6	3
1011	Spheres of Graphene and Carbon Nanotubes Embedding Silicon as Mechanically Resilient Anodes for Lithium-Ion Batteries. Nano Letters, 2022, 22, 3054-3061.	9.1	42
1012	Refining and reinforcing effects of TiC-Al <sub>2</sub> O <sub>3</sub> /Al ribbons inoculant on Al–Si–Mg–Ti alloy. Materials Research Express, 2022, 9, 036516.	1.6	1
1013	2D Materials for Wearable Energy Harvesting. Advanced Materials Technologies, 2022, 7, .	5.8	16
1014	On size-dependent thermo-viscoelasticity theory for piezoelectric materials. Waves in Random and Complex Media, 0, , 1-23.	2.7	16
1015	Analysis of Electromagnetic Effects on Vibration of Functionally Graded GPLs Reinforced Piezoelectromagnetic Plates on an Elastic Substrate. Crystals, 2022, 12, 487.	2.2	9
1016	Three-Dimensional Response of Multilayer FG-GPLRC Spherical Panels Under Blast Loading. International Journal of Structural Stability and Dynamics, 2022, 22, .	2.4	4
1017	Polymer Composites with Graphene and Its Derivatives as Functional Materials of the Future. Polymer Science - Series C, 2022, 64, 40-61.	1.7	4
1018	Dry Transfer Process of Single-Layer Graphene on Multi-Layer Hexagonal Boron Nitride for High Quality Heterostructure. Materials Science Forum, 0, 1055, 171-178.	0.3	1
1019	Microchannel insulating foams comprising a multifunctional epoxy/ <scp>grapheneâ€nanoplatelet</scp> nanocomposite. Polymer Engineering and Science, 2022, 62, 1677-1687.	3.1	3
1020	One-step preparation of pure and Cu-decorated graphite thin layers via electrical explosion in a confined environment: Physical process and product characterization. Ceramics International, 2022, 48, 19874-19881.	4.8	5
1021	Garment Digital Design Method Oriented to the Production Process of Graphene-Modified Nylon Knitted Fabric. Journal of Nanomaterials, 2022, 2022, 1-13.	2.7	1
1022	Graphene Nanoplatelets as a Replacement for Carbon Black in Rubber Compounds. Polymers, 2022, 14, 1204.	4.5	10
1023	Spectroscopic studies on reduced graphene oxide behaviour in multi-step thermal reduction. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2022, 13, 015008.	1.5	2

#	Article	IF	CITATIONS
1024	Mapping the complex refractive index of single layer graphene on semiconductor or polymeric substrates at terahertz frequencies. 2D Materials, 2022, 9, 025018.	4.4	6
1025	Enhanced microstructure and mechanical properties of Al6061 alloy via graphene nanoplates reinforcement fabricated by stir casting. Functional Composites and Structures, 2022, 4, 015005.	3.4	11
1026	Graphene Oxide–Protein-Based Scaffolds for Tissue Engineering: Recent Advances and Applications. Polymers, 2022, 14, 1032.	4.5	28
1027	Ti <sub>3</sub> C <sub>2</sub> MXene-Reduced Graphene Oxide Composite Polymer-Based Printable Electrolyte for Quasi-Solid-State Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2022, 5, 3329-3338.	5.1	22
1028	Design and development of ultra-sensitive, dynamically stable, multi-modal GnP@MXene nanohybrid electrospun strain sensors. Chemical Engineering Journal, 2022, 442, 136138.	12.7	15
1029	High-Strength Liquid Crystal Polymer–Graphene Oxide Nanocomposites from Water. ACS Applied Materials & Interfaces, 2022, 14, 16592-16600.	8.0	4
1030	Turbostratic Carbon/Graphene Prepared via the Dry Ice in Flames Method and Its Purification Using Different Routes: A Comparative Study. Materials, 2022, 15, 2501.	2.9	2
1031	Recent advances in aluminium matrix composites reinforced with graphene-based nanomaterial: A critical review. Progress in Materials Science, 2022, 128, 100948.	32.8	39
1032	Effect of graphene nanoplatelets on the mechanical properties and cutting performance of alumina nanocomposite ceramic tools prepared using the SPS-HF dual sintering method. Ceramics International, 2022, 48, 19240-19249.	4.8	13
1033	Chalcogen Atom-Doped Graphene and Its Performance in N2 Activation. Surfaces, 2022, 5, 228-237.	2.3	0
1034	Biocompatible rapid few-layers-graphene synthesis in aqueous lignin solutions. Carbon Trends, 2022, 7, 100169.	3.0	2
1035	Uncertainties in the antibacterial mechanisms of graphene family materials. Nano Today, 2022, 43, 101436.	11.9	22
1036	Deep learning based design of porous graphene for enhanced mechanical resilience. Computational Materials Science, 2022, 206, 111270.	3.0	12
1037	Temperature and shear dependence of rheological behavior for thermoplastic polyurethane nanocomposites with carbon nanofillers. Polymer, 2022, 247, 124791.	3.8	7
1038	Facile hydrophilic chitosan and graphene oxide modified sustainable non-woven fabric composite sieve membranes (NWF@Cs/Gx): Antifouling, protein rejection, and oil-water emulsion separation studies. Chemical Engineering Research and Design, 2022, 181, 220-238.	5.6	14
1039	A review on carbon-based phase change materials for thermal energy storage. Journal of Energy Storage, 2022, 50, 104166.	8.1	64
1040	Argon diffusion in graphene oxide and reduced graphene oxide foils. Vacuum, 2022, 200, 110993.	3.5	4
1041	A review on graphene / graphene oxide supported electrodes for microbial fuel cell applications: Challenges and prospects. Chemosphere, 2022, 296, 133983.	8.2	23

#	Article	IF	CITATIONS
1042	Tailoring the synergy between polyaniline and reduced graphene oxide using organic acid dopant, pTSA for enhanced performance as electrode material for supercapacitor applications. Journal of Physics and Chemistry of Solids, 2022, 165, 110673.	4.0	5
1043	Investigation of the Anticancer Effects of Nanocomposite of the Modified Graphene Oxide with Isatin-3-Semicarbazone on the Retinoblastoma Cells (Y79) Invitro. Majallah-i DÄnishgÄh-i 'UlÅ«m-i PizishkÄ«-i ĪlÄm, 2021, 29, 75-88.	0.0	0
1044	Crosslinking Multilayer Graphene by Gas Cluster Ion Bombardment. Membranes, 2022, 12, 27.	3.0	0
1045	Highly Sensitive Composite Foam Bodily Sensors Based on the g-Putty Ink Soaking Procedure. ACS Applied Materials & Interfaces, 2021, 13, 60489-60497.	8.0	7
1046	Can the Voigt Model be Directly Used for Determining the Modulus of Graphene in Laminate Thin Films?. ACS Applied Polymer Materials, 2022, 4, 394-402.	4.4	2
1047	Study the Effects of Carbon Nanotubes and Graphene Oxide Combinations on the Mechanical Properties and Flame Retardance of Epoxy Nanocomposites. Journal of Nanomaterials, 2021, 2021, 1-9.	2.7	13
1048	Theoretical Investigation of Carbon Dioxide Adsorption on Li+-Decorated Nanoflakes. Molecules, 2021, 26, 7688.	3.8	10
1050	Recent Developments and Advancements in Graphene-Based Technologies for Oil Spill Cleanup and Oil–Water Separation Processes. Nanomaterials, 2022, 12, 87.	4.1	14
1051	A Comparative Study of the Effect of Graphene Oxide, Graphitic Carbon Nitride, and Their Composite on the Photocatalytic Activity of Cu3SnS4. Catalysts, 2022, 12, 14.	3.5	8
1052	Vertically Aligned Polyamidoxime/Graphene Oxide Hybrid Sheets' Membrane for Ultrafast and Selective Extraction of Uranium from Seawater. Advanced Functional Materials, 2022, 32, .	14.9	52
1054	Elastic modulus and Poisson's ratio of graphene nanoplatelet/glass fiber-reinforced polymer hybrid composites subjected to off-axis loading. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 8012-8026.	2.1	3
1055	Comparative Degradation Studies of Carmine Dye by Photocatalysis and Photoelectrochemical Oxidation Processes in the Presence of Graphene/N-Doped ZnO Nanostructures. Crystals, 2022, 12, 535.	2.2	7
1056	Graphene/Al6061 nanocomposite selection using TOPSIS and EXPROM2 multi-criteria decision-making methods. Materials Today: Proceedings, 2022, 62, 6425-6431.	1.8	4
1057	Experimental and Molecular Dynamics Studies on Tensile Properties of Nylon 6/Graphene Composite Filaments. Fibers and Polymers, 2022, 23, 1684-1691.	2.1	2
1058	Polymer nanocomposites based on graphite nanoplatelets (GNPs): a review on thermal-electrical conductivity, mechanical and barrier properties. Journal of Materials Science, 2022, 57, 7425-7480.	3.7	15
1059	Graphene oxide conjugated with doxorubicin: Synthesis, bioactivity, and biosafety. Journal of Molecular Liquids, 2022, 359, 119156.	4.9	5
1060	Graphene-based woven filter membrane with excellent strength and efficiency for water desalination. Desalination, 2022, 533, 115775.	8.2	13
1062	Theoretical prediction of Janus PdXO (X = S, Se, Te) monolayers: structural, electronic, and transport properties. RSC Advances, 2022, 12, 12971-12977.	3.6	2

ARTICLE IF CITATIONS Applications of DNA bases, Graphene and Biosensors : A Critical Review. International Journal of 1063 0.1 0 Scientific Research in Science, Engineering and Technology, 2022, , 303-313. Graphene-based nanocomposites for automotive and off-highway vehicle applications- A review. 1064 0.1 Current Mechanics and Advanced Materials, 2022, 02, . High-efficiency, self-grinding exfoliation of small graphene nanosheets from microcrystalline graphite driven by microbead milling as conductive additives. Science China Materials, 2022, 65, 1065 6.3 5 2463-2471. Fabrication of a Strong Artificial Nacre Based on Tannic Acid-Functionalized Graphene Oxide and Poly(vinyl alcohol) Through Their Multidentate Hydrogen Bonding. Macromolecular Research, 2022, 1066 2.4 30, 279-284. Sustainable and Renewable Nano-biocomposites for Sensors and Actuators: A Review on Preparation 1067 7 1.2 and Performance. Current Analytical Chemistry, 2023, 19, 38-69. Rheological behavior of poly(propylene) reinforced with graphene nanoplatelets for injection molding. Journal of Applied Polymer Science,  $0,\,,\,$ 1068 2.6 Pico-Watt Scanning Thermal Microscopy for Thermal Energy Transport Investigation in Atomic 1069 4.1 0 Materials. Nanomaterials, 2022, 12, 1479. Quantum transport on honeycomb networks. Scientific Reports, 2022, 12, 6896. 3.3 Effect of hybrid carbon nanofillers at percolation on electrical and mechanical properties of glass 1071 2.6 5 fiber reinfórced epoxy. Journal of Applied Polymer Science, 2022, 139, . Green starch/graphene oxide hydrogel nanocomposites for sustained release applications. Chemical 2.2 Papers, 2022, 76, 5119-5132. Dynamic characteristic of graphene reinforced axial functionally graded beam using finite element 1073 3 1.8 analysis. Materials Today: Proceedings, 2022, , . Graphene-Based Functional Hybrid Membranes for Antimicrobial Applications: A Review. Applied 1074 2.5 Sciences (Switzerland), 2022, 12, 4834. Mechanical properties of ceramics reinforced with allotropic forms of carbon. Progress in Materials 1075 32.8 15 Science, 2022, 128, 100966. Laser induced incorporation of CNTs in graphene electrodes improves flexibility and conductivity. 5.6 FlatChem, 2022, 33, 100378. Multiscale analysis for predicting elastic properties of 3D printed polymer-graphene nanocomposites. 1077 7 1.8 Materials Today: Proceedings, 2022, 62, 4025-4029. An overview of proton exchange membranes for fuel cells: Materials and manufacturing. International Journal of Hydrogen Energy, 2022, 47, 19086-19131. Raman Imaging Evidence for Mechanical/Tribological Quasi-Steady State in GO-Strengthening 1079 2.4 1 Polyurethane/Epoxy Interpenetrating Polymer Network. Macromolecular Research, 0, , 1. Achievements and Challenges of Graphene Chemical Vapor Deposition Growth. Advanced Functional 14.9 Materials, 2022, 32, .

#	Article	IF	CITATIONS
1081	Individually addressable and flexible pressure sensor matrixes with ZnO nanotube arrays on graphene. NPG Asia Materials, 2022, 14, .	7.9	18
1082	Correlation between multiple chemical modification strategies on graphene or graphite and physical/electrical properties. FlatChem, 2022, 33, 100376.	5.6	6
1083	Interface matters: Design of an efficient CaCu3Ti4O12-rGO photocatalyst. Powder Technology, 2022, 404, 117478.	4.2	12
1084	Compound influence of surface and flexoelectric effects on static bending response of hybrid composite nanorod. Journal of Strain Analysis for Engineering Design, 2023, 58, 73-90.	1.8	4
1085	Recent trends of silicon elastomer-based nanocomposites and their sensing applications. Journal of Polymer Research, 2022, 29, .	2.4	11
1086	Graphene reinforced silicon composites and their characterizations. Materials Today: Proceedings, 2022, 62, 5962-5964.	1.8	4
1087	Chitosan-Based Materials Featuring Multiscale Anisotropy for Wider Tissue Engineering Applications. International Journal of Molecular Sciences, 2022, 23, 5336.	4.1	1
1088	Robust icephobic nanocomposite coatings with superior abrasion resistance. Applied Materials Today, 2022, 27, 101480.	4.3	1
1089	Mechanical properties of <scp>in situ</scp> modified graphene <scp>nanosheetsâ€reinforced</scp> polypropylene. Polymer Composites, 2022, 43, 4687-4699.	4.6	10
1090	Nanotextured surfaces with enhanced ice-traction and wear-resistance. Composites Part B: Engineering, 2022, 238, 109916.	12.0	2
1091	Atomistic simulations of mechanical properties and fracture of graphene: A review. Computational Materials Science, 2022, 210, 111457.	3.0	15
1092	Free vibration analysis of functionally graded graphene nanocomposite beams partially in contact with fluid. Composite Structures, 2022, 291, 115609.	5.8	23
1093	Prediction of two-dimensional AlBrSe monolayer as a highly efficient photocatalytic for water splitting. Surfaces and Interfaces, 2022, 31, 102020.	3.0	18
1094	Facile preparation of dopamine mediated graphene oxide composite membranes with enhanced stability for nanofiltration: Structure, performance and stability. Desalination, 2022, 534, 115778.	8.2	11
1095	Tunneling effect in phosphorene through double barriers. Solid State Communications, 2022, 351, 114777.	1.9	5
1096	Carbon-based electrically conductive materials for bone repair and regeneration. Materials Advances, 2022, 3, 5186-5206.	5.4	15
1097	Epoxy Nanocomposites with Carbon Fillers. Reviews and Advances in Chemistry, 2022, 12, 22-56.	0.5	1
1098	A phase separation strategy for enhanced toughness self-assembly graphene-network composites. Composites Science and Technology, 2022, 225, 109503.	7.8	3

#	Article	IF	CITATIONS
1099	Thermomechanical analysis of the effect of contact forces in heat conduction of composite materials through multiscale contact finite element modeling. Mechanics of Advanced Materials and Structures, 2023, 30, 3365-3384.	2.6	1
1100	Graphene Oxide/Europium Sulfide (Go/Eus) Nanorods: Preparation and Enhanced Photocatalytic Activity Towards Hydrogen Evolution. SSRN Electronic Journal, 0, , .	0.4	0
1101	Mechanical, Thermal and Electrical Properties of Epoxy Nanocomposites with Amine-Functionalized Reduced Graphene Oxide via Plasma Treatment. Journal of Composites Science, 2022, 6, 153.	3.0	8
1102	The Study of Properties and Structure of Polylactide–Graphite Nanoplates Compositions. Polymer Crystallization, 2022, 2022, 1-9.	0.8	3
1103	Scalable synthesis and electrochemical performance of mesoporous graphene from calcium carbonate by magnesiothermic reaction. Progress in Natural Science: Materials International, 2022, , .	4.4	0
1104	Buckling of functionally graded hydrogen-functionalized graphene reinforced beams based on machine learning-assisted micromechanics models. European Journal of Mechanics, A/Solids, 2022, 96, 104675.	3.7	13
1105	Nanomaterials for next generation energy storage applications. MRS Communications, 0, , .	1.8	0
1106	Nanoindentation characterization of nanocomposites coating based on graphene and siloxane matrix deposited by dielectric barrier discharge plasma. Surfaces and Interfaces, 2022, 32, 102093.	3.0	1
1107	Enclosed Cells for Extending Soft X-ray Spectroscopies to Atmospheric Pressures and Above. ACS Symposium Series, 0., 175-218.	0.5	2
1109	Rashba-type spin splitting and transport properties of novel Janus XWGeN <sub>2</sub> (X = O, S, Se,) Tj ETQq1	1 0.7843 2.8	14 rgBT /Ove
1109 1110	Rashba-type spin splitting and transport properties of novel Janus XWGeN <sub>2</sub> (X = O, S, Se,) Tj ETQq1 Graphene/polymer composite membranes for vanadium redox flow battery applications. , 2022, , 487-520.	1 0.78433 2.8	14 <sub>1</sub> gBT /Ove
1109 1110 1111	Rashba-type spin splitting and transport properties of novel Janus XWGeN <sub>2</sub> (X = O, S, Se,) Tj ETQq1         Graphene/polymer composite membranes for vanadium redox flow battery applications. , 2022, , 487-520.         Effect of graphene structure, processing method, and polyethylene type on the thermal conductivity of polyethylene-graphene nanocomposites. , 2022, , 433-444.	1 <u>9</u> ,7843	0 0
1109 1110 1111 1112	Rashba-type spin splitting and transport properties of novel Janus XWGeN <sub>2</sub> (X = O, S, Se,) Tj ETQq1         Graphene/polymer composite membranes for vanadium redox flow battery applications. , 2022, , 487-520.         Effect of graphene structure, processing method, and polyethylene type on the thermal conductivity of polyethylene-graphene nanocomposites. , 2022, , 433-444.         Structural analysis of graphene-based composites. , 2022, , 91-120.	1 <u>9</u> ,7843	0 0 0
1109 1110 1111 1112	Rashba-type spin splitting and transport properties of novel Janus XWGeN <sub>2</sub> (X = O, S, Se,) Tj ETQq1         Graphene/polymer composite membranes for vanadium redox flow battery applications. , 2022, , 487-520.         Effect of graphene structure, processing method, and polyethylene type on the thermal conductivity of polyethylene-graphene nanocomposites. , 2022, , 433-444.         Structural analysis of graphene-based composites. , 2022, , 91-120.         A Brief Overview on Facile Synthesis and Challenging Properties of Graphene Nanocomposite: State-of-the-art. Asian Journal of Chemistry, 2022, 34, 1603-1612.	0.3	1418BT /Ove 0 0 0
1109 1110 1111 1112 1113	Rashba-type spin splitting and transport properties of novel Janus XWGeN <sub>2</sub> (X = O, S, Se,) Tj ETQq1         Graphene/polymer composite membranes for vanadium redox flow battery applications. , 2022, , 487-520.         Effect of graphene structure, processing method, and polyethylene type on the thermal conductivity of polyethylene-graphene nanocomposites. , 2022, , 433-444.         Structural analysis of graphene-based composites. , 2022, , 91-120.         A Brief Overview on Facile Synthesis and Challenging Properties of Graphene Nanocomposite: State-of-the-art. Asian Journal of Chemistry, 2022, 34, 1603-1612.         Revealing intrinsic spin coupling in transition metal-doped graphene. Physical Chemistry Chemical Physics, 2022, 24, 16300-16309.	1 <u>0.7</u> 843 <u>2.8</u> 0.3 2.8	1418BT /Ove 0 0 0 0 7
<ol> <li>1109</li> <li>1110</li> <li>1111</li> <li>1112</li> <li>1113</li> <li>1114</li> <li>1115</li> </ol>	Rashba-type spin splitting and transport properties of novel Janus XWGeN <sub>2</sub> (X = O, S, Se,) Tj ETQq1         Graphene/polymer composite membranes for vanadium redox flow battery applications. , 2022, , 487-520.         Effect of graphene structure, processing method, and polyethylene type on the thermal conductivity of polyethylene-graphene nanocomposites. , 2022, , 433-444.         Structural analysis of graphene-based composites. , 2022, , 91-120.         A Brief Overview on Facile Synthesis and Challenging Properties of Graphene Nanocomposite: State-of-the-art. Asian Journal of Chemistry, 2022, 34, 1603-1612.         Revealing intrinsic spin coupling in transition metal-doped graphene. Physical Chemistry Chemical Physics, 2022, 24, 16300-16309.         Biorobotics: An Overview of Recent Innovations in Artificial Muscles. Actuators, 2022, 11, 168.	1 0.7843 2.8 0.3 2.8 2.3	1418 BT /Ove 0 0 0 0 7 10
<ul> <li>1109</li> <li>1110</li> <li>1111</li> <li>1112</li> <li>1113</li> <li>1114</li> <li>1115</li> <li>1116</li> </ul>	Rashba-type spin splitting and transport properties of novel Janus XWGeN <sub>2</sub> (X = O, S, Se,) Tj ETQq1         Graphene/polymer composite membranes for vanadium redox flow battery applications. , 2022, , 487-520.         Effect of graphene structure, processing method, and polyethylene type on the thermal conductivity of polyethylene-graphene nanocomposites. , 2022, , 433-444.         Structural analysis of graphene-based composites. , 2022, , 91-120.         A Brief Overview on Facile Synthesis and Challenging Properties of Graphene Nanocomposite: State-of-the-art. Asian Journal of Chemistry, 2022, 34, 1603-1612.         Revealing intrinsic spin coupling in transition metal-doped graphene. Physical Chemistry Chemical Physics, 2022, 24, 16300-16309.         Biorobotics: An Overview of Recent Innovations in Artificial Muscles. Actuators, 2022, 11, 168.         Effect of addition of graphene nanoplatelets on the mechanical properties of triaxially braided composite Materials, 2023, 32, 182-210.	1 <u>0.7</u> 843 0.3 2.8 2.3 1.9	1418 <sup>BT</sup> /Ove 0 0 0 0 7 10 2

#	Article	IF	CITATIONS
1118	Designing doping strategy in arsenene monolayer for spintronic and optoelectronic applications: a case study of germanium and nitrogen as dopants. Journal of Physics Condensed Matter, 2022, 34, 355301.	1.8	2
1119	Effect of Grain Size on the Properties of Aluminum Matrix Composites with Graphene. Metals, 2022, 12, 1054.	2.3	9
1120	Adsorption of hydrogen isotopes on graphene. Nuclear Engineering and Technology, 2022, , .	2.3	0
1121	A review on graphene and its derivatives as the forerunner of the two-dimensional material family for the future. Journal of Materials Science, 2022, 57, 12236-12278.	3.7	22
1122	Reactive molecular dynamics simulation of thermo-physicochemical properties of non-covalent functionalized graphene nanofluids. Materials Today Communications, 2022, 32, 103869.	1.9	1
1123	Feature size coupling effect of nanolaminated graphene/copper composites. International Journal of Mechanical Sciences, 2022, 227, 107469.	6.7	6
1124	Density Functional Theory Study on the Electronic, Optical and Adsorption Properties of Ti-, Fe- and Ni- Doped Graphene. SSRN Electronic Journal, 0, , .	0.4	0
1125	Effective regulation of the electronic properties of a biphenylene network by hydrogenation and halogenation. RSC Advances, 2022, 12, 20088-20095.	3.6	7
1126	Nanomaterial Hybridized Hydrogels as a Potential Adsorbent for Toxic Remediation of Substances from Wastewater. , 2022, , 365-393.		1
1127	Physical Adsorption of Graphene Oxide onto Polymer Latexes and Characterization of the Resulting Nanocomposite Particles. Langmuir, 2022, 38, 8187-8199.	3.5	1
1128	A 2D Ultrathin Nanopatterned Interlayer to Suppress Lithium Dendrite Growth in Highâ€Energy Lithiumâ€Metal Anodes. Advanced Materials, 2022, 34, .	21.0	18
1129	Recent advances and challenges in grapheneâ€based nanocomposite scaffolds for tissue engineering application. Journal of Biomedical Materials Research - Part A, 2022, 110, 1695-1721.	4.0	15
1130	Bio-reduction of graphene oxide using pomegranate peels for NO2 sensing and photocatalysis applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 16099-16112.	2.2	5
1131	Why is graphene an extraordinary material? A review based on a decade of research. Frontiers of Materials Science, 2022, 16, .	2.2	11
1132	Surface modification of polyurethane nanocomposite films via nonsolventâ€induced phase separation accelerated by graphene nanoplatelets. Polymer Composites, 0, , .	4.6	0
1133	Interlayer coupling and external electric field controllable electronic structures and Schottky contact of HfSeX (XÂ=ÂS, Se)/graphene van der Waals heterostructures. Diamond and Related Materials, 2022, 128, 109223.	3.9	9
1134	Molecular Mapping of Antifungal Mechanisms Accessing Biomaterials and New Agents to Target Oral Candidiasis. International Journal of Molecular Sciences, 2022, 23, 7520.	4.1	3
1135	Effects of biaxial strain on thermal conductivity of novel puckered C2N2 monolayer: A first-principles study. Solid State Communications, 2022, , 114881.	1.9	0

#	Article	IF	CITATIONS
1136	Laser writing of graphene on cellulose paper and analogous material for green and sustainable electronic: a concise review. Carbon Letters, 2022, 32, 1227-1245.	5.9	8
1137	A hierarchical micromechanics framework for properties of discontinuous carbon fiber composites containing graphene nanosheets. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	1.6	3
1138	A new perspective on the modeling and topological characterization of H-Naphtalenic nanosheets with applications. Journal of Molecular Modeling, 2022, 28, .	1.8	29
1139	Deformation and damage characteristics of copper/honeycomb-graphene under shock loading. International Journal of Mechanical Sciences, 2022, 230, 107544.	6.7	6
1140	Plasma sprayed graphene reinforced titanium nitride composite coating: An effective solution for mitigating the corrosion attack. Surface and Coatings Technology, 2022, 445, 128704.	4.8	9
1141	Cleaner deoxygenation of graphene oxide from agro-byproducts for downstream and biological applications. Biomass Conversion and Biorefinery, 0, , .	4.6	1
1142	To investigate the electrical properties of boron nitride nanosheet under tensile loading effect. Materials Today: Proceedings, 2022, , .	1.8	0
1143	Mechanical properties of diboron-porphyrin sheet under strain: A density functional theory study. Journal of the Indian Chemical Society, 2022, 99, 100629.	2.8	3
1144	Achieving high anti-wear and corrosion protection performance of phenoxy-resin coatings based on reinforcing with functional graphene oxide. Applied Surface Science, 2022, 601, 154156.	6.1	14
1145	Synergic optimization of elastic modulus and superconducting properties in graphene@Fe(Se,Te) hybrid materials. Scripta Materialia, 2022, 220, 114922.	5.2	0
1146	Data-driven modeling for thermo-elastic properties of vacancy-defective graphene reinforced nanocomposites with its application to functionally graded beams. Engineering With Computers, 2023, 39, 3023-3039.	6.1	6
1147	Mechanical properties prediction of various graphene reinforced nanocomposites using transfer learning-based deep neural network. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892211153.	2.5	1
1148	The effect of binders on the compressive mechanical behavior and impact resistance of graphene self-assembled ball. Computational Materials Science, 2022, 213, 111674.	3.0	1
1149	First Principle Investigation of Interlayer Interaction, Stacking Order and Layer Number Dependent Structural and Electronic Properties of Multi-Layered Boron Nitride (BN). Journal of Atomic Molecular Condensate and Nano Physics, 2020, 7, 41-50.	0.2	0
1150	Fabrication of super-strength PA66/graphene nanocomposite fibers reinforced with small lateral-sized graphene and graphene oxide nanosheets. Journal of Materials Science, 2022, 57, 14297-14309.	3.7	1
1151	Graphene as a hole transport layer for enhanced performance of P3HT: PCBM bulk heterojunction organic solar cell: a numerical simulation study. IOP Conference Series: Materials Science and Engineering, 2022, 1248, 012011.	0.6	0
1152	Application of Nanocomposites with Thermal Barrier Coating in Heat Pump Heat Transfer Systems. Advances in Materials Science and Engineering, 2022, 2022, 1-12.	1.8	1
1153	Assessment of Physicochemical, Anticancer, Antimicrobial, and Biofilm Activities of N-Doped Graphene. Crystals, 2022, 12, 1035.	2.2	3

#	Article	IF	CITATIONS
1154	Highâ€Throughput Generation of 3D Graphene Metamaterials and Property Quantification Using Machine Learning. Small Methods, 2022, 6, .	8.6	12
1155	In Situ Observation of the Motion of Platinum and Gold Single Atoms on Graphene Using Aberration-Corrected Electron Microscopy. Journal of Physical Chemistry C, 2022, 126, 12780-12789.	3.1	2
1156	Optical spectra of zigzag graphene nanoribbons: a first-principles study. Physica Scripta, 0, , .	2.5	2
1157	Highly aligned growth of carbon nanotube forests with in-situ catalyst generation: A route to multifunctional basalt fibres. Composites Part B: Engineering, 2022, 243, 110136.	12.0	10
1159	The role of graphene in rechargeable lithium batteries: Synthesis, functionalisation, and perspectives. Nano Materials Science, 2022, , .	8.8	20
1160	<scp>Highâ€</scp> performance electric heating yarns based on grapheneâ€coated cotton fibers. Journal of Applied Polymer Science, 2022, 139, .	2.6	3
1161	Progress of <scp> gâ€C <sub>3</sub> N <sub>4</sub> </scp> and carbonâ€based material composite in fuel cell application. International Journal of Energy Research, 2022, 46, 16281-16315.	4.5	10
1162	Dielectric Biodegradable Biopolymerâ€Based Graphene Nanocomposites for Use in the Packaging Industry and Capacitor Application. ChemistrySelect, 2022, 7, .	1.5	0
1163	Intrinsic dipole-induced self-doping in Janus MXY-based (M = Mo, W; X = S; Y = Se, Te) p–n junctions. Journal Physics D: Applied Physics, 2022, 55, 435303.	2.8	7
1164	Theoretical Design of Highly Efficient 2D Thermoelectric Device Based on Janus MoSSe and Graphene Heterostructure. ACS Applied Energy Materials, 2022, 5, 9581-9586.	5.1	7
1165	Multiscale hybrid CNT and CF reinforced PEEK composites with enhanced EMI properties. Nanocomposites, 2022, 8, 184-193.	4.2	9
1166	Production and Characterization of PLA/HA/GO Nanocomposite Scaffold. ChemistrySelect, 2022, 7, .	1.5	6
1167	Grapheneâ€Based Textiles for Thermal Management and Flame Retardancy. Advanced Functional Materials, 2022, 32, .	14.9	13
1168	Advancement and Challenges of Biosensing Using Field Effect Transistors. Biosensors, 2022, 12, 647.	4.7	14
1169	Graphene Oxide Liquid Crystals Aligned in a Confined Configuration: Implications for Optical Materials. ACS Applied Nano Materials, 2022, 5, 11506-11518.	5.0	13
1170	From Materials to Devices: Graphene toward Practical Applications. Small Methods, 2022, 6, .	8.6	16
1171	Light-Induced Raman Spectra Oscillations and Macroscopic Propulsion of Graphene Bubbles. Journal of Physical Chemistry C, 2022, 126, 13785-13793.	3.1	3
1172	Improving the Young's modulus of Mg via alloying and compositing $\hat{a} \in A$ short review. Journal of Magnesium and Alloys, 2022, 10, 2009-2024.	11.9	31

#	Article	IF	CITATIONS
1173	Experimental analysis with grey relational analysis–analytic hierarchy processâ€based hybrid optimization to analyze the effect of graphene nanoparticle reinforced ultraâ€high molecular weight polyethylene/nâ€HAp for hip joint. Polymer Composites, 2022, 43, 6489-6504.	4.6	0
1174	Study of catalytic activity of G-SrO nanoparticles for degradation of cationic and anionic dye and comparative study photocatalytic and electro & photo-electrocatalytic of anionic dye degradation. Journal of Materials Research and Technology, 2022, 20, 959-975.	5.8	5
1175	Fabrication of multi-material electronic components applying non-contact printing technologies: A review. Results in Engineering, 2022, 15, 100578.	5.1	7
1176	Investigation of two different water-dispersed graphene on the performance of graphene/cement paste: Surfactant and superplasticizer effect. Construction and Building Materials, 2022, 349, 128756.	7.2	2
1177	Density functional theory study on the electronic, optical and adsorption properties of Ti-, Fe- and Ni- doped graphene. Diamond and Related Materials, 2022, 128, 109290.	3.9	6
1178	The role of surface and structural functionalisation on graphene adsorbent nanomaterial for CO2 adsorption application: Recent progress and future prospects. Renewable and Sustainable Energy Reviews, 2022, 167, 112840.	16.4	11
1179	Dual thermodynamics approach to the temperature dependence of viscoplastic creep durability in graphene-based nanocomposites. International Journal of Plasticity, 2022, 157, 103400.	8.8	0
1180	Recent developments in graphene and graphene oxide materials for polymer electrolyte membrane fuel cells applications. Renewable and Sustainable Energy Reviews, 2022, 168, 112836.	16.4	59
1181	Carbon nanotubes decorated with Pt as a viable electrocatalyst system using electrochemical atomic layer deposition. Electrochimica Acta, 2022, 429, 140976.	5.2	3
1182	Exploring frictional performance of diamond nanothread reinforced polymer composites from the atomistic simulation and density functional theory. Carbon, 2022, 200, 10-20.	10.3	12
1183	Exploring carbon quantum dots as an aqueous electrolyte for energy storage devices. Journal of Energy Storage, 2022, 55, 105522.	8.1	10
1184	Effect of cracks on dynamical responses of double-variable-edge plates made of graphene nanoplatelets-reinforced porous matrix and sur-bonded by piezoelectric layers subjected to thermo-mechanical loads. European Journal of Mechanics, A/Solids, 2022, 96, 104742.	3.7	12
1185	Fabrication of graphene-oxide and zeolite loaded polyvinylidene fluoride reverse osmosis membrane for saltwater remediation. Chemosphere, 2022, 307, 136012.	8.2	16
1186	Multi-layer interface lubrication of in-situ synthesized titanium dioxide/reduced graphene oxide nanocomposites. Applied Surface Science, 2022, 604, 154571.	6.1	9
1187	Optimizing Mechanical and Biotribological Properties of Carbon Fiber/Epoxy Composites by Applying Interconnected Graphene Interface. Applied Surface Science, 2022, 604, 154432.	6.1	8
1188	Mechanical properties and failure mechanism of spreading carbon fiber reinforced different lateral dimension of graphene oxide modified epoxy composites. Chemical Engineering Journal, 2023, 451, 138332.	12.7	1
1189	Polydopamine/polyethyleneimine co-crosslinked graphene oxide for the enhanced tribological performance of epoxy resin coatings. Journal of Materials Science and Technology, 2023, 136, 13-20.	10.7	28
1190	Poly(lactic acid) composites with few layer graphene produced by noncovalent chemistry. Polymer Composites, 2022, 43, 8409-8425.	4.6	3

#	Article	IF	CITATIONS
1191	Gold Nanomaterials and their Composites as Electrochemical Sensing Platforms for Nitrite Detection. Chemistry - an Asian Journal, 2022, 17, .	3.3	11
1192	Insight into ZnO/carbon hybrid materials for photocatalytic reduction of CO2: An in-depth review. Journal of CO2 Utilization, 2022, 65, 102205.	6.8	24
1193	Mechanical behavior and failure mechanism of multilayer graphene oxides with various oxygen contents and functional types: A ReaxFF molecular dynamics simulation. Applied Surface Science, 2022, 606, 154920.	6.1	9
1194	Recent advances in the electrochemical sensing of lung cancer biomarkers. Biosensors and Bioelectronics: X, 2022, 12, 100235.	1.7	1
1195	Various defects in graphene: a review. RSC Advances, 2022, 12, 21520-21547.	3.6	65
1196	MEMS Platforms for in-situ Testing of Mechanical Properties of Nanostructures. , 2023, , 142-161.		2
1197	Synthesis methods of graphene. , 2022, , 19-42.		0
1198	Analysis and characterization of graphene. , 2022, , 67-89.		1
1199	Mechanical and thermal properties of graphene nanoplatelets-reinforced recycled polycarbonate composites. International Journal of Lightweight Materials and Manufacture, 2023, 6, 117-128.	2.1	15
1200	Characterization Studies on Graphene-Aluminium Nano Composites for Aerospace Launch Vehicle External Fuel Tank Structural Application. Materials, 2022, 15, 5907.	2.9	7
1202	Investigation of Bond Energy Effect on the Electronic Band Structure of Penta-Graphene using Tight-Binding Method. ECS Journal of Solid State Science and Technology, 2022, 11, 091010.	1.8	0
1203	A Comprehensive Review on Graphene Nanoparticles: Preparation, Properties, and Applications. Sustainability, 2022, 14, 12336.	3.2	10
1204	Polyurethane-based separation membranes: A review on fabrication techniques, applications, and future prospectives. Journal of Industrial and Engineering Chemistry, 2022, 116, 99-119.	5.8	10
1205	Resistance of 3D-Printed Components, Test Specimens and Products to Work under Environmental Conditions—Review. Materials, 2022, 15, 6162.	2.9	5
1206	Ballistic performance and protection mechanism of aramid fabric modified with polyethylene and graphene. International Journal of Mechanical Sciences, 2023, 237, 107772.	6.7	8
1207	Lightning strike damage resistance of carbonâ€fiber composites with nanocarbonâ€modified epoxy matrices. Journal of Applied Polymer Science, 2022, 139, .	2.6	1
1208	Advanced Epitaxial Liftâ€Off and Transfer Procedure for the Fabrication of Highâ€Quality Functional Oxide Membranes. Advanced Materials Interfaces, 2023, 10, .	3.7	4
1209	Borophene reinforcing copper matrix composites: Preparation and mechanical properties. Journal of Alloys and Compounds, 2023, 930, 167370.	5.5	12

#	Article	IF	CITATIONS
1210	Ultrasonication effects on graphene composites in neural cell cultures. Frontiers in Molecular Neuroscience, 0, 15, .	2.9	2
1211	The effect of Graphene content on the corrosion and mechanical properties of an electrodeposited Ni-Graphene coating. Applied Surface Science Advances, 2022, 11, 100310.	6.8	2
1213	Magnetite deposit on graphene nanoplatelets Surface: An assessment of grafting parameters. Ain Shams Engineering Journal, 2023, 14, 101996.	6.1	3
1214	Role of boron nitride nanosheet coatings on aluminum substrates during the nanoindentation from the atomic perspective. Applied Surface Science, 2023, 608, 155126.	6.1	5
1215	Independently tuning surface and subsurface reinforcement to optimize PTFE wear. Wear, 2022, 510-511, 204516.	3.1	3
1216	Multiscale modification of carbon nitride-based homojunction for enhanced photocatalytic atrazine decomposition. Journal of Colloid and Interface Science, 2023, 630, 127-139.	9.4	12
1217	An experimental and numerical study of turbulent heat transfer enhancement for graphene nanofluids produced by pulsed discharge. International Journal of Thermofluids, 2022, 16, 100219.	7.8	5
1218	Vibrational characteristics of functionally graded graphene origami-enabled auxetic metamaterial beams based on machine learning assisted models. Aerospace Science and Technology, 2022, 130, 107906.	4.8	32
1219	Recent major advances and challenges in the emerging graphene-based nanomaterials in electrocatalytic fuel cell technology. Journal of Materials Chemistry C, 2022, 10, 17812-17873.	5.5	3
1220	Crystallisation Kinetics and Associated Electrical Conductivity Dynamics of Poly(Ethylene Vinyl) Tj ETQq1 1 0.784	314 rgBT 4.1	Oyerlock 10
1221	Mechanical characteristics and failure morphology of FFF-printed poly lactic acid composites reinforced with carbon fibre, graphene and MWCNTs. Journal of Thermoplastic Composite Materials, 2023, 36, 3618-3643.	4.2	7
1222	A Continuum Model for Circular Graphene Membranes Under Uniform Lateral Pressure. Journal of Elasticity, 2022, 151, 273-303.	1.9	3
1223	Recent development of graphene-based composite for multifunctional applications: energy, environmental and biomedical sciences. Critical Reviews in Solid State and Materials Sciences, 2024, 49, 72-140.	12.3	15
1224	Sol–gel method and reactive SPS for novel alumina–graphene ceramic composites. Journal of the European Ceramic Society, 2023, 43, 1064-1077.	5.7	6
1225	Load transfer mechanisms in the platelets reinforced composites with considering the interphase related failure modes. International Journal of Mechanical Sciences, 2023, 239, 107888.	6.7	3
1226	Polyelectrolytes Enabled Reduced Graphite Oxide Water Dispersions: Effects of the Structure, Molecular Weight, and Charge Density. Polymers, 2022, 14, 4165.	4.5	1
1227	Green synthesis of graphene-based metal nanocomposite for electro and photocatalytic activity; recent advancement and future prospective. Chemosphere, 2023, 311, 136982.	8.2	16
1228	Human-muscle-inspired single fibre actuator with reversible percolation. Nature Nanotechnology, 2022, 17, 1198-1205.	31.5	53

#	Article	IF	CITATIONS
1229	Simultaneously enhanced strength and ductility in graphene nanosheet/Al-Cu-Mg nano-laminated composites by incorporating coarse domains. Materials Research Letters, 2023, 11, 143-151.	8.7	5
1230	Molybdenum Carbide-Based Photocatalysts: Synthesis, Functionalization, and Applications. Langmuir, 2022, 38, 12739-12756.	3.5	43
1231	Modulation of elastic wave propagation in piezoelectric laminated nanocomposite shells considering agglomeration effects. Acta Mechanica, 2022, 233, 5215-5239.	2.1	2
1232	Evolution of copper step beams during graphene growth by CVD method. Applied Surface Science, 2023, 610, 155518.	6.1	4
1233	Graphene oxide internalization into mammalian cells – a review. Colloids and Surfaces B: Biointerfaces, 2023, 221, 112998.	5.0	14
1234	Mechanical and Electrical Properties of Graphene Oxide Reinforced Copper–Tungsten Composites Produced via Ball Milling of Metal Flakes. Materials, 2022, 15, 7736.	2.9	1
1235	Thin-Copper-Layer-Induced Early Fracture in Graphene-Nanosheets (GNSs)-Reinforced Copper-Matrix-Laminated Composites. Materials, 2022, 15, 7677.	2.9	0
1236	Comparative DFT study on the H2 adsorption and the sensing properties of BN-, BP-, AlN-, and AlP-decorated graphene nanoflakes. Diamond and Related Materials, 2022, 130, 109510.	3.9	3
1237	Lanthanide sulfide decorated graphene oxide nanorods as an effective photocatalysts for reducing dyes, free radicals, and water split to produce H2 in sunlight. Solid State Sciences, 2022, 134, 107045.	3.2	5
1238	Valorization of carbonaceous waste into graphene materials and their potential application in water & wastewater treatment: a review. Materials Today Chemistry, 2022, 26, 101192.	3.5	4
1239	Single process of pulsed wire discharge for defect healing and reduction of graphene oxide. Carbon, 2023, 201, 1184-1192.	10.3	3
1240	Numerical solution of the two-dimensional Steigmann–Ogden model of material surface with a boundary. Physica D: Nonlinear Phenomena, 2023, 443, 133531.	2.8	2
1241	2D carbon materials based photoelectrochemical biosensors for detection of cancer antigens. Biosensors and Bioelectronics, 2023, 219, 114811.	10.1	16
1242	Reduced graphene oxide: Biofabrication and environmental applications. Chemosphere, 2023, 311, 136934.	8.2	25
1243	Carbon Nanotubes for Drug Delivery Applications. , 2022, , 1651-1664.		0
1244	Development of yttria-stabilized zirconia and graphene coatings obtained by suspension plasma spraying: Thermal stability and influence on mechanical properties. Ceramics International, 2023, 49, 9000-9009.	4.8	2
1246	Semi-Analytical Solution for Thermo-Piezoelectric Bending of FG Porous Plates Reinforced with Graphene Platelets. Mathematics, 2022, 10, 4104.	2.2	9
1247	In Situ Measurement of AC Conductivity to Quantify Unidirectional Alignment of Graphene Nanoplatelets (GNPs) in Epoxy. Conference Proceedings of the Society for Experimental Mechanics, 2023, , 79-86.	0.5	0

#	Article	IF	CITATIONS
1248	Improvement in the electro-optical and electronic properties of the reduced graphene oxide dispersed in a liquid crystalline material 4'-octyl-4-cyano-biphenyl. Liquid Crystals, 2023, 50, 476-494.	2.2	5
1249	Structural Analysis and Topological Characterization of Sudoku Nanosheet. Journal of Mathematics, 2022, 2022, 1-10.	1.0	22
1250	Cell mechanical responses to subcellular perturbations generated by ultrasound and targeted microbubbles. Acta Biomaterialia, 2022, , .	8.3	0
1251	Recent advances in nanotechnology for remediation of heavy metals. Environmental Monitoring and Assessment, 2023, 195, .	2.7	10
1252	Graphene/Polymer Nanocomposites: Preparation, Mechanical Properties, and Application. Polymers, 2022, 14, 4733.	4.5	24
1253	Investigation of dynamic impact responses of layered polymer-graphene nanocomposite films using coarse-grained molecular dynamics simulations. Carbon, 2023, 203, 202-210.	10.3	7
1254	Novel Ternary Epoxy Resin Composites Obtained by Blending Graphene Oxide and Polypropylene Fillers: An Avenue for the Enhancement of Mechanical Characteristics. Journal of Inorganic and Organometallic Polymers and Materials, 2023, 33, 383-397.	3.7	4
1255	Electronic Properties of Hexagonal Graphene Quantum Rings from TAO-DFT. Nanomaterials, 2022, 12, 3943.	4.1	2
1256	Application of 2D Materials for Adsorptive Removal of Air Pollutants. ACS Nano, 2022, 16, 17687-17707.	14.6	11
1257	A route towards graphene from lignocellulosic biomass: Technicality, challenges, and their prospective applications. Journal of Cleaner Production, 2022, 380, 135090.	9.3	18
1258	The effect of substituting Cobalt into graphene-like InAs on its optical properties: A DFT study. Optik, 2022, 271, 170194.	2.9	3
1259	Structure–Property Relationships in Polymer Nanocomposites. , 2022, , 659-685.		0
1260	Effect of concentration GO and diamond wax and method of introducing additives on morphology and properties of epoxy powder coating. Polymer Testing, 2023, 117, 107866.	4.8	2
1261	Effect of Ni atomic fraction on active species of graphene growth on Cu–Ni alloy catalysts: a density functional theory study. Physical Chemistry Chemical Physics, 2022, 25, 708-723.	2.8	3
1262	Application of graphene oxide as (nano) reinforcement in epoxy composites. Revista Materia, 2022, 27, .	0.2	0
1263	Electronic and transport properties of new carbon nanoribbons with 5–8–5 carbon rings: tuning stability by the edge shape effect. Physical Chemistry Chemical Physics, 2022, 24, 29966-29976.	2.8	2
1264	A universal approach to â€`host' carbon nanotubes on a charge triggered â€`guest' interpenetrating polymer network for excellent â€`green' electromagnetic interference shielding. Nanoscale, 2023, 15, 1373-1391.	5.6	3
1265	LSNR:GO template for BSA interaction, photo and sonocatalytic reductions of fluorescent dyes in aqueous solutions. Energy Advances, 2023, 2, 198-225.	3.3	2

#	Article	IF	CITATIONS
1266	A Non-Heat-Source Process for Preparing Graphene Oxide with Low Energy Consumption. Dalton Transactions, 0, , .	3.3	0
1267	Flutter analysis of honeycomb sandwich trapezoidal wings reinforced with GPLs. Thin-Walled Structures, 2023, 183, 110353.	5.3	6
1268	Characterization of graphene reinforced 3C-SiC composite as a metal-free friction material using molecular dynamics simulation. Computational Materials Science, 2023, 218, 111973.	3.0	1
1269	Multi-factor analysis of the effects of graphene oxide nanoplatelets on self-healing polymer composites based on micromechanical FE simulation. Computational Materials Science, 2023, 218, 111980.	3.0	3
1270	Interfacial damage of bilayer graphene under shear deformation: Theory, experiment, and simulation. Journal of the Mechanics and Physics of Solids, 2023, 171, 105154.	4.8	1
1271	Nano-cementitious composites modified with Graphene Oxide – a review. Thin-Walled Structures, 2023, 183, 110326.	5.3	10
1272	Graphdiyne oxide elicits a minor foreign-body response and generates quantum dots due to fast degradation. Journal of Hazardous Materials, 2023, 445, 130512.	12.4	6
1273	Application of graphene and its derivatives in cementitious materials: An overview. Journal of Building Engineering, 2023, 65, 105721.	3.4	2
1274	Graphene-based materials for effective adsorption of organic and inorganic pollutants: A critical and comprehensive review. Science of the Total Environment, 2023, 863, 160871.	8.0	47
1275	An Analytical Symplectic Method for Buckling of Ring-Stiffened Graphene Platelet-Reinforced Composite Cylindrical Shells Subjected to Hydrostatic Pressure. Journal of Marine Science and Engineering, 2022, 10, 1834.	2.6	3
1277	Insights into the Electrical Characterization of Graphene-like Materials from Carbon Black. Coatings, 2022, 12, 1788.	2.6	0
1278	Pro-Myogenic Environment Promoted by the Synergistic Effect of Conductive Polymer Nanocomposites Combined with Extracellular Zinc Ions. Biology, 2022, 11, 1706.	2.8	1
1279	Composition Optimization of Iron-Nickel-Nanographite Particles for Tuning the Electromagnetic Parameters of Silicone Rubber Composites. Arabian Journal for Science and Engineering, 2023, 48, 8849-8860.	3.0	1
1280	Molecular Dynamics Simulations of the Mechanical Properties of Cellulose Nanocrystals—Graphene Layered Nanocomposites. Nanomaterials, 2022, 12, 4170.	4.1	1
1281	Correlation between copper particle morphology and number of graphene layers on a palladium substrate. Applied Physics Express, 2023, 16, 015503.	2.4	0
1282	Photoresponsive Carbonâ€Azobenzene Hybrids: A Promising Material for Energy Devices. ChemPhysChem, 2023, 24, .	2.1	5
1283	Interfacial stress transfer in monolayer and few-layer MoS2 nanosheets in model nanocomposites. Composites Science and Technology, 2023, 233, 109892.	7.8	4
1284	Porous carbon-based thermally conductive materials: Fabrication, functions and applications. , 2023, 42, 100006.		3

#	Article	IF	CITATIONS
1285	METAL OXIDE ELECTRON TRANSPORT MATERIALS IN PEROVSKITE SOLAR CELLS: A REVIEW. European Journal of Materials Science and Engineering, 2022, 7, 225-260.	0.1	0
1286	Study of Thermal Effect on the Mechanical Properties of Nylon 610 Nanocomposites with Graphite Flakes That Have Undergone Supercritical Water Treatment at Different Temperatures. Polymers, 2022, 14, 5494.	4.5	2
1287	Electrocatalysts Based on Graphene and Its Composites. ACS Symposium Series, 0, , 165-199.	0.5	1
1288	Microstructures, mechanical and corrosion properties of graphene nanoplatelet–reinforced zinc matrix composites for implant applications. Acta Biomaterialia, 2023, 157, 701-719.	8.3	8
1289	Poly(amidoamine) Functionalized Graphene Oxide Incorporated Carbon/Epoxy Prepreg Composites for Enhanced Electrical and Thermal Properties. Fibers and Polymers, 2022, 23, 3569-3580.	2.1	1
1290	Self-sensing polymer composite containing a continuous and periodic graphene monolayer. Cell Reports Physical Science, 2022, 3, 101160.	5.6	2
1291	The state of the art and future trends of root canal files from the perspective of patent analysis: a study design. BioMedical Engineering OnLine, 2022, 21, .	2.7	3
1292	Linear and Nonlinear Elastic Properties of Polystyrene-Based Nanocomposites with Allotropic Carbon Fillers and Binary Mixtures. Polymers, 2022, 14, 5462.	4.5	3
1293	Nitrogen-Doped Graphene Sheets as Efficient Nanofillers at Ultra-Low Content for Reinforcing Mechanical and Wear-Resistant Properties of Acrylic Polyurethane Coatings. Crystals, 2022, 12, 1820.	2.2	1
1294	Fabrication of Conductive Fabrics Based on SWCNTs, MWCNTs and Graphene and Their Applications: A Review. Polymers, 2022, 14, 5376.	4.5	9
1295	Large Scale Fabrication of Graphene Based Nanoâ€Electromechanical (NEM) Contact Switches with Subâ€0.5 Volt Actuation. , 0, , 2200050.		0
1296	Ultraâ€High Loading of Coalâ€Derived Flash Graphene Additives in Epoxy Composites. Macromolecular Materials and Engineering, 2023, 308, .	3.6	4
1297	Tribological Effects of Water-Based Graphene Lubricants on Graphene Coatings. Materials, 2023, 16, 197.	2.9	1
1298	Balanced Mechanical and Biotribological Properties of Polymer Composites Reinforced by a 3D Interlocked Si <sub>3</sub> N <sub>4</sub> Nanowire Membrane. ACS Applied Materials & Interfaces, 2022, 14, 56203-56212.	8.0	6
1299	Quantum effects on the propagation of surface magnetoplasmon polaritons in a graphene-plasmonic structure. Physica Scripta, 2023, 98, 015603.	2.5	1
1300	Effect of size and surface area of graphene nanoplatelets on the thermomechanical and interfacial properties of shape memory multiscale composites. Polymer-Plastics Technology and Materials, 2022, 61, 1334-1346.	1.3	3
1301	Effect of graphene nano-sheets on the elastic and piezoelectric coefficients of unidirectional PZT-7A/polyimide hybrid composites. Journal of Intelligent Material Systems and Structures, 0, , 1045389X2211476.	2.5	0
1302	Effective Removal of Metal ion and Organic Compounds by Non-Functionalized rGO. Molecules, 2023, 28, 649.	3.8	1
	Сітатіо	n Report	
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#	Article	IF	Citations
1303	Experimental investigation and machine learning prediction of mechanical properties of graphene nanoplatelets based triaxial braided composites. Materials Today Communications, 2023, 34, 105305.	1.9	2
1304	Manufacturing Strategies for Graphene Derivative Nanocomposites—Current Status and Fruitions. Nanomanufacturing, 2023, 3, 1-19.	3.6	5
1305	Vat polymerization-based 3D printing of nanocomposites: A mini review. Frontiers in Materials, 0, 9, .	2.4	6
1306	Tuning the electronic and magnetic properties of MgO monolayer by nonmetal doping: A first-principles investigation. Materials Today Communications, 2023, 34, 105422.	1.9	1
1307	Polymeric nanocomposite with polyhedral oligomeric silsesquioxane and nanocarbon (fullerene,) Tj ETQq0 0 Materials, 2023, 62, 921-934.	0 rgBT /Overlc 1.3	ock 10 Tf 50 4
1308	A Review on Properties and Environmental Applications of Graphene and Its Derivative-Based Composites. Catalysts, 2023, 13, 111.	3.5	10
1309	Flexible Electrospun PVDF Piezoelectric Nanogenerators with Electrospray-Deposited Graphene Electrodes. Journal of Electronic Materials, 2023, 52, 2053-2061.	2.2	5
1310	Graphene/electrospun carbon nanofiber sponge composites induced by magnetic particles for mutil-functional pressure sensor. Carbon, 2023, 205, 454-462.	10.3	4
1311	Influence of Flash Graphene on the acoustic, thermal, and mechanical performance of flexible polyurethane foam. Polymer Testing, 2023, 119, 107919.	4.8	5
1312	Interfacial microstructure and strengthening mechanisms of SPSed Al/GNP nanocomposite subjected to multi-pass friction stir processing. Materials Characterization, 2023, 197, 112652.	4.4	6
1313	Effect of rGO/GNP on the electrical conductivity and piezoresistance of cement-based composite subjected to dynamic loading. Construction and Building Materials, 2023, 368, 130340.	7.2	12
1314	Mor lahana ¶zütü kullanarak grafen oksitin indirgenmesi ve oksidasyon ile fotokatalitik aktivitesinin incelenmesi. Journal of the Faculty of Engineering and Architecture of Gazi University, 0, , .	0.8	0
1315	Aero Graphene in Modern Aircraft & UAV. Recent Innovations in Mechatronics, 2022, 9, .	0.1	0
1316	An Insight into Carbon Nanomaterial-Based Photocatalytic Water Splitting for Green Hydrogen Production. Catalysts, 2023, 13, 66.	3.5	11
1317	Graphene Composite via Bacterial Cellulose Assisted Liquid Phase Exfoliation for Sodium-Ion Batteries. Polymers, 2023, 15, 203.	4.5	2
1318	Polypropylene and Graphene Nanocomposites: Effects of Selected 2D-Nanofiller's Plate Sizes on Fundamental Physicochemical Properties. Inventions, 2023, 8, 8.	2.5	2
1319	Tensile and thermal behaviour of linear low-density polyethylene nanocomposite films. IOP Conference Series: Materials Science and Engineering, 2022, 1272, 012024.	0.6	1
1320	Impact of Graphene Monolayer on the Performance of Non-Conventional Silicon Heterojunction Solar Cells with MoOx Hole-Selective Contact. Materials, 2023, 16, 1223.	2.9	0

#	Article	IF	CITATIONS
1321	Polymer and nanoball-derived nanomaterials: Carbonaceous nanoball, polymer nanoball, and inorganic nanoball. , 2023, , 107-130.		0
1322	Acrylonitrile Butadiene Styrene-Based Composites with Permalloy with Tailored Magnetic Response. Polymers, 2023, 15, 626.	4.5	3
1323	Commercial Prospects of Graphene-Based Biomolecular Electronic Devices and Challenges. , 2023, , 239-248.		0
1324	Application of graphene in energy storage devices. , 2023, , 135-156.		1
1325	Flexible and Soft Materials and Devices for Neural Interface. , 2023, , 79-139.		1
1326	Membranes Coated with Graphene-Based Materials: A Review. Membranes, 2023, 13, 127.	3.0	6
1327	The influence of temperature on the quality of graphene obtained through chemical vapour deposition. AIP Conference Proceedings, 2023, , .	0.4	0
1328	Food-Inspired, High-Sensitivity Piezoresistive Graphene Hydrogels. ACS Sustainable Chemistry and Engineering, 2023, 11, 1820-1827.	6.7	4
1329	Electromechanically tunable graphene-based terahertz metasurface. Optics Communications, 2023, 534, 129319.	2.1	3
1330	Determining local modulus and strength of heterogeneous films by force–deflection mapping of microcantilevers. Review of Scientific Instruments, 2023, 94, .	1.3	1
1331	Graphene Utilization for Efficient Energy Storage and Potential Applications: Challenges and Future Implementations. Energies, 2023, 16, 2927.	3.1	5
1332	Electron exchange effect on surface magnetoplasmon polaritons dynamics in a graphene-plasmonic structure. Journal of Applied Physics, 2023, 133, .	2.5	2
1333	Mechanics of reinforcement in a hybrid graphene and continuous glass fibre reinforced thermoplastic. Composites Science and Technology, 2023, 237, 110001.	7.8	4
1334	A review on the mechanics of graphene nanoplatelets reinforced structures. International Journal of Engineering Science, 2023, 186, 103831.	5.0	26
1335	A comprehensive review of heat transfer enhancement of heat exchanger, heat pipe and electronic components using graphene. Case Studies in Thermal Engineering, 2023, 45, 102874.	5.7	12
1336	Raman spectroscopy of carbon materials and their composites: Graphene, nanotubes and fibres. Progress in Materials Science, 2023, 135, 101089.	32.8	120
1337	DFT based investigations for the structural and electronic properties of coved zigzag BP nanoribbons. Journal of Molecular Graphics and Modelling, 2023, 121, 108453.	2.4	0
1338	Investigating the compressive strength and microstructural analysis of mortar containing synthesized graphene and natural pozzolan in the face of alkali-silica reactions. Journal of Building Engineering, 2023, 68, 106126.	3.4	3

#	Article	IF	CITATIONS
1339	Synergetic reinforcing effect of graphene oxide and nanosilver on carboxymethyl cellulose/sodium alginate nanocomposite films: Assessment of physicochemical and antibacterial properties. International Journal of Biological Macromolecules, 2023, 239, 124185.	7.5	9
1340	Health and safety perspectives of graphene in wearables and hybrid materials. Journal of Materials Science and Technology, 2023, 155, 10-32.	10.7	5
1341	Functionalization of graphene-based nanomaterials for energy and hydrogen storage. Electrochimica Acta, 2023, 452, 142340.	5.2	13
1342	Optical limiting behavior of metal (Mn, W) oxides decorated nitrogen-doped reduced graphene oxide nanocomposites stimulated by two-photon absorption. Optical Materials, 2023, 139, 113776.	3.6	4
1343	Characterisation of microstructure, microhardness and tribological properties of Al matrix hybrid nanocomposites reinforced with B4C and in-situ GNSs. Wear, 2023, 522, 204691.	3.1	7
1344	Investigation of the microstructure and mechanical behaviour of resistance spot-welded CR210 steel joints using graphene as an interlayer. Materials Chemistry and Physics, 2023, 302, 127693.	4.0	2
1345	Multilevel Fully Integrated Electromechanical Property Modulation of Functionally Graded Grapheneâ€Reinforced Piezoelectric Actuators: Coupled Effect of Poling Orientation. Advanced Theory and Simulations, 2023, 6, .	2.8	4
1346	Mechanical and sensing performance under hydrothermal ageing of wearable sensors made of polydimethylsiloxane with graphitic nanofillers. Polymer Degradation and Stability, 2023, 209, 110278.	5.8	2
1347	Design and fabrication of NiS decorating 2D ultra-thin TiO2 thin film nanocomposites with enhanced photocatalytic hydrogen evolution activity. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	0
1348	Graphene and Graphene Based Nanocomposites for Bioâ€Medical and Bioâ€safety Applications. ChemistrySelect, 2023, 8, .	1.5	4
1349	Electrochemical production of two-dimensional atomic layer materials and their application for energy storage devices. Chemical Physics Reviews, 2023, 4, .	5.7	0
1350	Cement Composites with Carbonâ€Based Nanomaterials for 3D Concrete Printing Applications – A Review. Chemical Record, 2023, 23, .	5.8	1
1351	Predicted novel Janus γ-Ge <sub>2</sub> XY(X/Y=  S, Se, Te) monolayers with Mexican-hat dispersions and high carrier mobilities. Journal Physics D: Applied Physics, 2023, 56, 135302.	2.8	5
1352	Molecular Dynamics Simulations of the Interaction Between Graphene and Lubricating Oil Molecules. Tribology Letters, 2023, 71, .	2.6	7
1353	Impact of high temperature thermal reduction on microstructure, crystallinity and surface topography of reduced graphene oxide. Materials Today: Proceedings, 2023, , .	1.8	0
1354	Defining the Surface Oxygen Threshold That Switches the Interaction Mode of Graphene Oxide with Bacteria. ACS Nano, 2023, 17, 6350-6361.	14.6	16
1355	Laserâ€Carbonization – A Powerful Tool for Microâ€Fabrication of Patterned Electronic Carbons. Advanced Materials, 2023, 35, .	21.0	12
1356	Enhancement in Mechanical Properties of Glass/Epoxy Composites by a Hybrid Combination of Multi-Walled Carbon Nanotubes and Graphene Nanoparticles. Polymers, 2023, 15, 1189.	4.5	8

# 1357	ARTICLE Current Research Trends of Graphene Nanotechnology. , 2023, , 106-123.	IF	CITATIONS 0
1358	Covalent functionalization of graphene sheets for plasmid DNA delivery: experimental and theoretical study. RSC Advances, 2023, 13, 7000-7008.	3.6	2
1359	Porous Graphene-Based Materials for Enhanced Adsorption Towards Emerging Micropollutants (EMs). Materials Horizons, 2023, , 547-570.	0.6	1
1360	The Influence of Graphene Nanosheets Inclusion on the Mechanical and Thermal Characteristics of Acrylonitrile–Butadiene–Styrene Copolymer. Polymer Science - Series A, 2022, 64, 850-859.	1.0	0
1361	Graphene-based nanostructures from green processes and their applications in biomedical sensors. Advanced Industrial and Engineering Polymer Research, 2024, 7, 37-53.	4.7	2
1362	Optimization of the Electrochemical Method of Obtaining Graphene Nanoplatelets (GNPs). Materials, 2023, 16, 2188.	2.9	1
1363	Graphene-like Carbon Structure Synthesis from Biomass Pyrolysis: A Critical Review on Feedstock–Process–Properties Relationship. Journal of Carbon Research, 2023, 9, 31.	2.7	6
1364	Carbon nanopores for DNA sequencing: a review on nanopore materials. Chemical Communications, 2023, 59, 4838-4851.	4.1	5
1365	Strategies to resolve intrinsic conflicts between strength and toughness in polyethylene composites. Advanced Industrial and Engineering Polymer Research, 2023, , .	4.7	5
1366	Yüksek Yoğunluklu Polietin (YYPE)/Çinko Borat Polimer Kompozitinin Mekanik Özelliklerine Grafenin Etkisi. Gazi Üniversitesi Fen Bilimleri Dergisi, 0, , .	0.6	0
1367	Recent Advances in Recognition Receptors for Electrochemical Biosensing of Mycotoxins—A Review. Biosensors, 2023, 13, 391.	4.7	1
1368	Potential of graphene-modified nanostructures for multifunctional personal protective clothing. , 2023, , 195-218.		1
1369	Multiscale Mechanics of Thermal Gradient Coupled Graphene Fracture: A Molecular Dynamics Study. International Journal of Applied Mechanics, 2023, 15, .	2.2	1
1370	Synthesis and application of carbon-based nanomaterials for bioelectrochemical systems. , 2023, , 327-356.		3
1371	Effect of one-step dipping coating process on microstructure and tribology of polypropylene/graphene oxide/carbon nanotube nanocomposites. Iranian Polymer Journal (English) Tj ETQqO 0 0	rg <b>B.</b> ]4/Ove	rlack 10 Tf 5
1372	Thermal conductivity of 2D diamond superstructures in interlayer-bonded twisted bilayer graphene. Applied Physics Letters, 2023, 122, 133101.	3.3	1
1373	Improved strain engineering of 2D materials by adamantane plasma polymer encapsulation. Npj 2D Materials and Applications, 2023, 7, .	7.9	6
1374	Fast Ion Transfer Associated with Dehydration and Modulation of Hydration Structure in Electric Double-Layer Capacitors Using Molecular Dynamics Simulations and Experiments. Batteries, 2023, 9, 212.	4.5	1

#	Article	IF	CITATIONS
1376	Graphene-based 2D materials: recent progress in corrosion inhibition. , 2023, , 159-186.		2
1377	Molecular Understanding of Adhesion of Epoxy Resin to Graphene and Graphene Oxide Surfaces in Terms of Orbital Interactions. Langmuir, 2023, 39, 5514-5526.	3.5	4
1378	Development of graphene incorporated acrylic-epoxy composite hybrid anti-corrosion coatings for corrosion protection. Materials Chemistry and Physics, 2023, 303, 127731.	4.0	5
1379	A Recent Review on Cancer Nanomedicine. Cancers, 2023, 15, 2256.	3.7	15
1380	PVA biopolymer-acidic functionalized graphene hybrid nano composite for vibration isolation application: An experimental approach with variable reflux and vacuum timings. Chemical Physics Impact, 2023, 6, 100212.	3.5	10
1381	Enhancement of polypropylene mechanical behavior by the synergistic effect of mixtures of carbon nanofibers and graphene nanoplatelets modified with cold propylene plasma. Journal of Applied Polymer Science, 0, , .	2.6	0
1382	Graphene in nanomedicine: A review on nano-bio factors and antibacterial activity. Colloids and Surfaces B: Biointerfaces, 2023, 226, 113323.	5.0	13
1383	Au-TiO2-Graphene Grated Highly Sensitive D-Shaped SPR Refractive Index Sensor. Plasmonics, 2023, 18, 1203-1210.	3.4	4
1384	Two-dimensional layered materials for efficient photodetection. , 2023, , 265-280.		2
1385	Incorporation of TERGO and EG in Plasma Sprayed Ceramics Coatings for Improved Microwave Absorption and Tribological Properties. Journal of Thermal Spray Technology, 0, , .	3.1	Ο
1386	Random but limited pressure of graphene liquid cells. Ultramicroscopy, 2023, 250, 113747.	1.9	0
1387	Automated image segmentation of scanning electron microscopy images of graphene using U-Net Neural Network. Materials Today Communications, 2023, 35, 106127.	1.9	0
1388	A novel finding on tribological, emission, and vibration performances of diesel engines linking to graphene-attapulgite lubricants additives under hot engine tests. Renewable and Sustainable Energy Reviews, 2023, 182, 113366.	16.4	1
1389	Multidimensional modulation of light fields via a combination of two-dimensional materials and meta-structures. Science China Information Sciences, 2023, 66, .	4.3	2
1390	Size effect and scaling in quasiâ€static and fatigue fracture of graphene polymer nanocomposites. Polymer Composites, 0, , .	4.6	1
1391	Dependence of the nanometer-scale structural heterogeneity of a bulk metallic glass on its fictive temperature. Materials Today Nano, 2023, 22, 100346.	4.6	0
1392	Extra Ordinary Properties of Graphene. Engineering Materials, 2023, , 21-52.	0.6	2
1393	Hydrophobic ionic liquid-modified graphene via fluid-dynamic process for ion-to-electron transducers for all-solid-state potentiometric sensors. Carbon Letters, 2023, 33, 1561-1569.	5.9	2

#	Article	IF	CITATIONS
1394	A critical evaluation of the safety datasheets of graphene materials. Journal of Nanoparticle Research, 2023, 25, .	1.9	0
1395	Studies on polyethylene terephthalate hybrid polymer nanocomposites. Polymer Bulletin, 2024, 81, 2247-2266.	3.3	1
1396	Numerical investigation on the influence of the Soret effect on graphene growth in chemical vapor deposition. Journal of Crystal Growth, 2023, 614, 127253.	1.5	0
1397	Recent advances and mechanism of antimicrobial efficacy of graphene-based materials: a review. Journal of Materials Science, 2023, 58, 7839-7867.	3.7	11
1398	Polymer/graphene-derived nanocomposites as advanced marine antifouling coatings. , 2023, , 193-230.		2
1399	Review: Reduced graphene oxide synthesized from bamboo for mild steel anti-corrosion coating in saline water. AIP Conference Proceedings, 2023, , .	0.4	Ο
1400	Eco-Friendly Synthesis of Wrinkle-Free Ultra-Flat Multi-Layer Graphene by Femtosecond Laser Irradiation of Graphite Under Ambient Conditions. IEEE Nanotechnology Magazine, 2023, 22, 252-259.	2.0	0
1401	Three-Dimensional Graphene Aerogel Supported on Efficient Anode Electrocatalyst for Methanol Electrooxidation in Acid Media. Catalysts, 2023, 13, 879.	3.5	6
1402	Interaction of Graphene Oxide Nanoparticles with Human Mesenchymal Stem Cells Visualized in the Cell-IQ System. Molecules, 2023, 28, 4148.	3.8	1
1403	Strain sensing ability of GNP reinforced cementitious composites: The role of exfoliation and interlayer spacing. Construction and Building Materials, 2023, 390, 131593.	7.2	3
1404	Investigation of the microstructure, hardness and electrical conductivity properties of Fe/Graphene compacts. Materials Science and Technology, 2023, 39, 2670-2679.	1.6	0
1405	A review on polyaniline based nanocomposite materials for the fragmentation of phenolics in aqueous system. AIP Conference Proceedings, 2023, , .	0.4	0
1406	A review on graphene in energy devices. AIP Conference Proceedings, 2023, , .	0.4	0
1407	Tensile and rheological characterizations of biaxially stretched polypropylene/multi-walled carbon nanotube composite. AIP Conference Proceedings, 2023, , .	0.4	0
1408	Nanomechanical sensors. , 2023, , 293-298.		0
1409	Synergistic influence of MWCNTs/RGO on low-velocity impact response and mechanical properties of carbon fiber/epoxy composite. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 0, , 239779142311768.	0.6	1
1410	Tailoring the Electron Trapping Effect of a Biocompatible Triboelectric Hydrogel by Graphene Oxide Incorporation towards Self-Powered Medical Electronics. ACS Biomaterials Science and Engineering, 2023, 9, 3712-3722.	5.2	1
1411	Preparation and properties of graphene composite lubricants additive used for cylinder liner in marine diesel burning low sulfur fuel oil. Wear, 2023, 528-529, 204994.	3.1	1

#	Article	IF	CITATIONS
1412	Finite element analysis of the mechanical properties of graphene aluminium nanocomposite: varying weight fractions, sizes and orientation. Carbon Letters, 0, , .	5.9	4
1413	Mechanical, thermal, and electrical properties of amine―and nonâ€functionalized reduced graphene oxide/epoxy carbon fiberâ€reinforced polymers. Polymer Composites, 2023, 44, 4937-4954.	4.6	5
1414	Introduction to Carbocatalysis. , 2023, , 1-42.		0
1415	Surface Termination-Enhanced Magnetism at Nickel Ferrite/2D Nanomaterial Interfaces: Implications for Spintronics. ACS Applied Nano Materials, 2023, 6, 10402-10412.	5.0	0
1416	The role of filler aspect ratio in the reinforcement of an epoxy resin with graphene nanoplatelets. Journal of Materials Science, 2023, 58, 9473-9485.	3.7	3
1417	Lattice thermal conductivity of silicon monolayer in biphenylene network. AIP Advances, 2023, 13, .	1.3	3
1418	Effect of thermal annealing on physical, structural, and performance variation of graphene oxide: A review. Modern Physics Letters B, 2023, 37, .	1.9	2
1419	Molecular simulation investigations on the interaction properties of graphene oxide-reinforced polyurethane nanocomposite toward the improvement of mechanical properties. Materials Today Communications, 2023, 35, 106404.	1.9	1
1420	Magnetic Properties and Hysteresis Behavior of a Ferromagnetic Spin-3/2 System in a Graphene Monolayer. International Journal of Theoretical Physics, 2023, 62, .	1.2	1
1421	Irradiation-cured graphene composite films: a comparison between UV and EB curing. Journal of Coatings Technology Research, 0, , .	2.5	0
1422	Environmental and health impacts of functional graphenic materials and their ultrasonically altered products. NanoImpact, 2023, 31, 100471.	4.5	0
1423	Ultra-thin light-weight laser-induced-graphene (LIG) diffractive optics. Light: Science and Applications, 2023, 12, .	16.6	14
1424	NANOCOMPOSITE MATERIALS BASED ON GRAPHENE, GRAPHENE OXIDE, AND SILVER NANOPARTICLES. , 2023, 3, 163-169.		0
1425	Improved double impact and flexural performance of hybridized glass basalt fiber reinforced composite with graphene nanofiller for lighter aerostructures. Polymer Testing, 2023, 125, 108107.	4.8	1
1426	Adsorption and modification behavior of single atoms on the surface of single vacancy graphene: Machine learning accelerated first principle computations. Applied Surface Science, 2023, 635, 157757.	6.1	6
1429	Directed alignment of graphene-oxide liquid crystals in confined spaces: Effects of flow, pickering stabilization, and phase transition. Journal of Molecular Liquids, 2023, 385, 122384.	4.9	5
1430	Molecular dynamics study of thermal transport properties across covalently bonded graphite-nanodiamond interfaces. Carbon, 2023, 213, 118250.	10.3	2
1431	Classification of waste plastics for dimension-controlled graphene growth on natural mineral substrates in terms of polymer processing and thermal techniques. , 2023, , 117-149.		0

#	Article	IF	CITATIONS
1432	Smart Skins Based on Assembled Piezoresistive Networks of Sustainable Graphene Microcapsules for High Precision Health Diagnostics. Advanced Functional Materials, 2023, 33, .	14.9	3
1433	Improving the Through-Thickness Thermal Conductivity of Carbon Fiber/Epoxy Laminates by Direct Growth of SiC/Graphene Heterostructures on Carbon Fibers. ACS Omega, 0, , .	3.5	0
1434	Multiscale nonlinear dynamics analysis of defective graphene reinforced PMMA composite plates under aerodynamic pressure. Nonlinear Dynamics, 2023, 111, 11851-11884.	5.2	0
1435	Poly(2-hydroxyethyl methacrylate) hydrogels containing graphene-based materials for blood-contacting applications: From soft inert to strong degradable material. Acta Biomaterialia, 2023, 164, 253-268.	8.3	6
1436	Catalytical Performance of Heteroatom Doped and Undoped Carbon-Based Materials. Catalysts, 2023, 13, 823.	3.5	3
1437	Synthesis and characterization of nanostructured graphene-doped selenium. RSC Advances, 2023, 13, 13564-13574.	3.6	1
1438	2D BN-biphenylene: structure stability and properties tenability from a DFT perspective. Physical Chemistry Chemical Physics, 2023, 25, 16018-16029.	2.8	3
1439	display="inline" id="d1e503" altimg="si6.svg"> <mml:msub><mml:mrow  &gt; <mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:mrow </mml:msub> , and g-C <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e511" altimg="si7.svg"&gt;<mml:mrow><mml:msub><mml:mrow< td=""><td>2.4</td><td>0</td></mml:mrow<></mml:msub></mml:mrow></mml:math 	2.4	0
1440	in summary own community of community community community of co-dopants on N-doped graphene oxide based ZnS nanowires for photocatalytic application. Scientific Reports, 2023, 13, .	3.3	6
1441	Effect of graphene oxide coating on bubble dynamics and nucleate pool boiling heat transfer. Advanced Powder Technology, 2023, 34, 104080.	4.1	1
1442	Modeling and Simulations of Multicomponent Hydrogels for Biomedical Applications. , 2023, , 288-312.		0
1443	Probing elastic properties of graphene and heat conduction in graphene bubbles above <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mrow><mml:mn>1000</mml:mn><mml:msup><mn width="0.16em" /&gt;<mml:mo>â~</mml:mo><mml:mi mathyariant="normal"&gt;C</mml:mi </mn </mml:msup></mml:mrow>Physical Review B_2023_107</mml:math 	ıl:mspace	0
1444	Mechanical Properties Optimization of Hybrid Aramid and Jute Fabrics-Reinforced Graphene Nanoplatelets in Functionalized HDPE Matrix Nanocomposites. Polymers, 2023, 15, 2460.	4.5	2
1445	Holes interaction of a graphene membrane under pressure for water desalination. Mechanics of Materials, 2023, 184, 104690.	3.2	0
1446	Electrical and mechanical properties of reduced graphene oxide/CuCrZr composites. Canadian Metallurgical Quarterly, 0, , 1-11.	1.2	0
1447	Carbon nanofiber nanomaterial modified polystyrene enzyme linked immunosorbent assay substrate for detecting osteoporosis. Materials Express, 2023, 13, 910-915.	0.5	0
1448	Largeâ€5cale Molecular Dynamics Elucidates the Mechanics of Reinforcement in Grapheneâ€Based Composites. Advanced Materials, 2023, 35, .	21.0	0
1449	Potential of graphene-based nanomaterials for cardiac tissue engineering. Journal of Materials Chemistry B, 2023, 11, 7280-7299.	5.8	5

#	Article	IF	CITATIONS
1450	Electrodeposition of FeW-graphene composites: Effect of graphene oxide concentration on microstructure, hardness and corrosion properties. FlatChem, 2023, 40, 100525.	5.6	8
1451	Graphene-based concrete: Synthesis strategies and reinforcement mechanisms in graphene-based cementitious composites (Part 1). Construction and Building Materials, 2023, 396, 132296.	7.2	8
1452	Graphene based materials for electrochemical sensing. , 2023, , 159-198.		0
1453	Synthesis of nanocomposites via electropolymerization of aniline onto hydrophilic films from nanocarbon and investigation of their properties. Electrochimica Acta, 2023, 463, 142842.	5.2	0
1454	Rheological studying the effect of reduced graphene oxide nanoparticles on the creep behavior of epoxy coating of pipelines: Part l—Constitutive equations. Journal of Applied Polymer Science, 2023, 140, .	2.6	2
1455	Nanomaterials Based Polymer Composites: Mechanical Properties. , 2023, , 129-145.		Ο
1457	Influence of vacancies on the dielectric characteristics of the hexagonal boron nitride lattice: theoretical study. Journal of Materials Science, 2023, 58, 11711-11722.	3.7	0
1458	Optical Biosensor Based on Surface Plasmon Resonance Nanostructure for the Detection of Mycobacterium Tuberculosis Bacteria with Ultra-High Efficiency and Detection Accuracy. Plasmonics, 2023, 18, 2195-2204.	3.4	3
1459	Mechanical and thermal parameters for modelling of unidirectional glass/epoxy composite cylindrical shells with graphene nanoplatelets. part I: experimental characterisation. Advances in Materials and Processing Technologies, 0, , 1-24.	1.4	0
1460	Free vibrations of cracked functionally graded graphene platelets reinforced Timoshenko beams based on Hu-Washizu-Barr variational method. Engineering Structures, 2023, 293, 116587.	5.3	8
1461	Weldable and electrochemically stable composite of graphene and polyvinylidene fluoride as a current collector for promoting reversible lithium plating/stripping. Journal of Power Sources, 2023, 580, 233401.	7.8	1
1462	Elastocaloric Effect in Graphene Kirigami. Nano Letters, 2023, 23, 8801-8807.	9.1	3
1463	Synthesis and characterization of graphene and its composites for Lithium-Ion battery applications: A comprehensive review. AEJ - Alexandria Engineering Journal, 2023, 78, 224-245.	6.4	8
1464	Antiferromagnetic semiconducting FeCN <sub>2</sub> monolayer with a large magnetic anisotropy and strong magnetic coupling. Physical Chemistry Chemical Physics, 0, , .	2.8	1
1465	Macroscopic negative differential thermal resistance in the overlapping graphene homojunction structure. IScience, 2023, 26, 107493.	4.1	0
1466	Graphene nanoplatelets reinforced Al-Cu-Mg composite fabricated using laser powder bed fusion: microstructure, mechanical properties, and wear behaviour. International Journal of Advanced Manufacturing Technology, 2023, 128, 1597-1613.	3.0	1
1468	Unveiling a new Raman active mode in graphene and its implications for band gap formation: A DFT study. Physica E: Low-Dimensional Systems and Nanostructures, 2023, 154, 115810.	2.7	3
1469	Mechanical properties and role of 2D alkynyl carbon monolayers in the progress of lithium-air batteries. Journal of Energy Storage, 2023, 72, 108558.	8.1	2

#	Article	IF	CITATIONS
1470	Review of tribological properties of polyimide-based composite materials. Industrial Lubrication and Tribology, 0, , .	1.3	0
1471	Enhancing mechanical properties of Al matrix composites via porous reduced graphene oxide strengthened interface. Journal of Alloys and Compounds, 2023, 967, 171671.	5.5	3
1472	Efficient purification of graphite industry wastewater by a combined neutralization-coagulation-flocculation process strategy: Performance of flocculant combinations and defluoridation mechanism. Separation and Purification Technology, 2023, 326, 124771.	7.9	5
1473	Facile preparation of self-healable and recyclable multilayered graphene-based nanocomposites for electromagnetic interference shielding applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 676, 132244.	4.7	7
1474	Transparent single crystal graphene flexible strain sensor with high sensitivity for wearable human motion monitoring. Journal of Alloys and Compounds, 2023, 967, 171724.	5.5	2
1475	Nonâ€covalent interactions between ionic liquid and graphene nanoplatelets as a tool to fine tune the properties of styrene butadiene rubber nanocomposites. Journal of Applied Polymer Science, 2023, 140, .	2.6	0
1476	Greenly growing carbon nanotubes on graphene for high-performance lithium–sulfur batteries. Materials Today Energy, 2023, 37, 101389.	4.7	5
1477	Non-linear vibration and parametric optimization of sandwich composite curved shell panels with graphene reinforced skins and auxetic honeycomb core. Mechanics Based Design of Structures and Machines, 0, , 1-30.	4.7	1
1478	Dynamic Properties of Graphene Oxide Functionalized with <scp>l</scp> -Cysteine. Journal of Physical Chemistry C, 2023, 127, 17438-17453.	3.1	1
1479	The micromechanics of graphene oxide and molybdenum disulfide in thermoplastic nanocomposites and the impact to the polymer-filler interphase. Composites Science and Technology, 2023, , 110236.	7.8	0
1480	Molecular modelling of graphene nanoribbons on the effect of porosity and oxidation on the mechanical and thermal properties. Journal of Materials Science, 2023, 58, 13295-13316.	3.7	1
1481	Accurate determination of stiffness and strength of graphene via AFM-based membrane deflection. Measurement Science and Technology, 2023, 34, 125027.	2.6	1
1482	Polymer Mixtures for Experimental Self-Limited Dental Burs Development—A Preliminary Approach (Part 1). Journal of Functional Biomaterials, 2023, 14, 447.	4.4	0
1483	Effects of graphene pullâ€out on the interfacial mechanical properties of alumina/graphene nanocomposite ceramic tool materials: Molecular dynamics analysis and material preparation. International Journal of Applied Ceramic Technology, 2024, 21, 451-464.	2.1	0
1484	Fabricating a low-temperature synthesized graphene-cellulose acetate-sodium alginate scaffold for the generation of ovarian cancer spheriod and its drug assessment. Nanoscale Advances, 0, , .	4.6	0
1485	Recent Advancements in Applications of Graphene to Attain Next-Level Solar Cells. Journal of Carbon Research, 2023, 9, 70.	2.7	2
1486	State-of-the-Art Review of Computational Static and Dynamic Behaviors of Small-Scaled Functionally Graded Multilayer Shallow Arch Structures from Design to Analysis. Archives of Computational Methods in Engineering, 0, , .	10.2	2
1487	Polymer nanocomposite adhesives with internal nano-heaters to facilitate multilayer laminate separation. Composites Science and Technology, 2023, 243, 110271.	7.8	0

#	Article	IF	CITATIONS
1488	A comprehensive review of fabrication techniques and their impact on mechanical behaviour and osteoregenerative applications of bioactive inorganic substituents. Materials Research Letters, 2023, 11, 821-855.	8.7	1
1489	Building a better bone: The synergy of 2D nanomaterials and 3D printing for bone tissue engineering. Materials and Design, 2023, 234, 112362.	7.0	2
1490	Advances in nanocomposite organic coatings for hydraulic fracturing proppants. , 2023, 118, 205103.		2
1491	Graphene-based RRAM devices for neural computing. Frontiers in Neuroscience, 0, 17, .	2.8	1
1492	Nano-bio fusion: Advancing biomedical applications and biosensing with functional nanomaterials. Optics and Laser Technology, 2024, 168, 109938.	4.6	3
1493	Recent progressive developments in conductive-fillers based polymer nanocomposites (CFPNC's) and conducting polymeric nanocomposites (CPNC's) for multifaceted sensing applications. Journal of Materials Research and Technology, 2023, 26, 5921-5974.	5.8	14
1494	Low clinker systems - Towards a rational use of SCMs for optimal performance. Cement and Concrete Research, 2023, 174, 107312.	11.0	5
1495	Analytic modelling of quantum capacitance and carrier concentration for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si40.svg" display="inline" id="d1e14213"&gt;<mml:msub><mml:mrow><mml:mi>l²</mml:mi></mml:mrow><mml:mrow><mml:mn>12FET based gas sensor. Physica B: Condensed Matter. 2023. 669. 415262.</mml:mn></mml:mrow></mml:msub></mml:math 	l:mn≀ <td>ml:mrow&gt;</td>	ml:mrow>
1496	Multivariate chemical analysis: From sensors to sensor arrays. Chinese Chemical Letters, 2023, , 109167.	9.0	0
1497	Connecting mechanical properties to hydrogen defects in PAN-based carbon fibers. Physical Review Materials, 2023, 7, .	2.4	0
1498	Graphene/Metal Oxide-Based Nanocomposite for Electrochemical Sensors. Progress in Optical Science and Photonics, 2023, , 331-370.	0.5	0
1499	High energy region formation with increased electron density located on the MoS2 layer within MoS2/Gr heterostructure induced by C60 decoration. Surfaces and Interfaces, 2023, 41, 103237.	3.0	1
1500	Microstructures and Mechanical Properties of Dimethyl Sulfoxide Pretreated Graphene Modified Asphalt. Journal of Materials in Civil Engineering, 2023, 35, .	2.9	0
1501	Essential role of graphene and graphene-based reverse osmosis membrane in water desalination and purification. Advances in Chemical Pollution, Environmental Management and Protection, 2023, , .	0.5	0
1502	Graphene oxide based multifunctional nano composite for cancer theranostics: Present clinical and regulatory breakthroughs. AIP Conference Proceedings, 2023, , .	0.4	0
1503	Application of graphene and its derivatives in medicine: A review. Materials Today Communications, 2023, 37, 107054.	1.9	2
1504	Investigations on the mechanical and damping properties of styrene-butadiene rubber with graphene and carbon black. FME Transactions, 2023, 51, 386-395.	1.4	0
1505	The Current Progresses and Future Perspectives of Photoreactors and Catalysts Used in Photocatalytic Reduction of CO <sub>2</sub> . Industrial & Engineering Chemistry Research, 2023, 62, 15699-15732.	3.7	0

#	Article	IF	CITATIONS
1506	Fluorosilicone Composites with Functionalized Graphene Oxide for Advanced Applications. ACS Applied Polymer Materials, 2023, 5, 7755-7765.	4.4	2
1507	Additive Manufacturing of Flexible Strain Sensors Based on Smart Composites for Structural Health Monitoring with High Accuracy and Fidelity. Advanced Engineering Materials, 2023, 25, .	3.5	2
1508	Response of interlayer-bonded bilayer graphene to shear deformation. Journal of Applied Physics, 2023, 134, .	2.5	0
1509	Broad-Band Photodetector Based on a Lateral MoTe <sub>2</sub> 1T-2H-1T Homojunction. Journal of Physical Chemistry C, 2023, 127, 20072-20081.	3.1	1
1510	Electrochemical Exfoliation of Graphene Oxide: Unveiling Structural Properties and Electrochemical Performance. Chemistry - A European Journal, 0, , .	3.3	0
1511	Bioinspired Design Rules from Highly Mineralized Natural Composites for Two-Dimensional Composite Design. Biomimetics, 2023, 8, 500.	3.3	1
1513	Graphene: A State-of-the-Art Review of Types, Properties and Applications in Different Sectors. , 2023, 2, 98-139.		1
1514	Preferential formation of stereocomplex crystals in poly(L-lactic acid)/poly(D-lactic acid) blends by a fullerene nucleator. International Journal of Biological Macromolecules, 2023, 253, 127230.	7.5	Ο
1515	Graphene-based Nanocomposites for Detection of Small Biomolecules (AA, DA, UA, and Trp). , 2023, , 513-567.		1
1516	Observation of defect density dependent elastic modulus of graphene. Applied Physics Letters, 2023, 123, .	3.3	1
1517	Superior enhancement in thermal conductivity of epoxy/graphene nanocomposites through use of dimethylformamide (DMF) relative to acetone as solvent. MethodsX, 2023, 11, 102319.	1.6	0
1518	Critical factors on corrosion protective waterborne coatings containing functionalized graphene oxide: A review. Composites Part A: Applied Science and Manufacturing, 2023, 174, 107729.	7.6	3
1519	Graphene Nanoparticles and Their Derivatives for Oil Spill Treatment. Materials Horizons, 2023, , 229-249.	0.6	1
1520	SiC-based Ceramic Materials Incorporating GNPs Array: Preparation and Mechanical Characterization. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2024, 39, 267.	1.3	Ο
1521	An improved pull-out model for the composites with curved reinforcement. International Journal of Mechanical Sciences, 2024, 262, 108733.	6.7	0
1522	Introduction to Carbon Nanostructures: History, Classifications, and Recent Advances. , 2023, , 1-54.		Ο
1523	The potential of nanocomposite-based coatings for corrosion protection of metals: A review. Journal of Molecular Liquids, 2023, 390, 123067.	4.9	7
1524	Nitrogen and aluminum-nitrogen doped graphene for non-volatile resistive memory applications. Materials Today Communications, 2023, 37, 107154.	1.9	0

#	ARTICLE Application of Ultrasonic Technique for Cure Monitoring of Epoxy/Graphene Oxide–Carbon	IF	CITATIONS
1525	Nanotubes Composites. Applied Composite Materials, 2024, 31, 61-81.	2.5	0
1526	Design and characterization of novel 2D TlPt2X3 (XÂ=ÂS, Se, Te) semiconductor monolayers for electronic and optoelectronic applications. Materials Today Communications, 2023, 37, 107163.	1.9	0
1527	Jahn–Teller Effects and Spintronic Behaviors in a Ti-Doped ScSI Monolayer. ACS Applied Electronic Materials, 2023, 5, 5564-5572.	4.3	0
1528	Graphene-containing para aramid fabric coating via surfactant assisted exfoliation of graphite. Materials Today: Proceedings, 2023, , .	1.8	0
1530	The Application of Graphene in the Field of Electronics and Electricity. , 2023, , .		0
1532	Molecular metal oxide cluster-soldered interpenetrating polymer network "hosts―carbon nanotube "guest―for green millimeter wave absorption. Journal of Materials Chemistry C, 2023, 11, 14725-14745.	5.5	0
1533	Investigating the mechanical performance of graphene reinforced polymer nanocomposites via atomistic and continuum simulation approaches. Polymer, 2023, 286, 126379.	3.8	0
1534	Synthesis and characterization of novel hybrid composites using nanofiller-nanofibrous coating for industrial applications. Journal of Engineering Research, 2023, , .	0.7	1
1535	Transmission through graphene of electrons in the 30 – 900 eV range. Carbon, 2024, 216, 118502.	10.3	1
1536	Effect of graphene on the tribological behavior of Ti6Al6V2Sn/Gn composite produced via microwave sintering. International Journal of Lightweight Materials and Manufacture, 2024, 7, 1-13.	2.1	0
1537	Template based synthesis of mesoporous ferrite composites with reduced graphene oxide for Electromagnetic shielding application. Applied Surface Science Advances, 2023, 18, 100463.	6.8	3
1538	Assessment of antioxidant activity of pure graphene oxide (GO) and composite V2O5/GO using DPPH radical and H2O2 scavenging assays. Journal of Sol-Gel Science and Technology, 2023, 108, 840-849.	2.4	2
1539	Experimental Assessment of the Mechanical Performance of Graphene Nanoplatelets Coated Polymers. Advanced Engineering Materials, 2023, 25, .	3.5	0
1540	Modulation of spin and charge currents through functionalized 2D diamond devices. Nanotechnology, 0, , .	2.6	0
1541	Blend of Styrene Butadiene Rubber/Natural Rubber with Graphene Inclusion (BR/NR/GE): A review. South African Journal of Science and Technology, 2022, 41, 58-63.	0.1	0
1543	Development of V2O5@GO (1D/2D) nanohybrid based chemiresistor for low-trace of toluene. Sensors and Actuators B: Chemical, 2024, 400, 134817.	7.8	2
1544	Machine Learning Approach on the Prediction of Mechanical Characteristics of Pristine, Boron Doped and Nitrogen Doped Graphene. Physica Scripta, 0, , .	2.5	0
1545	Exploring the World of Graphene Nanocomposites: Properties, Applications, and Progress. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
1546	Exploring optimal graphene slit-pore width for the physical separation of water-methanol mixture. Journal of Molecular Liquids, 2023, 391, 123356.	4.9	0
1547	Ionic liquid/metal salt mixtures at the graphene interface: A density functional theory approach. Journal of Molecular Liquids, 2023, 392, 123460.	4.9	0
1548	Graphene-based electromechanically tunable subwavelength mid-IR perfect absorber. Optical and Quantum Electronics, 2023, 55, .	3.3	1
1549	Effect of Nanocarbon on the Structural and Mechanical Properties of 6061 Aluminum Composites by Powder Metallurgy. Nanomaterials, 2023, 13, 2917.	4.1	0
1550	Advancements in aluminum matrix composites reinforced with carbides and graphene: A comprehensive review. Nanotechnology Reviews, 2023, 12, .	5.8	2
1551	Synthesis, characterization and biocompatibility of glycine modified graphene oxide. Fullerenes Nanotubes and Carbon Nanostructures, 2024, 32, 288-299.	2.1	0
1552	Prospects of MXene and graphene for energy storage and conversion. Renewable and Sustainable Energy Reviews, 2024, 189, 114030.	16.4	2
1553	Modification strategies of TiO2 based photocatalysts for enhanced visible light activity and energy storage ability: A review. Journal of Environmental Chemical Engineering, 2023, 11, 111532.	6.7	5
1554	Effect of the Graphene Quantum Dot Content on the Thermal, Dynamic-Mechanical, and Morphological Properties of Epoxy Resin. Polymers, 2023, 15, 4531.	4.5	0
1555	Solvent-free transfer of monolayer graphene with recrystallized cyclododecane. Applied Physics Letters, 2023, 123, .	3.3	1
1556	Effects of carbon-based nanofillers on mechanical, electrical, and thermal properties of bast fiber reinforced polymer composites. Journal of Thermoplastic Composite Materials, 0, , .	4.2	1
1557	Mechanically robust, transparent, and UV-shielding composite of Na-Alginate and maleic acid-functionalized boron nitride nanosheets with improved antioxidant property. Colloids and Surfaces B: Biointerfaces, 2024, 233, 113641.	5.0	1
1558	Rational Design of Stimuliâ€Responsive Inorganic 2D Materials via Molecular Engineering: Toward Moleculeâ€Programmable Nanoelectronics. Advanced Materials, 2024, 36, .	21.0	1
1559	Influence of processing techniques on mechanical and electrical performance of PLA-graphene composite feedstock filaments. Journal of Manufacturing Processes, 2023, 108, 513-528.	5.9	0
1560	Elastic properties and mechanical stability of bilayer graphene: molecular dynamics simulations. European Physical Journal B, 2023, 96, .	1.5	0
1561	One-step process to obtain manganese-assisted laser-induced multi-layer graphene-like carbon supercapacitor. Electrochimica Acta, 2024, 474, 143505.	5.2	1
1562	Plasma modification of graphene nanoplatelets surfaces. , 2023, 18, .		0
1563	Fabrication and Application of Graphene-Composite Materials. Advances in Material Research and Technology, 2024, , 391-421.	0.6	0

#	Article	IF	CITATIONS
1564	Engineering the magnetic properties of acrylonitrile butadiene styreneâ€based composites with magnetic nanoparticles. Polymer Composites, 2024, 45, 2532-2545.	4.6	0
1565	Laser-induced graphene in flexible PI/PDMS polymer aiming application in pressure sensors. , 2023, , .		0
1566	Real-time evaluating temperature-dependent interfacial shear strength of thermoplastic composites based on stress impedance effect of magnetic fibers. Composites Part A: Applied Science and Manufacturing, 2024, 176, 107874.	7.6	1
1567	Development of Graphene-Based Functional Coating for the Surface Modification of Textiles. Materials Science Forum, 0, 1104, 77-85.	0.3	0
1568	Spontaneous hydrogen production on well-designed two-dimensional MoSi2N2P2 Janus structure: N-face versus P-face tuning. International Journal of Hydrogen Energy, 2024, 51, 1060-1069.	7.1	0
1569	Experimental Investigation on Electrical Conductivity, Dielectric Properties, and EMI Shielding Effectiveness of NiP/Graphene-Coated Natural Fiber. Journal of Electronic Materials, 0, , .	2.2	0
1570	Electrical Conductivity Characteristics of Nanoparticle-Reinforced Polymers Produced by Additive Manufacturing. , 2024, , 331-334.		0
1571	Two-dimensional problem of an infinite matrix reinforced with a Steigmann–Ogden cylindrical surface of circular arc cross-section. International Journal of Engineering Science, 2024, 194, 103986.	5.0	0
1572	Preparation and Properties of Graphene/ODA-PMDA-NTADA Copolyimide Nanocomposites Based onKH550-modification. Journal of Physics: Conference Series, 2023, 2639, 012039.	0.4	0
1573	Mechanics and Crack Analysis of Irida Graphene Bilayer Composite: A Molecular Dynamics Study. Journal of Composites Science, 2023, 7, 490.	3.0	0
1574	Elevating mechanical and biotribological properties of carbon fiber composites by constructing graphene-silicon nitride nanowires interlocking interfacial enhancement. Journal of Materiomics, 2023, , .	5.7	0
1575	Comparison of physical and chemical vapor deposition for magnesium intercalation underneath epitaxial graphene. Journal of Crystal Growth, 2024, 627, 127521.	1.5	0
1576	Flexible nanomechanical bit based on few-layer graphene. Physical Chemistry Chemical Physics, 0, , .	2.8	0
1577	Robust large-area molecular junctions based on transparent and flexible electrodes. Journal of Materials Chemistry C, 0, , .	5.5	0
1579	Photonics applications of graphdiyne: Advancements in photoelectric characteristics and exploration of ultrafast pulse lasers. Infrared Physics and Technology, 2024, 136, 105055.	2.9	0
1580	Anti-corrosion and flame-retardant properties of environmentally benign smart functionalized WS2/rGO in epoxy coatings for enhanced steel structural protection in natural seawater. Materials Today Communications, 2024, 38, 107842.	1.9	0
1581	High-performance self-driven ultraviolet-visible photodetector based on type-II WS2/ReSe2 van der Waals heterostructure. Journal of Alloys and Compounds, 2024, 976, 173122.	5.5	0
1582	Liquid-Phase Exfoliation of Graphite in a Low-Boiling-Point Solvent Using 2,6-Azulene-Based Conjugated Copolymers as Stabilizers. ACS Applied Polymer Materials, 0, , .	4.4	0

#	Article	IF	CITATIONS
1583	Evidencing contributions arising from disorder-rich rhombohedral stacking-order regions in S-doped carbon nanotube buckypapers. Diamond and Related Materials, 2024, 141, 110647.	3.9	0
1584	Unveiling the CO <mml:math si22.svg<br="" xmins:mml="http://www.w3.org/1998/Math/MathML_altimg=">display="inline" id="d1e625"&gt;<mml:msub><mml:mrow /&gt;<mml:mrow></mml:mrow></mml:mrow </mml:msub></mml:math> adsorption capabilities of biphenylene network monolayers through DFT calculations. Computational Materials Science, 2024,	3.0	0
1585	Development of graphene and graphene quantum dots toward biomedical engineering applications: A review. Nanotechnology Reviews, 2023, 12, .	5.8	1
1586	Graphene-based nanomaterials for peripheral nerve regeneration. Frontiers in Bioengineering and Biotechnology, 0, 11, .	4.1	1
1587	Quasi–1D Anhydrite Nanobelts from the Sustainable Liquid Exfoliation of Terrestrial Gypsum for Future Martianâ€Based Electronics. Advanced Functional Materials, 0, , .	14.9	0
1588	When graphene meets circular agriculture: Insights into agricultural sustainable development. Biosystems Engineering, 2024, 237, 92-117.	4.3	0
1589	Additive manufacture of ultrasoft bioinspired metamaterials. International Journal of Machine Tools and Manufacture, 2024, 195, 104101.	13.4	0
1590	Uses of aero graphene and CNT in modern aircraft. AIP Conference Proceedings, 2023, , .	0.4	0
1591	Micromechanics of Ti3C2Tx MXene reinforced poly(vinyl alcohol) nanocomposites. Composites Part C: Open Access, 2024, 13, 100427.	3.2	1
1592	Computer Modeling of Graphene Moir $ ilde{A}$ © Pattern on Al(111) Surface. , 2023, , .		0
1593	On the problem of a Gurtin–Murdoch cylindrical material surface embedded in an infinite matrix. International Journal of Solids and Structures, 2024, 288, 112617.	2.7	0
1594	Efficient one-pot two-step electrochemical synthesis of highly oxidized graphene oxide for enhanced energy and environmental applications: Structure elucidation through DFT simulations. Carbon, 2024, 218, 118722.	10.3	1
1595	Investigation of smart graphene oxide multilayer nanocoating for improved steel structural protection in natural seawater. Journal of Materials Science, 0, , .	3.7	0
1596	Comprehensive 3-D homogenization approach for predicting mechanical properties and creep behavior of polymer nanocomposites reinforced with graphene nanoplatelets. Composite Structures, 2024, 330, 117823.	5.8	0
1597	Effect of surface modification of graphene oxide with a reactive silane coupling agent on the mechanical properties and biocompatibility of acrylic bone cements. Journal of Biomaterials Science, Polymer Edition, 2024, 35, 345-363.	3.5	0
1598	Bicrystallography-informed Frenkel–Kontorova model for interlayer dislocations in strained 2D heterostructures. Mechanics of Materials, 2024, 190, 104903.	3.2	0
1599	A Micromechanical Study of Interactions of Cyanate Ester Monomer with Graphene or Boron Nitride Monolayer. Materials, 2024, 17, 108.	2.9	0
1600	Influence of structural defect and sample size on thermal conductivity of gallium selenide/graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2024, 158, 115886.	2.7	1

ARTICLE IF CITATIONS # Recent advances on materials and technologies of composite bipolar plate for proton exchange 1601 7.8 0 membrane fuel cell. Journal of Power Sources, 2024, 594, 234009. Present Status and Perspectives of Graphene and Grapheneâ€related Materials in Cultural Heritage. 14.9 Advanced Functional Materials, 2024, 34, . Future prospects of MXenes: synthesis, functionalization, properties, and application in field effect 1603 0 4.6 transistors. Nanoscale Advances, 2024, 6, 367-385. Preparation of EPDM/silicon nanofibers-graphene nanocomposites with enhanced interfacial 1604 3.9 structure: Highly reinforcing and stabilizing effect. Diamond and Related Materials, 2023, 140, 110564. The potential of graphene coatings as neural interfaces. Nanoscale Horizons, 2024, 9, 384-406. 1605 8.0 1 The Integration of Two-Dimensional Materials and Ferroelectrics for Device Applications. ACS Nano, 2024, 18, 1778-1819. 14.6 Influence of multifunctional graphene oxide and silanized vanadium nitride in polyurethane coatings 1607 for the protection of aluminium alloy in aerospace industries. Diamond and Related Materials, 2024, 3.9 0 142, 110792. Microwave Electromagnetic Shielding with Free-Standing Composites Based on Graphene Oxide and 1608 Silver Nanowires., 2023,,. Prediction of mechanical properties of phagraphene nanosheets and nanotubes: A molecular dynamics 1610 3.0 0 study. Computational Materials Science, 2024, 233, 112770. Obtaining Hybrid Nanostructures Based on Graphene and Nano-ZrO2. Inorganic Materials: Applied Research, 2023, 14, 526-535. Role of 1D edge in the elasticity and fracture of h-BN doped graphene nanoribbons. Materials Research 1612 0 1.6 Express, 2024, 11, 015007. A new multi-functional Cd(II)-organic framework as a platform for high selective fluorescence 3.6 sensing and dye adsorption. Journal of Molecular Structure, 2024, 1302, 137528. Intermolecular interactions in graphene and oxidized graphene nanocomposites. Composites Science 1614 7.8 0 and Technology, 2024, 248, 110433. Facile synthesis of nitrogen-doped reduced graphene oxide/zinc oxide nanocomposites for enhanced room-temperature ammonia gas detection. Journal of Materials Science: Materials in Electronics, 2.2 2024, 35, . Dynamic penetration behaviors of graphene origami under high-velocity impact. Journal of Materials 1616 10.7 0 Science and Technology, 2024, 190, 33-41. Enhancement of strength-plasticity synergy in a graphene metallic glass composite. Intermetallics, 3.9 2024, 166, 108199. Contactâ€Based and Proximally Thermosensitive Fewâ€Layer Graphene Ntc Thermistors with Highly Fast 1618 5.10 Switching Behavior. Advanced Electronic Materials, 2024, 10, . 1619 Nanomaterials: fundamentals and applications., 2024, , 403-436.

#	Article	IF	CITATIONS
1620	Strain-controlled charge and spin current rectifications in spin–orbit coupled graphene nano-ribbon: A new proposition. Journal of Applied Physics, 2024, 135, .	2.5	0
1621	2D graphene-based advanced nanoarchitectonics for electrochemical biosensors: Applications in cancer biomarker detection. Biosensors and Bioelectronics, 2024, 250, 116050.	10.1	Ο
1622	A highly ductile carbon material made of triangle rings: A study of machine learning. Applied Physics Letters, 2024, 124, .	3.3	0
1623	Friction Stir Welding and Processing. Materials Forming, Machining and Tribology, 2024, , 1-10.	1.1	Ο
1624	Graphene Nanoplatelet-Reinforced Aluminum Matrix Composites. Materials Forming, Machining and Tribology, 2024, , 337-384.	1.1	0
1625	Optimizing pollutant removal ability of GO/ZnO nanocomposites via controlled GO treatment and ZnO NPs content. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2024, 302, 117202.	3.5	0
1626	Anti-corrosion Aluminum Matrix Composites. Materials Forming, Machining and Tribology, 2024, , 385-426.	1.1	0
1627	Boron Nitride and Its Hybrids: Synthesis, Properties and Potential Applications. Engineering Materials, 2024, , 1-29.	0.6	0
1629	Enhanced photoelectric performance of ZnFe2O4 catalysts for oxidative carboxylation of styrene by tuning crystal planes and thermal and electrical conductivity. Journal of Cleaner Production, 2024, 440, 141002.	9.3	0
1630	Electrical conductivity analysis of extrusion-based 3D-printed graphene. Frontiers in Materials, 0, 11, .	2.4	0
1631	Atıklardan Grafen Ve Türevlerinin Sentezlenmesi Üzerine Bir Değerlendirme. International Journal of Advances in Engineering and Pure Sciences, 2024, 36, 103-115.	0.8	0
1632	Progress and prospects in two-dimensional magnetism of van der Waals materials. Progress in Quantum Electronics, 2024, 93, 100498.	7.0	0
1633	Aerosol-assisted synthesis of 3D hybridized reduced graphene oxide-carbon nanotube composite microsphere with cobalt-iron selenide nanocrystal as anode materials for potassium-ion batteries. Journal of Energy Storage, 2024, 83, 110683.	8.1	0
1634	Progress in polyacrylateâ€based electrically conductive adhesives: Featured properties, preparation, applications, and perspectives. Polymer Composites, 2024, 45, 5781-5803.	4.6	0
1635	Electric Fieldâ€induced Orientation of Carbon Nanomaterials in Dispersions. ChemistrySelect, 2024, 9, .	1.5	0
1636	Damage Detection and Prediction of Ultrasonic Behaviours in Piezoelectric Materials Using Hybrid Deep Convolutional Neural Network. Integrated Ferroelectrics, 2024, 240, 181-198.	0.7	0
1637	Investigating the Metallic Nanoparticles Decoration on Reduced Graphene Oxide-Based Sensors Used to Detect Sulfur Dioxide. Chemosensors, 2024, 12, 24.	3.6	0
1638	Plastic Composites from Repurposed Poly(ethylene terephthalate) Wasted Functionalized Graphene Oxide through Dynamic Depolymerization. ACS Applied Nano Materials, 2024, 7, 3691-3701.	5.0	0

#	Article		CITATIONS
1639	Mechanism of gas barrier improvement of graphene/polypropylene nanocomposites for new-generation light-weight hydrogen storage. Composites Science and Technology, 2024, 249, 110483.	7.8	0
1640	Synergistic effect of interface and agglomeration on Young's modulus of graphene-polymer nanocomposites. International Journal of Solids and Structures, 2024, 292, 112716.	2.7	1
1641	Large-scale smart bioreactor with fully integrated wireless multivariate sensors and electronics for long-term in situ monitoring of stem cell culture. Science Advances, 2024, 10, .	10.3	1
1642	Theoretical evaluation of surface oxidation effects on resin dynamics at the carbon fibre-resin interface. Materials Today Communications, 2024, 38, 108379.	1.9	0
1643	Enhancing the Strength of Acrylonitrile–Butadiene–Styrene with Gas-Phase-Synthesized Graphene for Injection-Molding Applications. ACS Applied Nano Materials, 2024, 7, 4653-4657.	5.0	0
1644	Mechanical behavior of carbon/glass polypropylene hybrid composites. Polymer Composites, 0, , .	4.6	0
1645	Synthesis and Characterization of Graphene-Doped Co3O4 Nanotubes Electrode Material for Supercapacitor Application. Journal of Inorganic and Organometallic Polymers and Materials, 0, , .	3.7	0
1646	Mechanically Robust Selfâ€Organized Crackâ€Free Nanocellular Graphene with Outstanding Electrochemical Properties in Sodium Ion Battery. Advanced Materials, 0, , .	21.0	0
1647	Elastic properties and tensile strength of 2D Ti3C2Tx MXene monolayers. Nature Communications, 2024, 15, .	12.8	0
1648	Investigating Mechanical, Viscoelastic, and Tribological Properties of PA6/HDPE + GO Polymer Blend Nanocomposites. Journal of Materials Engineering and Performance, 0, , .	2.5	0
1649	Simulation and experimental evaluation of laser-induced graphene on the cellulose and lignin substrates. Scientific Reports, 2024, 14, .	3.3	0
1650	Biocomposites with graphene derivatives. , 2024, , 149-166.		0
1651	Promoting the carrier mobility of Nb2SiTe4 through cation coordination engineering. Applied Physics Letters, 2024, 124, .	3.3	0
1652	Effect of Î <sup>2</sup> -alanine modified graphene oxide on separation properties of thin film nanocomposite membrane in water desalination. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024, 687, 133562.	4.7	Ο
1653	Review of Laser-Induced Graphene (LIG) Produced on Eco-Friendly Substrates. International Journal of Precision Engineering and Manufacturing - Green Technology, 0, , .	4.9	0
1654	The role of twinning and stacking fault-induced plasticity on the mechanical properties of aluminum-lithium-graphene nanocomposites. Nanocomposites, 2024, 10, 91-107.	4.2	0
1655	A study on graphene nanoplatelet dispersion methods and their effects on coating abrasion resistance and surface properties. Progress in Organic Coatings, 2024, 189, 108352.	3.9	0
1656	Hybrid functional membranes through layer-by-layer assembly of Ti3C2Tx MXene and gelatin-stabilized calcium phosphate nanospheres. Applied Materials Today, 2024, 37, 102144.	4.3	0

#	Article	IF	CITATIONS
1657	Graphene-containing biocarbon from burlap waste: Property comparison with commercial grade graphene nanoplatelets. Carbon Trends, 2024, 15, 100336.	3.0	0
1658	Graphene-Based Fuel Cells. Engineering Materials, 2024, , 237-255.	0.6	0
1659	Introduction to Nanocarbon. Engineering Materials, 2024, , 1-15.	0.6	0
1660	Recent advances in anticorrosive coatings based on sustainable polymers: Challenges and perspectives. Surface and Coatings Technology, 2024, 480, 130596.	4.8	0
1661	<scp>Electroâ€bioâ€mechanical</scp> behavior of graphite nanoplatelets–silicone rubberâ€based composites for wearable electronic systems. Journal of Applied Polymer Science, 2024, 141, .	2.6	0
1663	Quick and easy process for producing graphene material in liquid phase using high-power-density ultrasonication technique for preparing high microhardness nickel/graphene composite coating. Bulletin of Materials Science, 2024, 47, .	1.7	0
1664	A unified strength criterion of diamane grain boundaries. Extreme Mechanics Letters, 2024, 68, 102146.	4.1	0
1665	Decoding the origins of strength anisotropy in two-dimensional materials. International Journal of Solids and Structures, 2024, 294, 112762.	2.7	0
1666	Thermonanomechanics of graphene oxide-M13 bacteriophage nanocomposites -towards graphene-based nanodevices. Carbon Trends, 2024, 15, 100343.	3.0	0
1667	Piezoelectric response and ferromagnetic order in 2D Janus FeGeN3. Applied Physics Letters, 2024, 124, .	3.3	0
1668	Physics-driven neural networks for nonlinear micromechanics. International Journal of Mechanical Sciences, 2024, 273, 109214.	6.7	0
1669	Rashba spin-splitting and spin Hall effect in Janus monolayers Sb2XSX' (X, X'= S, Se, or Te; X ≠X'). Journal of Applied Physics, 2024, 135, .	2.5	0
1670	Ultrasonic-assisted synthesis of CaCu3Ti4O12/reduced graphene oxide composites for enhanced photocatalytic degradation of pharmaceutical products: Ibuprofen and Ciprofloxacin. Environmental Science and Pollution Research, 2024, 31, 27770-27788.	5.3	0
1671	High-performance micro supercapacitor assembled by laser-induced graphene electrode and hydrogel electrolyte with excellent interfacial wettability for high capacitance. Journal of Power Sources, 2024, 602, 234307.	7.8	0
1672	Influence of graphene nanoplates and titanium diboride particulate on wear and interfacial bonding properties of sintered aluminium alloy composites. Diamond and Related Materials, 2024, 144, 111035.	3.9	0
1674	Investigating the thermally induced p-n transition in reduced graphene oxide layers exposed to hydrogen sulfide. Sensors and Actuators B: Chemical, 2024, 409, 135611.	7.8	0
1675	Moiré pattern features-dominated the inception of plasticity and strain hardening in graphene/Al multilayers. Materials Today Communications, 2024, 39, 108659.	1.9	0
1676	Mixed matrix and nanocomposite membranes. , 2024, , 225-266.		0

		CITATION REPORT		
#	Article		IF	CITATIONS
1677	Effect of Strain Rate, Temperature, Vacancy, and Microcracks on Mechanical Properties of 8-16-4 Graphyne. Nanomaterials, 2024, 14, 556.		4.1	0
1678	Synthesis of graphene oxide: Effect of sonication during oxidation. Carbon, 2024, 223, 119047.		10.3	0
1679	Comparative toxicological analysis of two pristine carbon nanomaterials (graphene oxide and) Tj E	TQq0 0 0 rgBT	Overlock	10 Tf 50 667
	Toxicology, 2024, 504, 153783.		4.2	0
1680	A Study of the Adsorption Properties of Individual Atoms on the Graphene Surface: Density Function Theory Calculations Assisted by Machine Learning Techniques. Materials, 2024, 17, 1428.	onal	2.9	0
1681	Mechanical response of monolayer graphene via a multi-probe approach. International Journal of Mechanical Sciences, 2024, 273, 109208.		6.7	0
1682	Topological and superconducting properties of two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mrow><mml:msub><mml:mi mathvariant="normal"&gt;C<mml:mrow><mml:mn>6</mml:mn><mml:mo>â^'</mml:mo> biphenylene network: First-principles investigation. Physical Review B. 2024, 109.</mml:mrow></mml:mi </mml:msub></mml:mrow></mml:math 	<mml:mn>2<td>រញ់<mark>រ</mark>ុះភ្នាក&gt; &lt;</td><td>m<b>ml:</b>mi&gt;x</td></mml:mn>	រញ់ <mark>រ</mark> ុះភ្នាក> <	m <b>ml:</b> mi>x
1679 1680 1681 1682	Comparative toxicological analysis of two pristine carbon nanomaterials (graphene oxide and) Tj E Toxicology, 2024, 504, 153783. A Study of the Adsorption Properties of Individual Atoms on the Graphene Surface: Density Function Theory Calculations Assisted by Machine Learning Techniques. Materials, 2024, 17, 1428. Mechanical response of monolayer graphene via a multi-probe approach. International Journal of Mechanical Sciences, 2024, 273, 109208. Topological and superconducting properties of two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mrow><mml:msub><mml:mi mathvariant="normal"&gt;C<mml:mrow><mml:mn>6</mml:mn><mml:mo>â<sup>^</sup></mml:mo> biphenylene network: First-principles investigation. Physical Review B. 2024. 109.</mml:mrow></mml:mi </mml:msub></mml:mrow></mml:math 	TQq0 0 0 rgBT / onal <mml:mn>2<td>/Overlock 4.2 2.9 6.7</td><td>10 Tf 50 o o mml:mi</td></mml:mn>	/Overlock 4.2 2.9 6.7	10 Tf 50 o o mml:mi