

Raman spectroscopy in graphene

Physics Reports

473, 51-87

DOI: [10.1016/j.physrep.2009.02.003](https://doi.org/10.1016/j.physrep.2009.02.003)

Citation Report

#	ARTICLE	IF	CITATIONS
13	Kohn anomalies in graphene nanoribbons. <i>Physical Review B</i> , 2009, 80, .	1.1	44
14	Quantized long-wavelength optical phonon modes in graphene nanoribbon in the elastic continuum model. <i>Superlattices and Microstructures</i> , 2009, 46, 881-888.	1.4	24
15	Observation of the Kohn anomaly near the K point of bilayer graphene. <i>Physical Review B</i> , 2009, 80, .	1.1	32
16	Current regulation of universal conductance fluctuations in bilayer graphene. <i>New Journal of Physics</i> , 2010, 12, 083016.	1.2	11
17	Ultra-precision Figured 4H-SiC(0001) Surfaces. <i>Hyomen Kagaku</i> , 2010, 31, 466-473.	0.0	0
18	Edge phonon state of mono- and few-layer graphene nanoribbons observed by surface and interference co-enhanced Raman spectroscopy. <i>Physical Review B</i> , 2010, 81, .	1.1	77
19	Polarization dependence of Raman spectra in strained graphene. <i>Physical Review B</i> , 2010, 82, .	1.1	14
20	Toward Ubiquitous Environmental Gas Sensors—Capitalizing on the Promise of Graphene. <i>Environmental Science & Technology</i> , 2010, 44, 1167-1176.	4.6	266
21	Determination of edge purity in bilayer graphene using $\frac{1}{4}$ -Raman spectroscopy. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	45
22	Spatially Resolved Spontaneous Reactivity of Diazonium Salt on Edge and Basal Plane of Graphene without Surfactant and Its Doping Effect. <i>Langmuir</i> , 2010, 26, 12278-12284.	1.6	92
23	Contact resistance in few and multilayer graphene devices. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	253
24	Localization of Dirac Electrons in Rotated Graphene Bilayers. <i>Nano Letters</i> , 2010, 10, 804-808.	4.5	616
25	Exfoliation and Chemical Modification Using Microwave Irradiation Affording Highly Functionalized Graphene. <i>ACS Nano</i> , 2010, 4, 7499-7507.	7.3	150
26	Facile preparation and characterization of graphene nanosheets/polystyrene composites. <i>Macromolecular Research</i> , 2010, 18, 1008-1012.	1.0	28
27	Probing mechanical properties of graphene with Raman spectroscopy. <i>Journal of Materials Science</i> , 2010, 45, 5135-5149.	1.7	208
28	FeCl_3 -Based Few-Layer Graphene Intercalation Compounds: Single Linear Dispersion Electronic Band Structure and Strong Charge Transfer Doping. <i>Advanced Functional Materials</i> , 2010, 20, 3504-3509.	7.8	154
29	Freestanding Graphene by Thermal Splitting of Silicon Carbide Granules. <i>Advanced Materials</i> , 2010, 22, 2168-2171.	11.1	95
30	Chemically Derived Graphene Oxide: Towards Large-Area Thin-Film Electronics and Optoelectronics. <i>Advanced Materials</i> , 2010, 22, 2392-2415.	11.1	2,018

#	ARTICLE	IF	CITATIONS
31	Epitaxial Graphene Growth by Carbon Molecular Beam Epitaxy (CMBE). <i>Advanced Materials</i> , 2010, 22, 4140-4145.	11.1	111
32	Graphene and Graphene Oxide: Synthesis, Properties, and Applications. <i>Advanced Materials</i> , 2010, 22, 3906-3924.	11.1	8,959
34	Carbon Nanomaterials in Biosensors: Should You Use Nanotubes or Graphene?. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2114-2138.	7.2	1,301
35	Graphene based chemical sensor fabrication by means of Focused Ion Beam. <i>Procedia Engineering</i> , 2010, 5, 1252-1255.	1.2	2
36	Epitaxial growth of graphitic carbon on C-face SiC and sapphire by chemical vapor deposition (CVD). <i>Journal of Crystal Growth</i> , 2010, 312, 3219-3224.	0.7	69
37	Ni/Ce-MCM-41 mesostructured catalysts for simultaneous production of hydrogen and nanocarbon via methane decomposition. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 3509-3521.	3.8	95
38	Flame synthesis of carbon nanofibers on carbon paper: Physicochemical characterization and application as catalyst support for methanol oxidation. <i>Carbon</i> , 2010, 48, 3131-3138.	5.4	27
39	Microwave plasma chemical vapor deposition of graphitic carbon thin films. <i>Carbon</i> , 2010, 48, 1552-1557.	5.4	14
40	Production, properties and potential of graphene. <i>Carbon</i> , 2010, 48, 2127-2150.	5.4	1,502
41	Preparation of graphene nanowalls by a simple microwave-based method. <i>Carbon</i> , 2010, 48, 3993-4000.	5.4	61
42	Topology peculiarities of graphite films of nanometer thickness. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 3010-3013.	0.7	12
43	Growth and properties of chemically modified graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2915-2919.	0.7	15
44	Self-Limited Oxidation: A Route to Form Graphene Layers from Graphite by One-Step Heating. <i>Small</i> , 2010, 6, 2837-2841.	5.2	13
45	Fluorographene: A Two-Dimensional Counterpart of Teflon. <i>Small</i> , 2010, 6, 2877-2884.	5.2	1,146
46	Flexible, Transparent, Conducting Films of Randomly Stacked Graphene from Surfactant-Stabilized, Oxide-Free Graphene Dispersions. <i>Small</i> , 2010, 6, 458-464.	5.2	371
47	High-Throughput, Ultrafast Synthesis of Solution-Dispersed Graphene via a Facile Hydride Chemistry. <i>Small</i> , 2010, 6, 226-231.	5.2	102
48	High-Concentration Solvent Exfoliation of Graphene. <i>Small</i> , 2010, 6, 864-871.	5.2	908
49	Atomically precise bottom-up fabrication of graphene nanoribbons. <i>Nature</i> , 2010, 466, 470-473.	13.7	3,144

#	ARTICLE	IF	CITATIONS
50	The Field Emission Properties of Graphene Aggregates Films Deposited on Fe-Cr-Ni alloy Substrates. Journal of Nanomaterials, 2010, 2010, 1-4.	1.5	5
51	Graphene Growth on SiC and Metal Surfaces by Solid Source Carbon Deposition. Materials Research Society Symposia Proceedings, 2010, 1246, 1.	0.1	1
52	Combined effect of magnetic and electric fields on Landau level spectrum and magneto-optical absorption in bilayer graphene. Europhysics Letters, 2010, 92, 57008.	0.7	11
53	Observation of Raman G -band splitting in top-doped few-layer graphene. Physical Review B, 2010, 81, .	1.1	57
54	Uncovering the dominant scatterer in graphene sheets on SiO_2 . Physical Review B, 2010, 82, .	1.1	47
55	Roller-style electrostatic printing of prepatterned few-layer-graphenes. Applied Physics Letters, 2010, 96, 013109.	1.5	18
56	Graphene strain tuning by control of the substrate surface chemistry. Applied Physics Letters, 2010, 97, 021911.	1.5	13
57	Raman Spectra and Imaging of Graphene Layers Grown by SiC Sublimation. AIP Conference Proceedings, 2010, , .	0.3	2
58	Electrostatic transfer of patterned epitaxial graphene from SiC(0001) to glass. New Journal of Physics, 2010, 12, 125016.	1.2	9
59	Hysteresis reversion in graphene field-effect transistors. Journal of Chemical Physics, 2010, 133, 044703.	1.2	78
60	Few-layer epitaxial graphene grown on vicinal 6H-SiC studied by deep ultraviolet Raman spectroscopy. Applied Physics Letters, 2010, 97, 033108.	1.5	16
61	Spatial dependence of Raman frequencies in ordered and disordered monolayer graphene. Diamond and Related Materials, 2010, 19, 608-613.	1.8	24
62	Wafer Scale Homogeneous Bilayer Graphene Films by Chemical Vapor Deposition. Nano Letters, 2010, 10, 4702-4707.	4.5	410
63	Surface-Enhanced Raman Signal for Terbium Single-Molecule Magnets Grafted on Graphene. ACS Nano, 2010, 4, 7531-7537.	7.3	90
64	Excitation profile of surface-enhanced Raman scattering in graphene-metal nanoparticle based derivatives. Nanoscale, 2010, 2, 1461.	2.8	157
65	Spectroscopy of Covalently Functionalized Graphene. Nano Letters, 2010, 10, 4061-4066.	4.5	507
66	Chemical Functionalization of Graphene Enabled by Phage Displayed Peptides. Nano Letters, 2010, 10, 4559-4565.	4.5	190
67	Modulating the electronic structures of graphene by controllable hydrogenation. Applied Physics Letters, 2010, 97, .	1.5	82

#	ARTICLE	IF	CITATIONS
68	Dirac electronic states in graphene systems: optical spectroscopy studies. <i>Semiconductor Science and Technology</i> , 2010, 25, 063001.	1.0	158
69	Perspectives on Carbon Nanotubes and Graphene Raman Spectroscopy. <i>Nano Letters</i> , 2010, 10, 751-758.	4.5	2,784
70	Layer-by-Layer Transfer of Multiple, Large Area Sheets of Graphene Grown in Multilayer Stacks on a Single SiC Wafer. <i>ACS Nano</i> , 2010, 4, 5591-5598.	7.3	65
71	Thermal enhancement of chemical doping in graphene: a Raman spectroscopy study. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 334202.	0.7	36
72	Hot electron transport in suspended multilayer graphene. <i>Physical Review B</i> , 2010, 82, .	1.1	16
73	Effect of Magnetic Field on the Electronic Transport in Trilayer Graphene. <i>ACS Nano</i> , 2010, 4, 7087-7092.	7.3	30
74	High spatial resolution ellipsometer for characterization of epitaxial graphene. <i>Optics Letters</i> , 2010, 35, 3336.	1.7	19
75	Two-Dimensional Phonon Transport in Supported Graphene. <i>Science</i> , 2010, 328, 213-216.	6.0	1,692
76	Two-dimensional carbon nanostructures: Fundamental properties, synthesis, characterization, and potential applications. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	258
77	Graphene Nanoribbon Devices Produced by Oxidative Unzipping of Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 5405-5413.	7.3	130
78	Atomic-scale observation of rotational misorientation in suspended few-layer graphene sheets. <i>Nanoscale</i> , 2010, 2, 700.	2.8	38
79	Direct Chemical Vapor Deposition of Graphene on Dielectric Surfaces. <i>Nano Letters</i> , 2010, 10, 1542-1548.	4.5	439
80	Fluorescence Quenching in Conjugated Polymers Blended with Reduced Graphitic Oxide. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4153-4159.	1.5	101
81	Improvement of Transparent Conducting Nanotube Films by Addition of Small Quantities of Graphene. <i>ACS Nano</i> , 2010, 4, 4238-4246.	7.3	111
82	Characterizing Graphene, Graphite, and Carbon Nanotubes by Raman Spectroscopy. <i>Annual Review of Condensed Matter Physics</i> , 2010, 1, 89-108.	5.2	533
83	Graphene synthesis by ion implantation. <i>Applied Physics Letters</i> , 2010, 97, 183103.	1.5	103
84	On Resonant Scatterers As a Factor Limiting Carrier Mobility in Graphene. <i>Nano Letters</i> , 2010, 10, 3868-3872.	4.5	256
85	Compression Behavior of Single-Layer Graphenes. <i>ACS Nano</i> , 2010, 4, 3131-3138.	7.3	282

#	ARTICLE	IF	CITATIONS
86	The Influence of Strong Electron and Hole Doping on the Raman Intensity of Chemical Vapor-Deposition Graphene. <i>ACS Nano</i> , 2010, 4, 6055-6063.	7.3	243
87	Epitaxial graphene on silicon substrates. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 374012.	1.3	107
88	Towards electron transport measurements in chemically modified graphene: effect of a solvent. <i>New Journal of Physics</i> , 2010, 12, 125007.	1.2	13
89	Unoccupied electronic structure of ball-milled graphite. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6685.	1.3	28
90	Raman Spectrum of Epitaxial Graphene on SiC (0001) by Pulsed Electron Irradiation. <i>Chinese Physics Letters</i> , 2010, 27, 046803.	1.3	6
91	Enhanced weak localization effect in few-layer graphene. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20208.	1.3	28
92	Control of epitaxy of graphene by crystallographic orientation of a Si substrate toward device applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 17242.	6.7	37
93	Nucleation sites for multilayer graphene on nickel catalyst. , 2011, , .		1
94	Modified carbon nano structures for energy and display applications. , 2011, , .		1
95	Strain-Dependent Splitting of the Double-Resonance Raman Scattering Band in Graphene. <i>Physical Review Letters</i> , 2011, 106, 155502.	2.9	267
96	Facile one-step transfer process of graphene. <i>Nanotechnology</i> , 2011, 22, 225606.	1.3	14
97	Effects of Layer Stacking on the Combination Raman Modes in Graphene. <i>ACS Nano</i> , 2011, 5, 1594-1599.	7.3	189
98	Graphene Growth Using a Solid Carbon Feedstock and Hydrogen. <i>ACS Nano</i> , 2011, 5, 7656-7661.	7.3	87
99	Reliably Counting Atomic Planes of Few-Layer Graphene (<i>n</i> > 4). <i>ACS Nano</i> , 2011, 5, 269-274.	7.3	127
100	Formation of Bilayer Bernal Graphene: Layer-by-Layer Epitaxy via Chemical Vapor Deposition. <i>Nano Letters</i> , 2011, 11, 1106-1110.	4.5	365
101	Size effect of graphene on electrocatalytic activation of oxygen. <i>Chemical Communications</i> , 2011, 47, 10016.	2.2	212
102	Raman Characterization of ABA- and ABC-Stacked Trilayer Graphene. <i>ACS Nano</i> , 2011, 5, 8760-8768.	7.3	184
103	Controlled Chlorine Plasma Reaction for Noninvasive Graphene Doping. <i>Journal of the American Chemical Society</i> , 2011, 133, 19668-19671.	6.6	211

#	ARTICLE	IF	CITATIONS
104	Free standing graphene-diamond hybrid films and their electron emission properties. Journal of Applied Physics, 2011, 110, .	1.1	45
105	Covalent Chemistry for Graphene Electronics. Journal of Physical Chemistry Letters, 2011, 2, 2487-2498.	2.1	131
106	Organometallic chemistry of extended periodic π -electron systems: hexahapto-chromium complexes of graphene and single-walled carbon nanotubes. Chemical Science, 2011, 2, 1326.	3.7	96
108	Oxidation Resistance of Graphene-Coated Cu and Cu/Ni Alloy. ACS Nano, 2011, 5, 1321-1327.	7.3	1,167
109	Vibrational properties of graphene fluoride and graphane. Applied Physics Letters, 2011, 98, .	1.5	68
110	Raman 2D-Band Splitting in Graphene: Theory and Experiment. ACS Nano, 2011, 5, 2231-2239.	7.3	271
111	Wrinkle Engineering: A New Approach to Massive Graphene Nanoribbon Arrays. Journal of the American Chemical Society, 2011, 133, 17578-17581.	6.6	142
112	Exploring the fundamental effects of deposition time on the microstructure of graphene nanoflakes by Raman scattering and X-ray diffraction. CrystEngComm, 2011, 13, 312-318.	1.3	56
113	Melatonin as a powerful bio-antioxidant for reduction of graphene oxide. Journal of Materials Chemistry, 2011, 21, 10907.	6.7	255
114	A Chemical Gas Sensor from Large-Scale Thermal CVD Derived Graphene. Materials Research Society Symposia Proceedings, 2011, 1303, 105.	0.1	6
115	Response of graphene to femtosecond high-intensity laser irradiation. Applied Physics Letters, 2011, 99, .	1.5	168
116	Synthesis of ethanol-soluble few-layer graphene nanosheets for flexible and transparent conducting composite films. Nanotechnology, 2011, 22, 295606.	1.3	51
117	Universal Segregation Growth Approach to Wafer-Size Graphene from Non-Noble Metals. Nano Letters, 2011, 11, 297-303.	4.5	239
118	Ambipolar to Unipolar Conversion in Graphene Field-Effect Transistors. ACS Nano, 2011, 5, 3198-3203.	7.3	60
119	Segregation Growth of Graphene on Cu-Ni Alloy for Precise Layer Control. Journal of Physical Chemistry C, 2011, 115, 11976-11982.	1.5	188
120	Continuous roll-to-roll growth of graphene films by chemical vapor deposition. Applied Physics Letters, 2011, 98, .	1.5	95
121	Effective mobility of single-layer graphene transistors as a function of channel dimensions. Journal of Applied Physics, 2011, 109, .	1.1	114
122	Thinning vertical graphenes, tuning electrical response: from semiconducting to metallic. Journal of Materials Chemistry, 2011, 21, 16339.	6.7	23

#	ARTICLE	IF	CITATIONS
124	Low-temperature synthesis of large-area graphene-based transparent conductive films using surface wave plasma chemical vapor deposition. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	198
125	Enhanced Electrical Properties of Reduced Graphene Oxide Multilayer Films by <i>In-Situ</i> Insertion of a TiO ₂ Layer. <i>ACS Nano</i> , 2011, 5, 8884-8891.	7.3	55
126	Strain Mapping in a Graphene Monolayer Nanocomposite. <i>ACS Nano</i> , 2011, 5, 3079-3084.	7.3	142
127	Low-temperature synthesis of graphene on nickel foil by microwave plasma chemical vapor deposition. <i>Applied Physics Letters</i> , 2011, 98, 263106-2631063.	1.5	156
128	Synthesis and properties of monolayer graphene oxyfluoride. <i>Journal of Materials Chemistry</i> , 2011, 21, 18730.	6.7	50
129	Single- and few-layer graphene growth on stainless steel substrates by direct thermal chemical vapor deposition. <i>Nanotechnology</i> , 2011, 22, 165701.	1.3	85
130	Multiphonon Raman scattering in graphene. <i>Physical Review B</i> , 2011, 84, .	1.1	29
131	Graphene: fabrication methods and thermophysical properties. <i>Physics-Uspekhi</i> , 2011, 54, 227-258.	0.8	135
132	Raman spectra of out-of-plane phonons in bilayer graphene. <i>Physical Review B</i> , 2011, 84, .	1.1	55
133	Raman spectroscopy of the internal strain of a graphene layer grown on copper tuned by chemical vapor deposition. <i>Physical Review B</i> , 2011, 84, .	1.1	49
134	Observation of Oscillatory Resistance Behavior in Coupled Bernal and Rhombohedral Stacking Graphene. <i>ACS Nano</i> , 2011, 5, 5490-5498.	7.3	15
135	Graphene Moiré patterns observed by umklapp double-resonance Raman scattering. <i>Physical Review B</i> , 2011, 84, .	1.1	66
136	Synthesis and characterization of self-organized multilayered graphene-carbon nanotube hybrid films. <i>Journal of Materials Chemistry</i> , 2011, 21, 7289.	6.7	55
137	Synergistic Antibacterial Brilliant Blue/Reduced Graphene Oxide/Quaternary Phosphonium Salt Composite with Excellent Water Solubility and Specific Targeting Capability. <i>Langmuir</i> , 2011, 27, 7828-7835.	1.6	145
138	Negative Thermal Expansion Coefficient of Graphene Measured by Raman Spectroscopy. <i>Nano Letters</i> , 2011, 11, 3227-3231.	4.5	869
139	Stretchable, Transparent Graphene Interconnects for Arrays of Microscale Inorganic Light Emitting Diodes on Rubber Substrates. <i>Nano Letters</i> , 2011, 11, 3881-3886.	4.5	307
140	Effects of Polycrystalline Cu Substrate on Graphene Growth by Chemical Vapor Deposition. <i>Nano Letters</i> , 2011, 11, 4547-4554.	4.5	426
141	Toward N-Doped Graphene via Solvothermal Synthesis. <i>Chemistry of Materials</i> , 2011, 23, 1188-1193.	3.2	984

#	ARTICLE	IF	CITATIONS
142	Nobel Lecture: Graphene: Materials in the Flatland. <i>Reviews of Modern Physics</i> , 2011, 83, 837-849.	16.4	708
143	Structural, mechanical, and electronic properties of defect-patterned graphene nanomeshes from first principles. <i>Physical Review B</i> , 2011, 84, .	1.1	76
144	Graphene Flash Memory. <i>ACS Nano</i> , 2011, 5, 7812-7817.	7.3	232
145	Low-Temperature Growth of Graphene by Chemical Vapor Deposition Using Solid and Liquid Carbon Sources. <i>ACS Nano</i> , 2011, 5, 3385-3390.	7.3	353
146	Raman Spectroscopy and in Situ Raman Spectroelectrochemistry of Bilayer ¹² / _C ¹³ / _C Graphene. <i>Nano Letters</i> , 2011, 11, 1957-1963.	4.5	104
147	Growth of Single Crystal Graphene Arrays by Locally Controlling Nucleation on Polycrystalline Cu Using Chemical Vapor Deposition. <i>Advanced Materials</i> , 2011, 23, 4898-4903.	11.1	172
148	Direct Growth of Bilayer Graphene on SiO ₂ Substrates by Carbon Diffusion through Nickel. <i>ACS Nano</i> , 2011, 5, 8241-8247.	7.3	260
150	Control and characterization of individual grains and grain boundaries in graphene grown by chemical vapour deposition. <i>Nature Materials</i> , 2011, 10, 443-449.	13.3	1,356
151	Nanoscale Joule heating, Peltier cooling and current crowding at graphene-metal contacts. <i>Nature Nanotechnology</i> , 2011, 6, 287-290.	15.6	275
152	Probing phonon emission via hot carrier transport in suspended graphitic multilayers. <i>Solid State Communications</i> , 2011, 151, 1645-1649.	0.9	2
153	Long-acting antibacterial activity of quaternary phosphonium salts functionalized few-layered graphite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1222-1226.	1.7	56
154	Application of an exfoliated graphite nanoplatelet-modified electrode for the determination of quitozen. <i>Materials Science and Engineering C</i> , 2011, 31, 1553-1557.	3.8	4
155	Densification mechanism of polyacrylonitrile-based carbon fiber during heat treatment. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 1159-1164.	1.9	26
156	Specific heat of graphene nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3726-3730.	0.9	17
157	Conductive methyl blue-functionalized reduced graphene oxide with excellent stability and solubility in water. <i>Materials Research Bulletin</i> , 2011, 46, 2353-2358.	2.7	31
158	Tuning the electronic transport properties of graphene through functionalisation with fluorine. <i>Nanoscale Research Letters</i> , 2011, 6, 526.	3.1	105
159	Graphene synthesis on Fe foil using thermal CVD. <i>Current Applied Physics</i> , 2011, 11, S81-S85.	1.1	99
160	Raman spectroscopy on etched graphene nanoribbons. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	60

#	ARTICLE	IF	CITATIONS
161	Controlled Hydrogenation of Graphene Sheets and Nanoribbons. ACS Nano, 2011, 5, 888-896.	7.3	105
162	Imaging Stacking Order in Few-Layer Graphene. Nano Letters, 2011, 11, 164-169.	4.5	321
163	All-Optical High-Resolution Nanopatterning and 3D Suspending of Graphene. ACS Nano, 2011, 5, 5141-5150.	7.3	48
164	Synthesis of carbon films by magnetron sputtering of a graphite target using hydrogen as plasma-forming gas. Bulletin of the Lebedev Physics Institute, 2011, 38, 263-266.	0.1	13
165	Raman spectroscopy of graphene and carbon nanotubes. Advances in Physics, 2011, 60, 413-550.	35.9	797
166	Strain and charge carrier coupling in epitaxial graphene. Physical Review B, 2011, 84, .	1.1	54
167	Micro-Raman and micro-transmission imaging of epitaxial graphene grown on the Si and C faces of 6H-SiC. Nanoscale Research Letters, 2011, 6, 478.	3.1	19
168	Observation of Phonon Anomaly at the Armchair Edge of Single-Layer Graphene in Air. ACS Nano, 2011, 5, 3347-3353.	7.3	13
169	Anharmonic phonon effects in Raman spectra of unsupported vertical graphene sheets. Physical Review B, 2011, 83, .	1.1	66
171	Cobalt-assisted large-area epitaxial graphene growth in thermal cracker enhanced gas source molecular beam epitaxy. Applied Physics A: Materials Science and Processing, 2011, 105, 341-345.	1.1	30
172	Ion beam induced defects in graphene: Raman spectroscopy and DFT calculations. Journal of Molecular Structure, 2011, 993, 506-509.	1.8	25
173	Deposited carbon distributions on nickel film/oxide substrate systems. Solid State Ionics, 2011, 192, 571-575.	1.3	23
174	Friction and wear characteristics of multi-layer graphene films investigated by atomic force microscopy. Surface and Coatings Technology, 2011, 205, 4864-4869.	2.2	159
175	Growth of carbon nanowalls at atmospheric pressure for one-step gas sensor fabrication. Nanoscale Research Letters, 2011, 6, 202.	3.1	123
176	Comparison of fitting procedures in the study of plasma-induced defect formation in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2011, 248, 1645-1650.	0.7	3
177	On the past and present of carbon nanostructures. Physica Status Solidi (B): Basic Research, 2011, 248, 1566-1574.	0.7	39
178	Large-scale Synthesis of Bilayer Graphene in Strongly Coupled Stacking Order. Advanced Functional Materials, 2011, 21, 911-917.	7.8	90
179	Facile Physical Route to Highly Crystalline Graphene. Advanced Functional Materials, 2011, 21, 3496-3501.	7.8	97

#	ARTICLE	IF	CITATIONS
181	Inâ€¦Situ Oneâ€¦Step Electrochemical Preparation of Graphene Oxide Nanosheetâ€¦Modified Electrodes for Biosensors. ChemSusChem, 2011, 4, 1587-1591.	3.6	83
182	The finiteâ€¦size effect on the transport properties in edgeâ€¦modified graphene nanoribbonâ€¦based molecular devices. Journal of Computational Chemistry, 2011, 32, 1753-1759.	1.5	4
184	Graphene: Materials in the Flatland (Nobel Lecture). Angewandte Chemie - International Edition, 2011, 50, 6986-7002.	7.2	172
185	Synthesis of electrochemically-reduced graphene oxide film with controllable size and thickness and its use in supercapacitor. Carbon, 2011, 49, 3488-3496.	5.4	260
186	Chemical vapor deposition synthesis of graphene on copper with methanol, ethanol, and propanol precursors. Carbon, 2011, 49, 4204-4210.	5.4	311
187	Surface modification of highly oriented pyrolytic graphite by reaction with atomic nitrogen at high temperatures. Applied Surface Science, 2011, 257, 5647-5656.	3.1	15
188	A study of inner process double-resonance Raman scattering in bilayer graphene. Carbon, 2011, 49, 1511-1515.	5.4	28
189	Layer-by-layer synthesis of large-area graphene films by thermal cracker enhanced gas source molecular beam epitaxy. Carbon, 2011, 49, 2046-2052.	5.4	26
190	The production of oxygenated polycrystalline graphene by one-step ethanol-chemical vapor deposition. Carbon, 2011, 49, 3789-3795.	5.4	35
191	Study on phenol adsorption from aqueous solutions on exfoliated graphitic nanoplatelets. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 588-595.	1.7	21
192	Platinum decorated aligned carbon nanotubes: Electrocatalyst for improved performance of proton exchange membrane fuel cells. Journal of Power Sources, 2011, 196, 6160-6167.	4.0	36
193	Scanning tunneling microscopy and spectroscopy study of charge inhomogeneities in bilayer graphene. Solid State Communications, 2011, 151, 396-399.	0.9	1
194	Formation of wide and atomically flat graphene layers on ultraprecision-figured 4H-SiC(0001) surfaces. Surface Science, 2011, 605, 597-605.	0.8	26
195	Layer-by-layer growth of graphene layers on graphene substrates by chemical vapor deposition. Thin Solid Films, 2011, 519, 6447-6452.	0.8	53
196	Layer-dependent morphologies and charge transfer of Pd on n-layer graphenes. Chemical Communications, 2011, 47, 9408.	2.2	24
197	The influence of high dielectric constant aluminum oxide sputter deposition on the structure and properties of multilayer epitaxial graphene. Nanotechnology, 2011, 22, 205703.	1.3	14
198	Chemical Vapor Deposition of Nanocarbon on Electroless NiB Catalyst Using Ethanol Precursor. Japanese Journal of Applied Physics, 2011, 50, 05EF02.	0.8	2
199	Raman spectra of graphene exfoliated on insulating crystalline substrates. New Journal of Physics, 2011, 13, 063018.	1.2	20

#	ARTICLE	IF	CITATIONS
200	Determination of substrate pinning in epitaxial and supported graphene layers via Raman scattering. Physical Review B, 2011, 83, .	1.1	21
201	Edge shape effect on vibrational modes in graphene nanoribbons: A numerical study. Journal of Applied Physics, 2011, 109, .	1.1	33
202	A road to hydrogenating graphene by a reactive ion etching plasma. Journal of Applied Physics, 2011, 110, .	1.1	85
203	In-plane orientation effects on the electronic structure, stability, and Raman scattering of monolayer graphene on Ir(111). Physical Review B, 2011, 83, .	1.1	146
204	Preparation of graphene by jet cavitation. Nanotechnology, 2011, 22, 365306.	1.3	100
205	Fabrication and characterization of topological insulator Bi ₂ Se ₃ nanocrystals. Applied Physics Letters, 2011, 98, .	1.5	55
206	Graphene optoelectronics based on antidot superlattices. , 2011, , .		0
207	$\hat{\Gamma}^3$ radiation caused graphene defects and increased carrier density. Chinese Physics B, 2011, 20, 086102.	0.7	26
208	Growth of Few-Layer Graphene on Sapphire Substrates by Directly Depositing Carbon Atoms. Chinese Physics Letters, 2011, 28, 118101.	1.3	5
209	Layer by Layer Etching of the Highly Oriented Pyrolytic Graphite by Using Atomic Layer Etching. Journal of the Electrochemical Society, 2011, 158, D710.	1.3	23
210	Raman analysis of epitaxial graphene on 6H-SiC (0001 $\bar{1}$,) substrates under low pressure environment. Journal of Semiconductors, 2011, 32, 113003.	2.0	8
211	Effects of tip induced carrier density in local tunnel spectra of graphene. Applied Physics Letters, 2011, 98, 102109.	1.5	6
212	Transport Properties of Graphene Transistors. ECS Transactions, 2011, 35, 229-237.	0.3	1
213	Silicon intercalation at the interface of graphene and Ir(111). Applied Physics Letters, 2012, 100, .	1.5	67
214	Synthesis of Graphene Films on Copper Substrates by CVD of Different Precursors. Carbon Nanostructures, 2012, , 109-118.	0.1	1
215	Graphene Film Growth on Cu Foil via Direct Carbon Atoms Deposition by Using SSMBE. Applied Mechanics and Materials, 0, 174-177, 241-244.	0.2	0
216	Sputter Oriented Nickel and Defect Inhibitors in Graphene. Materials Research Society Symposia Proceedings, 2012, 1451, 33-38.	0.1	0
217	Selective Formation of Graphene on a Si Wafer. Materials Research Society Symposia Proceedings, 2012, 1407, 141.	0.1	2

#	ARTICLE	IF	CITATIONS
218	Raman spectra of bilayer graphene covered with Poly(methyl methacrylate) thin film. AIP Advances, 2012, 2, .	0.6	27
219	Reduction of graphene oxide monolayers transferred on Si and Ti substrates by LB technique. AIP Conference Proceedings, 2012, .	0.3	1
220	Low-temperature formation of epitaxial graphene on 6H-SiC induced by continuous electron beam irradiation. Applied Physics Letters, 2012, 101, 092105.	1.5	11
221	Probing near Dirac point electron-phonon interaction in graphene. Optical Materials Express, 2012, 2, 1713.	1.6	10
222	High Quality Factor Graphene Resonator Fabrication Using Resist Shrinkage-Induced Strain. Applied Physics Express, 2012, 5, 117201.	1.1	49
223	Advances in Graphene-Related Technologies: Synthesis, Devices and Outlook. Recent Patents on Nanotechnology, 2012, 6, 79-98.	0.7	33
224	Organic photovoltaic devices with low resistance multilayer graphene transparent electrodes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	0.9	22
225	Effects of carbon nanofillers on enhancement of polymer composites. Journal of Applied Physics, 2012, 112, 074302.	1.1	1
226	Few-layer graphene growth on 6H-SiC(0001) surface at low temperature via Ni-silicidation reactions. Applied Physics Letters, 2012, 100, 251604.	1.5	17
227	Anisotropic quantum Hall effect in epitaxial graphene on stepped SiC surfaces. Physical Review B, 2012, 85, .	1.1	38
228	Epitaxial (111) films of Cu, Ni, and Cu _x Ni _y on $\hat{\Gamma}$ -Al ₂ O ₃ (0001) for graphene growth by chemical vapor deposition. Journal of Applied Physics, 2012, 112, .	1.1	51
229	Native graphene oxides at graphene edges. , 2012, , .		1
230	Synthesis of Nitrogen-Doped Graphene by Plasma-Enhanced Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2012, 51, 055101.	0.8	16
231	CONDUCTIVITY OF GAPPED GRAPHENE WITHIN RANDOM PHASE APPROXIMATION. International Journal of Modern Physics B, 2012, 26, 1250126.	1.0	0
232	Graphene films grown on sapphire substrates via solid source molecular beam epitaxy. Chinese Physics B, 2012, 21, 057303.	0.7	2
233	Optimization of the visibility of graphene on poly-Si film by thin-film optics engineering. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 06FJ01.	0.6	6
234	Unraveling the interlayer-related phonon self-energy renormalization in bilayer graphene. Scientific Reports, 2012, 2, 1017.	1.6	16
235	Versatile sputtering technology for Al ₂ O ₃ gate insulators on graphene. Science and Technology of Advanced Materials, 2012, 13, 025007.	2.8	13

#	ARTICLE	IF	CITATIONS
236	Comparison of the formation process and properties of epitaxial graphenes on Si- and C-face 6H α -SiC substrates. Chinese Physics B, 2012, 21, 038102.	0.7	9
237	Field effect transistors and photodetectors based on nanocrystalline graphene derived from electron beam induced carbonaceous patterns. Nanotechnology, 2012, 23, 425301.	1.3	14
238	Synthesis and characterization of graphene films by hot filament chemical vapor deposition. Physica Scripta, 2012, T149, 014068.	1.2	10
239	Green Photocatalytic Synthesis of Au Nanoparticles/Multi-walled Carbon Nanotubes Nanocomposites and their Application for Glucose Sensing. Current Nanoscience, 2012, 8, 930-933.	0.7	0
240	Nanoscale Control of Structural and Electronic Properties of Graphene through Substrate Interaction. Hyomen Kagaku, 2012, 33, 546-551.	0.0	0
241	The electronic structure of ideal graphene. , 2012, , 1-22.		4
242	Electron states in a magnetic field. , 0, , 23-62.		0
243	Quantum transport via evanescent waves. , 0, , 63-76.		0
244	Edges, nanoribbons and quantum dots. , 0, , 103-133.		0
245	Optics and response functions. , 2012, , 161-184.		2
246	Crystal lattice dynamics, structure and thermodynamics. , 0, , 205-242.		1
247	Gauge fields and strain engineering. , 0, , 243-265.		0
248	Scattering mechanisms and transport properties. , 0, , 266-300.		0
249	Effect of e-beam irradiation on graphene layer grown by chemical vapor deposition. Journal of Applied Physics, 2012, 111, .	1.1	38
250	Synthesis of patterned nanographene on insulators from focused ion beam induced deposition of carbon. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 03D113.	0.6	7
252	Different Characterization Techniques to Evaluate Graphene and Its Properties. , 2012, , 95-138.		1
253	Using gate-modulated Raman scattering and electron-phonon interactions to probe single-layer graphene: A different approach to assign phonon combination modes. Physical Review B, 2012, 86, .	1.1	20
254	An Improved Method to Increase the Concentration of Graphene in Organic Solvent. Chemistry Letters, 2012, 41, 747-749.	0.7	11

#	ARTICLE	IF	CITATIONS
255	High-Quality Large-Area Graphene from Dehydrogenated Polycyclic Aromatic Hydrocarbons. <i>Chemistry of Materials</i> , 2012, 24, 3906-3915.	3.2	119
256	Estimation of Young's Modulus of Graphene by Raman Spectroscopy. <i>Nano Letters</i> , 2012, 12, 4444-4448.	4.5	356
257	Universal scaling of resistivity in bilayer graphene. <i>Applied Physics Letters</i> , 2012, 101, 223111.	1.5	6
258	Effect of Domain Boundaries on the Raman Spectra of Mechanically Strained Graphene. <i>ACS Nano</i> , 2012, 6, 10229-10238.	7.3	73
259	Improved electron field emission from morphologically disordered monolayer graphene. <i>Applied Physics Letters</i> , 2012, 100, 043104.	1.5	49
260	Observation of Layer-Breathing Mode Vibrations in Few-Layer Graphene through Combination Raman Scattering. <i>Nano Letters</i> , 2012, 12, 5539-5544.	4.5	151
261	Large-Area Synthesis of Graphene on Palladium and Their Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16412-16420.	1.5	34
262	Electronic Properties of Nanodiamond Decorated Graphene. <i>ACS Nano</i> , 2012, 6, 1018-1025.	7.3	57
263	Integration of the Ferromagnetic Insulator EuO onto Graphene. <i>ACS Nano</i> , 2012, 6, 10063-10069.	7.3	154
264	Terahertz optical properties of multilayer graphene: Experimental observation of strong dependence on stacking arrangements and misorientation angles. <i>Physical Review B</i> , 2012, 86, .	1.1	38
265	Adsorption kinetics of ammonia sensing by graphene films decorated with platinum nanoparticles. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	67
266	Large-Area Bernal-Stacked Bi-, Tri-, and Tetralayer Graphene. <i>ACS Nano</i> , 2012, 6, 9790-9796.	7.3	163
267	Simulation geometry rasterization for applications toward graphene interconnect characterization. , 2012, , .		1
268	Graphene's Conducting Polymer Nanocomposites Prepared by Interfacial Polymerization. <i>RSC Nanoscience and Nanotechnology</i> , 2012, , 211-238.	0.2	0
269	Advances in the chemical modification of epitaxial graphene. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 154009.	1.3	103
270	Nano-optical imaging and spectroscopy of order, phases, and domains in complex solids. <i>Advances in Physics</i> , 2012, 61, 745-842.	35.9	196
271	Observations of Early Stage Graphene Growth on Copper. <i>Electrochemical and Solid-State Letters</i> , 2012, 15, K1.	2.2	33
272	Structurally Defined Graphene Nanoribbons with High Lateral Extension. <i>Journal of the American Chemical Society</i> , 2012, 134, 18169-18172.	6.6	185

#	ARTICLE	IF	CITATIONS
273	Synthesis, Characterization, Electronic and Gas Sensing Properties towards H ₂ and CO of Transparent, Large Area, Low Layer Graphene. Chemistry - A European Journal, 2012, 18, 14996-15003.	1.7	19
274	A mixed-solvent strategy for facile and green preparation of graphene by liquid-phase exfoliation of graphite. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	111
275	Controlled growth of carbon nanotube-graphene hybrid materials for flexible and transparent conductors and electron field emitters. Nanoscale, 2012, 4, 632-638.	2.8	110
276	Lithographically Defined Three-Dimensional Graphene Structures. ACS Nano, 2012, 6, 3573-3579.	7.3	152
277	Effects of Surface Chemistry of Substrates on Raman Spectra in Graphene. Journal of Physical Chemistry C, 2012, 116, 4732-4737.	1.5	33
278	Signature of Misoriented Bilayer Graphene-like and Graphene-like Structure in the Hydrogenated Diamond-Like Carbon Film. IEEE Transactions on Plasma Science, 2012, 40, 1789-1793.	0.6	7
279	Soft-lithographic processed soluble micropatterns of reduced graphene oxide for wafer-scale thin film transistors and gas sensors. Journal of Materials Chemistry, 2012, 22, 714-718.	6.7	34
280	Pseudospin for Raman D band in armchair graphene nanoribbons. Physical Review B, 2012, 85, .	1.1	9
281	Oxygen Reduction on Metal-Free Nitrogen-Doped Carbon Nanowall Electrodes. Journal of the Electrochemical Society, 2012, 159, F733-F742.	1.3	52
282	AB-Stacked Multilayer Graphene Synthesized <i>via</i> Chemical Vapor Deposition: A Characterization by Hot Carrier Transport. ACS Nano, 2012, 6, 1142-1148.	7.3	13
283	Scanning tunneling microscopy study of graphene on Au(111): Growth mechanisms and substrate interactions. Physical Review B, 2012, 85, .	1.1	89
284	Horizontally aligned ZnO nanowire transistors using patterned graphene thin films. Applied Physics Letters, 2012, 100, 063112.	1.5	18
285	Graphene Growth from Spin-Coated Polymers without a Gas. Japanese Journal of Applied Physics, 2012, 51, 06FD01.	0.8	0
286	Jungle-Gym Structured Films of Single-Walled Carbon Nanotubes on a Gold Surface: Oxidative Treatment and Electrochemical Properties. Journal of Physical Chemistry C, 2012, 116, 9498-9506.	1.5	25
287	Ultra-sensitive strain sensors based on piezoresistive nanographene films. Applied Physics Letters, 2012, 101, 063112.	1.5	270
288	Modifying the Density of States of Single-Walled Carbon Nanotubes by Reversible Wrapping with Organometallic Nanofoils: A Scanning Tunneling Spectroscopy Study. Journal of Physical Chemistry C, 2012, 116, 25611-25616.	1.5	5
289	Wave-packet scattering on graphene edges in the presence of a pseudomagnetic field. Physical Review B, 2012, 86, .	1.1	28
290	Issues with characterizing transport properties of graphene field effect transistors. Solid State Communications, 2012, 152, 1311-1316.	0.9	19

#	ARTICLE	IF	CITATIONS
291	Resonant Raman spectroscopy of graphene grown on copper substrates. <i>Solid State Communications</i> , 2012, 152, 1317-1320.	0.9	86
292	Effects of ambient conditions on the quality of graphene synthesized by chemical vapor deposition. <i>Vacuum</i> , 2012, 86, 1867-1870.	1.6	19
293	Layer-dependent fluorination and doping of graphene via plasma treatment. <i>Nanotechnology</i> , 2012, 23, 115706.	1.3	54
294	Graphene-based materials for catalysis. <i>Catalysis Science and Technology</i> , 2012, 2, 54-75.	2.1	882
295	A Critical Review of Glucose Biosensors Based on Carbon Nanomaterials: Carbon Nanotubes and Graphene. <i>Sensors</i> , 2012, 12, 5996-6022.	2.1	451
296	Nontoxic concentrations of PEGylated graphene nanoribbons for selective cancer cell imaging and photothermal therapy. <i>Journal of Materials Chemistry</i> , 2012, 22, 20626.	6.7	195
297	Polyaniline-Grafted Reduced Graphene Oxide for Efficient Electrochemical Supercapacitors. <i>ACS Nano</i> , 2012, 6, 1715-1723.	7.3	807
298	Probing graphene grain boundaries with optical microscopy. <i>Nature</i> , 2012, 490, 235-239.	13.7	352
299	Optimizing the Reinforcement of Polymer-Based Nanocomposites by Graphene. <i>ACS Nano</i> , 2012, 6, 2086-2095.	7.3	255
300	Tailored graphene materials by chemical reduction of graphene oxides of different atomic structure. <i>RSC Advances</i> , 2012, 2, 9643.	1.7	51
301	Electrochemical reduction of graphene oxide and its in situ spectroelectrochemical characterization. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14003.	1.3	90
302	Graphene oxide with improved electrical conductivity for supercapacitor electrodes. <i>Applied Surface Science</i> , 2012, 258, 3726-3731.	3.1	107
303	Field emission properties of vertically aligned thin-graphite sheets/graphite-encapsulated Cu particles. <i>Applied Surface Science</i> , 2012, 258, 6930-6937.	3.1	9
304	Graphene anchored with Fe ₃ O ₄ nanoparticles as anode for enhanced Li-ion storage. <i>Journal of Power Sources</i> , 2012, 217, 85-91.	4.0	104
305	The mechanics of graphene nanocomposites: A review. <i>Composites Science and Technology</i> , 2012, 72, 1459-1476.	3.8	1,076
306	Dual-frequency ultrasound for designing two dimensional catalyst surface: Reduced graphene oxide@Pt composite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 409, 81-87.	2.3	30
307	Graphene: An Emerging Electronic Material. <i>Advanced Materials</i> , 2012, 24, 5782-5825.	11.1	718
308	New Routes to Graphene, Graphene Oxide and Their Related Applications. <i>Advanced Materials</i> , 2012, 24, 4924-4955.	11.1	329

#	ARTICLE	IF	CITATIONS
309	Theoretical polarization dependence of the two-phonon double-resonant Raman spectra of graphene. European Physical Journal B, 2012, 85, 1.	0.6	19
310	Controlled synthesis of bilayer graphene on nickel. Nanoscale Research Letters, 2012, 7, 437.	3.1	49
311	Observation of strain effect on the suspended graphene by polarized Raman spectroscopy. Nanoscale Research Letters, 2012, 7, 533.	3.1	17
312	Mechanism of non-metal catalytic growth of graphene on silicon. Applied Physics Letters, 2012, 100, .	1.5	46
313	Novel Materials. , 2012, , 599-631.		0
314	Quantum Hall effect in Bernal stacked and twisted bilayer graphene grown on Cu by chemical vapor deposition. Physical Review B, 2012, 85, .	1.1	48
316	Zone folding effect in Raman G -band intensity of twisted bilayer graphene. Physical Review B, 2012, 86, .	1.1	79
317	Improvement in Film Quality of Epitaxial Graphene on SiC(111)/Si(111) by SiH ₄ Pretreatment. Japanese Journal of Applied Physics, 2012, 51, 06FD10.	0.8	4
318	Raman Spectroscopy for Characterization of Graphene. , 2012, , 191-214.		14
319	Carbon-nanotube-modified glassy carbon electrode for simultaneous determination of dopamine, ascorbic acid and uric acid: The effect of functional groups. Sensors and Actuators B: Chemical, 2012, 171-172, 1132-1140.	4.0	85
321	Growth Mechanism and Controlled Synthesis of AB-Stacked Bilayer Graphene on Cu-Ni Alloy Foils. ACS Nano, 2012, 6, 7731-7738.	7.3	160
322	Photocontrolled Molecular Structural Transition and Doping in Graphene. ACS Nano, 2012, 6, 8878-8886.	7.3	58
323	Graphene Interconnect Lifetime: A Reliability Analysis. IEEE Electron Device Letters, 2012, 33, 1604-1606.	2.2	30
324	Hot Phonon Dynamics in Graphene. Nano Letters, 2012, 12, 5495-5499.	4.5	66
325	Graphene Thickness Control via Gas-Phase Dynamics in Chemical Vapor Deposition. Journal of Physical Chemistry C, 2012, 116, 10557-10562.	1.5	70
326	Epitaxy of Graphene on 3C-SiC(111) Thin Films on Microfabricated Si(111) Substrates. Japanese Journal of Applied Physics, 2012, 51, 06FD02.	0.8	4
327	A Raman spectroscopic investigation of graphite oxide derived graphene. AIP Advances, 2012, 2, .	0.6	709
328	Electromagnetic interference shielding effectiveness of monolayer graphene. Nanotechnology, 2012, 23, 455704.	1.3	194

#	ARTICLE	IF	CITATIONS
329	Covalent chemistry in graphene electronics. <i>Materials Today</i> , 2012, 15, 276-285.	8.3	58
330	Electrochemical fabrication of long-term stable Pt-loaded PEDOT/graphene composites for ethanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14085-14093.	3.8	62
331	Effects of substrate material on carbon films grown by laser molecular beam epitaxy. <i>Applied Surface Science</i> , 2012, 263, 362-366.	3.1	3
332	Size-dependent genotoxicity of graphene nanoplatelets in human stem cells. <i>Biomaterials</i> , 2012, 33, 8017-8025.	5.7	662
333	Overall performance of natural rubber/graphene nanocomposites. <i>Composites Science and Technology</i> , 2012, 73, 40-46.	3.8	195
334	Development of PCM/carbon-based composite materials. <i>Solar Energy Materials and Solar Cells</i> , 2012, 107, 205-211.	3.0	47
335	Ammonia gas sensing behavior of graphene surface decorated with gold nanoparticles. <i>Solid-State Electronics</i> , 2012, 78, 159-165.	0.8	180
336	Visible-light-driven photocatalytic and photoelectrocatalytic debromination of BDE-47 on a macroporous silicon/graphene heterostructure. <i>Separation and Purification Technology</i> , 2012, 96, 154-160.	3.9	23
337	A Raman imaging study of growth process of few-layer epitaxial graphene on vicinal 6H-SiC. <i>Diamond and Related Materials</i> , 2012, 25, 80-83.	1.8	2
338	<i>Ab initio</i> characterization of graphene nanoribbons and their polymer precursors. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 104023.	0.7	3
339	Facile Approach for Superparamagnetic CNT-Fe ₃ O ₄ /Polystyrene Tricomponent Nanocomposite via Synergetic Dispersion. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 12017-12024.	1.8	27
340	Long-range atomic ordering and variable interlayer interactions in two overlapping graphene lattices with stacking misorientations. <i>Physical Review B</i> , 2012, 85, .	1.1	30
342	Fabrication of an electrical spin transport device utilizing a diazonium salt/hafnium oxide interface layer on epitaxial graphene grown on 6H-SiC(0001). <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, 04E109.	0.6	5
343	Quantum Transport in Graphene Nanoribbons with Realistic Edges. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18382-18387.	1.5	14
344	Influence of pH on the fluorescence properties of graphene quantum dots using ozonation pre-oxide hydrothermal synthesis. <i>Journal of Materials Chemistry</i> , 2012, 22, 25471.	6.7	196
345	Direct Growth of Graphene Nanoribbons for Large-Scale Device Fabrication. <i>Nano Letters</i> , 2012, 12, 6175-6179.	4.5	42
346	Laser-induced etching of few-layer graphene synthesized by Rapid-Chemical Vapour Deposition on Cu thin films. <i>SpringerPlus</i> , 2012, 1, 52.	1.2	9
347	Graphene-based ambipolar electronics for radio frequency applications. <i>Science Bulletin</i> , 2012, 57, 2956-2970.	1.7	22

#	ARTICLE	IF	CITATIONS
348	Wafer-scale graphene on 2 inch SiC with uniform structural and electrical characteristics. Science Bulletin, 2012, 57, 3022-3025.	1.7	7
349	Cell imaging by graphene oxide based on surface enhanced Raman scattering. Nanoscale, 2012, 4, 7084.	2.8	109
350	Characterization and drug release behavior of highly responsive chip-like electrically modulated reduced graphene oxide-poly(vinyl alcohol) membranes. Journal of Materials Chemistry, 2012, 22, 17311.	6.7	96
351	Homogeneous bilayer graphene film based flexible transparent conductor. Nanoscale, 2012, 4, 639-644.	2.8	48
352	Excitation of surface electromagnetic waves in a graphene-based Bragg grating. Scientific Reports, 2012, 2, 737.	1.6	97
353	Enhancement of infrared absorption of biomolecules absorbed on single-wall carbon nanotubes and graphene nanosheets. Journal of Nanophotonics, 2012, 6, 061711.	0.4	14
354	The interaction of halogen molecules with SWNTs and graphene. RSC Advances, 2012, 2, 1181-1188.	1.7	33
355	Scanning Tunneling Microscopy Study and Nanomanipulation of Graphene-Coated Water on Mica. Nano Letters, 2012, 12, 2665-2672.	4.5	102
356	Enhanced Electrochemical Expansion of Graphite for <i>in Situ</i> Electrochemical Functionalization. Journal of the American Chemical Society, 2012, 134, 17896-17899.	6.6	163
358	Graphene oxide strongly inhibits amyloid beta fibrillation. Nanoscale, 2012, 4, 7322.	2.8	197
359	Correlation between (in)commensurate domains of multilayer epitaxial graphene grown on SiC(0001) and the growth mechanism. Carbon, 2012, 50, 183-191.	1.3	19
360	Transformation of polymer to graphene films at partially low temperature. Polymer Chemistry, 2012, 3, 2712.	1.9	11
361	Hydrothermal synthesis of a monoclinic VO ₂ nanotube-graphene hybrid for use as cathode material in lithium ion batteries. Carbon, 2012, 50, 4839-4846.	5.4	96
362	Vibrational spectroscopy as a probe of molecule-based devices. Chemical Society Reviews, 2012, 41, 1929-1946.	18.7	33
363	Raman Imaging. Springer Series in Optical Sciences, 2012, , .	0.5	40
364	Electrochemistry: An Efficient Way to Chemically Modify Individual Monolayers of Graphene. Small, 2012, 8, 1326-1330.	5.2	35
365	Tuning the Doping Type and Level of Graphene with Different Gold Configurations. Small, 2012, 8, 3129-3136.	5.2	70
366	Understanding Charge Transfer at PbS-Decorated Graphene Surfaces toward a Tunable Photosensor. Advanced Materials, 2012, 24, 2715-2720.	11.1	177

#	ARTICLE	IF	CITATIONS
367	Preparation of graphene oxide by solvent-free mechanochemical oxidation of graphite. <i>Journal of Materials Chemistry</i> , 2012, 22, 12465.	6.7	73
368	Angle-Resolved Raman Imaging of Interlayer Rotations and Interactions in Twisted Bilayer Graphene. <i>Nano Letters</i> , 2012, 12, 3162-3167.	4.5	299
369	Phonon Energy Transfer in Graphene-Photoacid Hybrids. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4175-4181.	1.5	14
370	Low-Temperature Chemical Vapor Deposition Growth of Graphene from Toluene on Electropolished Copper Foils. <i>ACS Nano</i> , 2012, 6, 2471-2476.	7.3	240
371	Effects of disorder on the optical properties of CVD grown polycrystalline graphene. <i>Nanoscale</i> , 2012, 4, 1770.	2.8	37
372	Temperature dependent spin precession measurements in trilayer graphene utilizing co/graphene contacts. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, 03D115.	0.6	8
373	Structural Correlations in Heterogeneous Electron Transfer at Monolayer and Multilayer Graphene Electrodes. <i>Journal of the American Chemical Society</i> , 2012, 134, 7258-7261.	6.6	157
374	GraphITA 2011. <i>Carbon Nanostructures</i> , 2012, , .	0.1	1
375	Defects and impurities in graphene-like materials. <i>Materials Today</i> , 2012, 15, 98-109.	8.3	298
376	Phonon and Structural Changes in Deformed Bernal Stacked Bilayer Graphene. <i>Nano Letters</i> , 2012, 12, 687-693.	4.5	65
377	Raman spectroscopy of substrate-induced compression and substrate doping in thermally cycled graphene. <i>Physical Review B</i> , 2012, 85, .	1.1	26
378	Fifty years in studying carbon-based materials. <i>Physica Scripta</i> , 2012, T146, 014002.	1.2	43
379	Novel Highly Conductive and Transparent Graphene-Based Conductors. <i>Advanced Materials</i> , 2012, 24, 2844-2849.	11.1	289
380	Bilayer Graphene Grown on 4H-SiC (0001) Step-Free Mesas. <i>Nano Letters</i> , 2012, 12, 1749-1756.	4.5	50
381	Distinguishing defect induced intermediate frequency modes from combination modes in the Raman spectrum of single walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	11
382	Atomic Layer Deposition of Dielectrics on Graphene Using Reversibly Physisorbed Ozone. <i>ACS Nano</i> , 2012, 6, 2722-2730.	7.3	115
383	The use of a glucose-reduced graphene oxide suspension for photothermal cancer therapy. <i>Journal of Materials Chemistry</i> , 2012, 22, 13773.	6.7	393
384	Raman Spectroscopy of Folded and Scrolled Graphene. <i>ACS Nano</i> , 2012, 6, 5784-5790.	7.3	51

#	ARTICLE	IF	CITATIONS
385	Fabrication of Graphene Nanomesh and Improved Chemical Enhancement for Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15741-15746.	1.5	74
386	High-Throughput Graphene Imaging on Arbitrary Substrates with Widefield Raman Spectroscopy. <i>ACS Nano</i> , 2012, 6, 373-380.	7.3	47
387	Raman Imaging in Semiconductor Physics: Applications to Microelectronic Materials and Devices. <i>Springer Series in Optical Sciences</i> , 2012, , 39-83.	0.5	4
388	Broadband graphene terahertz modulators enabled by intraband transitions. <i>Nature Communications</i> , 2012, 3, 780.	5.8	893
389	Raman spectroscopy of nonstacked graphene flakes produced by plasma microjet deposition. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 884-888.	1.2	15
390	Surface-enhanced Raman spectra of individual multiwalled carbon nanotubes with small innermost diameters. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1381-1384.	1.2	7
391	Graphene oxide and its reduction: modeling and experimental progress. <i>RSC Advances</i> , 2012, 2, 2643.	1.7	463
392	Chemical modification of graphene characterized by Raman and transport experiments. <i>Nanoscale</i> , 2012, 4, 3781.	2.8	15
393	Layer-controlled and Wafer-scale Synthesis of Uniform and High-quality Graphene Films on a Polycrystalline Nickel Catalyst. <i>Advanced Functional Materials</i> , 2012, 22, 3153-3159.	7.8	93
394	Highly Conductive Few-layer Graphene/Al ₂ O ₃ Nanocomposites with Tunable Charge Carrier Type. <i>Advanced Functional Materials</i> , 2012, 22, 3882-3889.	7.8	145
395	Direct observation of inner and outer G band double-resonance Raman scattering in free standing graphene. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	17
396	Industrial graphene metrology. <i>Nanoscale</i> , 2012, 4, 3807.	2.8	19
397	Graphene-doped photo-patternable ionogels: tuning of conductivity and mechanical stability of 3D microstructures. <i>Journal of Materials Chemistry</i> , 2012, 22, 10552.	6.7	24
398	Femtosecond energy relaxation in suspended graphene: phonon-assisted spreading of quasiparticle distribution. <i>Applied Physics B: Lasers and Optics</i> , 2012, 107, 131-136.	1.1	10
399	Nanocrystalline tin compounds/graphene nanocomposite electrodes as anode for lithium-ion battery. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1767-1774.	1.2	30
400	Synthesis of graphene ribbons using selective chemical vapor deposition. <i>Current Applied Physics</i> , 2012, 12, 1113-1117.	1.1	16
401	Photo-thermal chemical vapor deposition growth of graphene. <i>Carbon</i> , 2012, 50, 668-673.	5.4	40
402	Growth of graphene on Cu by plasma enhanced chemical vapor deposition. <i>Carbon</i> , 2012, 50, 869-874.	5.4	164

#	ARTICLE	IF	CITATIONS
403	Rapid synthesis of few-layer graphene over Cu foil. Carbon, 2012, 50, 1546-1553.	5.4	72
404	Observation of the semiconductorâ€metal transition behavior in monolayer graphene. Carbon, 2012, 50, 2273-2279.	5.4	16
405	A roll-to-roll microwave plasma chemical vapor deposition process for the production of 294mm width graphene films at low temperature. Carbon, 2012, 50, 2615-2619.	5.4	155
406	Increasing the antioxidant activity of green tea polyphenols in the presence of iron for the reduction of graphene oxide. Carbon, 2012, 50, 3015-3025.	5.4	240
407	Characterizing intrinsic charges in top gated bilayer graphene device by Raman spectroscopy. Carbon, 2012, 50, 3435-3439.	5.4	22
408	The origin of sub-bands in the Raman D-band of graphene. Carbon, 2012, 50, 4252-4258.	5.4	54
409	Raman modes and GrÃ¼neisen parameters of graphite under compressive biaxial stress. Carbon, 2012, 50, 4600-4606.	5.4	28
410	Combustion synthesis and characterization of nickel aluminideâ€carbon nanotube composites. Chemical Engineering Journal, 2012, 183, 515-525.	6.6	16
411	Lateral size selection of surfactant-stabilised graphene flakes using size exclusion chromatography. Chemical Physics Letters, 2012, 531, 169-172.	1.2	21
412	Mass-production of highly-crystalline few-layer graphene sheets by arc discharge in various H2â€inert gas mixtures. Chemical Physics Letters, 2012, 538, 72-76.	1.2	104
413	Gamma ray assisted fabrication of fluorescent oligographene nanoribbons. Materials Research Bulletin, 2012, 47, 1996-2000.	2.7	6
414	Synthesis of graphenes on Ni foils by chemical vapor deposition of alcohol with IR-lamp heating. Materials Letters, 2012, 79, 21-24.	1.3	6
415	Exfoliated graphite nanoplateletsâ€V2O5 nanotube composite electrodes for supercapacitors. Journal of Power Sources, 2012, 203, 227-232.	4.0	112
416	Differential pulse voltammetric analysis of lead in vegetables using a surface amino-functionalized exfoliated graphite nanoplatelet chemically modified electrode. Sensors and Actuators B: Chemical, 2012, 166-167, 842-847.	4.0	9
417	Effect of substrate temperature on few-layer graphene grown on Al2O3 (0001) via direct carbon atoms deposition. Solid State Communications, 2012, 152, 960-963.	0.9	10
418	Spectroscopic studies of large sheets of graphene oxide and reduced graphene oxide monolayers prepared by Langmuirâ€Blodgett technique. Thin Solid Films, 2012, 520, 5991-5996.	0.8	76
419	Effects of methane flux on structural and transport properties of CVD-grown graphene films. Vacuum, 2012, 86, 895-898.	1.6	32
420	Enhancement of the Raman scattering intensity in folded bilayer graphene. Journal of the Korean Physical Society, 2012, 60, 1278-1281.	0.3	4

#	ARTICLE	IF	CITATIONS
421	How to obtain a reliable structural characterization of polished graphitized carbons by Raman microspectroscopy. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 207-211.	1.2	83
422	CO ₂ Laser-Induced Growth of Epitaxial Graphene on 6H-SiC(0001). <i>Advanced Functional Materials</i> , 2012, 22, 113-120.	7.8	65
423	Polycrystalline Graphene Ribbons as Chemiresistors. <i>Advanced Materials</i> , 2012, 24, 53-57.	11.1	177
424	Observation of low-wavenumber out-of-plane optical phonon in few-layer graphene. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 70-74.	1.2	9
425	Hydrogen sulfide adsorption on a defective graphene. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 786-791.	1.0	50
426	Comparative Analysis of the IR Signal Enhancement of Biomolecules Adsorbed on Graphene and Graphene Oxide Nanosheets. <i>Springer Proceedings in Physics</i> , 2013, , 25-34.	0.1	3
427	The influence of residual oxidizing impurities on the synthesis of graphene by atmospheric pressure chemical vapor deposition. <i>Carbon</i> , 2013, 63, 84-91.	5.4	38
428	Controllable functionalization and wettability transition of graphene-based films by an atomic oxygen strategy. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1811.	0.8	18
429	All-carbon field emission device by direct synthesis of graphene and carbon nanotube. <i>Diamond and Related Materials</i> , 2013, 31, 42-46.	1.8	27
430	Impact of Chlorine Functionalization on High-Mobility Chemical Vapor Deposition Grown Graphene. <i>ACS Nano</i> , 2013, 7, 7262-7270.	7.3	111
431	Strainology of Raman phonons in bended, periodically buckled, and rippled graphene. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	0
432	Strain in Graphene Sheets Attached to a Porous Alumina Membrane. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15991-15995.	1.5	7
433	Reversible Loss of Bernal Stacking during the Deformation of Few-Layer Graphene in Nanocomposites. <i>ACS Nano</i> , 2013, 7, 7287-7294.	7.3	68
434	Very low energy electron microscopy of graphene flakes. <i>Journal of Microscopy</i> , 2013, 251, 123-127.	0.8	10
435	Electrolytic graphene oxide and its electrochemical properties. <i>Journal of Electroanalytical Chemistry</i> , 2013, 704, 233-241.	1.9	29
436	Revealing anisotropic strain in exfoliated graphene by polarized Raman spectroscopy. <i>Nanoscale</i> , 2013, 5, 9626.	2.8	19
437	Epitaxial growth of single-domain graphene on hexagonal boron nitride. <i>Nature Materials</i> , 2013, 12, 792-797.	13.3	882
438	Carrier Lifetime in Exfoliated Few-Layer Graphene Determined from Intersubband Optical Transitions. <i>Physical Review Letters</i> , 2013, 110, 217406.	2.9	50

#	ARTICLE	IF	CITATIONS
439	Exploiting Multivalent Nanoparticles for the Supramolecular Functionalization of Graphene with a Nonplanar Recognition Motif. <i>Chemistry - A European Journal</i> , 2013, 19, 9843-9848.	1.7	15
440	A simple method for achieving surface-enhanced Raman scattering of single-layer and few-layer graphene. <i>Journal of Molecular Structure</i> , 2013, 1040, 213-215.	1.8	1
441	Raman spectroscopy of morphology-controlled deposition of Au on graphene. <i>Carbon</i> , 2013, 59, 487-494.	5.4	49
442	In Situ Raman Studies of Electrically Reduced Graphene Oxide and Its Field-Emission Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5485-5491.	1.5	44
443	Three-dimensional Sn-graphene anode for high-performance lithium-ion batteries. <i>Nanoscale</i> , 2013, 5, 10599.	2.8	141
444	Carbon nanorods and graphene-like nanosheets by hot filament CVD: growth mechanisms and electron field emission. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7703.	2.7	24
445	Reduction of free-standing graphene oxide papers by a hydrothermal process at the solid/gas interface. <i>RSC Advances</i> , 2013, 3, 2971.	1.7	29
446	Raman spectroscopy of graphene at high pressure: Effects of the substrate and the pressure transmitting media. <i>Physical Review B</i> , 2013, 88, .	1.1	56
447	Synthesis and Evolution of Zirconium Carbide via Sol-Gel Route: Features of Nanoparticle Oxide-Carbon Reactions. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1099-1106.	1.9	32
448	Synthesis of Graphene Films by Rapid Heating and Quenching at Ambient Pressures and Their Electrochemical Characterization. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 546-552.	4.0	22
449	Networks of ABA and ABC stacked graphene on mica observed by scanning tunneling microscopy. <i>Surface Science</i> , 2013, 610, 53-58.	0.8	66
450	Microscopic characterisation of suspended graphene grown by chemical vapour deposition. <i>Nanoscale</i> , 2013, 5, 9057.	2.8	10
451	Direct growth of aligned graphitic nanoribbons from a DNA template by chemical vapour deposition. <i>Nature Communications</i> , 2013, 4, 2402.	5.8	47
452	Investigation of morphology, structure and composition of biomass-oil soot particles. <i>Applied Surface Science</i> , 2013, 270, 596-603.	3.1	39
453	Temperature dependence of the electrical transport properties in few-layer graphene interconnects. <i>Nanoscale Research Letters</i> , 2013, 8, 335.	3.1	108
454	Raman spectroscopy for the study of reduction mechanisms and optimization of conductivity in graphene oxide thin films. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6905.	2.7	259
455	Site-Selective Epitaxy of Graphene on Si Wafers. <i>Proceedings of the IEEE</i> , 2013, 101, 1557-1566.	16.4	13
456	Graphene transfer with reduced residue. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 1455-1458.	0.9	140

#	ARTICLE	IF	CITATIONS
457	Raman spectroscopic studies of pulsed laser-induced defect evolution in graphene. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 798-802.	1.2	11
458	Chemical Vapor Deposition Synthesis and Raman Spectroscopic Characterization of Large-Area Graphene Sheets. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9454-9461.	1.1	57
459	Graphene Synthesis via Magnetic Inductive Heating of Copper Substrates. <i>ACS Nano</i> , 2013, 7, 7495-7499.	7.3	77
460	Effects of X-ray irradiation on the structure and field electron emission properties of vertically aligned few-layer graphene. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 304, 49-56.	0.6	11
461	Synthesis of Millimeter-Size Hexagon-Shaped Graphene Single Crystals on Resolidified Copper. <i>ACS Nano</i> , 2013, 7, 8924-8931.	7.3	178
462	Large-scale and low cost synthesis of graphene as high capacity anode materials for lithium-ion batteries. <i>Carbon</i> , 2013, 64, 158-169.	5.4	40
463	Potential dependence of SERS spectra of reduced graphene oxide adsorbed on self-assembled monolayer at gold electrode. <i>Chemical Physics Letters</i> , 2013, 590, 141-145.	1.2	10
465	Highly active Pt nanoparticles on nickel phthalocyanine functionalized graphene nanosheets for methanol electrooxidation. <i>Electrochimica Acta</i> , 2013, 113, 653-660.	2.6	38
466	Graphene-poly(5-aminoindole) composite film as Pt catalyst support for methanol electrooxidation in alkaline medium. <i>Electrochimica Acta</i> , 2013, 107, 292-300.	2.6	42
467	Chemical conversion of biomass-derived hexose sugars to levulinic acid over sulfonic acid-functionalized graphene oxide catalysts. <i>Green Chemistry</i> , 2013, 15, 2935.	4.6	195
468	Interfacial graphene growth in the Ni/SiO ₂ system using pulsed laser deposition. <i>Applied Physics Letters</i> , 2013, 103, 134102.	1.5	20
469	High-Temperature Growth of Graphene Films on Copper Foils by Ethanol Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21569-21576.	1.5	68
470	Ultrasonication Induces Oxygenated Species and Defects onto Exfoliated Graphene. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23272-23278.	1.5	117
471	Structural Instability of Transferred Graphene Grown by Chemical Vapor Deposition against Heating. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22123-22130.	1.5	22
472	Strong magnetophonon resonance induced triple G-mode splitting in graphene on graphite probed by micromagneto Raman spectroscopy. <i>Physical Review B</i> , 2013, 88, .	1.1	17
473	Boron and nitrogen co-doping of diamond-like carbon film for transparent conductive films. <i>Applied Surface Science</i> , 2013, 284, 53-58.	3.1	12
474	Propagative Exfoliation of High Quality Graphene. <i>Chemistry of Materials</i> , 2013, 25, 4487-4496.	3.2	26
475	Surface Area Measurement of Graphene Oxide in Aqueous Solutions. <i>Langmuir</i> , 2013, 29, 13443-13448.	1.6	195

#	ARTICLE	IF	CITATIONS
476	Direct transfer of graphene onto flexible substrates. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17762-17767.	3.3	170
477	Open loop Kelvin probe force microscopy with single and multi-frequency excitation. Nanotechnology, 2013, 24, 475702.	1.3	63
478	Excimer laser-induced diamond graphitization for high-energy nuclear applications. Applied Physics B: Lasers and Optics, 2013, 113, 373-378.	1.1	4
479	Solid-source growth and atomic-scale characterization of graphene on Ag(111). Nature Communications, 2013, 4, .	5.8	107
480	High yield of graphene by dispersant-free liquid exfoliation of mechanochemically delaminated graphite. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	46
481	The effect of fluid mechanics on graphene growths by chemical vapor deposition. , 2013, , .		0
482	UV-irradiation induced defect formation on graphene on metals. Chemical Physics Letters, 2013, 587, 56-60.	1.2	18
483	Epitaxial Graphene and Graphene-Based Devices Studied by Electrical Scanning Probe Microscopy. Crystals, 2013, 3, 191-233.	1.0	69
484	Copper phthalocyanine functionalization of graphene nanosheets as support for platinum nanoparticles and their enhanced performance toward methanol oxidation. Journal of Power Sources, 2013, 242, 208-215.	4.0	47
485	Curly Graphene with Specious Interlayers Displaying Superior Capacity for Hydrogen Storage. Journal of Physical Chemistry C, 2013, 117, 25845-25851.	1.5	55
486	The Dependence of Graphene Raman D-band on Carrier Density. Nano Letters, 2013, 13, 6170-6175.	4.5	138
487	Three-Dimensional Graphene Foam Supported Fe ₃ O ₄ Lithium Battery Anodes with Long Cycle Life and High Rate Capability. Nano Letters, 2013, 13, 6136-6143.	4.5	738
488	Carbon Nanotube Enhanced Aerospace Composite Materials. Solid Mechanics and Its Applications, 2013, , .	0.1	12
489	Development of an ultra-thin film comprised of a graphene membrane and carbon nanotube vein support. Nature Communications, 2013, 4, 2920.	5.8	71
490	Evolution of Physical and Electronic Structures of Bilayer Graphene upon Chemical Functionalization. Journal of the American Chemical Society, 2013, 135, 18866-18875.	6.6	43
491	First-principles study of excitonic effects in Raman intensities. Physical Review B, 2013, 88, .	1.1	33
492	Influence of the buffer layer properties on the intensity of Raman scattering of graphene. Journal of Raman Spectroscopy, 2013, 44, 803-809.	1.2	17
493	Graphene for tough and electroconductive alumina ceramics. Journal of the European Ceramic Society, 2013, 33, 3201-3210.	2.8	183

#	ARTICLE	IF	CITATIONS
494	Design and synthesis of NiO nanoflakes/graphene nanocomposite as high performance electrodes of pseudocapacitor. RSC Advances, 2013, 3, 19409.	1.7	58
495	Scalable and Direct Growth of Graphene Micro Ribbons on Dielectric Substrates. Scientific Reports, 2013, 3, 1348.	1.6	36
496	High quality graphene synthesized by atmospheric pressure CVD on copper foil. Surface and Coatings Technology, 2013, 230, 87-92.	2.2	25
497	Prospects of the Emerging Raman Scattering Tools for Surface and Nanoanalysis. Mapan - Journal of Metrology Society of India, 2013, 28, 285-297.	1.0	1
498	Two-dimensional vanadyl phosphate ultrathin nanosheets for high energy density and flexible pseudocapacitors. Nature Communications, 2013, 4, 2431.	5.8	356
499	Spectroscopic characterization of graphene films grown on Pt(111) surface by chemical vapor deposition of ethylene. Journal of Raman Spectroscopy, 2013, 44, 1393-1397.	1.2	34
500	Mechanically Strong and Multifunctional Polyimide Nanocomposites Using Amimophenyl Functionalized Graphene Nanosheets. Macromolecules, 2013, 46, 3505-3511.	2.2	126
501	In situ Raman spectroscopy and thermal analysis of the formation of nitrogen-doped graphene from urea and graphite oxide. RSC Advances, 2013, 3, 21763.	1.7	43
502	Formation of uniformly sized gold nanoparticles over graphene by MeV electron beam irradiation for transparent conducting films. Applied Physics Letters, 2013, 102, .	1.5	11
503	Electronic structure of MoO ₃ /graphene interface. Carbon, 2013, 65, 46-52.	5.4	47
504	A green reduction of graphene oxide via starch-based materials. RSC Advances, 2013, 3, 21466.	1.7	62
505	Manifestation of Charged and Strained Graphene Layers in the Raman Response of Graphite Intercalation Compounds. ACS Nano, 2013, 7, 9249-9259.	7.3	100
506	Rapid Large-Area Multiphoton Microscopy for Characterization of Graphene. ACS Nano, 2013, 7, 8441-8446.	7.3	81
507	Real-Time Observation of Interlayer Vibrations in Bilayer and Few-Layer Graphene. Nano Letters, 2013, 13, 4620-4623.	4.5	54
508	P-doped Graphene Obtained by Pyrolysis of Modified Alginate as a Photocatalyst for Hydrogen Generation from Water/Methanol Mixtures. Angewandte Chemie - International Edition, 2013, 52, 11813-11816.	7.2	245
509	Turning off Hydrogen To Realize Seeded Growth of Subcentimeter Single-Crystal Graphene Grains on Copper. ACS Nano, 2013, 7, 9480-9488.	7.3	219
510	Plasmons in graphene: Recent progress and applications. Materials Science and Engineering Reports, 2013, 74, 351-376.	14.8	323
511	Ab Initio Study of the Vibrational Signatures for the Covalent Functionalization of Graphene. Journal of Physical Chemistry C, 0, , 130917155202007.	1.5	5

#	ARTICLE	IF	CITATIONS
512	Low Temperature Graphene Synthesis from Poly(methyl methacrylate) Using Microwave Plasma Treatment. Applied Physics Express, 2013, 6, 115102.	1.1	12
513	Carbon nanotube growth on high modulus carbon fibres: Morphological and interfacial characterization. Surface and Interface Analysis, 2013, 45, 1372-1381.	0.8	29
514	Surface doping of nitrogen atoms on graphene via molecular precursor. Applied Physics Letters, 2013, 102, .	1.5	14
515	Ultraviolet/ozone treatment to reduce metal-graphene contact resistance. Applied Physics Letters, 2013, 102, .	1.5	112
516	Growth of graphene underlayers by chemical vapor deposition. AIP Advances, 2013, 3, .	0.6	13
517	Strain relaxation in graphene grown by chemical vapor deposition. Journal of Applied Physics, 2013, 114, .	1.1	28
518	Gate dependent Raman spectroscopy of graphene on hexagonal boron nitride. Journal of Physics Condensed Matter, 2013, 25, 505304.	0.7	9
519	A high power density electrode with ultralow carbon via direct growth of particles on graphene sheets. Journal of Materials Chemistry A, 2013, 1, 6183.	5.2	20
520	Intercalation of metals and silicon at the interface of epitaxial graphene and its substrates. Chinese Physics B, 2013, 22, 096803.	0.7	12
521	Using Optical Anisotropy as a Quality Factor To Rapidly Characterize Structural Qualities of Large-Area Graphene Films. Analytical Chemistry, 2013, 85, 1605-1614.	3.2	11
522	Characterisation Techniques. , 2013, , 229-332.		8
523	van der Waals Epitaxial Growth of Graphene on Sapphire by Chemical Vapor Deposition without a Metal Catalyst. ACS Nano, 2013, 7, 385-395.	7.3	211
524	Stress Induced Changes in the Raman Spectrum of Carbon Nanostructures and Their Composites. Solid Mechanics and Its Applications, 2013, , 185-217.	0.1	5
525	Plasma oxidation of thermally grown graphenes and their characterization. Vacuum, 2013, 87, 200-204.	1.6	6
526	Graphene growth by molecular beam epitaxy. , 2013, , 547-557.		0
527	Excimer laser reduction and patterning of graphite oxide. Carbon, 2013, 53, 81-89.	5.4	107
528	Use of Optical Contrast To Estimate the Degree of Reduction of Graphene Oxide. Journal of Physical Chemistry C, 2013, 117, 620-625.	1.5	52
529	Symmetry of the carbon nanotube modes and their origin from the phonon branches of graphene. Physical Review B, 2013, 87, .	1.1	12

#	ARTICLE	IF	CITATIONS
530	Graphene and its derivatives for cell biotechnology. <i>Analyst, The</i> , 2013, 138, 72-86.	1.7	48
531	Flexible Organic Photovoltaic Cells with In Situ Nonthermal Photoreduction of Spin-Coated Graphene Oxide Electrodes. <i>Advanced Functional Materials</i> , 2013, 23, 2742-2749.	7.8	167
532	Graphene-Coated Gold Substrate for Surface-Enhanced Raman Spectroscopy. <i>Advanced Materials</i> , 2013, 25, 928-933.	11.1	209
533	Laser-Assisted Simultaneous Patterning and Transferring of Graphene. <i>Journal of Physical Chemistry C</i> , 2013, 117, 663-668.	1.5	24
534	Nitrogen-doped graphene by microwave plasma chemical vapor deposition. <i>Thin Solid Films</i> , 2013, 528, 269-273.	0.8	38
535	Large physisorption strain and edge modification of Pd on monolayer graphene. <i>Nanoscale</i> , 2013, 5, 124-127.	2.8	7
536	Few layer graphene to graphitic films: infrared photoconductive versus bolometric response. <i>Nanoscale</i> , 2013, 5, 381-389.	2.8	37
537	Casimir effect demonstrated by Raman spectroscopy on trilayer graphene intercalated into stiff layered structures of surfactant. <i>Carbon</i> , 2013, 51, 134-142.	5.4	3
538	Polycrystallinity and Stacking in CVD Graphene. <i>Accounts of Chemical Research</i> , 2013, 46, 2286-2296.	7.6	53
539	Fabrication of graphene-carbon nanotubes composite-based flexible transparent conductive films and their improved durability on repetitive strain. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 29-34.	1.1	4
540	In situ fabrication of platinum/graphene composite shell on polymer microspheres through reactive self-assembly and in situ reduction. <i>Journal of Materials Science</i> , 2013, 48, 1127-1133.	1.7	12
541	Electrodeposition of platinum nanoparticles on polypyrrole-functionalized graphene. <i>Journal of Materials Science</i> , 2013, 48, 2566-2573.	1.7	19
542	Tunable bandgap of a single layer graphene doped by the manganese oxide using the electrochemical doping. <i>Applied Physics Letters</i> , 2013, 102, 032106.	1.5	17
543	The role of soot particles in the tribological behavior of engine lubricating oils. <i>Wear</i> , 2013, 304, 152-161.	1.5	89
544	Density functional theory study of the vibrational properties of hydrogenated graphene. <i>Solid State Communications</i> , 2013, 157, 24-28.	0.9	13
545	Graphene-induced crystallinity of bisphenol A polycarbonate in the presence of supercritical carbon dioxide. <i>Polymer</i> , 2013, 54, 6389-6398.	1.8	21
546	Resonance Raman spectroscopy in twisted bilayer graphene. <i>Solid State Communications</i> , 2013, 175-176, 13-17.	0.9	24
547	Raman spectroscopy study of carbon-doped resorcinol-formaldehyde thin films. <i>Physica Scripta</i> , 2013, T157, 014039.	1.2	2

#	ARTICLE	IF	CITATIONS
548	CW Mode-Locked 1.908 Åm Tm:LiYF4Slab Laser Based on an Output-Coupling Graphene Saturable Absorber Mirror. Applied Physics Express, 2013, 6, 102701.	1.1	13
549	Reduction of graphene oxide at the interface between a Ni layer and a SiO2 substrate. Carbon, 2013, 59, 472-478.	5.4	29
550	Pressure sensors based on suspended graphene membranes. Solid-State Electronics, 2013, 88, 89-94.	0.8	70
551	CVD growth of SiC on sapphire substrate and graphene formation from the epitaxial SiC. Journal of Crystal Growth, 2013, 366, 26-30.	0.7	11
552	Observation of coherent lattice vibrations in epitaxial graphene. Solid State Communications, 2013, 171, 14-16.	0.9	2
553	Effect of repetitive strain on the electrical durability of graphene-based, flexible, transparent, conductive films. Journal of the Korean Physical Society, 2013, 62, 263-268.	0.3	1
554	Enhanced Performance and Fermi-Level Estimation of Coronene-Derived Graphene Transistors on Self-Assembled Monolayer Modified Substrates in Large Areas. Journal of Physical Chemistry C, 2013, 117, 4800-4807.	1.5	27
555	Localized synthesis of horizontally suspended carbon nanotubes. Carbon, 2013, 57, 259-266.	5.4	14
556	Ultraviolet laser deposition of graphene thin films without catalytic layers. Applied Physics Letters, 2013, 102, .	1.5	32
557	Graphene synthesis: relationship to applications. Nanoscale, 2013, 5, 38-51.	2.8	631
558	Mechanical Strain of Chemically Functionalized Chemical Vapor Deposition Grown Graphene. Journal of Physical Chemistry C, 2013, 117, 3152-3159.	1.5	46
559	Large area coating of graphene at low temperature using a roll-to-roll microwave plasma chemical vapor deposition. Thin Solid Films, 2013, 532, 89-93.	0.8	55
560	Pyrene-Tagged Dendritic Catalysts Noncovalently Grafted onto Magnetic Co/C Nanoparticles: An Efficient and Recyclable System for Drug Synthesis. Angewandte Chemie - International Edition, 2013, 52, 3626-3629.	7.2	94
561	A growth mechanism for graphene deposited on polycrystalline Co film by plasma enhanced chemical vapor deposition. New Journal of Chemistry, 2013, 37, 1616.	1.4	23
562	Towards full repair of defects in reduced graphene oxide films by two-step graphitization. Nano Research, 2013, 6, 216-233.	5.8	199
563	Achieving concentrated graphene dispersions in water/acetone mixtures by the strategy of tailoring Hansen solubility parameters. Journal Physics D: Applied Physics, 2013, 46, 025301.	1.3	133
564	Methane as an effective hydrogen source for single-layer graphene synthesis on Cu foil by plasma enhanced chemical vapor deposition. Nanoscale, 2013, 5, 1221.	2.8	104
565	Size-dependence of Raman scattering from graphene quantum dots: Interplay between shape and thickness. Applied Physics Letters, 2013, 102, .	1.5	63

#	ARTICLE	IF	CITATIONS
566	Measurement of layer breathing mode vibrations in few-layer graphene. <i>Physical Review B</i> , 2013, 87, .	1.1	101
567	Functional Polymer Brushes on Hydrogenated Graphene. <i>Chemistry of Materials</i> , 2013, 25, 466-470.	3.2	40
568	Dark-field transmission electron microscopy and the Debye-Waller factor of graphene. <i>Physical Review B</i> , 2013, 87, 045417.	1.1	35
569	Scotch-tape-like exfoliation of graphite assisted with elemental sulfur and graphene-sulfur composites for high-performance lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2013, 6, 1283.	15.6	246
570	Free Energy Relationships in the Electrical Double Layer over Single-Layer Graphene. <i>Journal of the American Chemical Society</i> , 2013, 135, 979-981.	6.6	28
571	Genotoxicity of graphene nanoribbons in human mesenchymal stem cells. <i>Carbon</i> , 2013, 54, 419-431.	5.4	239
572	N-Doped Graphene-VO ₂ (B) Nanosheet-Built 3D Flower Hybrid for Lithium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2708-2714.	4.0	172
573	Raman spectroscopy as a versatile tool for studying the properties of graphene. <i>Nature Nanotechnology</i> , 2013, 8, 235-246.	15.6	5,652
574	Graphene: A Platform for Surface-Enhanced Raman Spectroscopy. <i>Small</i> , 2013, 9, 1206-1224.	5.2	453
575	Group of Carbon. , 2013, , 221-234.		0
576	Visualization of arrangements of carbon atoms in graphene layers by Raman mapping and atomic-resolution TEM. <i>Scientific Reports</i> , 2013, 3, 1195.	1.6	43
577	Tuning the Dirac Point in CVD-Grown Graphene through Solution Processed n-Type Doping with 2-(2-Methoxyphenyl)-1,3-dimethyl-2,3-dihydro-1 <i>H</i> -benzimidazole. <i>Nano Letters</i> , 2013, 13, 1890-1897.	4.5	129
578	All-Graphene Photodetectors. <i>ACS Nano</i> , 2013, 7, 5052-5057.	7.3	102
579	Highly Conductive Porous Graphene/Ceramic Composites for Heat Transfer and Thermal Energy Storage. <i>Advanced Functional Materials</i> , 2013, 23, 2263-2269.	7.8	277
580	The electronic properties of bilayer graphene. <i>Reports on Progress in Physics</i> , 2013, 76, 056503.	8.1	818
581	Graphene nanogrids for selective and fast osteogenic differentiation of human mesenchymal stem cells. <i>Carbon</i> , 2013, 59, 200-211.	5.4	215
582	Modern approaches to studying gas adsorption in nanoporous carbons. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9341.	5.2	47
583	Measurements of the Population Lifetime of D Band and G ² Band Phonons in Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2013, 13, 416-422.	4.5	9

#	ARTICLE	IF	CITATIONS
584	Ultrasound-free preparation of graphene oxide from mechanochemically oxidized graphite. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6658.	5.2	34
585	Operando Raman spectroscopy study on the deactivation of Pt/Al ₂ O ₃ and Pt-Sn/Al ₂ O ₃ propane dehydrogenation catalysts. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12095.	1.3	98
586	Hafnium intercalation between epitaxial graphene and Ir(111) substrate. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	23
587	Controlled Synthesis of Large-scale, Uniform, Vertically Standing Graphene for High-performance Field Emitters. <i>Advanced Materials</i> , 2013, 25, 250-255.	11.1	172
588	Graphene Nanomesh Promises Extremely Efficient In Vivo Photothermal Therapy. <i>Small</i> , 2013, 9, 3593-3601.	5.2	348
589	Control of Superhydrophilic and Superhydrophobic Graphene Interface. <i>Scientific Reports</i> , 2013, 3, .	1.6	100
590	Low-temperature graphene synthesis using microwave plasma CVD. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 063001.	1.3	96
591	Covalently Bonded Chitosan on Graphene Oxide via Redox Reaction. <i>Materials</i> , 2013, 6, 911-926.	1.3	89
592	Label-free detection of alanine aminotransferase using a graphene field-effect biosensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 396-400.	4.0	25
593	A novel voltammetric sensor based on p-aminothiophenol functionalized graphene oxide/gold nanoparticles for determining quercetin in the presence of ascorbic acid. <i>Journal of Electroanalytical Chemistry</i> , 2013, 698, 9-16.	1.9	141
594	Theoretical $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">2 \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle D \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{Raman}$ band of strained graphene. <i>Physical Review B</i> , 2013, 87, .	1.1	19
595	Janus graphene from asymmetric two-dimensional chemistry. <i>Nature Communications</i> , 2013, 4, 1443.	5.8	231
596	The SERS study of graphene deposited by gold nanoparticles with 785nm excitation. <i>Chemical Physics Letters</i> , 2013, 556, 146-150.	1.2	61
597	A new green, ascorbic acid-assisted method for versatile synthesis of Au-graphene hybrids as efficient surface-enhanced Raman scattering platforms. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4094.	2.7	111
598	Laser direct synthesis of graphene on quartz. <i>Carbon</i> , 2013, 53, 374-379.	5.4	51
599	Real time radiation dosimeters based on vertically aligned multiwall carbon nanotubes and graphene. <i>Nanotechnology</i> , 2013, 24, 075704.	1.3	14
600	Raman spectroscopy and electrical transport studies of free-standing epitaxial graphene: Evidence of an AB-stacked bilayer. <i>Physical Review B</i> , 2013, 87, .	1.1	5
601	Free Radical Reactions in Two Dimensions: A Case Study on Photochlorination of Graphene. <i>Small</i> , 2013, 9, 1388-1396.	5.2	19

#	ARTICLE	IF	CITATIONS
602	Scanning-Raman-Microscopy for the Statistical Analysis of Covalently Functionalized Graphene. ACS Nano, 2013, 7, 5472-5482.	7.3	143
603	Optimization of graphene dry etching conditions via combined microscopic and spectroscopic analysis. Applied Physics Letters, 2013, 102, 193111.	1.5	26
604	Spectroscopic Characterization of the Chiral Structure of Individual Single-Walled Carbon Nanotubes and the Edge Structure of Isolated Graphene Nanoribbons. Small, 2013, 9, 1284-1304.	5.2	32
605	Novel Carbon-Based Nanomaterials. , 2013, , 61-87.		5
606	Spin injection properties in trilayer graphene lateral spin valves. Applied Physics Letters, 2013, 102, 033105.	1.5	20
607	Lipid Enhanced Exfoliation for Production of Graphene Nanosheets. Journal of Physical Chemistry C, 2013, 117, 11800-11803.	1.5	38
608	SYNTHETIC GRAPHENE GROWN BY CHEMICAL VAPOR DEPOSITION ON COPPER FOILS. International Journal of Modern Physics B, 2013, 27, 1341002.	1.0	30
609	Enhanced Photocatalytic Activity of Chemically Bonded TiO ₂ /Graphene Composites Based on the Effective Interfacial Charge Transfer through the C-Ti Bond. ACS Catalysis, 2013, 3, 1477-1485.	5.5	461
610	Broadband saturable absorption and optical limiting in graphene-polymer composites. Applied Physics Letters, 2013, 102, .	1.5	47
611	Raman spectroscopy of four epitaxial graphene layers: Macro-island grown on 4H-SiC substrate and an associated strain distribution. Thin Solid Films, 2013, 539, 377-383.	0.8	16
612	One-step synthesis of graphene via catalyst-free gas-phase hydrocarbon detonation. Nanotechnology, 2013, 24, 245602.	1.3	50
613	Graphene Growth and Device Integration. Proceedings of the IEEE, 2013, 101, 1536-1556.	16.4	46
614	Disorder Imposed Limits of Mono- and Bilayer Graphene Electronic Modification Using Covalent Chemistry. Nano Letters, 2013, 13, 809-817.	4.5	62
615	Hydrogen Kinetics on Scalable Graphene Growth by Atmospheric Pressure Chemical Vapor Deposition with Acetylene. Journal of Physical Chemistry C, 2013, 117, 14348-14353.	1.5	72
616	Intrinsic Line Shape of the Raman 2D-Mode in Freestanding Graphene Monolayers. Nano Letters, 2013, 13, 3517-3523.	4.5	75
617	Cleavage and size reduction of graphite crystal using ultrasound radiation. Carbon, 2013, 55, 53-61.	5.4	40
618	Mixed phase, sp ² -sp ³ bonded, and disordered few layer graphene-like nanocarbon: Synthesis and characterizations. Applied Surface Science, 2013, 271, 86-92.	3.1	23
619	Evolution of Raman spectra in nitrogen doped graphene. Carbon, 2013, 61, 57-62.	5.4	228

#	ARTICLE	IF	CITATIONS
620	Fano resonance in Raman scattering of graphene. Carbon, 2013, 61, 373-378.	5.4	34
621	Hexagonal Graphene Onion Rings. Journal of the American Chemical Society, 2013, 135, 10755-10762.	6.6	31
622	Salt-assisted direct exfoliation of graphite into high-quality, large-size, few-layer graphene sheets. Nanoscale, 2013, 5, 7202.	2.8	88
623	Field effect transistors and RC filters from pencil-trace on paper. Physical Chemistry Chemical Physics, 2013, 15, 8367.	1.3	81
624	Terahertz and optical study of monolayer graphene processed by plasma oxidation. Applied Physics Letters, 2013, 102, .	1.5	24
625	Simple, rapid and green one-step strategy to synthesis of graphene/carbon nanotubes/chitosan hybrid as solid-phase extraction for square-wave voltammetric detection of methyl parathion. Colloids and Surfaces B: Biointerfaces, 2013, 108, 266-270.	2.5	37
626	Pencil-on-paper: electronic devices. Lab on A Chip, 2013, 13, 2866.	3.1	181
627	Theory of coherent phonons in carbon nanotubes and graphene nanoribbons. Journal of Physics Condensed Matter, 2013, 25, 144201.	0.7	30
628	A Platform for Large-Scale Graphene Electronics – CVD Growth of Single-Layer Graphene on CVD-Grown Hexagonal Boron Nitride. Advanced Materials, 2013, 25, 2746-2752.	11.1	227
629	Carbonisation of biomass-derived chars and the thermal reduction of a graphene oxide sample studied using Raman spectroscopy. Carbon, 2013, 59, 383-405.	5.4	144
630	The production of a corrosion resistant graphene reinforced composite coating on copper by electrophoretic deposition. Carbon, 2013, 61, 47-56.	5.4	224
631	Terahertz, optical, and Raman signatures of monolayer graphene behavior in thermally reduced graphene oxide films. Journal of Applied Physics, 2013, 113, .	1.1	20
632	Density, Refractive Index, and Ultrasound Speed in Mixtures of Active Carbon and Exfoliated Graphite Nanoplatelets Dispersed in <i>N,N</i> -Dimethylformamide at Temperatures from (293.15 to 318.15) K. Journal of Chemical & Engineering Data, 2013, 58, 1212-1222.	1.0	8
633	Self-Limiting Chemical Vapor Deposition Growth of Monolayer Graphene from Ethanol. Journal of Physical Chemistry C, 2013, 117, 10755-10763.	1.5	92
634	Photocatalytic degradation of pendimethalin over Cu ₂ O/SnO ₂ /graphene and SnO ₂ /graphene nanocomposite photocatalysts under visible light irradiation. Materials Chemistry and Physics, 2013, 140, 373-381.	2.0	35
635	Ellipsometry at the Nanoscale. , 2013, , .		104
636	Graphene versus Multi-Walled Carbon Nanotubes for Electrochemical Glucose Biosensing. Materials, 2013, 6, 1011-1027.	1.3	69
637	Effects of controllable biaxial strain on the Raman spectra of monolayer graphene prepared by chemical vapor deposition. Applied Physics Letters, 2013, 102, .	1.5	48

#	ARTICLE	IF	CITATIONS
638	Photo-thermal chemical vapor deposition of graphene on copper. <i>Carbon</i> , 2013, 62, 43-50.	5.4	32
639	Graphene-Thickness-Dependent Graphene-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2369-2376.	1.5	93
640	Electric double-layer capacitance between an ionic liquid and few-layer graphene. <i>Scientific Reports</i> , 2013, 3, 1595.	1.6	138
641	A study of the key parameters, including the crucial role of H ₂ for uniform graphene growth on Ni foil. <i>Journal of Molecular Catalysis A</i> , 2013, 366, 303-314.	4.8	25
642	Experimental confirmation of suspended few-layered graphene on a Cu substrate grown via the CVD method and correlated with the electrical performance on a PET substrate. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 345301.	1.3	4
643	<i>In Situ</i> Raman Probing of Graphene over a Broad Doping Range upon Rubidium Vapor Exposure. <i>ACS Nano</i> , 2013, 7, 165-173.	7.3	30
644	Transfer-Free Selective Area Synthesis of Graphene Using Solid-State Self-Segregation of Carbon In Cu/Ni Bilayers. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, M17-M21.	0.9	14
645	Surface modification of a neural sensor using graphene. <i>Electrochimica Acta</i> , 2013, 94, 42-48.	2.6	12
646	Imprint of transition metal d orbitals on a graphene Dirac cone. <i>Physical Review B</i> , 2013, 88, .	1.1	31
647	Solution-Based Carbohydrate Synthesis of Individual Solid, Hollow, and Porous Carbon Nanospheres Using Spray Pyrolysis. <i>ACS Nano</i> , 2013, 7, 11156-11165.	7.3	92
648	The annealing effect of chemical vapor deposited graphene. , 2013, , .		2
649	Fabrication and characterization of graphene derived from SiC. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 2386-2394.	2.0	5
650	Graphene oxide-based drug delivery vehicles: functionalization, characterization, and cytotoxicity evaluation. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	73
651	Differentiation of human neural stem cells into neural networks on graphene nanogrids. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6291.	2.9	153
652	Is Chemically Synthesized Graphene â€œReallyâ€™ a Unique Substrate for SERS and Fluorescence Quenching?. <i>Scientific Reports</i> , 2013, 3, 3336.	1.6	48
653	Do Nanotubes Follow an Amorphization Trajectory as Other Nanocarbons Do?. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14206-14212.	1.5	4
654	Modification on Single-Layer Graphene Induced by Low-Energy Electron-Beam Irradiation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10079-10085.	1.5	43
655	Polyetherimide/Bucky Gels Nanocomposites with Superior Conductivity and Thermal Stability. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7478-7484.	4.0	19

#	ARTICLE	IF	CITATIONS
656	Thickness and stacking geometry effects on high frequency overtone and combination Raman modes of graphene. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 86-91.	1.2	14
657	A Study of Spatially-Resolved Non-Equilibrium in Laser-Irradiated Graphene Using Boltzmann Transport Equation. , 2013, , .		1
658	Enhancement of graphene visibility on transparent substrates by refractive index optimization. <i>Optics Express</i> , 2013, 21, 12934.	1.7	9
659	Atomic-scale movement induced in nanoridges by scanning tunneling microscopy on epitaxial graphene grown on 4H-SiC(0001). <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2013, 31, .	0.6	2
660	Controlling the activation energy of graphene-like thin films through disorder induced localization. <i>Journal of Applied Physics</i> , 2013, 114, 043716.	1.1	4
661	The Temperature Dependence of Optical Phonon Scattering in Graphene under Strong Magnetic Field. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 094606.	0.7	13
662	Thermal Annealing of Exfoliated Graphene. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	1.5	18
663	Structural investigation of nanocrystalline graphene grown on (6 \times 3)-reconstructed SiC surfaces by molecular beam epitaxy. <i>New Journal of Physics</i> , 2013, 15, 123034.	1.2	16
664	Raman spectroscopy of graphene: doping and mapping. <i>Physica Scripta</i> , 2013, T157, 014010.	1.2	2
665	Characterization of local charge distribution of polyethylene terephthalate film and influence as a graphene substrate. <i>Applied Physics Letters</i> , 2013, 103, 033107.	1.5	6
666	Friction force microscopy: a simple technique for identifying graphene on rough substrates and mapping the orientation of graphene grains on copper. <i>Nanotechnology</i> , 2013, 24, 255704.	1.3	49
667	Heat-Resistant Co-W Catalytic Metals for Multilayer Graphene Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 04CB04.	0.8	1
668	A comparison of the field emission characteristics of vertically aligned graphene sheets grown on different SiC substrates. <i>Chinese Physics B</i> , 2013, 22, 107901.	0.7	7
669	Nondegradative Dielectric Coating on Graphene by Thermal Evaporation of SiO. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 125102.	0.8	8
670	Low-Resistance Metal Contacts for Nanocarbon/Cobalt Interconnects. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 05FD01.	0.8	3
671	Study of simultaneous reduction and nitrogen doping of graphene oxide Langmuir-Blodgett monolayer sheets by ammonia plasma treatment. <i>Nanotechnology</i> , 2013, 24, 355704.	1.3	51
672	Electrochemical Characteristics of Closely Spaced Defect Tuned Carbon Nanotube Arrays. <i>Journal of the Electrochemical Society</i> , 2013, 160, H360-H367.	1.3	12
673	Direct deposition of aluminum oxide gate dielectric on graphene channel using nitrogen plasma treatment. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	22

#	ARTICLE	IF	CITATIONS
674	Giant magnetoresistance in single-layer graphene flakes with a gate-voltage-tunable weak antilocalization. <i>Physical Review B</i> , 2013, 88, .	1.1	42
675	Femtosecond laser fabrication of micro and nano-disks in single layer graphene using vortex Bessel beams. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	47
676	Native Graphene Oxides at Graphene Edges. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 1461-1466.	2.4	0
677	Laser direct patterning of a reduced-graphene oxide transparent circuit on a graphene oxide thin film. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	44
678	Influence of transfer residue on the optical properties of chemical vapor deposited graphene investigated through spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	37
679	Visualizing graphene edges using tip-enhanced Raman spectroscopy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, .	0.6	56
681	Simple, green, and clean removal of a poly(methyl methacrylate) film on chemical vapor deposited graphene. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	29
682	Improving Graphene Diffusion Barriers via Stacking Multiple Layers and Grain Size Engineering. <i>Advanced Functional Materials</i> , 2013, 23, 3638-3644.	7.8	68
683	Isotopic $\frac{^{13}\text{C}}{^{12}\text{C}}$ effect on the resonant Raman spectrum of twisted	1.1	13
684	Phonon population dynamics in semiconducting single-walled carbon nanotubes as a function of diameter and temperature. <i>Physical Review B</i> , 2013, 87, .	1.1	2
685	Exploring electronic structure of one-atom thick polycrystalline graphene films: A nano angle resolved photoemission study. <i>Scientific Reports</i> , 2013, 3, 2439.	1.6	81
686	Carbon flux assisted graphene layer growth on 6H-SiC(000-1) by thermal decomposition. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	2
687	Excitonic bandgap dependence on stacking configuration in four layer graphene. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	6
688	Effect of MeV Electron Beam Irradiation on Graphene Grown by Thermal Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 125104.	0.8	2
689	P-Type Doping of Graphene Films by Hybridization with Nickel Nanoparticles. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 075101.	0.8	7
690	Formation of hydroxyapatite layer on graphite sheet immersed in calcium phosphate solution by microwave heating. <i>Journal of the Ceramic Society of Japan</i> , 2013, 121, 901-906.	0.5	2
692	Probing built-in strain in freestanding graphene monolayers by Raman spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2681-2686.	0.7	17
693	Doping of bi-layer graphene by gradually polarizing a ferroelectric polymer. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2649-2652.	0.7	4

#	ARTICLE	IF	CITATIONS
694	A method to extract pure Raman spectrum of epitaxial graphene on SiC. Applied Physics Letters, 2013, 103, 201911.	1.5	25
695	Routes to rupture and folding of graphene on rough 6H-SiC(0001) and their identification. Beilstein Journal of Nanotechnology, 2013, 4, 625-631.	1.5	4
696	Nano-engineered composites: interlayer carbon nanotubes effect. Materials Research, 2013, 16, 628-634.	0.6	16
697	Porous Nanocarbons: Molecular Filtration and Electronics. , 0, , .		0
698	Current-Perpendicular-to-Plane Magnetoresistance in Chemical Vapor Deposition-Grown Multilayer Graphene. Electronics (Switzerland), 2013, 2, 315-331.	1.8	12
699	Graphene Oxide Nanosheets as Effective Friction Modifier for Oil Lubricant: Materials, Methods, and Tribological Results. ISRN Tribology, 2013, 2013, 1-9.	0.4	101
700	Sub-THz Characterisation of Monolayer Graphene. Journal of Spectroscopy, 2014, 2014, 1-6.	0.6	10
701	Investigation of structural and electronic properties of epitaxial graphene on 3C–SiC(100)/Si(100) substrates. Nanotechnology, Science and Applications, 2014, 7, 85.	4.6	10
702	Mechanism of Thin Layers Graphite Formation by ¹³ C Implantation and Annealing. Applied Sciences (Switzerland), 2014, 4, 180-194.	1.3	8
703	Intra- and Interlayer Electron-Phonon Interactions in ¹² /12C and ¹² /13C BiLayer Graphene. Applied Sciences (Switzerland), 2014, 4, 207-239.	1.3	8
704	Experimental techniques for the characterization of carbon nanoparticles â€“ a brief overview. Beilstein Journal of Nanotechnology, 2014, 5, 1760-1766.	1.5	9
705	Monolayer graphene films through nickel catalyzed transformation of fullerol and graphene quantum dots: a Raman spectroscopy study. Physica Scripta, 2014, T162, 014030.	1.2	8
706	Charge induced formation of crystalline network polymers. RSC Advances, 2014, 4, 59779-59784.	1.7	18
707	Analytic determination of n, k and d of two-dimensional materials by ellipsometry and reflectivity. Applied Optics, 2014, 53, 4804.	0.9	6
708	Nanopatterned Graphene Field Effect Transistor Fabricated Using Block Co-polymer Lithography. Materials Research Letters, 2014, 2, 131-139.	4.1	11
709	Multi-layer graphene on Co(0001) by ethanol chemical vapor deposition. Materials Research Express, 2014, 1, 035601.	0.8	5
710	Flexible electrochromic films based on CVD-graphene electrodes. Nanotechnology, 2014, 25, 395702.	1.3	28
711	A novel bubbling-assisted exfoliating method preparation of magnetically separable Fe_2O_3 /graphene recyclable photocatalysts. Functional Materials Letters, 2014, 07, 1450056.	0.7	4

#	ARTICLE	IF	CITATIONS
712	High-speed and broadband terahertz wave modulators based on large-area graphene field-effect transistors. <i>Optics Letters</i> , 2014, 39, 5649.	1.7	75
713	Quantitative characterization of defect size in graphene using Raman spectroscopy. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	61
714	Fully reproducible, low-temperature synthesis of high-quality, few-layer graphene on nickel via preheating of gas precursors using atmospheric pressure chemical vapor deposition. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19750-19758.	5.2	22
715	Experimental observation of local electrical signature of suspended graphene grown via chemical vapour deposition method. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 015306.	1.3	5
716	Ferromagnetic properties of Mn/graphene/SiO ₂ sheets. <i>Journal of the Korean Physical Society</i> , 2014, 65, 728-732.	0.3	1
717	High quality sub-monolayer, monolayer, and bilayer graphene on Ru(0001). <i>Chinese Physics B</i> , 2014, 23, 098101.	0.7	8
718	Spectroscopic and scanning probe analysis on large-area epitaxial graphene grown under pressure of 4 mbar on 4H-SiC (0001) substrates. <i>Chinese Physics B</i> , 2014, 23, 076103.	0.7	1
719	A wide-angle broadband absorber in graphene-based hyperbolic metamaterials. <i>EPJ Applied Physics</i> , 2014, 68, 20401.	0.3	36
720	Vertically-aligned graphene flakes on nanoporous templates: morphology, thickness, and defect level control by pre-treatment. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 055009.	2.8	22
721	Full-dispersion Monte Carlo simulation of phonon transport in micron-sized graphene nanoribbons. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	59
722	On the Amorphisation Trajectory of Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1700, 9-14.	0.1	0
723	Effect of copper surface pre-treatment on the properties of CVD grown graphene. <i>AIP Advances</i> , 2014, 4, .	0.6	29
725	Magnetoresistance effects in multilayer graphene as grown on ferromagnetic substrates and implications for spin filtering. , 2014, , .		0
726	Study on Dye-Sensitized Solar Cells Based on Graphene / Pt Counter Electrode. <i>Advanced Materials Research</i> , 2014, 1056, 25-29.	0.3	2
727	Hydration layers trapped between graphene and a hydrophilic substrate. <i>New Journal of Physics</i> , 2014, 16, 053039.	1.2	49
728	Hydroxyapatite-Functionalized Graphene: A New Hybrid Nanomaterial. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7.	1.5	26
729	Molecular beam epitaxy of graphene on ultra-smooth nickel: growth mode and substrate interactions. <i>New Journal of Physics</i> , 2014, 16, 093055.	1.2	16
730	Transverse optical phonon dispersion for multi-layer graphene. <i>Journal of Physics: Conference Series</i> , 2014, 541, 012019.	0.3	0

#	ARTICLE	IF	CITATIONS
731	Raman spectroscopy investigation of electron beam irradiated graphene. , 2014, , .		2
732	Graphene mode-locked Cr:ZnS laser with 41 fs pulse duration. Optics Express, 2014, 22, 5564.	1.7	116
733	Tuning photoinduced terahertz conductivity in monolayer graphene: Optical-pump terahertz-probe spectroscopy. Physical Review B, 2014, 90, .	1.1	49
734	Electrical conductivity, thermal conductivity, and rheological properties of graphene oxide-based nanofluids. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	140
735	Reductive arylation of graphene: Insights into a reversible carbon allotrope functionalization reaction. Physica Status Solidi (B): Basic Research, 2014, 251, 2536-2540.	0.7	28
736	Temperature dependence of the Raman spectra of polycrystalline graphene grown by chemical vapor deposition. Applied Physics Letters, 2014, 105, .	1.5	11
737	Radiation stability of graphene under extreme conditions. Applied Physics Letters, 2014, 105, .	1.5	39
738	All-Optical Blister Test of Suspended Graphene Using Micro-Raman Spectroscopy. Physical Review Applied, 2014, 2, .	1.5	56
739	Nitrogen doping of chemical vapor deposition grown graphene on 4H-SiC (0001). Journal of Applied Physics, 2014, 115, .	1.1	27
740	Cyclododecane as support material for clean and facile transfer of large-area few-layer graphene. Applied Physics Letters, 2014, 105, .	1.5	40
741	Surface Structure of Aerobically Oxidized Diamond Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 26695-26702.	1.5	54
742	Polarized micro Raman scattering spectroscopy for curved edges of epitaxial graphene. Applied Physics Letters, 2014, 105, 243103.	1.5	6
743	Controlled epitaxial graphene growth within removable amorphous carbon corrals. Applied Physics Letters, 2014, 105, .	1.5	14
744	Formation of p-n-p junction with ionic liquid gate in graphene. Applied Physics Letters, 2014, 104, .	1.5	10
745	Multifunctional Three-Dimensional T-junction Graphene Micro-Wells: Energy-Efficient, Plasma-Enabled Growth and Instant Water-Based Transfer for Flexible Device Applications. Advanced Functional Materials, 2014, 24, 6114-6122.	7.8	15
746	Highly reproducible and reliable metal/graphene contact by ultraviolet-ozone treatment. Journal of Applied Physics, 2014, 115, .	1.1	33
747	Evolution of Raman xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>G</mml:mi></mml:math> and xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>G</mml:mi><mml:mo>â€²</mml:mo></mml:msup></mml:math>		
748	folded graphene layers. Physical Review B, 2014, 89, . Formation of Air Stable Graphene p-n-junctions Using an Amine-Containing Polymer Coating. Advanced Materials Interfaces, 2014, 1, 1400378.	1.9	7

#	ARTICLE	IF	CITATIONS
749	Band structure mapping of bilayer graphene via quasiparticle scattering. <i>APL Materials</i> , 2014, 2, .	2.2	22
750	Electronic properties of polycrystalline graphene under large local strain. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	17
751	Dirac point and transconductance of top-gated graphene field-effect transistors operating at elevated temperature. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	8
752	Valley-antisymmetric potential in graphene under dynamical deformation. <i>Physical Review B</i> , 2014, 90, .	1.1	5
753	Observation of ferromagnetic semiconductor behavior in manganese-oxide doped graphene. <i>AIP Advances</i> , 2014, 4, 087120.	0.6	6
754	Disorder-induced double resonant Raman process in graphene. <i>Physical Review B</i> , 2014, 90, .	1.1	15
755	Effect of post-annealing on the plasma etching of graphene-coated-copper. <i>Faraday Discussions</i> , 2014, 173, 79-93.	1.6	10
756	Emergence of Photoswitchable States in a Graphene- <i>“Azobenzene”</i> -Au Platform. <i>Nano Letters</i> , 2014, 14, 6823-6827.	4.5	40
757	Designed Three-Dimensional Freestanding Single-Crystal Carbon Architectures. <i>ACS Nano</i> , 2014, 8, 11657-11665.	7.3	12
758	Large-Scale Production of Graphene Nanoribbons from Electrospun Polymers. <i>Journal of the American Chemical Society</i> , 2014, 136, 17284-17291.	6.6	26
759	Supercritical Carbon Dioxide Anchored Fe ₃ O ₄ Nanoparticles on Graphene Foam and Lithium Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22527-22533.	4.0	86
760	Step-edge-induced resistance anisotropy in quasi-free-standing bilayer chemical vapor deposition graphene on SiC. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	27
761	Raman excitation profile of the G band in single-chirality carbon nanotubes. <i>Physical Review B</i> , 2014, 89, .	1.1	17
762	Direct synthesis of few-layer graphene supported platinum nanocatalyst for methanol oxidation. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 117101.	0.8	7
763	Immobilization of carbon nanotubes on functionalized graphene film grown by chemical vapor deposition and characterization of the hybrid material. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 015007.	2.8	11
764	Microwave plasma in liquid n-heptane: A study of plasma-chemical reaction products. <i>High Energy Chemistry</i> , 2014, 48, 385-388.	0.2	14
765	Extending the functions of scanning near-field optical microscopy. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
766	Electronic Properties of Monolayer and Multilayer Graphene. <i>Nanoscience and Technology</i> , 2014, , 173-211.	1.5	1

#	ARTICLE	IF	CITATIONS
767	Graphene-based saturable absorbers in semiconductor lasers. , 2014, , .		1
768	Growth of 2D heterostructures of graphene/BN. Proceedings of SPIE, 2014, , .	0.8	1
769	Electron and Phonon Transport in Graphene in and out of the Bulk. Nanoscience and Technology, 2014, , 65-112.	1.5	5
770	Aspects of the Fractional Quantum Hall Effect in Graphene. Nanoscience and Technology, 2014, , 251-300.	1.5	1
771	Wettability of graphene-laminated micropillar structures. Journal of Applied Physics, 2014, 116, .	1.1	7
772	Novel synthesis route to graphene using iron nanoparticles. Journal of Materials Research, 2014, 29, 1522-1527.	1.2	6
773	Localization and field-periodic conductance fluctuations in trilayer graphene. Semiconductor Science and Technology, 2014, 29, 115010.	1.0	0
774	Studies of growth technics and homogenous of graphene formed on 4° off-axis 4H-Si-face SiC. , 2014, , .		0
775	Full-Layer Controlled Synthesis and Transfer of Large-Scale Monolayer Graphene for Nitrogen Dioxide and Ammonia Sensing. Analytical Letters, 2014, 47, 280-294.	1.0	15
776	Accelerated differentiation of neural stem cells into neurons on ginseng-reduced graphene oxide sheets. Carbon, 2014, 66, 395-406.	5.4	215
777	Silver nanoparticles decorated on a three-dimensional graphene scaffold for electrochemical applications. Journal of Physics and Chemistry of Solids, 2014, 75, 109-114.	1.9	59
778	Highly Electron Transparent Graphene for Field Emission Triode Gates. Advanced Functional Materials, 2014, 24, 1218-1227.	7.8	49
779	Formation and electron field emission of graphene films grown by hot filament chemical vapor deposition. Materials Chemistry and Physics, 2014, 144, 66-74.	2.0	22
780	Microwave plasma-assisted regeneration of carbon nanosheets with bi- and trilayer of graphene and their application to photovoltaic cells. Carbon, 2014, 67, 326-335.	5.4	54
781	Gas sensors based on carbon nanoflake/tin oxide composites for ammonia detection. Journal of Hazardous Materials, 2014, 268, 110-114.	6.5	72
782	Graphene/PbS as a Novel Counter Electrode for Quantum Dot Sensitized Solar Cells. ACS Photonics, 2014, 1, 323-330.	3.2	52
783	One-Step Formation of a Single Atomic-Layer Transistor by the Selective Fluorination of a Graphene Film. Small, 2014, 10, 989-997.	5.2	59
784	Synthesis and characterization of carbon nanowalls on different substrates by radio frequency plasma enhanced chemical vapor deposition. Carbon, 2014, 72, 372-380.	5.4	121

#	ARTICLE	IF	CITATIONS
785	Heterogeneity of carbon fibre. Carbon, 2014, 68, 240-249.	5.4	78
786	Far-Infrared Graphene Plasmonic Crystals for Plasmonic Band Engineering. Nano Letters, 2014, 14, 2479-2484.	4.5	67
787	Anisotropic Etching of Graphite Flakes with Water Vapor to Produce Armchair-Edged Graphene. Small, 2014, 10, 2809-2814.	5.2	23
788	Giant Current-Perpendicular-to-Plane Magnetoresistance in Multilayer Graphene as Grown on Nickel. Nano Letters, 2014, 14, 2233-2241.	4.5	31
789	Sodium functionalized graphene oxide coated titanium plates for improved corrosion resistance and cell viability. Applied Surface Science, 2014, 293, 124-131.	3.1	30
790	Low surface area graphene/cellulose composite as a host matrix for lithium sulphur batteries. Journal of Power Sources, 2014, 254, 55-61.	4.0	44
791	Selective Ionic Transport through Tunable Subnanometer Pores in Single-Layer Graphene Membranes. Nano Letters, 2014, 14, 1234-1241.	4.5	687
792	Thermal and Thermoelectric Properties of Graphene. Small, 2014, 10, 2182-2199.	5.2	242
793	A study on the pulsed laser printing of liquid-phase exfoliated graphene for organic electronics. Applied Physics A: Materials Science and Processing, 2014, 117, 301-306.	1.1	15
794	Probing substrate influence on graphene by analyzing Raman lineshapes. Nanoscale Research Letters, 2014, 9, 64.	3.1	7
795	Selective Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol over Graphene Supported Pt-Co Bimetallic Catalysts. Catalysis Letters, 2014, 144, 980-986.	1.4	43
796	Evolution of epitaxial graphene layers on 3C SiC/Si (1 1 1) as a function of annealing temperature in UHV. Carbon, 2014, 68, 563-572.	5.4	87
797	Macroporous flower-like graphene-nanosheet clusters used for electrochemical determination of dopamine. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 448, 181-185.	2.3	36
798	Bi-component MnO/ZnO hollow microspheres embedded in reduced graphene oxide as electrode materials for enhanced lithium storage. Ceramics International, 2014, 40, 4297-4304.	2.3	27
799	Low Resistance Transparent Graphene-Like Carbon Thin Film Substrates for High Performance Dye Sensitized Solar Cells. Electrochimica Acta, 2014, 115, 559-565.	2.6	20
800	Carbon Nanotube and Graphene Hybrid Thin Film for Transparent Electrodes and Field Effect Transistors. Advanced Materials, 2014, 26, 4247-4252.	11.1	130
801	Growth of epitaxial graphene: Theory and experiment. Physics Reports, 2014, 542, 195-295.	10.3	228
802	Exfoliation of Graphite into Graphene in Aqueous Solutions of Inorganic Salts. Journal of the American Chemical Society, 2014, 136, 6083-6091.	6.6	1,181

#	ARTICLE	IF	CITATIONS
803	Charged nano-domes and bubbles in epitaxial graphene. <i>Nanotechnology</i> , 2014, 25, 165704.	1.3	23
804	Polarization dependence of double resonant Raman scattering band in bilayer graphene. <i>Carbon</i> , 2014, 72, 257-263.	5.4	20
805	Raman spectroscopy of graphene. , 2014, , 156-183.		9
806	Porous structures in stacked, crumpled and pillared graphene-based 3D materials. <i>Carbon</i> , 2014, 66, 476-484.	5.4	113
807	Double-layer CVD graphene as stretchable transparent electrodes. <i>Nanoscale</i> , 2014, 6, 6057-6064.	2.8	77
808	A safer and flexible method for the oxygen functionalization of carbon nanotubes by nitric acid vapors. <i>Applied Surface Science</i> , 2014, 303, 446-455.	3.1	17
809	Stress relaxation of GaN microstructures on a graphene-buffered Al ₂ O ₃ substrate. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 341-344.	1.2	23
810	Ultrathin Flexible Graphene Film: An Excellent Thermal Conducting Material with Efficient EMI Shielding. <i>Advanced Functional Materials</i> , 2014, 24, 4542-4548.	7.8	751
811	Enhanced electrical conductivity and mechanical property of SBS/graphene nanocomposite. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	25
812	Effect of substrate and subphase conditions on the surface morphology of graphene oxide sheets prepared by Langmuir-Blodgett technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 452, 65-72.	2.3	15
813	Preparation of nitrogen-doped reduced graphene oxide and its use in a glassy carbon electrode for sensing 4-nitrophenol at nanomolar levels. <i>Mikrochimica Acta</i> , 2014, 181, 1863-1870.	2.5	23
814	Tailoring the physical properties of nanocomposite films by the insertion of graphene and other nanoparticles. <i>Composites Part B: Engineering</i> , 2014, 60, 29-35.	5.9	42
815	In situ fabrication of graphene-carbon nanochain webs as anodes for Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10429.	1.3	7
816	Free-standing graphene monolayers in carbon-based composite obtained from SiC: Raman diagnostics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1674-1678.	0.8	4
817	Plasma-enhanced chemical vapor deposition of graphene on copper substrates. <i>AIP Advances</i> , 2014, 4, .	0.6	65
818	Thermal interface conductance across a graphene/hexagonal boron nitride heterojunction. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	76
819	Facile, rapid and upscaled synthesis of green luminescent functional graphene quantum dots for bioimaging. <i>RSC Advances</i> , 2014, 4, 21101.	1.7	61
820	Filling the Voids of Graphene Foam with Graphene Eggshell for Improved Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9835-9841.	4.0	64

#	ARTICLE	IF	CITATIONS
821	Catalyst Enhancement and Recyclability by Immobilization of Metal Complexes onto Graphene Surface by Noncovalent Interactions. ACS Catalysis, 2014, 4, 2038-2047.	5.5	137
822	Scalable Production of Highly Sensitive Nanosensors Based on Graphene Functionalized with a Designed G Protein-Coupled Receptor. Nano Letters, 2014, 14, 2709-2714.	4.5	105
823	Observation of Low-Frequency Combination and Overtone Raman Modes in Misoriented Graphene. Journal of Physical Chemistry C, 2014, 118, 3636-3643.	1.5	15
824	Strain, Bubbles, Dirt, and Folds: A Study of Graphene Polymer-Assisted Transfer. Advanced Materials Interfaces, 2014, 1, 1400115.	1.9	98
825	Direct Electrochemical Synthesis of Reduced Graphene Oxide (rGO)/Copper Composite Films and Their Electrical/Electroactive Properties. ACS Applied Materials & Interfaces, 2014, 6, 7444-7455.	4.0	127
826	Low temperature growth of carbon nanotubes on carbon fibre to create a highly networked fuzzy fibre reinforced composite with superior electrical conductivity. Carbon, 2014, 74, 319-328.	5.4	79
827	Optical Transducers. , 2014, , 233-320.		4
828	Contrasting Magnetic Properties of Thermally and Chemically Reduced Graphene Oxide. Journal of Physical Chemistry C, 2014, 118, 13254-13259.	1.5	37
829	Synthesis of graphene from natural and industrial carbonaceous wastes. RSC Advances, 2014, 4, 20441.	1.7	189
830	Size Dependence of Compressive Strain in Graphene Flakes Directly Grown on SiO ₂ /Si Substrate. Journal of Physical Chemistry C, 2014, 118, 12526-12531.	1.5	5
831	Synthesis of a nanocomposite composed of reduced graphene oxide and gold nanoparticles. Dalton Transactions, 2014, 43, 2670-2675.	1.6	128
832	Structure changes of MPECVD-grown carbon nanosheets under high-temperature treatment. Carbon, 2014, 68, 360-368.	5.4	16
833	A universal transfer route for graphene. Nanoscale, 2014, 6, 889-896.	2.8	58
834	Microstructure of natural graphite flakes revealed by oxidation: Limitations of XRD and Raman techniques for crystallinity estimates. Carbon, 2014, 66, 674-690.	5.4	87
835	Two selective growth modes for graphene on a Cu substrate using thermal chemical vapor deposition. Carbon, 2014, 68, 87-94.	5.4	22
836	Fabrication and application of flexible graphene silk composite film electrodes decorated with spiky Pt nanospheres. Nanoscale, 2014, 6, 4264-4274.	2.8	94
837	Role of thickness and intercalated water in the facile reduction of graphene oxide employing camera flash. Nanotechnology, 2014, 25, 075702.	1.3	11
838	Manganese hexacyanoferrate derived Mn ₃ O ₄ nanocubes-reduced graphene oxide nanocomposites and their charge storage characteristics in supercapacitors. Physical Chemistry Chemical Physics, 2014, 16, 4952.	1.3	120

#	ARTICLE	IF	CITATIONS
839	A facile preparation of edge etching, porous and highly reactive graphene nanosheets via ozone treatment at a moderate temperature. <i>Chemical Engineering Journal</i> , 2014, 240, 187-194.	6.6	31
840	Multichannel scanning probe microscopy and spectroscopy of graphene moiré structures. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3894.	1.3	24
841	Electrical Transport in Few-Layer Graphene Film Prepared by the Hot-Spray Technique: The Effect of Thermal Treatment. <i>Journal of Physical Chemistry C</i> , 2014, 118, 873-880.	1.5	6
842	CoO nanoflowers woven by CNT network for high energy density flexible micro-supercapacitor. <i>Nano Energy</i> , 2014, 3, 46-54.	8.2	185
843	Taguchi optimized synthesis of graphene films by copper catalyzed ethanol decomposition. <i>Diamond and Related Materials</i> , 2014, 41, 73-78.	1.8	29
844	A passively mode-locked intracavity frequency doubled Nd:YVO ₄ femtosecond green laser based on graphene. <i>Laser Physics Letters</i> , 2014, 11, 025001.	0.6	10
845	Plasma-assisted electrochemical exfoliation of graphite for rapid production of graphene sheets. <i>RSC Advances</i> , 2014, 4, 6946.	1.7	49
846	Electroluminescence from graphene excited by electron tunneling. <i>Nanotechnology</i> , 2014, 25, 055206.	1.3	26
847	MoS ₂ . <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014, , .	0.4	42
848	Multi-layer graphene obtained by high temperature carbon implantation into nickel films. <i>Carbon</i> , 2014, 66, 1-10.	5.4	31
849	Interaction between graphene and copper substrate: The role of lattice orientation. <i>Carbon</i> , 2014, 68, 440-451.	5.4	180
850	Raman spectroscopy and band structure of Pd-hybridized multilayer graphene. <i>Carbon</i> , 2014, 68, 687-694.	5.4	4
851	Shear strain induced modulation to the transport properties of graphene. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	25
852	A facile green synthesis of reduced graphene oxide by using pollen grains of <i>Peltophorum pterocarpum</i> and study of its electrochemical behavior. <i>RSC Advances</i> , 2014, 4, 56910-56917.	1.7	28
853	Dynamic surface wettability of three-dimensional graphene foam. <i>Chinese Physics B</i> , 2014, 23, 046802.	0.7	4
854	Chemically Bonded Phosphorus/Graphene Hybrid as a High Performance Anode for Sodium-Ion Batteries. <i>Nano Letters</i> , 2014, 14, 6329-6335.	4.5	434
855	Graphene-based textured surface by pulsed laser deposition as a robust platform for surface enhanced Raman scattering applications. <i>Applied Physics Letters</i> , 2014, 104, 041912.	1.5	30
856	Effects of polycrystallinity in nano patterning by ion-beam sputtering. <i>Journal of Applied Physics</i> , 2014, 116, 024307.	1.1	5

#	ARTICLE	IF	CITATIONS
857	Large Graphene Quantum Dots Alleviate Immune-Mediated Liver Damage. ACS Nano, 2014, 8, 12098-12109.	7.3	82
858	Hyperthermia-induced protein corona improves the therapeutic effects of zinc ferrite spinel-graphene sheets against cancer. RSC Advances, 2014, 4, 62557-62565.	1.7	50
859	Threefold atmospheric-pressure annealing for suppressing graphene nucleation on copper in chemical vapor deposition. Japanese Journal of Applied Physics, 2014, 53, 095101.	0.8	18
860	Effect of Cooling Condition on Chemical Vapor Deposition Synthesis of Graphene on Copper Catalyst. ACS Applied Materials & Interfaces, 2014, 6, 19574-19578.	4.0	31
861	Advancement in liquid exfoliation of graphite through simultaneously oxidizing and ultrasonicing. Journal of Materials Chemistry A, 2014, 2, 20382-20392.	5.2	22
862	Vibrational characteristics of graphene sheets elucidated using an elastic network model. Physical Chemistry Chemical Physics, 2014, 16, 15263.	1.3	7
863	Click synthesis of graphene/poly(N-(2-hydroxypropyl) methacrylamide) nanocomposite via "grafting-onto" strategy at ambient temperature. RSC Advances, 2014, 4, 60920-60928.	1.7	14
864	DNA and RNA extractions from eukaryotic and prokaryotic cells by graphene nanoplatelets. RSC Advances, 2014, 4, 60720-60728.	1.7	39
865	Raman Modes of MoS ₂ Used as Fingerprint of van der Waals Interactions in 2-D Crystal-Based Heterostructures. ACS Nano, 2014, 8, 9914-9924.	7.3	201
866	Tip-Enhanced Raman Scattering of the Local Nanostructure of Epitaxial Graphene Grown on 4H-SiC (0001̄...). Journal of Physical Chemistry C, 2014, 118, 25809-25815.	1.5	42
867	Energy Harvesting from the Mixture of Water and Ethanol Flowing through Three-Dimensional Graphene Foam. Journal of Physical Chemistry C, 2014, 118, 8783-8787.	1.5	29
868	Nondestructive Characterization of the Structural Quality and Thickness of Large-Area Graphene on Various Substrates. Analytical Chemistry, 2014, 86, 7192-7199.	3.2	8
869	Defect Enhanced Efficient Physical Functionalization of Graphene with Gold Nanoparticles Probed by Resonance Raman Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 13833-13843.	1.5	50
870	Significant enhancement of the electrical transport properties of graphene films by controlling the surface roughness of Cu foils before and during chemical vapor deposition. Nanoscale, 2014, 6, 12943-12951.	2.8	42
871	Electron Transfer Kinetics on Mono- and Multilayer Graphene. ACS Nano, 2014, 8, 10089-10100.	7.3	160
872	Transition from direct to Fowler-Nordheim tunneling in chemically reduced graphene oxide film. Nanoscale, 2014, 6, 3410-3417.	2.8	37
873	Supercritical fluid assisted synthesis of N-doped graphene nanosheets and their capacitance behavior in ionic liquid and aqueous electrolytes. Journal of Materials Chemistry A, 2014, 2, 4731-4738.	5.2	72
874	Resistivity peaks and magnetic properties of an annealed graphene. Chemical Communications, 2014, 50, 12930-12932.	2.2	10

#	ARTICLE	IF	CITATIONS
875	Structural evolution of rayon-based carbon fibers induced by doping boron. RSC Advances, 2014, 4, 59150-59156.	1.7	12
876	Facile and fast combustion synthesis and characterization of novel carbon nanostructures. Physica Status Solidi (B): Basic Research, 2014, 251, 2563-2568.	0.7	8
877	Nitrogen-Doped Graphene/Platinum Counter Electrodes for Dye-Sensitized Solar Cells. ACS Photonics, 2014, 1, 1264-1269.	3.2	35
878	The effect of a thin gold layer on graphene: a Raman spectroscopy study. RSC Advances, 2014, 4, 60929-60935.	1.7	22
879	Graphene-mediated surface enhanced Raman scattering in silica mesoporous nanocomposite films. Physical Chemistry Chemical Physics, 2014, 16, 25809-25818.	1.3	32
880	Functionalization of graphene with nitrogen using ethylenediaminetetraacetic acid and their electrochemical energy storage properties. RSC Advances, 2014, 4, 24248.	1.7	20
881	Scalable production of transition metal disulphide/graphite nanoflake composites for high-performance lithium storage. RSC Advances, 2014, 4, 41543-41550.	1.7	26
882	Effective production of nano-sized graphene via straight-forward exfoliation of microcrystalline graphite. RSC Advances, 2014, 4, 45885-45889.	1.7	9
883	Near room temperature reduction of graphene oxide Langmuir-Blodgett monolayers by hydrogen plasma. Physical Chemistry Chemical Physics, 2014, 16, 11708.	1.3	24
884	Direct assessment of the mechanical modulus of graphene co-doped with low concentrations of boron-nitrogen by a non-contact approach. Nanoscale, 2014, 6, 8635.	2.8	10
885	Identifying sp ² carbon materials by Raman and infrared spectroscopies. Physical Chemistry Chemical Physics, 2014, 16, 11303-11309.	1.3	81
886	Graphene saturable absorber for high power semiconductor disk laser mode-locking. Applied Physics Letters, 2014, 104, .	1.5	46
887	Significant enhancement in photocatalytic activity of high quality SiC/graphene core-shell heterojunction with optimal structural parameters. RSC Advances, 2014, 4, 46771-46779.	1.7	26
888	Tailoring of the carbon nanowall microstructure by sharp variation of plasma radical composition. Physical Chemistry Chemical Physics, 2014, 16, 25621-25627.	1.3	17
889	Composition-dependent Raman modes of Mo _{1-x} W _x S ₂ monolayer alloys. Nanoscale, 2014, 6, 2833-2839.	2.8	142
890	Fabrication of free-standing Al ₂ O ₃ nanosheets for high mobility flexible graphene field effect transistors. Journal of Materials Chemistry C, 2014, 2, 4759.	2.7	4
892	In vivo SPECT imaging of tumors by ¹⁹⁸ Au-labeled graphene oxide nanostructures. Materials Science and Engineering C, 2014, 45, 196-204.	3.8	116
893	Long-wavelength optical phonon behavior in uniaxial strained graphene: Role of electron-phonon interaction. Physical Review B, 2014, 90, .	1.1	5

#	ARTICLE	IF	CITATIONS
894	The use of graphene in the self-organized differentiation of human neural stem cells into neurons under pulsed laser stimulation. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5602.	2.9	99
895	Defect-Induced Supercollision Cooling of Photoexcited Carriers in Graphene. <i>Nano Letters</i> , 2014, 14, 5621-5624.	4.5	38
896	Determination of Quantum Capacitance and Band Filling Potential in Graphene Transistors with Dual Electrochemical and Field-Effect Gates. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21160-21169.	1.5	29
897	The mechanical and electrical properties of carbon nanotube-grafted polyimide nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 960-966.	2.4	10
898	Mechanically strong high performance layered polypyrrole nano fibre/graphene film for flexible solid state supercapacitor. <i>Carbon</i> , 2014, 79, 554-562.	5.4	109
899	Platinum nanoparticles on porphyrin functionalized graphene nanosheets as a superior catalyst for methanol electrooxidation. <i>Nanoscale</i> , 2014, 6, 14999-15007.	2.8	73
900	Microstructural, Electrical, and Mechanical Properties of Graphene Films on Flexible Substrate Determined by Cyclic Bending Test. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19566-19573.	4.0	14
901	Interactions of Organic Solvents at Graphene/ Al_2O_3 and Graphene Oxide/ Al_2O_3 Interfaces Studied by Sum Frequency Generation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17745-17755.	1.5	13
902	Probing inhomogeneous doping in overlapped graphene grain boundaries by Raman spectroscopy. <i>Carbon</i> , 2014, 80, 513-522.	5.4	17
903	Large area uniformly oriented multilayer graphene with high transparency and conducting properties derived from highly oriented polyethylene films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6048-6055.	2.7	6
904	Confocal Raman Microscopy and AFM Study of the Interface Between the Photosensitive Polymer Layer and Multilayer Graphene. <i>Soft Materials</i> , 2014, 12, S98-S105.	0.8	8
905	Copper oxide as a "self-cleaning" substrate for graphene growth. <i>Journal of Materials Research</i> , 2014, 29, 403-409.	1.2	50
906	Preparation of binderless nanopore-isotropic graphite for inhibiting the liquid fluoride salt and Xe135 penetration for molten salt nuclear reactor. <i>Carbon</i> , 2014, 79, 36-45.	5.4	39
907	Effect of catalyst film thickness on the structures of vertically-oriented few-layer graphene grown by PECVD. <i>RSC Advances</i> , 2014, 4, 44434-44441.	1.7	10
908	Nonlinear optics of graphene in the presence of Rabi oscillation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2263.	0.9	4
909	Electrical Characteristics of Multilayer MoS_2 FETs with MoS_2 /Graphene Heterojunction Contacts. <i>Nano Letters</i> , 2014, 14, 4511-4516.	4.5	169
910	Multi- and few-layer graphene on insulating substrate via pulsed laser deposition technique. <i>Applied Surface Science</i> , 2014, 317, 1004-1009.	3.1	50
911	Interaction of Magnesium Ions with Pristine Single-Layer and Defected Graphene/Water Interfaces Studied by Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7739-7749.	1.2	18

#	ARTICLE	IF	CITATIONS
912	Temperature and light dependent electrical properties of Graphene/n-Siâ€‘CH ₃ -terminated solar cells. Solar Energy, 2014, 107, 74-81.	2.9	9
913	Synthesis, characterization, and electronic structure of few-layer MoSe ₂ granular films. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2671-2676.	0.8	13
914	Chemical Vapor Deposition of Graphene on a â€‘Peeled-Offâ€‘ Epitaxial Cu(111) Foil: A Simple Approach to Improved Properties. ACS Nano, 2014, 8, 8636-8643.	7.3	65
915	<i>Colloquium</i>: Graphene spectroscopy. Reviews of Modern Physics, 2014, 86, 959-994.	16.4	220
916	Configuration-dependent geometric and electronic properties of bilayer graphene nanoribbons. Carbon, 2014, 77, 1031-1039.	5.4	18
917	Polarized microscopic laser Raman scattering spectroscopy for edge structure of epitaxial graphene and localized vibrational mode. Carbon, 2014, 77, 1073-1081.	5.4	13
918	Exfoliated Graphene into Highly Ordered Mesoporous Titania Films: Highly Performing Nanocomposites from Integrated Processing. ACS Applied Materials & Interfaces, 2014, 6, 795-802.	4.0	27
919	Tip-enhanced Raman spectroscopic measurement of stress change in the local domain of epitaxial graphene on the carbon face of 4H-SiC(000â€‘1). Physical Chemistry Chemical Physics, 2014, 16, 20236-20240.	1.3	28
920	Spongy graphene electrode in electrochemical detection of leukemia at single-cell levels. Carbon, 2014, 79, 654-663.	5.4	105
921	Roles of H ₂ in annealing and growth times of graphene CVD synthesis over copper foil. Journal of Materials Chemistry A, 2014, 2, 16208-16216.	5.2	48
922	Metal-free plasma-enhanced chemical vapor deposition of large area nanocrystalline graphene. Materials Research Express, 2014, 1, 025031.	0.8	33
923	Growing graphene on polycrystalline copper foils by ultra-high vacuum chemical vapor deposition. Carbon, 2014, 78, 347-355.	5.4	41
924	Structural stability studies of graphene in sintered ceramic nanocomposites. Ceramics International, 2014, 40, 16227-16233.	2.3	45
925	Large-area synthesis of high-quality and uniform monolayer graphene without unexpected bilayer regions. Journal of Alloys and Compounds, 2014, 615, 415-418.	2.8	29
926	Cyto and genotoxicities of graphene oxide and reduced graphene oxide sheets on spermatozoa. RSC Advances, 2014, 4, 27213.	1.7	117
927	Upcycling Waste Polypropylene into Graphene Flakes on Organically Modified Montmorillonite. Industrial & Engineering Chemistry Research, 2014, 53, 4173-4181.	1.8	97
928	Facile, one-pot solvothermal method to synthesize ultrathin Sb ₂ S ₃ nanosheets anchored on graphene. Dalton Transactions, 2014, 43, 13948.	1.6	23
929	Facile preparation of flower-like graphene-nanosheet clusters with the assistance of copper particles and their application in supercapacitors. RSC Advances, 2014, 4, 500-504.	1.7	18

#	ARTICLE	IF	CITATIONS
930	A rapid microwave heating route to synthesize graphene modified LiFePO ₄ /C nanocomposite for rechargeable lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 15801-15806.	2.3	35
931	Probing the Stress Effect on the Electronic Structure of Graphite by Resonant Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25132-25140.	1.5	10
932	Raman peak enhancement and shift of few-layer graphene induced by plasmonic coupling with silver nanoparticles. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	45
933	Partial graphitization of activated carbon by surface acidification. <i>Carbon</i> , 2014, 79, 500-517.	5.4	32
934	Cytotoxicity of protein corona-graphene oxide nanoribbons on human epithelial cells. <i>Applied Surface Science</i> , 2014, 320, 596-601.	3.1	51
935	Chemical Modification of Graphene via Hyperthermal Molecular Reaction. <i>Journal of the American Chemical Society</i> , 2014, 136, 13482-13485.	6.6	30
936	Graphene Multilayer as Nanosized Optical Strain Gauge for Polymer Surface Relief Gratings. <i>Nano Letters</i> , 2014, 14, 5754-5760.	4.5	51
937	Improving the electrical properties of graphene layers by chemical doping. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 055004.	2.8	46
938	Facile synthesis of soluble functional graphene by reduction of graphene oxide via acetylacetone and its adsorption of heavy metal ions. <i>Nanotechnology</i> , 2014, 25, 395602.	1.3	27
939	Synthesis of Homogenous Bilayer Graphene on Industrial Cu Foil. <i>Chinese Physics Letters</i> , 2014, 31, 067202.	1.3	10
940	Highly efficient photocatalytic performance of graphene@Ag ₃ VO ₄ composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 3480-3485.	1.1	21
941	Single-Layer Graphene as an Effective Mediator of the Metal@Support Interaction. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1837-1844.	2.1	16
942	Mechanical exfoliation of graphite in 1-butyl-3-methylimidazolium hexafluorophosphate (BMIM-PF ₆) providing graphene nanoplatelets that exhibit enhanced electrocatalysis. <i>Journal of Power Sources</i> , 2014, 271, 312-325.	4.0	10
943	Resistive switching in graphene/graphene oxide/ZnO heterostructures. <i>Journal of the Korean Physical Society</i> , 2014, 64, 1399-1402.	0.3	16
944	Carbon nanospheres grown on graphene as anodes for Li-ion batteries. <i>RSC Advances</i> , 2014, 4, 25552-25555.	1.7	12
945	Monatomic Chemical-Vapor-Deposited Graphene Membranes Bridge a Half-Millimeter-Scale Gap. <i>ACS Nano</i> , 2014, 8, 2336-2344.	7.3	37
946	Selective hydrogenation of cinnamaldehyde over Pt nanoparticles deposited on reduced graphene oxide. <i>RSC Advances</i> , 2014, 4, 1874-1878.	1.7	57
947	Annealing-induced structural changes of carbon onions: High-resolution transmission electron microscopy and Raman studies. <i>Carbon</i> , 2014, 73, 78-86.	5.4	144

#	ARTICLE	IF	CITATIONS
948	Enhancement of lattice defect signatures in graphene and ultrathin graphite using tip-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 15-21.	1.2	28
949	Selective graphene covering of monodispersed magnetic nanoparticles. <i>Chemical Engineering Journal</i> , 2014, 246, 27-38.	6.6	19
950	Single-step synthesis of graphene-carbon nanofiber hybrid material and its synergistic magnetic behaviour. <i>Journal of Alloys and Compounds</i> , 2014, 615, 348-354.	2.8	17
951	Preparation of polydopamine-functionalized graphene-Fe ₃ O ₄ magnetic composites with high adsorption capacities. <i>RSC Advances</i> , 2014, 4, 30536-30541.	1.7	55
952	Coconut kernel-derived activated carbon as electrode material for electrical double-layer capacitors. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 903-916.	1.5	46
953	The composite electrode of LiFePO ₄ cathode materials modified with exfoliated graphene from expanded graphite for high power Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2822-2829.	5.2	51
954	SiC Substrate effects on electron transport in the epitaxial graphene layer. <i>Electronic Materials Letters</i> , 2014, 10, 387-391.	1.0	4
955	Large Hexagonal and Trilayer Graphene Single Crystals with Varied Interlayer Rotations. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1565-1569.	7.2	82
956	Low Vacuum Annealing of Cellulose Acetate on Nickel Towards Transparent Conductive CNT-Graphene Hybrid Films. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9071-9077.	4.0	30
957	Anthraquinone on Porous Carbon Nanotubes with Improved Supercapacitor Performance. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8262-8270.	1.5	146
958	Carbon isotope labelling in graphene research. <i>Nanoscale</i> , 2014, 6, 6363.	2.8	38
959	Raman spectroscopy as a tool for the analysis of carbon-based materials (highly oriented pyrolytic) composites. <i>Vibrational Spectroscopy</i> , 2014, 74, 57-63.	1.2	199
960	Functionalized Graphene Nanoribbon Films as a Radiofrequency and Optically Transparent Material. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16661-16668.	4.0	23
961	Epitaxial graphene formation on 3C-SiC/Si thin films. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 094016.	1.3	31
962	One-step green synthesis of graphene nanomesh by fluid-based method. <i>RSC Advances</i> , 2014, 4, 16127.	1.7	28
963	Facile synthesis of Au@Fe ₃ O ₄ -graphene and Pt@Fe ₃ O ₄ -graphene ternary hybrid nanomaterials and their catalytic properties. <i>RSC Advances</i> , 2014, 4, 21909.	1.7	18
964	Interlayer Interaction in the UV Irradiated Defect Formation of Graphene. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11842-11848.	1.5	11
965	Correlating nucleation density with heating ramp rates in continuous graphene film formation. <i>Carbon</i> , 2014, 80, 708-715.	5.4	8

#	ARTICLE	IF	CITATIONS
966	Compositing Polyetherimide with Polyfluorene Wrapped Carbon Nanotubes for Enhanced Interfacial Interaction and Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9013-9022.	4.0	19
967	Lattice-Induced Moiré Patterns in Direction-Controlled Epitaxial Graphene on Cu(111). <i>Advanced Materials Interfaces</i> , 2014, 1, 1300080.	1.9	12
968	Microscopically inhomogeneous electronic and material properties arising during thermal and plasma CVD of graphene. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8939-8948.	2.7	16
969	Low cost, rapid synthesis of graphene on Ni: An efficient barrier for corrosion and thermal oxidation. <i>Carbon</i> , 2014, 78, 384-391.	5.4	51
970	Tuning On-Off Current Ratio and Field-Effect Mobility in a MoS ₂ Graphene Heterostructure via Schottky Barrier Modulation. <i>ACS Nano</i> , 2014, 8, 5790-5798.	7.3	240
971	Electrochemistry of Graphene and Related Materials. <i>Chemical Reviews</i> , 2014, 114, 7150-7188.	23.0	968
972	Engineering the strain in graphene layers with Au decoration. <i>Applied Surface Science</i> , 2014, 308, 193-198.	3.1	19
973	Carbon scrolls from chemical vapor deposition grown graphene. <i>Carbon</i> , 2014, 76, 257-265.	5.4	18
974	Improvement of stacking order in graphite by molten fluoride salt infiltration. <i>Carbon</i> , 2014, 72, 304-311.	5.4	46
975	Tailored conversion of synthetic graphite into rotationally misoriented few-layer graphene by cold thermal shock driven controlled failure. <i>Carbon</i> , 2014, 67, 534-545.	5.4	2
976	Field emission characteristics of vertically aligned carbon nanotubes with honeycomb configuration grown onto glass substrate with titanium coating. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 182, 14-20.	1.7	11
977	Characterization of structural defects in nuclear graphite IG-110 and NBG-18. <i>Journal of Nuclear Materials</i> , 2014, 446, 193-199.	1.3	53
978	A new approach to fabricate graphene electro-conductive networks on natural fibers by ultraviolet curing method. <i>Synthetic Metals</i> , 2014, 193, 41-47.	2.1	65
979	Preparation and millimeter wave attenuation properties of NiFe ₂ O ₄ /expanded graphite composites by low-temperature combustion synthesis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 185, 1-6.	1.7	25
980	Characterization of flame-generated 2-D carbon nano-disks. <i>Carbon</i> , 2014, 68, 138-148.	5.4	59
981	3D graphene foams decorated by CuO nanoflowers for ultrasensitive ascorbic acid detection. <i>Biosensors and Bioelectronics</i> , 2014, 59, 384-388.	5.3	162
982	Phenylenediamine functionalized reduced graphene oxide/polyaniline hybrid: synthesis, characterization, improved conductivity and photocurrent generation. <i>RSC Advances</i> , 2014, 4, 29901-29908.	1.7	12
983	Sol-gel chemistry for graphene-silica nanocomposite films. <i>New Journal of Chemistry</i> , 2014, 38, 3777-3782.	1.4	27

#	ARTICLE	IF	CITATIONS
984	Quantification of the Relative <i>z</i> -Polarized Electromagnetic Field Contribution and Associated Investigation of Asymmetric Shape of Layer Breathing Mode from Au Nanoparticle@Graphene@Au Thin Film Junctions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6989-6993.	1.5	14
985	Enhancing the Electrical Properties of a Flexible Transparent Graphene-Based Field-Effect Transistor Using Electropolished Copper Foil for Graphene Growth. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10489-10496.	4.0	17
986	Interlayer non-coupled optical properties for determining the number of layers in arbitrarily stacked multilayer graphenes. <i>Carbon</i> , 2014, 77, 454-461.	5.4	33
987	Heating Isotopically Labeled Bernal Stacked Graphene: A Raman Spectroscopy Study. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 549-554.	2.1	33
988	Cobalt Hydroxide/Oxide Hexagonal Ring@Graphene Hybrids through Chemical Etching of Metal Hydroxide Platelets by Graphene Oxide: Energy Storage Applications. <i>ACS Nano</i> , 2014, 8, 2755-2765.	7.3	120
989	Electrical Tuning of Surface Plasmon Polariton Propagation in Graphene@Nanowire Hybrid Structure. <i>ACS Nano</i> , 2014, 8, 2584-2589.	7.3	49
990	Layer-number determination in graphene on SiC by reflectance mapping. <i>Carbon</i> , 2014, 77, 492-500.	5.4	48
991	Induction heating-assisted repeated growth and electrochemical transfer of graphene on millimeter-thick metal substrates. <i>Diamond and Related Materials</i> , 2014, 47, 46-52.	1.8	16
992	Large-Area, Transparent, and Flexible Infrared Photodetector Fabricated Using P-N Junctions Formed by N-Doping Chemical Vapor Deposition Grown Graphene. <i>Nano Letters</i> , 2014, 14, 3702-3708.	4.5	201
993	Formation of Oriented Graphene Nanoribbons over Heteroepitaxial Cu Surfaces by Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2014, 26, 5215-5222.	3.2	9
994	Analysis of vibrational properties of C-doped hexagonal boron nitride (h-BN). <i>Computational Materials Science</i> , 2014, 94, 225-233.	1.4	10
995	Transfer induced compressive strain in graphene: Evidence from Raman spectroscopic mapping. <i>Microelectronic Engineering</i> , 2014, 121, 113-117.	1.1	32
996	Effect of hydrogen flow during cooling phase to achieve uniform and repeatable growth of bilayer graphene on copper foils over large area. <i>Carbon</i> , 2014, 77, 341-350.	5.4	18
997	Effect of annealing of graphene layer on electrical transport and degradation of Au/graphene/n-type silicon Schottky diodes. <i>Journal of Alloys and Compounds</i> , 2014, 612, 265-272.	2.8	13
998	Terahertz Optoelectronic Property of Graphene: Substrate-Induced Effects on Plasmonic Characteristics. <i>Applied Sciences (Switzerland)</i> , 2014, 4, 28-41.	1.3	26
999	New application perspective for tetrahedral amorphous carbon coatings. <i>QScience Connect</i> , 2014, .	0.2	22
1000	Quantitative analysis of interfacial reactions at a graphene/SiO ₂ interface using the discharge current analysis method. <i>Applied Physics Letters</i> , 2014, 104, 151604.	1.5	6
1001	Microwave-assisted Production of Chlorinated Graphene Dispersion. <i>Chemistry Letters</i> , 2014, 43, 1116-1118.	0.7	3

#	ARTICLE	IF	CITATIONS
1002	Optical absorption characteristics and polarization dependence of single-layer graphene on silicon waveguide. IEICE Transactions on Electronics, 2014, E97.C, 736-743.	0.3	0
1003	Graphene Overview. Electrochemical Energy Storage and Conversion, 2014, , 1-20.	0.0	1
1004	Electrical performance of chemical vapor deposition graphene on PET substrate tailored by Cu foil surface morphology. EPJ Applied Physics, 2014, 67, 30701.	0.3	6
1005	Raman spectroscopy on mechanically exfoliated pristine graphene ribbons. Physica Status Solidi (B): Basic Research, 2014, 251, 2551-2555.	0.7	3
1006	A Direct Hybridization between Isocharged Nanosheets of Layered Metal Oxide and Graphene through a Surface-Modification Assembly Process. Chemistry - A European Journal, 2014, 20, 15459-15466.	1.7	10
1007	Preparation of low-dimensional carbon material-based metal nanocomposites using a polarizable organic/water interface. Journal of Materials Research, 2015, 30, 2679-2687.	1.2	11
1008	Growth of Hexagonal Boron Nitride on Microelectronic Compatible Substrates. Materials Research Society Symposia Proceedings, 2015, 1781, 1-10.	0.1	2
1009	Improvement of Wrinkles in Roll-to-Roll Microwave Plasma CVD Graphene. Materials Research Society Symposia Proceedings, 2015, 1761, 1.	0.1	0
1010	Creating Metal Nanoparticle-Reduced Graphene Oxide Sheets by a Simple Desktop Method. Materials Research Society Symposia Proceedings, 2015, 1727, 67.	0.1	0
1011	Graphene-assisted nonlinear optical device for four-wave mixing based tunable wavelength conversion of QPSK signal. Optics Express, 2015, 23, 26158.	1.7	19
1012	High Quality Monolayer Graphene Synthesized by Resistive Heating Cold Wall Chemical Vapor Deposition. Advanced Materials, 2015, 27, 4200-4206.	11.1	132
1013	Formation of Graphene P-N Junction Arrays Using Soft-Lithographic Patterning and Cross-Stacking. Advanced Materials Research, 0, 1098, 63-68.	0.3	1
1014	Scattering of phonons by high-concentration isotopic impurities in ultrathin graphite. Physical Review B, 2015, 91, .	1.1	16
1015	Raman spectroscopy of electrochemically gated graphene transistors: Geometrical capacitance, electron-phonon, electron-electron, and electron-defect scattering. Physical Review B, 2015, 91, .	1.1	145
1016	Magnetic oscillation of optical phonon in ABA- and ABC-stacked trilayer graphene. Physical Review B, 2015, 91, .	1.1	8
1017	Valley relaxation in graphene due to charged impurities. Physical Review B, 2015, 92, .	1.1	10
1018	Detection of interlayer interaction in few-layer graphene. Physical Review B, 2015, 92, .	1.1	22
1019	Probing carbon isotope effects on the Raman spectra of graphene with different concentrations. Physical Review B, 2015, 92, .	1.1	20

#	ARTICLE	IF	CITATIONS
1020	Chiral Phonons at High-Symmetry Points in Monolayer Hexagonal Lattices. <i>Physical Review Letters</i> , 2015, 115, 115502.	2.9	235
1022	In situ cleavage prepared bilayer graphene device and its large magnetoresistance. <i>EPJ Applied Physics</i> , 2015, 72, 20401.	0.3	1
1023	Intrinsic and extrinsic defects in a family of coal-derived graphene quantum dots. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	25
1024	Fabrication of large size graphene and Ti- MWCNTs/ large size graphene composites: their photocatalytic properties and potential application. <i>Scientific Reports</i> , 2015, 5, 14242.	1.6	4
1025	Graphene wrinkling induced by monodisperse nanoparticles: facile control and quantification. <i>Scientific Reports</i> , 2015, 5, 15061.	1.6	35
1026	Angle dependent interlayer magnetoresistance in multilayer graphene stacks. <i>Journal of Applied Physics</i> , 2015, 118, 164303.	1.1	6
1027	Study of graphene growth by HWC-VHF-PECVD method using annealed Ag films. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
1028	Observation of tunable electrical bandgap in large-area twisted bilayer graphene synthesized by chemical vapor deposition. <i>Scientific Reports</i> , 2015, 5, 15285.	1.6	38
1029	Influence of carbon nanotube extending length on pyrocarbon microstructure and mechanical behavior of carbon/carbon composites. <i>Applied Surface Science</i> , 2015, 355, 1020-1027.	3.1	30
1030	Electrochemical deposition of Mg(OH) ₂ /GO composite films for corrosion protection of magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2015, 3, 231-236.	5.5	26
1031	Wellâ€Combined Magnetically Separable Hybrid Cobalt Ferrite/Nitrogenâ€Doped Graphene as Efficient Catalyst with Superior Performance for Oxygen Reduction Reaction. <i>Small</i> , 2015, 11, 5833-5843.	5.2	73
1032	Interconnected Graphene Networks with Uniform Geometry for Flexible Conductors. <i>Advanced Functional Materials</i> , 2015, 25, 6165-6172.	7.8	36
1033	Fluorination of Isotopically Labeled Turbostratic and Bernal Stacked Bilayer Graphene. <i>Chemistry - A European Journal</i> , 2015, 21, 1081-1087.	1.7	25
1034	Stabilization of Titanium Dioxide Nanoparticles at the Surface of Carbon Nanomaterials Promoted by Microwave Heating. <i>Chemistry - A European Journal</i> , 2015, 21, 14901-14910.	1.7	12
1035	BNâ€Graphene Composites Generated by Covalent Crossâ€Linking with Organic Linkers. <i>Advanced Functional Materials</i> , 2015, 25, 5910-5917.	7.8	59
1036	Chemical Modification of Graphene Oxide through Diazonium Chemistry and Its Influence on the Structureâ€Property Relationships of Graphene Oxideâ€Iron Oxide Nanocomposites. <i>Chemistry - A European Journal</i> , 2015, 21, 12465-12474.	1.7	38
1037	Doping- and interference-free measurement of I _{2D} /I _G in suspended monolayer graphene blisters. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2390-2394.	0.7	11
1038	Influence of ambient conditions on the electronic structure of graphene/copper interface. <i>Surface and Interface Analysis</i> , 2015, 47, 793-797.	0.8	4

#	ARTICLE	IF	CITATIONS
1039	Low Density Growth of Graphene by Air Introduction in Atmospheric Pressure Chemical Vapor Deposition. E-Journal of Surface Science and Nanotechnology, 2015, 13, 404-409.	0.1	17
1040	Tip-Enhanced Raman Scattering of Nanomaterials. E-Journal of Surface Science and Nanotechnology, 2015, 13, 329-338.	0.1	2
1041	<i>In vitro</i> cytocompatibility of one-dimensional and two-dimensional nanostructure-reinforced biodegradable polymeric nanocomposites. Journal of Biomedical Materials Research - Part A, 2015, 103, 2309-2321.	2.1	33
1042	Multiphonon Raman spectroscopy properties and Raman mapping of 2D <i>van der Waals</i> solids: graphene and beyond. Journal of Raman Spectroscopy, 2015, 46, 217-230.	1.2	19
1044	Electrochemistry Investigation on the Graphene/Electrolyte Interface. Electroanalysis, 2015, 27, 2760-2765.	1.5	25
1045	Vanadium Pentoxide/Reduced Graphene Oxide Composite as an Efficient Electrode Material for High-Performance Supercapacitors and Self-Powered Systems. Energy Technology, 2015, 3, 913-924.	1.8	32
1046	Efficient one-pot combustion synthesis of few-layered graphene. Physica Status Solidi (B): Basic Research, 2015, 252, 2412-2417.	0.7	8
1047	An Atomistic Tomographic Study of Oxygen and Hydrogen Atoms and their Molecules in CVD Grown Graphene. Small, 2015, 11, 5968-5974.	5.2	12
1048	Raman spectroscopy as a tool to investigate the structure and electronic properties of carbon-atom wires. Beilstein Journal of Nanotechnology, 2015, 6, 480-491.	1.5	83
1049	Synthesis of Y-Tip Graphitic Nanoribbons from Alcohol Catalytic Chemical Vapor Deposition on Piezoelectric Substrate. Journal of Nanomaterials, 2015, 2015, 1-7.	1.5	5
1050	Graphene samples preparation and some possible uses in developing optical communication devices. Revista Facultad De Ingenier�a, 2015, , .	0.5	0
1051	Films of Graphene Nanomaterials Formed by Ultrasonic Spraying of Their Stable Suspensions. Aerosol Science and Technology, 2015, 49, 45-56.	1.5	15
1052	Surface Chemistry and Thermal Stability in Air of Carbon Nanotubes Functionalised via a Novel Eco-Friendly Approach to HNO ₃ Vapor Oxidation. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 83-92.	1.0	2
1053	Graphene-based nanomaterials for versatile imaging studies. Chemical Society Reviews, 2015, 44, 4835-4852.	18.7	176
1054	Chemically grafted graphite nanosheets dispersed in poly(ethylene-glycol) by ¹³ C-radiolysis for enhanced lubrication. RSC Advances, 2015, 5, 53766-53775.	1.7	29
1055	Pyrite FeS ₂ microspheres wrapped by reduced graphene oxide as high-performance lithium-ion battery anodes. Journal of Materials Chemistry A, 2015, 3, 7945-7949.	5.2	134
1056	Facile electrochemical transfer of large-area single crystal epitaxial graphene from Ir(1��1��1). Journal Physics D: Applied Physics, 2015, 48, 115306.	1.3	23
1057	Tip-enhanced Raman mapping of local strain in graphene. Nanotechnology, 2015, 26, 175702.	1.3	62

#	ARTICLE	IF	CITATIONS
1058	One-step synthesis of chlorinated graphene by plasma enhanced chemical vapor deposition. <i>Applied Surface Science</i> , 2015, 347, 632-635.	3.1	18
1059	Few-layer graphene based sponge as a highly efficient, recyclable and selective sorbent for organic solvents and oils. <i>RSC Advances</i> , 2015, 5, 53741-53748.	1.7	28
1060	Graphene-FET-based gas sensor properties depending on substrate surface conditions. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 06FF11.	0.8	5
1061	Carrier type inversion in quasi-free standing graphene: studies of local electronic and structural properties. <i>Scientific Reports</i> , 2015, 5, 10505.	1.6	47
1062	In Situ Electrochemical Synthesis and Deposition of Discotic Hexa- <i>peri</i> -hexabenzocoronene Molecules on Electrodes: Self-Assembled Structure, Redox Properties, and Application for Supercapacitor. <i>Small</i> , 2015, 11, 3028-3034.	5.2	27
1063	Non-covalent modification of graphene sheets in PEDOT composite materials by ionic liquids. <i>Carbon</i> , 2015, 93, 533-543.	5.4	47
1064	Modification of Chemically Exfoliated Graphene to Produce Efficient Piezoresistive Polystyrene-Graphene Composites. <i>Journal of Electronic Materials</i> , 2015, 44, 3512-3522.	1.0	14
1065	Two-phonon Raman bands of bilayer graphene: Revisited. <i>Carbon</i> , 2015, 91, 436-444.	5.4	18
1066	Graphene oxide-encoded Ag nanoshells with single-particle detection sensitivity towards cancer cell imaging based on SERRS. <i>Analyst</i> , The, 2015, 140, 3362-3367.	1.7	14
1067	Magneto-optical properties of ABC-stacked trilayer graphene. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15921-15927.	1.3	13
1068	Curcumin-reduced graphene oxide sheets and their effects on human breast cancer cells. <i>Materials Science and Engineering C</i> , 2015, 55, 482-489.	3.8	122
1069	Graphene Thin Layers Formation on Monocrystalline Ni(111)/MgO(111) by Carbon Implantation and Annealing. <i>Graphene</i> , 2015, 04, 21-37.	0.3	3
1070	Ggraphene for metamaterials: Synthesis using do-it-yourself low-cost reactor. , 2015, , .		0
1071	Effect of UV light-induced nitrogen doping on the field effect transistor characteristics of graphene. <i>RSC Advances</i> , 2015, 5, 70522-70526.	1.7	10
1072	A single iron site confined in a graphene matrix for the catalytic oxidation of benzene at room temperature. <i>Science Advances</i> , 2015, 1, e1500462.	4.7	719
1073	Preparation and adsorption capacity evaluation of graphene oxide-chitosan composite hydrogels. <i>Science China Materials</i> , 2015, 58, 811-818.	3.5	70
1074	A facile approach for fabrication of mechanically strong graphene/polypyrrole films with large areal capacitance for supercapacitor applications. <i>RSC Advances</i> , 2015, 5, 102643-102651.	1.7	39
1075	Raman spectroscopy of graphene on AlGaN/GaN heterostructures. <i>Thin Solid Films</i> , 2015, 597, 140-143.	0.8	17

#	ARTICLE	IF	CITATIONS
1076	Synthesis, nanostructure and magnetic properties of FeCo-reduced graphene oxide composite films by one-step electrodeposition. <i>Thin Solid Films</i> , 2015, 597, 1-6.	0.8	12
1077	Integration of MnO@graphene with graphene networks towards Li-ion battery anodes. <i>RSC Advances</i> , 2015, 5, 96681-96684.	1.7	14
1078	First principles Raman study of boron and nitrogen doped planar T-graphene clusters. <i>Materials Research Express</i> , 2015, 2, 095603.	0.8	18
1079	Synthesis of Siâ€“Caâ€“Nâ€“Fe layers from volatile organosilicon precursors and ferrocene. part I. synthesis, chemical and phase composition of iron-containing layers prepared by thermal decomposition of ferrocene. <i>Glass Physics and Chemistry</i> , 2015, 41, 630-636.	0.2	4
1080	Tuning the work function of monolayer graphene on 4H-SiC (0001) with nitric acid. <i>Nanotechnology</i> , 2015, 26, 445702.	1.3	13
1081	Synthesis of 2D materials in arc plasmas. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 314007.	1.3	43
1082	Studies of structure and properties of graphene oxide prepared by ball milling. <i>Materials Research Innovations</i> , 2015, 19, S1-277-S1-280.	1.0	13
1083	Mechanical stability of substrate-bound graphene in contact with aqueous solutions. <i>2D Materials</i> , 2015, 2, 024011.	2.0	12
1084	Controllable Growth of the Graphene from Millimeter-Sized Monolayer to Multilayer on Cu by Chemical Vapor Deposition. <i>Nanoscale Research Letters</i> , 2015, 10, 455.	3.1	16
1085	Near infrared laser stimulation of human neural stem cells into neurons on graphene nanomesh semiconductors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 313-321.	2.5	98
1086	Using the Thickness of Graphene to Template Lateral Subnanometer Gaps between Gold Nanostructures. <i>Nano Letters</i> , 2015, 15, 635-640.	4.5	36
1087	Interlaminar reinforcement of glass fiber/epoxy composites with graphene nanoplatelets. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 70, 82-92.	3.8	135
1088	Experimentally derived axial stressâ€“strain relations for two-dimensional materials such as monolayer graphene. <i>Carbon</i> , 2015, 81, 322-328.	5.4	43
1089	Electrical conductivity of dense, bulk silicon-oxycarbide ceramics. <i>Journal of the European Ceramic Society</i> , 2015, 35, 1355-1360.	2.8	45
1090	Nanopatterning on highly oriented pyrolytic graphite surfaces promoted by cobalt oxides. <i>Carbon</i> , 2015, 85, 89-98.	5.4	8
1091	Magnetoresistance and Charge Transport in Graphene Governed by Nitrogen Dopants. <i>ACS Nano</i> , 2015, 9, 1360-1366.	7.3	51
1092	Study on temperature-dependent carrier transport for bilayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 69, 115-120.	1.3	4
1093	Preparation of graphene on Cu foils by ion implantation with negative carbon clusters. <i>Chinese Physics B</i> , 2015, 24, 018502.	0.7	2

#	ARTICLE	IF	CITATIONS
1094	Growth Mechanism of Graphene on Graphene Films Grown by Chemical Vapor Deposition. Chemistry - an Asian Journal, 2015, 10, 637-641.	1.7	2
1095	Direct synthesis of multi-layer graphene film on various substrates by microwave plasma at low temperature. Thin Solid Films, 2015, 587, 8-13.	0.8	26
1096	Role of humidity in reducing sliding friction of multilayered graphene. Carbon, 2015, 87, 374-384.	5.4	130
1097	A simple and flexible route to large-area conductive transparent graphene thin-films. Synthetic Metals, 2015, 201, 67-75.	2.1	14
1098	Multilayer graphene-gold nanoparticle hybrid substrate for the SERS determination of metronidazole. Microchemical Journal, 2015, 121, 6-13.	2.3	42
1099	Signature Vibrational Bands for Defects in CVD Single-Layer Graphene by Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry Letters, 2015, 6, 964-969.	2.1	22
1100	Atmospheric pressure plasma treatment on graphene grown by chemical vapor deposition. Current Applied Physics, 2015, 15, 563-568.	1.1	22
1101	Raman characterization of defects and dopants in graphene. Journal of Physics Condensed Matter, 2015, 27, 083002.	0.7	451
1102	Epitaxially Grown Strained Pentacene Thin Film on Graphene Membrane. Small, 2015, 11, 2037-2043.	5.2	53
1103	Preparation and characterization of conducting polymer nanocomposite with partially reduced graphene oxide. Synthetic Metals, 2015, 201, 61-66.	2.1	27
1104	Fabrication of high-quality graphene by hot-filament thermal chemical vapor deposition. Carbon, 2015, 86, 1-11.	5.4	21
1105	Dopant Segregation in Polycrystalline Monolayer Graphene. Nano Letters, 2015, 15, 1428-1436.	4.5	19
1106	Nanosized graphene crystallite induced strong magnetism in pure carbon films. Nanoscale, 2015, 7, 4475-4481.	2.8	37
1107	Graphene versus MoS ₂ : A short review. Frontiers of Physics, 2015, 10, 287-302.	2.4	176
1108	The mechanism of carbon-silica dual phase filler modified by ionic liquid and its reinforcing on natural rubber. Polymer Composites, 2015, 36, 1721-1730.	2.3	25
1109	Assessment of H-intercalated graphene for microwave FETs through material characterization and electron transport studies. Carbon, 2015, 81, 96-104.	5.4	7
1110	Annealing free, clean graphene transfer using alternative polymer scaffolds. Nanotechnology, 2015, 26, 055302.	1.3	114
1111	Fabrication gallium/graphene core-shell nanoparticles by pulsed laser deposition and their applications in surface enhanced Raman scattering. Materials Letters, 2015, 143, 194-196.	1.3	13

#	ARTICLE	IF	CITATIONS
1112	Scalable production of wrinkled and few-layered graphene sheets and their use for oil and organic solvent absorption. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6913-6918.	1.3	23
1113	Graphene oxide powders with different oxidation degree, prepared by synthesis variations of the Hummers method. <i>Materials Chemistry and Physics</i> , 2015, 153, 209-220.	2.0	516
1114	Silver Nanoparticles in Comparison with Ionic Liquid and rGO as Gate Dopant for Paper-Based Flexible Field-Effect Transistors. <i>Journal of Electronic Materials</i> , 2015, 44, 6-12.	1.0	15
1115	Temperature-Dependent Resonance Energy Transfer from Semiconductor Quantum Wells to Graphene. <i>Nano Letters</i> , 2015, 15, 896-902.	4.5	12
1116	Deposition of graphene by sublimation of pyrolytic carbon. <i>Optical and Quantum Electronics</i> , 2015, 47, 851-863.	1.5	18
1117	Raman Spectroscopy and <i>in Situ</i> Raman Spectroelectrochemistry of Isotopically Engineered Graphene Systems. <i>Accounts of Chemical Research</i> , 2015, 48, 111-118.	7.6	55
1118	A Fe ₃ O ₄ /N-carbon composite with hierarchical porous structure and in situ formed N-doped graphene-like layers for high-performance lithium ion batteries. <i>Dalton Transactions</i> , 2015, 44, 4594-4600.	1.6	28
1119	Molecules-Oligomers-Nanowires-Graphene Nanoribbons: A Bottom-Up Stepwise On-Surface Covalent Synthesis Preserving Long-Range Order. <i>Journal of the American Chemical Society</i> , 2015, 137, 1802-1808.	6.6	221
1120	Modification of Graphene/SiO ₂ Interface by UV-Irradiation: Effect on Electrical Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2439-2443.	4.0	42
1121	Raman spectra, thermal and mechanical properties of poly(ethylene terephthalate) carbon-based nanocomposite films. <i>Journal of Polymer Research</i> , 2015, 22, 1.	1.2	32
1122	Evolution, kinetics, energetics, and environmental factors of graphene degradation on silicon dioxide. <i>Nanoscale</i> , 2015, 7, 6093-6103.	2.8	10
1123	Helicity-Resolved Raman Scattering of MoS ₂ , MoSe ₂ , WS ₂ , and WSe ₂ Atomic Layers. <i>Nano Letters</i> , 2015, 15, 2526-2532.	4.5	241
1124	Macroscopic, Freestanding, and Tubular Graphene Architectures Fabricated <i>via</i> Thermal Annealing. <i>ACS Nano</i> , 2015, 9, 3206-3214.	7.3	26
1125	Direct growth of large-area graphene and boron nitride heterostructures by a co-segregation method. <i>Nature Communications</i> , 2015, 6, 6519.	5.8	190
1126	Ultrasensitive Room-Temperature Piezoresistive Transduction in Graphene-Based Nanoelectromechanical Systems. <i>Nano Letters</i> , 2015, 15, 2562-2567.	4.5	82
1127	Redistribution of carbon atoms in Pt substrate for high quality monolayer graphene synthesis. <i>Journal of Semiconductors</i> , 2015, 36, 013005.	2.0	4
1128	Nanoscale frictional behavior of graphene on SiO ₂ and Ni(111) substrates. <i>Nanotechnology</i> , 2015, 26, 055703.	1.3	57
1129	Design, Synthesis, and Characterization of Graphene-Nanoparticle Hybrid Materials for Bioapplications. <i>Chemical Reviews</i> , 2015, 115, 2483-2531.	23.0	603

#	ARTICLE	IF	CITATIONS
1130	Laser processing of SiC: From graphene-coated SiC particles to 3D graphene froths. Carbon, 2015, 85, 176-184.	5.4	15
1131	Graphene Oxide as a Multifunctional Platform for Raman and Fluorescence Imaging of Cells. Small, 2015, 11, 3000-3005.	5.2	33
1132	Graphene-based structural adhesive to enhance adhesion performance. RSC Advances, 2015, 5, 27874-27886.	1.7	67
1133	Electrochemical exfoliation of graphite to produce graphene using tetrasodium pyrophosphate. RSC Advances, 2015, 5, 24846-24852.	1.7	40
1134	Influence of the surface treatment with low-energy Ar^+ plasma on graphene and defected graphene layers. Optical and Quantum Electronics, 2015, 47, 901-912.	1.5	1
1135	Influence of a gold substrate on the optical properties of graphene. Journal of Applied Physics, 2015, 117, .	1.1	12
1136	Microfiber With Methyl Blue-Functionalized Reduced Graphene Oxide and Violet Light Sensing. IEEE Photonics Technology Letters, 2015, 27, 798-801.	1.3	11
1137	Low-temperature plasma-enhanced chemical vapour deposition of transfer-free graphene thin films. Materials Letters, 2015, 158, 436-438.	1.3	13
1138	Effects of graphene defect on electronic structures of its interface with organic semiconductor. Applied Physics Letters, 2015, 106, .	1.5	5
1139	Effect of substrate heating and microwave attenuation on the catalyst free growth and field emission of carbon nanotubes. Carbon, 2015, 94, 256-265.	5.4	27
1140	Introducing Ti-GERS: Raman Scattering Enhancement in Graphene-Mesoporous Titania Films. Journal of Physical Chemistry Letters, 2015, 6, 3149-3154.	2.1	15
1141	Chemical vapor deposition growth of 5 mm hexagonal single-crystal graphene from ethanol. Carbon, 2015, 94, 810-815.	5.4	74
1142	CO_2 -selective PEO/PBT (PolyActive [®] , C)/graphene oxide composite membranes. Chemical Communications, 2015, 51, 14187-14190.	2.2	93
1143	Composite micromechanics. , 2015, , 3-23.		4
1144	Quantifying the electrochemical maleimidation of large area graphene. Electrochemistry Communications, 2015, 57, 52-55.	2.3	12
1145	Uniformly Nanopatterned Graphene Field-Effect Transistors with Enhanced Properties. Nanoscale Research Letters, 2015, 10, 976.	3.1	6
1146	Highly sensitive and wide-range nonenzymatic disposable glucose sensor based on a screen printed carbon electrode modified with reduced graphene oxide and Pd-CuO nanoparticles. Mikrochimica Acta, 2015, 182, 2183-2192.	2.5	54
1147	Recent progress in the applications of graphene in surface-enhanced Raman scattering and plasmon-induced catalytic reactions. Journal of Materials Chemistry C, 2015, 3, 9024-9037.	2.7	113

#	ARTICLE	IF	CITATIONS
1148	Degradation of 14C-labeled few layer graphene via Fenton reaction: Reaction rates, characterization of reaction products, and potential ecological effects. <i>Water Research</i> , 2015, 49, 49-57.	5.3	72
1149	Reduced Graphene Oxide-Based Silver Nanoparticle-Containing Composite Hydrogel as Highly Efficient Dye Catalysts for Wastewater Treatment. <i>Scientific Reports</i> , 2015, 5, 11873.	1.6	175
1150	Palladium nanoparticles deposited on graphene and its electrochemical performance for glucose sensing. <i>Applied Surface Science</i> , 2015, 355, 587-592.	3.1	36
1151	Facile and Scalable Preparation of Graphene Oxide-Based Magnetic Hybrids for Fast and Highly Efficient Removal of Organic Dyes. <i>Scientific Reports</i> , 2015, 5, 12451.	1.6	112
1152	Controllable Tailoring Graphene Nanoribbons with Tunable Surface Functionalities: An Effective Strategy toward High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17441-17449.	4.0	52
1153	Diamine-Alkalized Reduced Graphene Oxide: Immobilization of Sub-2 nm Palladium Nanoparticles and Optimization of Catalytic Activity for Dehydrogenation of Formic Acid. <i>ACS Catalysis</i> , 2015, 5, 5141-5144.	5.5	166
1154	Towards the continuous production of high crystallinity graphene via electrochemical exfoliation with molecular in situ encapsulation. <i>Nanoscale</i> , 2015, 7, 15362-15373.	2.8	112
1155	Shock-wave synthesis of multilayer graphene and nitrogen-doped graphene materials from carbonate. <i>Carbon</i> , 2015, 94, 928-935.	5.4	29
1156	<i>Pulicaria glutinosa</i> Extract: A Toolbox to Synthesize Highly Reduced Graphene Oxide-Silver Nanocomposites. <i>International Journal of Molecular Sciences</i> , 2015, 16, 1131-1142.	1.8	53
1157	Polyhedral MnO nanocrystals anchored on reduced graphene oxide as an anode material with superior lithium storage capability. <i>Ceramics International</i> , 2015, 41, 10680-10688.	2.3	13
1158	Nanocarbons from rice husk by microwave plasma irradiation: From graphene and carbon nanotubes to graphenated carbon nanotube hybrids. <i>Carbon</i> , 2015, 94, 479-484.	5.4	81
1159	Highly Sensitive Wide Bandwidth Photodetector Based on Internal Photoemission in CVD Grown p-Type MoS ₂ /Graphene Schottky Junction. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15206-15213.	4.0	98
1160	On the Formation of Graphene by Ge Intercalation of a 4H-SiC Surface. <i>Materials Science Forum</i> , 2015, 821-823, 961-964.	0.3	2
1161	Synthesis of thiolated few-layered graphene by thermal chemical vapor deposition using solid precursor. <i>Materials Letters</i> , 2015, 159, 114-117.	1.3	4
1162	Effect of ambient on the resistance fluctuations of graphene. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	24
1163	Landau Level Spectroscopy of Electron-Electron Interactions in Graphene. <i>Physical Review Letters</i> , 2015, 114, 126804.	2.9	52
1164	Enhanced opto-electrical properties of graphene electrode InGaN/GaN LEDs with a NiOx inter-layer. <i>Solid-State Electronics</i> , 2015, 109, 47-51.	0.8	7
1165	Microwave plasma-induced graphene-sheet fibers from waste coffee grounds. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14545-14549.	5.2	22

#	ARTICLE	IF	CITATIONS
1166	Application of the wavelet transform to the problem of the detection and determination of the Lorentzian positions of the 2D band in the Raman spectrum of bilayer graphene. <i>Semiconductors</i> , 2015, 49, 814-818.	0.2	1
1167	Raman spectroscopy of polyhedral carbon nano-onions. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 1339-1345.	1.1	30
1168	Multilayered graphene films prepared at moderate temperatures using energetic physical vapour deposition. <i>Carbon</i> , 2015, 94, 378-385.	5.4	11
1169	Base Metal Catalyzed Graphitization of Cellulose: A Combined Raman Spectroscopy, Temperature-Dependent X-ray Diffraction and High-Resolution Transmission Electron Microscopy Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10653-10661.	1.5	139
1170	Shell decoration of hydrothermally obtained colloidal carbon spheres with base metal nanoparticles. <i>New Journal of Chemistry</i> , 2015, 39, 6593-6601.	1.4	12
1171	Two-Photon Absorption in Graphene Enhanced by the Excitonic Fano Resonance. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16954-16961.	1.5	23
1172	Suspended monolayer graphene under true uniaxial deformation. <i>Nanoscale</i> , 2015, 7, 13033-13042.	2.8	52
1173	Hydrogen Generation of Cu ₂ O Nanoparticles/MnO ₂ Nanorods Heterojunction Supported on Sonochemical-Assisted Synthesized Few-Layer Graphene in Water-Splitting Photocathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1965-1973.	3.2	22
1174	Rapid epitaxy-free graphene synthesis on silicidated polycrystalline platinum. <i>Nature Communications</i> , 2015, 6, 7536.	5.8	46
1175	Decoupling of epitaxial graphene via gold intercalation probed by dispersive Raman spectroscopy. <i>Journal of Applied Physics</i> , 2015, 117, 183103.	1.1	3
1176	Strong Asymmetric Charge Carrier Dependence in Inelastic Electron Tunneling Spectroscopy of Graphene Phonons. <i>Physical Review Letters</i> , 2015, 114, 245502.	2.9	41
1177	Platinum-boron doped graphene intercalated by carbon black for cathode catalyst in proton exchange membrane fuel cell. <i>Energy</i> , 2015, 89, 500-510.	4.5	54
1178	Ethanol electro-oxidation on nanoworm-shaped Pd particles supported by nanographitic layers fabricated by electrophoretic deposition. <i>RSC Advances</i> , 2015, 5, 52578-52587.	1.7	20
1179	Facile preparation of a three-dimensional Fe ₃ O ₄ /macroporous graphene composite for high-performance Li storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12031-12037.	5.2	51
1180	An Insight into Atmospheric Plasma Jet Modified ZnO Quantum Dots Thin Film for Flexible Perovskite Solar Cell: Optoelectronic Transient and Charge Trapping Studies. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10379-10390.	1.5	80
1181	Covalent Modification of Graphene and Graphite Using Diazonium Chemistry: Tunable Grafting and Nanomanipulation. <i>ACS Nano</i> , 2015, 9, 5520-5535.	7.3	274
1182	High Mobility of Graphene-Based Flexible Transparent Field Effect Transistors Doped with TiO ₂ and Nitrogen-Doped TiO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9453-9461.	4.0	30
1183	Effects of defects and thermal treatment on the properties of graphene. <i>Vacuum</i> , 2015, 116, 90-95.	1.6	30

#	ARTICLE	IF	CITATIONS
1184	Multifunctional nanocomposites based on tetraethylenepentamine-modified graphene oxide/epoxy. <i>Polymer Testing</i> , 2015, 43, 182-192.	2.3	93
1185	Peptide-based biomaterials. Linking L-tyrosine and poly L-tyrosine to graphene oxide nanoribbons. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3870-3884.	2.9	24
1186	Personalized disease-specific protein corona influences the therapeutic impact of graphene oxide. <i>Nanoscale</i> , 2015, 7, 8978-8994.	2.8	199
1187	Enhanced Crystallinity of Epitaxial Graphene Grown on Hexagonal SiC Surface with Molybdenum Plate Capping. <i>Scientific Reports</i> , 2015, 5, 9615.	1.6	7
1188	Large-area few-layered graphene film determination by multispectral imaging microscopy. <i>Nanoscale</i> , 2015, 7, 9033-9039.	2.8	11
1189	High-temperature-induced growth of graphite whiskers from fullerene waste soot. <i>Carbon</i> , 2015, 90, 154-159.	5.4	11
1190	Origin of van Hove singularities in twisted bilayer graphene. <i>Carbon</i> , 2015, 90, 138-145.	5.4	33
1191	Second-order Raman spectroscopy of char during gasification. <i>Fuel Processing Technology</i> , 2015, 135, 105-111.	3.7	32
1192	Graphene/TiO ₂ based photo-catalysts on nanostructured membranes as a potential active filter media for methanol gas-phase degradation. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 225-232.	10.8	37
1193	Hyperbranched polytriazine grafted reduced graphene oxide and its application. <i>Journal of Polymer Science Part A</i> , 2015, 53, 2132-2140.	2.5	11
1194	Optimized molecular reconstruction procedure combining hybrid reverse Monte Carlo and molecular dynamics. <i>Journal of Chemical Physics</i> , 2015, 142, 114112.	1.2	24
1195	Graphene Mechanics: Current Status and Perspectives. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2015, 6, 121-140.	3.3	76
1196	Reduced graphene oxide conjugate thymine as a new probe for ultrasensitive and selective fluorometric determination of mercury(II) ions. <i>Mikrochimica Acta</i> , 2015, 182, 1609-1617.	2.5	55
1197	Effect of different reduction methods on electrochemical cycling stability of reduced graphene oxide in supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 57-65.	1.5	7
1198	Graphene microelectrode arrays for neural activity detection. <i>Journal of Biological Physics</i> , 2015, 41, 339-347.	0.7	48
1199	Low energy Ar^+ plasma thinning and thermal annealing of carbon films to few-layered graphene. <i>Optical and Quantum Electronics</i> , 2015, 47, 923-935.	1.5	4
1200	Minimizing Unintentional Strain and Doping of Single-Layer Graphene on SiO ₂ in Aqueous Environments by Acid Treatments. <i>Langmuir</i> , 2015, 31, 4934-4939.	1.6	2
1201	In-situ synthesis of vanadium pentoxide nanofibre/exfoliated graphene nanohybrid and its supercapacitor applications. <i>Journal of Power Sources</i> , 2015, 287, 283-290.	4.0	43

#	ARTICLE	IF	CITATIONS
1202	Solvothermal-assisted liquid-phase exfoliation of graphite in a mixed solvent of toluene and oleylamine. <i>Nanoscale Research Letters</i> , 2015, 10, 727.	3.1	25
1203	Preparation of novel silicon/nitrogen-doped graphene composite nanosheets by DC arc discharge. <i>RSC Advances</i> , 2015, 5, 29230-29237.	1.7	10
1204	Embedded trilayer graphene flakes under tensile and compressive loading. <i>2D Materials</i> , 2015, 2, 024009.	2.0	24
1205	Sonochemical synthesis of HSiW/graphene catalysts for enhanced biomass hydrolysis. <i>Green Chemistry</i> , 2015, 17, 2418-2425.	4.6	27
1206	Hole-doping of mechanically exfoliated graphene by confined hydration layers. <i>Nano Research</i> , 2015, 8, 3020-3026.	5.8	19
1207	Enhanced electrical conductivity of silicon carbide ceramics by addition of graphene nanoplatelets. <i>Journal of the European Ceramic Society</i> , 2015, 35, 2723-2731.	2.8	96
1208	Structural properties and dielectric function of graphene grown by high-temperature sublimation on 4H-SiC(000-1). <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	16
1209	Synthesis of nitrogen-doped monolayer graphene with high transparent and n-type electrical properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6172-6177.	2.7	24
1210	Effects of the surface modification of carbon fiber by growing different types of carbon nanomaterials on the mechanical and thermal properties of polypropylene. <i>RSC Advances</i> , 2015, 5, 28822-28831.	1.7	37
1211	Effects of dielectric material properties on graphene transistor performance. <i>Solid-State Electronics</i> , 2015, 109, 8-11.	0.8	22
1212	Hydrogen-rich water for green reduction of graphene oxide suspensions. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5553-5560.	3.8	37
1213	Water desalination using nanoporous single-layer graphene. <i>Nature Nanotechnology</i> , 2015, 10, 459-464.	15.6	1,372
1214	Numerical Analysis on Phonon Localization of Vacancy Type Disordered Graphene. <i>Journal of Circuits, Systems and Computers</i> , 2015, 24, 1540002.	1.0	5
1215	Confining MoS ₂ nanodots in 3D porous nitrogen-doped graphene with amendable ORR performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7616-7622.	5.2	62
1216	A 2ÅV asymmetric supercapacitor based on reduced graphene oxide-carbon nanofiber-manganese carbonate nanocomposite and reduced graphene oxide in aqueous solution. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2311-2320.	1.2	24
1217	In situ deposition of graphene nanosheets on wood surface by one-pot hydrothermal method for enhanced UV-resistant ability. <i>Applied Surface Science</i> , 2015, 347, 891-897.	3.1	23
1218	Transparent conductive graphene textile fibers. <i>Scientific Reports</i> , 2015, 5, 9866.	1.6	72
1219	Graphene as an Efficient Interfacial Layer for Electrochromic Devices. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11330-11336.	4.0	19

#	ARTICLE	IF	CITATIONS
1220	Environmentally benign and facile reduction of graphene oxide by flash light irradiation. <i>Nanotechnology</i> , 2015, 26, 205601.	1.3	36
1221	Quantitative determination of the spatial orientation of graphene by polarized Raman spectroscopy. <i>Carbon</i> , 2015, 88, 215-224.	5.4	80
1222	Highly Stable and Tunable n-Type Graphene Field-Effect Transistors with Poly(vinyl alcohol) Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9702-9708.	4.0	25
1223	Direct synthesis of graphene 3D-coated Cu nanosilks network for antioxidant transparent conducting electrode. <i>Nanoscale</i> , 2015, 7, 10613-10621.	2.8	36
1224	Field and temperature dependence of intrinsic diamagnetism in graphene: Theory and experiment. <i>Physical Review B</i> , 2015, 91, .	1.1	61
1225	Modulation of the Electrostatic and Quantum Capacitances of Few Layered Graphenes through Plasma Processing. <i>Nano Letters</i> , 2015, 15, 3067-3072.	4.5	58
1226	Selective adsorption of oil/water mixtures using polydimethylsiloxane (PDMS)-graphene sponges. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 298-305.	1.2	127
1227	Tuning the graphene work function by uniaxial strain. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	28
1228	Synthesis of graphene oxide dots for excitation-wavelength independent photoluminescence at high quantum yields. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4553-4562.	2.7	39
1229	Excitation Energy Dependent Raman Signatures of ABA- and ABC-stacked Few-layer Graphene. <i>Scientific Reports</i> , 2014, 4, 4630.	1.6	75
1230	Electron scattering in graphene with adsorbed NaCl nanoparticles. <i>Journal of Applied Physics</i> , 2015, 117, 014308.	1.1	3
1231	<i>In Vivo</i> Compatibility of Graphene Oxide with Differing Oxidation States. <i>ACS Nano</i> , 2015, 9, 3866-3874.	7.3	197
1232	Determination of quantitative structure-property and structure-process relationships for graphene production in water. <i>Nano Research</i> , 2015, 8, 1865-1881.	5.8	16
1233	Functional graphene-gold nanoparticle hybrid system for enhanced electrochemical biosensing of free cholesterol. <i>Analytical Methods</i> , 2015, 7, 3993-4002.	1.3	19
1234	Effect of Pt and Fe catalysts in the transformation of carbon black into carbon nanotubes. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 81, 106-115.	1.9	2
1235	Facile One-Pot Synthesis of Highly Porous Carbon Foams for High-Performance Supercapacitors Using Template-Free Direct Pyrolysis. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8952-8960.	4.0	91
1236	Patterned Carboxylation of Graphene Using Scanning Electrochemical Microscopy. <i>Langmuir</i> , 2015, 31, 4443-4452.	1.6	9
1237	Raman spectroscopy measurement of bilayer graphene's twist angle to boron nitride. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	8

#	ARTICLE	IF	CITATIONS
1238	Role of substrate temperature at graphene synthesis in an arc discharge. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	22
1239	Characterization of SiC-grown epitaxial graphene microislands using tip-enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28993-28999.	1.3	14
1240	Seamless lamination of a concave-convex architecture with single-layer graphene. <i>Nanoscale</i> , 2015, 7, 18138-18146.	2.8	1
1241	Preparation of Supercapacitors on Flexible Substrates with Electrodeposited PEDOT/Graphene Composites. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22137-22147.	4.0	138
1242	Influence of carbon nanomaterial defects on the formation of protein corona. <i>RSC Advances</i> , 2015, 5, 82395-82402.	1.7	32
1243	Simple synthesis of solution-processable oxygen-enriched graphene as anode buffer layer for efficient organic solar cells. <i>Organic Electronics</i> , 2015, 27, 143-150.	1.4	6
1244	Mesoporous Vertical Co_3O_4 Nanosheet Arrays on Nitrogen-Doped Graphene Foam with Enhanced Charge-Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22831-22838.	4.0	82
1245	Tip-enhanced Raman spectroscopy: principles and applications. <i>EPJ Techniques and Instrumentation</i> , 2015, 2, .	0.5	115
1246	Engineered bio-compatible graphene nanomaterials for nonlinear applications. <i>Optical Materials Express</i> , 2015, 5, 102.	1.6	7
1247	CO_2 -Induced Reversible Dispersion of Graphene by a Melamine Derivative. <i>Langmuir</i> , 2015, 31, 12260-12267.	1.6	17
1248	Ultrasensitive NO_2 Sensor Based on Ohmic Metal-Semiconductor Interfaces of Electrolytically Exfoliated Graphene/Flame-Spray-Made SnO_2 Nanoparticles Composite Operating at Low Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24338-24352.	4.0	130
1249	Highly Decoupled Graphene Multilayers: Turbostraticity at its Best. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4437-4443.	2.1	50
1250	Self-Assembly Reduced Graphene Oxide Nanosheet Hydrogel Fabrication by Anchorage of Chitosan/Silver and Its Potential Efficient Application toward Dye Degradation for Wastewater Treatments. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3130-3139.	3.2	202
1251	Strain Assessment in Graphene Through the Raman $2D^2$ Mode. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25651-25656.	1.5	38
1252	Li-storage performance of binder-free and flexible iron fluoride@graphene cathodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23930-23935.	5.2	29
1253	On-line Raman spectroscopy of calcite and malachite during irradiation with swift heavy ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 365, 564-568.	0.6	7
1254	Synthesis of large-area multilayer hexagonal boron nitride for high material performance. <i>Nature Communications</i> , 2015, 6, 8662.	5.8	403
1255	Characterizing various types of defects in nuclear graphite using Raman scattering: Heat treatment, ion irradiation and polishing. <i>Carbon</i> , 2015, 95, 364-373.	5.4	167

#	ARTICLE	IF	CITATIONS
1256	Dose-dependent effects of nanoscale graphene oxide on reproduction capability of mammals. Carbon, 2015, 95, 309-317.	5.4	122
1257	Probing the Catalytic Activity of Reduced Graphene Oxide Decorated with Au Nanoparticles Triggered by Visible Light. Chemistry - A European Journal, 2015, 21, 9889-9894.	1.7	21
1258	ZnO quantum dots and graphene based heterostructure for excellent photoelastic and highly sensitive ultraviolet photodetector. RSC Advances, 2015, 5, 90838-90846.	1.7	23
1259	Approximate chemical analysis of volcanic glasses using Raman spectroscopy. Journal of Raman Spectroscopy, 2015, 46, 1235-1244.	1.2	53
1260	Surface-Facet-Dependent Phonon Deformation Potential in Individual Strained Topological Insulator Bi ₂ Se ₃ Nanoribbons. ACS Nano, 2015, 9, 10244-10251.	7.3	23
1261	Noise in Graphene Superlattices Grown on Hexagonal Boron Nitride. ACS Nano, 2015, 9, 11382-11388.	7.3	15
1262	Structural analysis of polycrystalline graphene systems by Raman spectroscopy. Carbon, 2015, 95, 646-652.	5.4	184
1263	Reduction of graphene oxide by 100 MeV Au ion irradiation and its application as H ₂ O ₂ sensor. Journal Physics D: Applied Physics, 2015, 48, 365105.	1.3	43
1264	Scanning probe microscopy study of chemical vapor deposition grown graphene transferred to Au(111). Carbon, 2015, 95, 318-322.	5.4	10
1265	Swift Heavy Ion Induced Optical and Electronic Modifications of Graphene/TiO ₂ Nanocomposites. Journal of Physical Chemistry C, 2015, 119, 21270-21277.	1.5	22
1266	Dynamical conductivity of gated AA-stacking multilayer graphene with spin-orbital coupling. RSC Advances, 2015, 5, 32511-32519.	1.7	0
1267	Graphene oxide chemically decorated with Ag/Ru/chitosan nanoparticles: fabrication, electrode processing and immunosensing properties. RSC Advances, 2015, 5, 75015-75024.	1.7	37
1268	Graphene/elastomer nanocomposites. Carbon, 2015, 95, 460-484.	5.4	308
1269	Enhanced photoelectrochemical properties of graphene nanowalls/CdS composite materials. Journal of Alloys and Compounds, 2015, 651, 230-236.	2.8	14
1270	Pulse-Width Saturation and Kelly-Sideband Shift in a Graphene-Nanosheet Mode-Locked Fiber Laser with Weak Negative Dispersion. Physical Review Applied, 2015, 3, .	1.5	14
1271	Vertical heterostructures of MoS ₂ and graphene nanoribbons grown by two-step chemical vapor deposition for high-gain photodetectors. Physical Chemistry Chemical Physics, 2015, 17, 25210-25215.	1.3	25
1272	Growth of Large-Area Graphene Single Crystals in Confined Reaction Space with Diffusion-Driven Chemical Vapor Deposition. Chemistry of Materials, 2015, 27, 6249-6258.	3.2	72
1273	<i>In Situ</i> Transport Measurements and Band Gap Formation of Fluorinated Graphene. Journal of Physical Chemistry C, 2015, 119, 20150-20155.	1.5	17

#	ARTICLE	IF	CITATIONS
1274	Ultrafast sol-gel synthesis of graphene aerogel materials. <i>Carbon</i> , 2015, 95, 616-624.	5.4	76
1275	Temperature dependent phonon frequency shift and structural stability of free-standing graphene: a spectral energy density analysis. <i>2D Materials</i> , 2015, 2, 035014.	2.0	23
1276	Oligothiophene/graphene supramolecular ensembles managing light induced processes: preparation, characterization, and femtosecond transient absorption studies leading to charge-separation. <i>Nanoscale</i> , 2015, 7, 15840-15851.	2.8	11
1277	A Review on Graphene Evidenced by Raman Spectroscopy. <i>Advanced Materials Research</i> , 0, 1109, 509-513.	0.3	4
1278	Graphite mediated reduction of graphene oxide monolayer sheets. <i>Carbon</i> , 2015, 95, 843-851.	5.4	16
1279	Synthesis and Exploration of Graphene Bubbles for Supercapacitor Electrodes. <i>Electrochimica Acta</i> , 2015, 180, 53-63.	2.6	11
1280	High-Performance Sensors Based on Resistance Fluctuations of Single-Layer-Graphene Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19825-19830.	4.0	20
1281	Corrosion resistant three-dimensional nanotextured silicon for water photo-oxidation. <i>Nanoscale</i> , 2015, 7, 16755-16762.	2.8	12
1282	Achieving large transport bandgaps in bilayer graphene. <i>Nano Research</i> , 2015, 8, 3228-3236.	5.8	11
1283	Compressive strength sensitivity of cement mortar using rice husk-derived graphene with a high specific surface area. <i>Construction and Building Materials</i> , 2015, 96, 189-197.	3.2	67
1284	Porous Carbon Spheres Doped with Fe ₃ C as an Anode for High-Rate Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2015, 180, 78-85.	2.6	45
1285	The facile fabrication of few-layer graphene and graphite nanosheets by high pressure homogenization. <i>Chemical Communications</i> , 2015, 51, 15811-15814.	2.2	32
1286	Gain and Raman line-broadening with graphene coated diamond-shape nano-antennas. <i>Nanoscale</i> , 2015, 7, 15321-15331.	2.8	4
1287	Correlation between the residual stress in 3C-SiC/Si epilayer and the quality of epitaxial graphene formed thereon. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 79, 012004.	0.3	4
1288	Effective Reduction of Copper Surface for Clean Graphene Growth. <i>Journal of the Electrochemical Society</i> , 2015, 162, E277-E281.	1.3	11
1289	Raman Spectra and Strain Uniformity of Epitaxial Graphene Grown on SiC(0001). <i>Materials Science Forum</i> , 2015, 821-823, 957-960.	0.3	0
1290	CVD synthesis of nitrogen-doped graphene using urea. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015, 58, 1.	2.0	19
1291	Optimisation of copper catalyst by the addition of chromium for the chemical vapour deposition growth of monolayer graphene. <i>Carbon</i> , 2015, 95, 789-793.	5.4	1

#	ARTICLE	IF	CITATIONS
1292	Few- and multi-layer graphene on carbon fibers: synthesis and application. RSC Advances, 2015, 5, 81266-81274.	1.7	19
1293	The effects of growth time on the quality of graphene synthesized by LPCVD. Bulletin of Materials Science, 2015, 38, 707-710.	0.8	9
1294	Fast Production of High-Quality Graphene via Sequential Liquid Exfoliation. ACS Applied Materials & Interfaces, 2015, 7, 27027-27030.	4.0	29
1295	3-D conformal graphene for stretchable and bendable transparent conductive film. Journal of Materials Chemistry C, 2015, 3, 12379-12384.	2.7	14
1296	Mechanical tearing of graphene on an oxidizing metal surface. Nanotechnology, 2015, 26, 495701.	1.3	17
1297	Electromagnetic Enhancement of Graphene Raman Spectroscopy by Ordered and Size-Tunable Au Nanostructures. Nanoscale Research Letters, 2015, 10, 390.	3.1	7
1298	Graphene-intercalated Fe ₂ O ₃ /TiO ₂ heterojunctions for efficient photoelectrolysis of water. RSC Advances, 2015, 5, 101401-101407.	1.7	9
1299	Functionalization of graphene at the organic/water interface. Chemical Science, 2015, 6, 1316-1323.	3.7	60
1300	Tunable absorption in graphene-based hyperbolic metamaterials for mid-infrared range. Physica B: Condensed Matter, 2015, 457, 144-148.	1.3	26
1301	Graphitic carbon/n-CdTe Schottky-type heterojunction solar cells prepared by electron-beam evaporation. Solar Energy, 2015, 112, 78-84.	2.9	24
1302	Application of multivariate curve resolution alternating least squares method for determination of caffeic acid in the presence of catechin interference. Analytical Biochemistry, 2015, 473, 80-88.	1.1	16
1303	Do CVD grown graphene films have antibacterial activity on metallic substrates?. Carbon, 2015, 84, 310-316.	5.4	51
1304	In Situ Thermal Reduction of Graphene Nanosheets Based Poly(methyl methacrylate) Nanocomposites with Effective Reinforcements. Industrial & Engineering Chemistry Research, 2015, 54, 649-658.	1.8	40
1305	Nitrogen-functionalized microporous carbon nanoparticles for high performance supercapacitor electrode. Electrochimica Acta, 2015, 153, 448-455.	2.6	177
1306	Carbon nanotube arrays decorated with multi-layer graphene-nanopetals enhance mechanical strength and durability. Carbon, 2015, 84, 236-245.	5.4	27
1307	Comparative Study of Raman Spectroscopy in Graphene and MoS ₂ -type Transition Metal Dichalcogenides. Accounts of Chemical Research, 2015, 48, 41-47.	7.6	143
1308	Enhancement of weak localization for nitrogen-doped graphene by short range potentials. Carbon, 2015, 82, 346-352.	5.4	9
1309	Structure of a new rotationally faulted multi-layer graphene "carbon nanoflower composite. Carbon, 2015, 84, 214-224.	5.4	7

#	ARTICLE	IF	CITATIONS
1310	Cobalt phthalocyanine tetracarboxylic acid modified reduced graphene oxide: a sensitive matrix for the electrocatalytic detection of peroxydinitrite and hydrogen peroxide. <i>RSC Advances</i> , 2015, 5, 1474-1484.	1.7	70
1311	High N-content holey few-layered graphene electrocatalysts: scalable solvent-less production. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1682-1687.	5.2	39
1312	Facile one-pot synthesis of Pd@PEDOT/graphene nanocomposites with hierarchical structure and high electrocatalytic performance for ethanol oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1077-1088.	5.2	97
1313	A coarse-grained model for the mechanical behavior of multi-layer graphene. <i>Carbon</i> , 2015, 82, 103-115.	5.4	150
1314	Characterisation of reduced graphene oxide: Effects of reduction variables on electrical conductivity. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 193, 49-60.	1.7	274
1315	Graphene oxide: from fundamentals to applications. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 013002.	0.7	113
1316	Direct growth of graphene nanopatches on graphene sheets for highly conductive thin film applications. <i>Journal of Materials Chemistry C</i> , 2015, 3, 725-728.	2.7	7
1317	Flexible transparent graphene/polymer multilayers for efficient electromagnetic field absorption. <i>Scientific Reports</i> , 2014, 4, 7191.	1.6	131
1318	Graphene Oxide: Physics and Applications. <i>SpringerBriefs in Physics</i> , 2015, , .	0.2	70
1319	Large-area bilayer graphene synthesis in the hot filament chemical vapor deposition reactor. <i>Diamond and Related Materials</i> , 2015, 51, 34-38.	1.8	23
1320	Preparation and characterization of poly(vinyl alcohol)/graphene nanofibers synthesized by electrospinning. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 77, 139-145.	1.9	62
1321	Novel eco-friendly synthesis of graphene directly from graphite using 2,2,6,6-tetramethylpiperidine 1-oxyl and study of its electrochemical properties. <i>Journal of Power Sources</i> , 2015, 275, 90-98.	4.0	44
1322	High-mobility ambipolar ZnO-graphene hybrid thin film transistors. <i>Scientific Reports</i> , 2014, 4, 4064.	1.6	44
1323	Co ₂ SnO ₄ nanocrystals anchored on graphene sheets as high-performance electrodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 151, 203-213.	2.6	53
1324	Deep-ultraviolet Raman scattering studies of monolayer graphene thin films. <i>Carbon</i> , 2015, 81, 807-813.	5.4	28
1325	Metal-catalyzed etching of graphene governed by metal-carbon interactions: A comparison of Fe and Cu. <i>Carbon</i> , 2015, 81, 678-687.	5.4	21
1326	Electroactive carbon nanoforms: a comparative study via sequential arylation and click chemistry reactions. <i>Nanoscale</i> , 2015, 7, 1193-1200.	2.8	26
1327	Electrical field tuning of magneto-Raman scattering in monolayer graphene. <i>Nano Research</i> , 2015, 8, 1139-1147.	5.8	8

#	ARTICLE	IF	CITATIONS
1328	On the oxidation degree of few-layer graphene oxide sheets obtained from chemically oxidized multiwall carbon nanotubes. Carbon, 2015, 81, 405-417.	5.4	56
1329	Self-assembled porous MoO ₂ /graphene microspheres towards high performance anodes for lithium ion batteries. Journal of Power Sources, 2015, 275, 351-361.	4.0	133
1330	Quantitative evaluation of delamination of graphite by wet media milling. Carbon, 2015, 81, 284-294. Challenges to graphene growth on SiC(0 0 0) Tj FTQq1 1 0.784314 rgBT /Overlock 10 Tf 50 642 Td (xmlns:mml="http://www	5.4	71
1331	hydrogen etching and growth ambient. Carbon, 2015, 81, 73-82.	5.4	13
1332	Au doping effect on chemically-exfoliated graphene and graphene grown via chemical vapor deposition. Carbon, 2015, 82, 96-102.	5.4	21
1333	Fe ₂ O ₃ nanoparticles anchored in situ on carbon nanotubes via an ethanol-thermal strategy for the selective catalytic reduction of NO with NH ₃ . Catalysis Science and Technology, 2015, 5, 438-446.	2.1	71
1334	Graphene Nanoribbons Under Mechanical Strain. Advanced Materials, 2015, 27, 303-309.	11.1	36
1335	Preparation of pyrolytic carbon coating on graphite for inhibiting liquid fluoride salt and Xe ¹³⁵ penetration for molten salt breeder reactor. Journal of Nuclear Materials, 2015, 456, 33-40.	1.3	19
1336	Bacteriorhodopsin as a superior substitute for hydrazine in chemical reduction of single-layer graphene oxide sheets. Carbon, 2015, 81, 158-166.	5.4	283
1337	Characterization of iridium dioxide-carbon nanotube nanocomposites grown onto graphene for supercapacitor. Journal of Alloys and Compounds, 2015, 619, 131-137.	2.8	26
1338	Flexible Supercapacitors using Liquid Phase Exfoliated Graphene with Enhanced Specific Capacitance. International Journal of Electrochemical Science, 2016, , 6336-6346.	0.5	11
1339	Optimization of the Synthesis Procedures of Graphene and Graphite Oxide. , 2016, , .		3
1340	Defect Engineered 2D Materials for Energy Applications. , 2016, , .		1
1341	Core/Shell Structure of Ni/NiO Encapsulated in Carbon Nanosphere Coated with Few- and Multi-Layered Graphene: Synthesis, Mechanism and Application. Polymers, 2016, 8, 381.	2.0	9
1342	Growth and Characterization of Graphene on Polycrystalline SiC Substrate Using Heating by CO ₂ Laser Beam. Materials Research, 2016, 19, 1329-1334.	0.6	12
1343	Graphene Synthesis by Plasma-Enhanced CVD Growth with Ethanol. American Journal of Engineering and Applied Sciences, 2016, 9, 574-583.	0.3	2
1345	Recent Advances in Graphene-Assisted Nonlinear Optical Signal Processing. Journal of Nanotechnology, 2016, 2016, 1-18.	1.5	10
1346	Thickness Dependent Interlayer Magnetoresistance in Multilayer Graphene Stacks. Journal of Nanomaterials, 2016, 2016, 1-10.	1.5	4

#	ARTICLE	IF	CITATIONS
1347	Determining the Parameters of Importance of a Graphene Synthesis Process Using Design-of-Experiments Method. Applied Sciences (Switzerland), 2016, 6, 204.	1.3	11
1348	Epitaxial Graphene on SiC: A Review of Growth and Characterization. Crystals, 2016, 6, 53.	1.0	169
1349	Effect of Interface Modified by Graphene on the Mechanical and Frictional Properties of Carbon/Graphene/Carbon Composites. Materials, 2016, 9, 492.	1.3	21
1350	Raman and Conductivity Analysis of Graphene for Biomedical Applications. Materials, 2016, 9, 897.	1.3	8
1351	Low temperature direct growth of graphene patterns on flexible glass substrates catalysed by a sacrificial ultrathin Ni film. Optical Materials Express, 2016, 6, 2487.	1.6	30
1352	Evaluation of the toxicity of graphene oxide exposure to the eye. Nanotoxicology, 2016, 10, 1329-1340.	1.6	62
1353	Detachment of CVD-grown graphene from single crystalline Ni films by a pure gas phase reaction. Surface Science, 2016, 653, 143-152.	0.8	13
1354	Mechanochemical Exfoliation of 2D Crystals in Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2016, 4, 4465-4472.	3.2	52
1355	Single-step scalable synthesis of three-dimensional highly porous graphene with favorable methane adsorption. Chemical Engineering Journal, 2016, 304, 784-792.	6.6	50
1356	Influence of Gas Mixture and Temperature on AP-CVD Synthesis of Graphene on Copper Foil. Advanced Materials Interfaces, 2016, 3, 1500823.	1.9	23
1357	Remarkable Improvement in the Mechanical Properties and CO ₂ Uptake of MOFs Brought About by Covalent Linking to Graphene. Angewandte Chemie, 2016, 128, 7988-7992.	1.6	7
1358	Phonon dynamics of graphene on metals. Journal of Physics Condensed Matter, 2016, 28, 103005.	0.7	56
1359	An Effective Approach for the Identification of Carrier Type and Local Inversion Doping in Graphene by Biased Atomic Force Microscopy. Advanced Electronic Materials, 2016, 2, 1500255.	2.6	7
1360	CdS nanowire-modified 3D graphene foam for high-performance photo-electrochemical anode. Journal of Alloys and Compounds, 2016, 688, 37-43.	2.8	8
1361	Incorporation of graphene into silica-based aerogels and application for water remediation. RSC Advances, 2016, 6, 66516-66523.	1.7	30
1362	Highly cytocompatible and flexible three-dimensional graphene/polydimethylsiloxane composite for culture and electrochemical detection of L929 fibroblast cells. Journal of Biomaterials Applications, 2016, 31, 230-240.	1.2	8
1363	2D Raman band of single-layer and bilayer graphene. Journal of Physics: Conference Series, 2016, 682, 012013.	0.3	10
1364	Investigation of graphene layers on electrodeposited polycrystalline metals. Surface and Interface Analysis, 2016, 48, 456-460.	0.8	7

#	ARTICLE	IF	CITATIONS
1365	Conductive Screen Printing Inks by Gelation of Graphene Dispersions. <i>Advanced Functional Materials</i> , 2016, 26, 586-593.	7.8	139
1366	Spectroscopic investigation of nitrogen-functionalized carbon materials. <i>Surface and Interface Analysis</i> , 2016, 48, 283-292.	0.8	16
1367	Raman Studies of Carbon Nanostructures. <i>Annual Review of Materials Research</i> , 2016, 46, 357-382.	4.3	112
1368	Direct growth of densely aligned ZnO nanorods on graphene. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 080301.	0.8	4
1369	Remarkable Improvement in the Mechanical Properties and CO ₂ Uptake of MOFs Brought About by Covalent Linking to Graphene. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7857-7861.	7.2	71
1370	Three-Dimensional Graphene: A Biocompatible and Biodegradable Scaffold with Enhanced Oxygenation. <i>Advanced Healthcare Materials</i> , 2016, 5, 1177-1191.	3.9	31
1371	Study of the preparation and spectral response of stacked graphene nanoribbon-carbon nanotube-based phototransistors. <i>Carbon</i> , 2016, 107, 754-764.	5.4	8
1372	Effect of different nano-carbon reinforcements on microstructure and properties of TiO ₂ composites prepared by spark plasma sintering. <i>Ceramics International</i> , 2016, 42, 14266-14277.	2.3	11
1373	Stability studies of polypyrrole-derived carbon based symmetric supercapacitor via potentiostatic floating test. <i>Electrochimica Acta</i> , 2016, 213, 107-114.	2.6	56
1374	The unique Raman fingerprint of boron nitride substitution patterns in graphene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20270-20275.	1.3	9
1375	Toward graphene chloride: chlorination of graphene and graphene oxide. <i>RSC Advances</i> , 2016, 6, 66884-66892.	1.7	56
1376	Catalytic reduction of CO ₂ to alcohol with Cu ₂ Se-combined graphene binary nanocomposites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 555-563.	1.0	10
1377	Study on the optical and electrical properties of tetracyanoethylene doped bilayer graphene stack for transparent conducting electrodes. <i>AIP Advances</i> , 2016, 6, 035319.	0.6	11
1378	Multifunctional non-woven fabrics of interfused graphene fibres. <i>Nature Communications</i> , 2016, 7, 13684.	5.8	193
1379	UV Raman spectroscopy of segregated carbon in silicon oxycarbides. <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 1042-1045.	0.5	26
1380	The effect of activated carbon support surface modification on characteristics of carbon nanospheres prepared by deposition precipitation of Fe-catalyst. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 162, 012034.	0.3	18
1381	Lightweight graphene nanoplatelet/boron carbide composite with high EMI shielding effectiveness. <i>AIP Advances</i> , 2016, 6, .	0.6	20
1382	Low insertion loss of 200-µm-long graphite coplanar waveguide. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	5

#	ARTICLE	IF	CITATIONS
1383	Tip-enhanced Raman spectroscopy of nanostructures on epitaxial graphene and graphene microisland. , 2016, , .		0
1384	Modification of electronic band structure in mLâ€™+â€™nL (mâ€™=â€™1, 2; nâ€™=â€™1â€™5) free-stacking graphene, Applied Physics Letters, 2016, 109, 153111.	1.5	1
1385	Two-phonon Raman scattering in graphene for laser excitation beyond the Î€-plasmon energy. Journal of Physics: Conference Series, 2016, 764, 012008.	0.3	0
1386	High temperature MBE of graphene on sapphire and hexagonal boron nitride flakes on sapphire. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	0.6	22
1387	Time-dependent evolution of the nitrogen configurations in N-doped graphene films. RSC Advances, 2016, 6, 106914-106920.	1.7	119
1388	A dilute Cu(Ni) alloy for synthesis of large-area Bernal stacked bilayer graphene using atmospheric pressure chemical vapour deposition. Journal of Applied Physics, 2016, 119, .	1.1	8
1389	Engineering a PVD based graphene synthesis method. , 2016, , .		0
1390	Influence of the SiC content and sintering temperature on the microstructure, mechanical properties and friction behaviour of sintered self-lubricating composites. Powder Metallurgy, 2016, 59, 384-393.	0.9	25
1391	Tip-Enhanced Raman Scattering of Local Nanostructure on Large Sheet and Microisland Epitaxial Graphene Grown on 4Hâ€™SiC (0001). ACS Symposium Series, 2016, , 227-245.	0.5	0
1392	Enhanced sensitivity of graphene ammonia gas sensors using molecular doping. Applied Physics Letters, 2016, 108, .	1.5	68
1393	A simple method to tune graphene growth between monolayer and bilayer. AIP Advances, 2016, 6, .	0.6	13
1394	Photo-controllable memristive behavior of graphene/diamond heterojunctions. Applied Physics Letters, 2016, 108, 222102.	1.5	14
1395	Terahertz and mid-infrared reflectance of epitaxial graphene. Scientific Reports, 2016, 6, 24301.	1.6	23
1396	Single layer graphene Raman bands modifications as result of transfer from copper foil to oxidized silicon or quartz substrates. , 2016, , .		2
1397	Synthesis of graphene by cobalt-catalyzed decomposition of methane in plasma-enhanced CVD: Optimization of experimental parameters with Taguchi method. Journal of Applied Physics, 2016, 120, .	1.1	27
1398	Wafer scale integration of reduced graphene oxide by novel laser processing at room temperature in air. Journal of Applied Physics, 2016, 120, .	1.1	21
1399	Graphene grown out of diamond. Applied Physics Letters, 2016, 109, 162105.	1.5	16
1400	Charge density wave phase transition on the surface of electrostatically doped multilayer graphene. Applied Physics Letters, 2016, 109, .	1.5	4

#	ARTICLE	IF	CITATIONS
1401	Single layer graphene band hybridization with silver nanoplates: Interplay between doping and plasmonic enhancement. <i>Applied Physics Letters</i> , 2016, 109, 103103.	1.5	5
1402	â€Eau de grapheneâ€€from a KC ₈ graphite intercalation compound prepared by a simple mixing of graphite and molten potassium. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 895-899.	1.2	17
1403	Patterning of graphene for flexible electronics with remote atmospheric-pressure plasma using dielectric barrier. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 085102.	0.8	2
1405	Estimation the uniformity of a polygraphene coating on copper (GCC)., 2016, , .		0
1406	Monitoring and analyses of substrate surface in first stages of graphene growth in plasma-enhanced chemical vapor deposition. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 06HC04.	0.8	3
1407	Review of Graphene as a Solid State Diffusion Barrier. <i>Small</i> , 2016, 12, 120-134.	5.2	38
1408	A time efficient reduction strategy for bulk production of reduced graphene oxide using selenium powder as a reducing agent. <i>Journal of Materials Science</i> , 2016, 51, 6156-6165.	1.7	25
1409	PEDOT:PSS wrapped NiFe ₂ O ₄ /rGO tertiary nanocomposite for the super-capacitor applications. <i>Electrochimica Acta</i> , 2016, 201, 106-116.	2.6	54
1410	Preliminary investigation on the thermal conversion of automotive shredder residue into value-added products: Graphitic carbon and nano-ceramics. <i>Waste Management</i> , 2016, 50, 173-183.	3.7	34
1411	Spectroscopic tracking of mechanochemical reactivity and modification of a hydrothermal char. <i>RSC Advances</i> , 2016, 6, 12021-12031.	1.7	18
1412	Graphene oxide nanosheets-catalyzed synthesis of novel benzylbarbiturocoumarin derivatives under green conditions. <i>Monatshefte für Chemie</i> , 2016, 147, 2119-2126.	0.9	11
1413	Graphene-based nanomaterials for bioimaging. <i>Advanced Drug Delivery Reviews</i> , 2016, 105, 242-254.	6.6	281
1414	Covalently grafted TEMPO on graphene oxide: A composite material for selective oxidations of alcohols. <i>Carbon</i> , 2016, 105, 607-614.	5.4	42
1415	Preparation and property of UV-curable polyurethane acrylate film filled with cationic surfactant treated graphene. <i>Applied Surface Science</i> , 2016, 379, 433-439.	3.1	24
1416	Graphene/Na carboxymethyl cellulose composite for Li-ion batteries prepared by enhanced liquid exfoliation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 213, 41-50.	1.7	10
1417	Fast growth of graphene on SiO ₂ /Si substrates by atmospheric pressure chemical vapor deposition with floating metal catalysts. <i>Science China Chemistry</i> , 2016, 59, 707-712.	4.2	12
1418	Detailed investigation on the mechanism of co-deposition of different carbon nanostructures by microwave plasma CVD. <i>Carbon</i> , 2016, 106, 233-242.	5.4	30
1419	Graphene/nanoporous-silica heterostructure based hydrophobic antireflective coating. <i>Materials Today Communications</i> , 2016, 8, 41-45.	0.9	4

#	ARTICLE	IF	CITATIONS
1420	Understanding the Interplay between Molecule Orientation and Graphene Using Polarized Raman Spectroscopy. ACS Photonics, 2016, 3, 985-991.	3.2	12
1421	Friction Behaviour of Multilayered Graphene against Steel. Materials Research Society Symposia Proceedings, 2016, 1812, 1-8.	0.1	4
1422	Manipulating fluorescence quenching efficiency of graphene by defect engineering. Applied Physics Express, 2016, 9, 055502.	1.1	14
1423	Domain size engineering of CVD graphene and its influence on physical properties. Journal Physics D: Applied Physics, 2016, 49, 205504.	1.3	6
1424	Polarization-independent terahertz wave modulator based on graphene-silicon hybrid structure. Chinese Physics B, 2016, 25, 027301.	0.7	7
1425	Control of the nucleation and quality of graphene grown by low-pressure chemical vapor deposition with acetylene. Applied Surface Science, 2016, 366, 219-226.	3.1	22
1426	Performance of palladium nanoparticle-graphene composite as an efficient electrode material for electrochemical double layer capacitors. Electrochimica Acta, 2016, 196, 547-557.	2.6	28
1427	The role of hydrogen in oxygen-assisted chemical vapor deposition growth of millimeter-sized graphene single crystals. Nanoscale, 2016, 8, 7646-7653.	2.8	16
1428	Shear Assisted Electrochemical Exfoliation of Graphite to Graphene. Langmuir, 2016, 32, 3552-3559.	1.6	59
1429	Synthesis of single layer graphene on Cu(111) by C_{60} supersonic molecular beam epitaxy. RSC Advances, 2016, 6, 37982-37993.	1.7	31
1430	Synthesis of Pyrolytic Carbon Films on Dielectric Substrates. NATO Science for Peace and Security Series B: Physics and Biophysics, 2016, , 227-238.	0.2	1
1431	Semi-transparent, conductive thin films of electrochemical exfoliated graphene. RSC Advances, 2016, 6, 39275-39283.	1.7	29
1432	Synthesis of tunable core-shell nanostructures based on TiO ₂ -graphene architectures and their application in the photodegradation of rhodamine dyes. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 81, 326-333.	1.3	12
1433	A new strategy to prepare N-doped holey graphene for high-volumetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 9739-9743.	5.2	96
1434	Temperature dependence of Raman spectra of graphene on copper foil substrate. Journal of Materials Science: Materials in Electronics, 2016, 27, 3888-3893.	1.1	24
1435	Enhancing the photovoltaic performance of dye-sensitized solar cells by modifying TiO ₂ photoanodes with exfoliated graphene sheets. RSC Advances, 2016, 6, 41092-41102.	1.7	10
1436	Graphene electrodes for stimulation of neuronal cells. 2D Materials, 2016, 3, 024004.	2.0	39
1437	Horizontally-connected ZnO-graphene hybrid films for multifunctional devices. Applied Surface Science, 2016, 379, 238-241.	3.1	11

#	ARTICLE	IF	CITATIONS
1438	Structural and electronic characterization of graphene grown by chemical vapor deposition and transferred onto sapphire. <i>Applied Surface Science</i> , 2016, 378, 397-401.	3.1	6
1439	Influence of Polymer Residues on the Double Resonance Process of Bilayer Graphene. <i>Materials Science Forum</i> , 0, 852, 417-421.	0.3	0
1440	Surface enhanced Raman spectroscopy platform based on graphene with one-year stability. <i>Thin Solid Films</i> , 2016, 604, 74-80.	0.8	17
1441	Deterioration of the Strong sp^2 Carbon Network in Carbon Nanotubes during the Mechanical Dispersion Processing—A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2016, 41, 347-366.	6.8	42
1442	Cu Nanoparticles Inlaid Mesoporous Carbon Aerogels as a High Performance Desulfurizer. <i>Environmental Science & Technology</i> , 2016, 50, 5370-5378.	4.6	27
1443	Use of compositional and combinatorial nanomaterial libraries for biological studies. <i>Science Bulletin</i> , 2016, 61, 755-771.	4.3	12
1444	The role of SiC as a diffusion barrier in the formation of graphene on Si(111). <i>Diamond and Related Materials</i> , 2016, 66, 141-148.	1.8	5
1445	Challenge beyond Graphene: Metal Oxide/Graphene/Metal Oxide Electrodes for Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12932-12939.	4.0	16
1446	Growth of carbonaceous nanomaterials over stainless steel foams. Effect of activation temperature. <i>Catalysis Today</i> , 2016, 273, 41-49.	2.2	9
1447	Enhanced CO oxidation reaction over Pt nanoparticles covered with ultrathin graphitic layers. <i>Carbon</i> , 2016, 101, 324-330.	5.4	21
1448	Growth of graphene on Cu foils by microwave plasma chemical vapor deposition: The effect of in-situ hydrogen plasma post-treatment. <i>Applied Surface Science</i> , 2016, 383, 28-32.	3.1	33
1449	A Knittable Fibriform Supercapacitor Based on Natural Cotton Thread Coated with Graphene and Carbon Nanoparticles. <i>Electrochimica Acta</i> , 2016, 206, 155-164.	2.6	48
1450	A wafer-scale Bernal-stacked bilayer graphene film obtained on a dilute Cu (0.61 at% Ni) foil using atmospheric pressure chemical vapour deposition. <i>RSC Advances</i> , 2016, 6, 28370-28378.	1.7	7
1451	Preparation and corrosion mechanism of graphene-reinforced chemically bonded phosphate ceramics. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 30-37.	1.1	25
1452	Large-area high-quality graphene on Ge(001)/Si(001) substrates. <i>Nanoscale</i> , 2016, 8, 11241-11247.	2.8	48
1453	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. <i>2D Materials</i> , 2016, 3, 021009.	2.0	21
1454	Addressing Raman features of individual layers in isotopically labeled Bernal stacked bilayer graphene. <i>2D Materials</i> , 2016, 3, 025022.	2.0	8
1455	Supercapacitor Electrodes Made of Exhausted Activated Carbon-Derived SiC Nanoparticles Coated by Graphene. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6025-6035.	1.8	26

#	ARTICLE	IF	CITATIONS
1456	Rapid thermal annealing of nickel-carbon nanowires for graphene nanoribbons formation. <i>Synthetic Metals</i> , 2016, 218, 43-49.	2.1	15
1457	Green synthesis of graphene-silver nanocomposites and its application as a potent marine antifouling agent. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 392-401.	2.5	38
1458	Progress on the graphene-involved catalytic hydrogenation reactions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 67, 126-139.	2.7	11
1459	Structure evolution and microwave absorption properties of nickel nanoparticles incorporated carbon spheres. <i>Materials Research Bulletin</i> , 2016, 84, 445-448.	2.7	36
1460	Large-Scale Graphene on Hexagonal-BN Hall Elements: Prediction of Sensor Performance without Magnetic Field. <i>ACS Nano</i> , 2016, 10, 8803-8811.	7.3	20
1461	Durable potassium ion battery electrodes from high-rate cointercalation into graphitic carbons. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14954-14959.	5.2	158
1462	Electrically conductive cement mortar: Incorporating rice husk-derived high-surface-area graphene. <i>Construction and Building Materials</i> , 2016, 125, 632-642.	3.2	52
1463	High electrochemical performance of hybrid cobalt oxyhydroxide/nickel foam graphene. <i>Journal of Colloid and Interface Science</i> , 2016, 484, 77-85.	5.0	25
1464	Graphene Quantum Dots. , 2016, , 29-65.		0
1465	Graphene Quantum Dots. , 2016, , 45-82.		1
1466	Low-temperature controllable preparation of vertically standing graphene sheets on indium tin oxide glass and their field emission properties. <i>Chemical Physics Letters</i> , 2016, 664, 29-32.	1.2	5
1467	DNA self-assembly on graphene surface studied by SERS mapping. <i>Carbon</i> , 2016, 109, 363-372.	5.4	24
1468	Friction reduction mechanisms in multilayer graphene sliding against hydrogenated diamond-like carbon. <i>Carbon</i> , 2016, 109, 795-804.	5.4	60
1469	Nanostructured hybrid materials based on reduced graphene oxide for solar energy conversion. , 2016, , .		3
1470	Tuning of Structural and Optical Properties of Graphene/ZnO Nanolaminates. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23716-23725.	1.5	75
1471	Targeted Raman Imaging of Cells Using Graphene Oxide-Based Hybrids. <i>Langmuir</i> , 2016, 32, 10253-10258.	1.6	15
1472	Stranskiâ€œKrastanov and Volmerâ€œWeber CVD Growth Regimes To Control the Stacking Order in Bilayer Graphene. <i>Nano Letters</i> , 2016, 16, 6403-6410.	4.5	95
1474	Smart graphene dispersion stabilized by a CO ₂ -removable polymer. <i>RSC Advances</i> , 2016, 6, 79943-79951.	1.7	4

#	ARTICLE	IF	CITATIONS
1475	High-Energy-Synthesized Carbon-Related Nanomaterials. , 2016, , 159-186.		0
1476	Investigating change of properties in gallium ion irradiation patterned single-layer graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 3514-3519.	0.9	3
1477	Anomalous restoration of graphitic layers from graphene oxide in ethanol environment at ultrahigh temperature using solar furnace. Applied Physics Express, 2016, 9, 025103.	1.1	14
1478	Facile single pot synthesis of MnO ₂ nanorods-reduced graphene oxide (rGO) nanocomposite: Structural, chemical and field emission investigations. Materials Letters, 2016, 185, 472-475.	1.3	17
1479	Synthesis and cyto-genotoxicity evaluation of graphene on mice spermatogonial stem cells. Colloids and Surfaces B: Biointerfaces, 2016, 146, 770-776.	2.5	50
1480	Effect of solvent/polymer infiltration and irradiation on microstructure and tensile properties of carbon nanotube yarns. Journal of Materials Science, 2016, 51, 10215-10228.	1.7	11
1481	Graphene Jet Nanomotors in Remote Controllable Self-Propulsion Swimmers in Pure Water. Nano Letters, 2016, 16, 5619-5630.	4.5	60
1482	Mechanical Stability of Flexible Graphene-Based Displays. ACS Applied Materials & Interfaces, 2016, 8, 22605-22614.	4.0	56
1483	Bio-green synthesis of Ag@GO, Au@GO and Ag@Au@GO nanocomposites using <i>Azadirachta indica</i> : its application in SERS and cell viability. Materials Research Express, 2016, 3, 075010.	0.8	38
1484	A stably enhanced transparent conductive graphene film obtained using an air-annealing method. Materials Research Express, 2016, 3, 085003.	0.8	1
1485	Atomic resolution of nitrogen-doped graphene on Cu foils. Nanotechnology, 2016, 27, 365702.	1.3	8
1486	Graphene-Coated ZnO and SiO ₂ as Supports for CoO Nanoparticles with Enhanced Reducibility. ChemPhysChem, 2016, 17, 3055-3061.	1.0	6
1487	Effect of thermal annealing on the heat transfer properties of reduced graphite oxide flakes: A nanoscale characterization via scanning thermal microscopy. Carbon, 2016, 109, 390-401.	5.4	46
1488	Physical and chemical mechanisms affecting electrical conductivity in reduced graphene oxide films. Thin Solid Films, 2016, 616, 172-182.	0.8	38
1489	Non-oxidative, controlled exfoliation of graphite in aqueous medium. Nanoscale, 2016, 8, 15702-15711.	2.8	8
1490	Recent Advances in Laser Utilization in the Chemical Modification of Graphene Oxide and Its Applications. Advanced Optical Materials, 2016, 4, 37-65.	3.6	140
1491	Modulation of Electrochemical Properties of Graphene Oxide by Photochemical Reduction Using UV-Light Emitting Diodes. ChemistrySelect, 2016, 1, 1168-1175.	0.7	13
1492	Comparison of the properties of graphene- and graphene oxide-based polyethylene nanocomposites prepared by an in situ polymerization method. RSC Advances, 2016, 6, 73013-73019.	1.7	15

#	ARTICLE	IF	CITATIONS
1493	Progress and Challenges in Transfer of Large-Area Graphene Films. <i>Advanced Science</i> , 2016, 3, 1500343.	5.6	271
1494	Quasi-noble-metal graphene quantum dots deposited stannic oxide with oxygen vacancies: Synthesis and enhanced photocatalytic properties. <i>Journal of Colloid and Interface Science</i> , 2016, 481, 13-19.	5.0	47
1495	Relationship between heating atmosphere and copper foil impurities during graphene growth via low pressure chemical vapor deposition. <i>Carbon</i> , 2016, 109, 529-541.	5.4	16
1496	Size dependent magnetic and optical properties in diamond shaped graphene quantum dots: A DFT study. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 99, 34-42.	1.9	46
1497	Uniaxial Drawing of Graphene-PVA Nanocomposites: Improvement in Mechanical Characteristics via Strain-Induced Exfoliation of Graphene. <i>Nanoscale Research Letters</i> , 2016, 11, 377.	3.1	32
1498	Nebulized spray pyrolysis: a new method for synthesis of graphene film and their characteristics. <i>Surface and Coatings Technology</i> , 2016, 307, 65-72.	2.2	20
1499	Chemical Vapor Deposited Graphene-Based Derivative As High-Performance Hole Transport Material for Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23844-23853.	4.0	29
1500	Mechanism of potassium ion intercalation staging in few layered graphene from in situ Raman spectroscopy. <i>Nanoscale</i> , 2016, 8, 16435-16439.	2.8	186
1501	Architecting Nitrogen Functionalities on Graphene Oxide Photocatalysts for Boosting Hydrogen Production in Water Decomposition Process. <i>Advanced Energy Materials</i> , 2016, 6, 1600719.	10.2	75
1502	A novel fabrication of graphene by chemical reaction with a green reductant. <i>Chemical Engineering Journal</i> , 2016, 306, 754-762.	6.6	52
1503	High Efficiency Epitaxial Graphene/Silicon Carbide Photocatalyst with Tunable Photocatalytic Activity and Bandgap Narrowing. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600413.	1.9	9
1504	Functionalization of Graphene and Applications. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016, , 1-29.	0.2	12
1505	Graphene-Based Fluorescence-Quenching-Related Fermi Level Elevation and Electron-Concentration Surge. <i>Nano Letters</i> , 2016, 16, 5737-5741.	4.5	48
1506	Sodium ion storage in reduced graphene oxide. <i>Electrochimica Acta</i> , 2016, 214, 319-325.	2.6	49
1507	The synthesis of large area graphene/carbon nanotubes as additive material and their enhanced specific capacitance. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 9624-9633.	1.1	4
1508	A novel preparation and properties of in-situ grown carbon nanotube reinforced carbon/carbon composites. <i>Vacuum</i> , 2016, 132, 95-105.	1.6	13
1509	Diels-Alder Reaction of Anthranilic Acids: A Versatile Route to Dense Monolayers on Flat Edge and Basal Plane Graphitic Carbon Substrates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23389-23395.	4.0	8
1510	Cancer Cell Hyperactivity and Membrane Dipolarity Monitoring via Raman Mapping of Interfaced Graphene: Toward Non-Invasive Cancer Diagnostics. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32717-32722.	4.0	32

#	ARTICLE	IF	CITATIONS
1511	Facile synthesis of diverse graphene nanomeshes based on simultaneous regulation of pore size and surface structure. <i>Scientific Reports</i> , 2016, 6, 32310.	1.6	23
1512	Synthesis of Different Layers of Graphene on Stainless Steel Using the CVD Method. <i>Nanoscale Research Letters</i> , 2016, 11, 506.	3.1	19
1513	Strain Relaxation of Graphene Layers by Cu Surface Roughening. <i>Nano Letters</i> , 2016, 16, 5993-5998.	4.5	59
1514	Nitrogen Functionalized Few Layer Graphene Derived from Metal-Organic Compound: A Catalyst for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2016, 216, 457-466.	2.6	13
1515	Spatial control of direct chemical vapor deposition of graphene on silicon dioxide by directional copper dewetting. <i>RSC Advances</i> , 2016, 6, 89380-89386.	1.7	3
1516	Free-Surfactant Synthesis of Graphene-Layered Carbon Composite and Its Utilization for Electrocatalysis. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 892-898.	2.0	9
1518	Towards wafer-size strictly monolayer graphene on copper via cyclic atmospheric chemical vapor deposition. <i>Carbon</i> , 2016, 110, 384-389.	5.4	9
1519	Direct synthesis of platinum group metal-free Fe-N-C catalyst for oxygen reduction reaction in alkaline media. <i>Electrochemistry Communications</i> , 2016, 72, 140-143.	2.3	60
1520	Microwave irradiation on carbon black: Studies on the transformation of particles into nano-balls, nano-sticks and nano-onion like structures. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 99, 173-181.	1.9	5
1521	Lattice vibrations and Raman scattering in two-dimensional layered materials beyond graphene. <i>Nano Research</i> , 2016, 9, 3559-3597.	5.8	93
1522	Sustainable Feasibility of the Environmental Pollutant Soot to Few-Layer Photoluminescent Graphene Nanosheets for Multifunctional Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6399-6408.	3.2	60
1523	Conductive SiC ceramics fabricated by spark plasma sintering. <i>Ceramics International</i> , 2016, 42, 17892-17896.	2.3	14
1524	Inkjet printing of electrochemically-exfoliated graphene nano-platelets. <i>Synthetic Metals</i> , 2016, 220, 318-322.	2.1	30
1525	Monitoring the doping of graphene on SiO ₂ /Si substrates during the thermal annealing process. <i>RSC Advances</i> , 2016, 6, 72859-72864.	1.7	24
1526	Asymmetric MoS ₂ /Graphene/Metal Sandwiches: Preparation, Characterization, and Application. <i>Advanced Materials</i> , 2016, 28, 8256-8264.	11.1	64
1527	Design and synthesis of N-doped graphene sheets loaded with Li ₄ Ti ₅ O ₁₂ nanocrystals as advanced anode material for Li-ion batteries. <i>Ceramics International</i> , 2016, 42, 16031-16039.	2.3	29
1528	Fluid dynamics: an emerging route for the scalable production of graphene in the last five years. <i>RSC Advances</i> , 2016, 6, 72525-72536.	1.7	39
1529	Fabrication and Applications of Biocompatible Graphene Oxide and Graphene. , 2016, , 143-150.		5

#	ARTICLE	IF	CITATIONS
1530	Synthesis of Reduced Graphene Oxide Obtained from Multiwalled Carbon Nanotubes and Its Electrocatalytic Properties. , 2016, , 223-244.		0
1531	Synergetic Effect in Raman Scattering of ZnO Nanoparticles in ZnO@CNT Fibers: A Way To Enhance the G and 2D Band. Journal of Physical Chemistry C, 2016, 120, 17670-17682.	1.5	16
1532	Proximity-Induced Spin Polarization of Graphene in Contact with Half-Metallic Manganite. ACS Nano, 2016, 10, 7532-7541.	7.3	44
1533	Probing the uniaxial strains in MoS_2 polarized Raman spectroscopy: A first-principles study. Physical Review B, 2016, 93, .		3
1534	Global k -space analysis of electron-phonon interaction in graphene and application to M -point spectroscopy. Physical Review B, 2016, 93, .	1.1	3
1535	Reliability of Raman measurements of thermal conductivity of single-layer graphene due to selective electron-phonon coupling: A first-principles study. Physical Review B, 2016, 93, .	1.1	101
1536	Physical properties of low-dimensional carbon nanostructures. Reviews of Modern Physics, 2016, 88, .	16.4	160
1537	Rapid, direct and non-destructive assessment of fossil organic matter via microRaman spectroscopy. Carbon, 2016, 108, 440-449.	5.4	118
1538	Atmospheric Pressure Chemical Vapor Deposition Growth of Millimeter-Scale Single-Crystalline Graphene on the Copper Surface with a Native Oxide Layer. Chemistry of Materials, 2016, 28, 4893-4900.	3.2	52
1539	Isotropic Growth of Graphene toward Smoothing Stitching. ACS Nano, 2016, 10, 7189-7196.	7.3	47
1540	Stress and charge transfer in uniaxially strained CVD graphene. Physica Status Solidi (B): Basic Research, 2016, 253, 2355-2361.	0.7	12
1541	Facile route to gold-graphene electrodes by exfoliation of natural graphite under electrochemical conditions. Carbon, 2016, 107, 823-830.	5.4	8
1542	Gate-Dependent Electronic Raman Scattering in Graphene. Physical Review Letters, 2016, 116, 066805.	2.9	21
1543	In Situ Study of Li Intercalation into Highly Crystalline Graphitic Flakes of Varying Thicknesses. Journal of Physical Chemistry Letters, 2016, 7, 4291-4296.	2.1	70
1544	Thermal Conductivity and Pressure-Dependent Raman Studies of Vertical Graphene Nanosheets. Journal of Physical Chemistry C, 2016, 120, 25092-25100.	1.5	34
1545	Improving graphene non-volatile memory using self-aligned gate. Electronics Letters, 2016, 52, 742-744.	0.5	2
1546	Self-propagating high-temperature fast reduction of magnesium oxalate to novel nanocarbons. Physica Status Solidi (B): Basic Research, 2016, 253, 2486-2491.	0.7	11
1547	Early stages in the formation and burning of graphene on a Pt/Mg(Al)O dehydrogenation catalyst: A temperature- and time-resolved study. Journal of Catalysis, 2016, 344, 482-495.	3.1	27

#	ARTICLE	IF	CITATIONS
1548	Tailored CVD graphene coating as a transparent and flexible gas barrier. <i>Scientific Reports</i> , 2016, 6, 24143.	1.6	38
1549	Lithium-ion battery electrolyte mobility at nano-confined graphene interfaces. <i>Nature Communications</i> , 2016, 7, 12693.	5.8	26
1550	Ultrasensitive molecular sensor using N-doped graphene through enhanced Raman scattering. <i>Science Advances</i> , 2016, 2, e1600322.	4.7	174
1551	Substrate-Modulated Reductive Graphene Functionalization. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14858-14862.	7.2	26
1552	Epitaxial nucleation of CVD bilayer graphene on copper. <i>Nanoscale</i> , 2016, 8, 20001-20007.	2.8	8
1553	Flower-like Fe ₂ O ₃ /reduced graphene oxide composite for electrochemical energy storage. <i>Synthetic Metals</i> , 2016, 222, 198-204.	2.1	14
1554	Ruthenium nanoparticles decorated curl-like porous carbons for high performance supercapacitors. <i>Scientific Reports</i> , 2016, 6, 19949.	1.6	45
1555	Large-Area Growth of Turbostratic Graphene on Ni(111) via Physical Vapor Deposition. <i>Scientific Reports</i> , 2016, 6, 19804.	1.6	103
1556	Growth of ZnO thin film on graphene transferred Si (100) substrate. <i>Thin Solid Films</i> , 2016, 619, 68-72.	0.8	12
1557	Efficient graphene saturable absorbers on D-shaped optical fiber for ultrashort pulse generation. <i>Scientific Reports</i> , 2016, 6, 20644.	1.6	115
1558	A theoretical review on electronic, magnetic and optical properties of silicene. <i>Reports on Progress in Physics</i> , 2016, 79, 126501.	8.1	155
1559	A New Raman Metric for the Characterisation of Graphene oxide and its Derivatives. <i>Scientific Reports</i> , 2016, 6, 19491.	1.6	250
1560	Facile synthesis of PdS _x /C porous nanospheres and their applications for ethanol oxidation reaction. <i>Journal of Power Sources</i> , 2016, 336, 1-7.	4.0	16
1561	Surface plasmon enhanced graphene/p-GaN heterostructure light-emitting-diode by Ag nano-particles. <i>Nano Energy</i> , 2016, 30, 362-367.	8.2	28
1562	Intercalation-assisted longitudinal unzipping of carbon nanotubes for green and scalable synthesis of graphene nanoribbons. <i>Scientific Reports</i> , 2016, 6, 22755.	1.6	82
1563	Graphene-clad microfibre saturable absorber for ultrafast fibre lasers. <i>Scientific Reports</i> , 2016, 6, 26024.	1.6	80
1564	Supercollision cooling effects on the hot photoluminescence emission of graphene. <i>Nanotechnology</i> , 2016, 27, 445710.	1.3	3
1565	Metal-induced rapid transformation of diamond into single and multilayer graphene on wafer scale. <i>Nature Communications</i> , 2016, 7, 12099.	5.8	70

#	ARTICLE	IF	CITATIONS
1566	Topology-Driven Reductive Silylation of Synthetic Carbon Allotropes. <i>Journal of the American Chemical Society</i> , 2016, 138, 15642-15647.	6.6	8
1567	Substratmodulierte reduktive Graphenfunktionalisierung. <i>Angewandte Chemie</i> , 2016, 128, 15080-15084.	1.6	10
1568	Chemistry at the Edge of Graphene. <i>ChemPhysChem</i> , 2016, 17, 785-801.	1.0	120
1569	Raman analysis of bilayer graphene film prepared on commercial Cu(0.5 at% Ni) foil. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 553-559.	1.2	15
1570	Defect engineering of two-dimensional transition metal dichalcogenides. <i>2D Materials</i> , 2016, 3, 022002.	2.0	736
1571	Novel alkaline-reduced cuprous oxide/graphene nanocomposites for non-enzymatic amperometric glucose sensor application. <i>Materials Science and Engineering C</i> , 2016, 68, 465-473.	3.8	42
1572	Direct Growth of Graphene Films on 3D Grating Structural Quartz Substrates for High-Performance Pressure-Sensitive Sensors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16869-16875.	4.0	35
1573	Porous graphene containing immobilized Ru(II) tris-bipyridyl for use in electrochemiluminescence sensing of tripropylamine. <i>Mikrochimica Acta</i> , 2016, 183, 1211-1217.	2.5	8
1574	In situ growth of Ag nanoparticles in graphene@TiO ₂ mesoporous films induced by hard X-ray. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 79, 295-302.	1.1	11
1576	Flexible graphene field effect transistor with ferroelectric polymer gate. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	1.5	21
1577	Growth of graphene on cylindrical copper conductors as an anticorrosion coating: a microscopic study. <i>Nanotechnology</i> , 2016, 27, 285704.	1.3	4
1578	Flexible, transparent and high-power triboelectric generator with asymmetric graphene/ITO electrodes. <i>Nanotechnology</i> , 2016, 27, 30LT01.	1.3	11
1579	Double hexagonal graphene ring synthesized using a growth-etching method. <i>Nanoscale</i> , 2016, 8, 14178-14183.	2.8	9
1580	Fabrication and characterization of graphene/AlGaIn/GaN ultraviolet Schottky photodetector. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 275105.	1.3	24
1581	Optical investigation of reduced graphene oxide and reduced graphene oxide/CNTs grown via simple CVD method. <i>Synthetic Metals</i> , 2016, 220, 72-77.	2.1	28
1582	Heterocarbon nanosheets incorporating iron phthalocyanine for oxygen reduction reaction in both alkaline and acidic media. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10856-10863.	1.3	30
1583	Toward High Carrier Mobility and Low Contact Resistance: Laser Cleaning of PMMA Residues on Graphene Surfaces. <i>Nano-Micro Letters</i> , 2016, 8, 336-346.	14.4	69
1584	The effect of iron catalyzed graphitization on the textural properties of carbonized cellulose: Magnetically separable graphitic carbon bodies for catalysis and remediation. <i>Carbon</i> , 2016, 107, 248-260.	5.4	87

#	ARTICLE	IF	CITATIONS
1585	Preparation of hierarchical porous carbonaceous foams from Kraft black liquor. <i>Materials Today Communications</i> , 2016, 7, 108-116.	0.9	30
1586	Raman and FTIR Spectroscopy as Valuable Tools for the Characterization of Graphene-Based Materials. , 2016, , 235-253.		1
1587	Design and Applications of Graphene- and Biomolecule-Based Nanosensors and Nanodevices. , 2016, , 21-30.		0
1588	From automotive shredder residue to nano-ceramics and graphitic carbonâ€”Thermal degradation kinetics. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 120, 60-74.	2.6	19
1589	In situ chemical vapor deposition of graphene and hexagonal boron nitride heterostructures. <i>Current Applied Physics</i> , 2016, 16, 1175-1191.	1.1	42
1590	Effects of carbon addition on the electrical properties of bulk silicon-oxycarbide ceramics. <i>Journal of the European Ceramic Society</i> , 2016, 36, 2705-2711.	2.8	37
1591	Series resistance of signal line in graphene coplanar waveguide. , 2016, , .		0
1592	Manifestation of Structure of Electron Bands in Double-Resonant Raman Spectra of Single-Walled Carbon Nanotubes. <i>Nanoscale Research Letters</i> , 2016, 11, 2.	3.1	36
1593	Simultaneous synthesis of nanodiamonds and graphene via plasma enhanced chemical vapor deposition (MW PE-CVD) on copper. <i>SpringerPlus</i> , 2016, 5, 568.	1.2	20
1594	Investigation of the tribology behaviour of the graphene nanosheets as oil additives on textured alloy cast iron surface. <i>Applied Surface Science</i> , 2016, 387, 66-75.	3.1	93
1595	Synthesis and in-situ functionalization of graphene films through graphite charging in aqueous Fe ₂ (SO ₄) ₃ . <i>Carbon</i> , 2016, 107, 379-387.	5.4	14
1596	Manual turbostratic stacked graphene transistor: A study on electrical properties and device potential. <i>Diamond and Related Materials</i> , 2016, 68, 28-36.	1.8	0
1597	Effects of substrate on the domains and electrical properties of epitaxial graphene formed on on-axis C-face 4H-SiC. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 7595-7602.	1.1	1
1598	Probing the interaction of ionic liquids with graphene using surfaceâ€”enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 585-590.	1.2	18
1599	Polyurethane-graphene nanocomposite foams with enhanced thermal insulating properties. <i>Polymers for Advanced Technologies</i> , 2016, 27, 303-307.	1.6	25
1600	Rivet Graphene. <i>ACS Nano</i> , 2016, 10, 7307-7313.	7.3	20
1601	Facile synthesis of flower-like platinum nanostructures as an efficient electrocatalyst for methanol electro-oxidation. <i>Journal of Colloid and Interface Science</i> , 2016, 479, 64-70.	5.0	26
1602	Controllable Fabrication of Nanostructured Graphene Towards Electronics. <i>Advanced Electronic Materials</i> , 2016, 2, 1500456.	2.6	22

#	ARTICLE	IF	CITATIONS
1603	Structural, Vibrational, and Thermal Properties of Nanocrystalline Graphene in Atomistic Simulations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3026-3035.	1.5	15
1604	Antibacterial activities and mechanisms of fluorinated graphene and guanidine-modified graphene. <i>RSC Advances</i> , 2016, 6, 8763-8772.	1.7	23
1605	Novel layer-by-layer assembly of rGO-hybridised ZnO sandwich thin films for the improvement of photo-catalysed hydrogen production. <i>Journal of Energy Chemistry</i> , 2016, 25, 336-344.	7.1	19
1606	Basic Insights into Tunable Graphene Hydrogenation. <i>Journal of the American Chemical Society</i> , 2016, 138, 1647-1652.	6.6	45
1607	Effect of Plasma Power on Growth of Multilayer Graphene on Copper Using Plasma Enhanced Chemical Vapour Deposition. <i>Journal of Chemical Research</i> , 2016, 40, 40-43.	0.6	8
1608	Functionalization of multilayer carbon shell-encapsulated gold nanoparticles for surface-enhanced Raman scattering sensing and DNA immobilization. <i>Carbon</i> , 2016, 100, 165-177.	5.4	24
1609	High temperature low vacuum synthesis of a freestanding three-dimensional graphene nano-ribbon foam electrode. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2617-2629.	5.2	19
1610	Raman Spectroscopy and Kelvin Probe Force Microscopy characteristics of the CVD suspended graphene. <i>Diamond and Related Materials</i> , 2016, 64, 27-33.	1.8	22
1611	Few-layer graphene growth from polystyrene as solid carbon source utilizing simple APCVD method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 81, 302-307.	1.3	9
1612	Synthesis of heteroatom-carbon nanosheets by solution plasma processing using N-methyl-2-pyrrolidone as precursor. <i>RSC Advances</i> , 2016, 6, 6990-6996.	1.7	27
1613	Oxidized nitinol substrate for interference enhanced Raman scattering of monolayer graphene. <i>RSC Advances</i> , 2016, 6, 7093-7100.	1.7	13
1614	Investigation into the morphology, composition, structure and dry tribological behavior of rice husk ceramic particles. <i>Applied Surface Science</i> , 2016, 366, 372-382.	3.1	9
1615	Structural characterization of individual graphene sheets formed by arc discharge and their growth mechanisms. <i>RSC Advances</i> , 2016, 6, 19797-19806.	1.7	23
1616	Preparation of graphene oxide by dry planetary ball milling process from natural graphite. <i>RSC Advances</i> , 2016, 6, 12657-12668.	1.7	109
1617	Influence of the covalent immobilization of graphene oxide in poly(vinyl alcohol) on human osteoblast response. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 138, 50-59.	2.5	20
1618	Raman characterization of stacking in multi-layer graphene grown on Ni. <i>Carbon</i> , 2016, 98, 658-665.	5.4	47
1619	Graphene oxide for rapid determination of testosterone in the presence of cetyltrimethylammonium bromide in urine and blood plasma of athletes. <i>Materials Science and Engineering C</i> , 2016, 61, 246-250.	3.8	22
1620	Fine tuning of graphene properties by modification with aryl halogens. <i>Nanoscale</i> , 2016, 8, 1493-1502.	2.8	21

#	ARTICLE	IF	CITATIONS
1621	Significant enhancement of the cycling performance and rate capability of the P/C composite via chemical bonding (Pâ€C). <i>Journal of Materials Chemistry A</i> , 2016, 4, 505-511.	5.2	106
1622	Synthesis of large-area graphene improved with TiO ₂ for a novel photonic response by the ultrasonic method via CVD. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 108-115.	1.0	2
1623	Ultrafast Solvent-Assisted Sodium Ion Intercalation into Highly Crystalline Few-Layered Graphene. <i>Nano Letters</i> , 2016, 16, 543-548.	4.5	185
1624	Molecular Modeling Combined with Advanced Chemistry for the Rational Design of Efficient Graphene Dispersing Agents. <i>ACS Macro Letters</i> , 2016, 5, 24-29.	2.3	21
1625	Crackless transfer of large-area graphene films for superior-performance transparent electrodes. <i>Carbon</i> , 2016, 98, 457-462.	5.4	53
1626	Addressing asymmetry of the charge and strain in a two-dimensional fullerene peapod. <i>Nanoscale</i> , 2016, 8, 735-740.	2.8	6
1627	Synthesis of Ag-reduced graphene oxide nanocomposite by gamma radiation assisted method and its photocatalytic activity. <i>Vacuum</i> , 2016, 124, 40-45.	1.6	59
1628	Incorporating nitrogen-doped graphene oxide dots with graphene oxide sheets for stable and effective hydrogen production through photocatalytic water decomposition. <i>Applied Catalysis A: General</i> , 2016, 521, 118-124.	2.2	30
1629	Structure and field emission of graphene layers on top of silicon nanowire arrays. <i>Applied Surface Science</i> , 2016, 362, 250-256.	3.1	14
1630	Raman characterization of AB- and ABC-stacked few-layer graphene by interlayer shear modes. <i>Carbon</i> , 2016, 99, 118-122.	5.4	43
1631	Graphene Functionalization for Biosensor Applications. , 2016, , 85-141.		43
1632	Understanding Pt Nanoparticle Anchoring on Graphene Supports through Surface Functionalization. <i>ACS Catalysis</i> , 2016, 6, 2642-2653.	5.5	172
1633	Flexible terahertz modulator based on coplanar-gate graphene field-effect transistor structure. <i>Optics Letters</i> , 2016, 41, 816.	1.7	33
1634	Probing the adhesion interactions of graphene on silicon oxide by nanoindentation. <i>Carbon</i> , 2016, 103, 63-72.	5.4	50
1635	Interfacially reinforced carbon fiber/epoxy composites by grafting melamine onto carbon fibers in supercritical methanol. <i>RSC Advances</i> , 2016, 6, 29654-29662.	1.7	51
1636	Recent Approaches for Bridging the Pressure Gap in Photoelectron Microspectroscopy. <i>Topics in Catalysis</i> , 2016, 59, 448-468.	1.3	45
1637	Coral-Inspired Nanoengineering Design for Long-Cycle and Flexible Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9185-9193.	4.0	22
1638	Electrochemical properties of a thermally expanded magnetic graphene composite with a conductive polymer. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10400-10410.	1.3	29

#	ARTICLE	IF	CITATIONS
1639	Effect of substrate polishing on the growth of graphene on 3C-SiC(111)/Si(111) by high temperature annealing. <i>Nanotechnology</i> , 2016, 27, 185601.	1.3	7
1640	Well-controlled preparation of evenly distributed nanoporous HOPG surface via diazonium salt assisted electrochemical etching process. <i>Carbon</i> , 2016, 102, 419-425.	5.4	12
1641	Spontaneous Modification of Free-Floating Few-Layer Graphene by Aryldiazonium Ions: Electrochemistry, Atomic Force Microscopy, and Infrared Spectroscopy from Grafted Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7543-7552.	1.5	17
1642	Resistive switching effect and traps in partially fluorinated graphene films. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 095303.	1.3	16
1643	Chemical vapor deposition graphene transfer process to a polymeric substrate assisted by a spin coater. <i>Materials Research Express</i> , 2016, 3, 035601.	0.8	6
1644	Controllable Sliding Transfer of Wafer-Size Graphene. <i>Advanced Science</i> , 2016, 3, 1600006.	5.6	25
1645	SiC nanowires synthesized from graphene and silicon vapors. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	3
1646	Wide-range work-function tuning of active graphene transparent electrodes via hole doping. <i>RSC Advances</i> , 2016, 6, 32746-32756.	1.7	29
1647	A modified Langmuir-Blodgett technique for transfer of graphene oxide monolayer sheets on solid substrates. <i>Materials Research Express</i> , 2016, 3, 035002.	0.8	6
1648	Review on the Raman spectroscopy of different types of layered materials. <i>Nanoscale</i> , 2016, 8, 6435-6450.	2.8	300
1649	Graphene engineering by neon ion beams. <i>Nanotechnology</i> , 2016, 27, 125302.	1.3	21
1650	Two dimensional MoS ₂ /graphene p-n heterojunction diode: Fabrication and electronic characteristics. <i>Journal of Alloys and Compounds</i> , 2016, 671, 276-282.	2.8	36
1651	Production of hydrogen and carbon nanomaterials from methane using Co/ZSM-5 catalyst. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8668-8678.	3.8	45
1652	Few layers graphene as thermally activated optical modulator in the visible-near IR spectral range. <i>Optics Letters</i> , 2016, 41, 167.	1.7	6
1653	<i>In situ</i> Raman spectroscopy of the graphene/water interface of a solution-gated field-effect transistor: electron-phonon coupling and spectroelectrochemistry. <i>Nanotechnology</i> , 2016, 27, 045704.	1.3	9
1654	The importance of raw graphite size to the capacitive properties of graphene oxide. <i>RSC Advances</i> , 2016, 6, 17023-17028.	1.7	10
1655	Sandwiched assembly of ZnO nanowires between graphene layers for a self-powered and fast responsive ultraviolet photodetector. <i>Nanotechnology</i> , 2016, 27, 095205.	1.3	85
1656	Synergistic effect of boron/nitrogen co-doping into graphene and intercalation of carbon black for Pt-BCN-Gr/CB hybrid catalyst on cell performance of polymer electrolyte membrane fuel cell. <i>Energy</i> , 2016, 96, 314-324.	4.5	37

#	ARTICLE	IF	CITATIONS
1657	Liquid-phase exfoliation of flaky graphite. <i>Journal of Nanophotonics</i> , 2016, 10, 012525.	0.4	19
1658	Study of multi-layered graphene by ultra-low energy SEM/STEM. <i>Diamond and Related Materials</i> , 2016, 63, 136-142.	1.8	7
1659	A non-destructive n-doping method for graphene with precise control of electronic properties via atomic layer deposition. <i>Nanoscale</i> , 2016, 8, 5000-5005.	2.8	15
1660	Porous carbonaceous solid acids derived from farm animal waste and their use in catalyzing biomass transformation. <i>Applied Catalysis A: General</i> , 2016, 513, 19-29.	2.2	19
1661	Low-frequency interlayer vibration modes in two-dimensional layered materials. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 80, 130-141.	1.3	18
1662	Coal/PAN interconnected carbon nanofibers with excellent energy storage performance and electrical conductivity. <i>Electrochimica Acta</i> , 2016, 194, 239-245.	2.6	59
1663	Synthesis of high-quality graphene sheets in task-specific ionic liquids and their photocatalytic performance. <i>New Journal of Chemistry</i> , 2016, 40, 3147-3154.	1.4	6
1664	Liquid-phase exfoliated graphene self-assembled films: Low-frequency noise and thermal-electric characterization. <i>Applied Surface Science</i> , 2016, 380, 268-273.	3.1	14
1665	One-step and controllable bipolar doping of reduced graphene oxide using TMAH as reducing agent and doping source for field effect transistors. <i>Carbon</i> , 2016, 100, 608-616.	5.4	25
1666	Spectroscopic metrics allow in situ measurement of mean size and thickness of liquid-exfoliated few-layer graphene nanosheets. <i>Nanoscale</i> , 2016, 8, 4311-4323.	2.8	194
1667	Pulsed-Plasma Physical Vapor Deposition Approach Toward the Facile Synthesis of Multilayer and Monolayer Graphene for Anticoagulation Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4878-4886.	4.0	4
1668	High-field emission performance of a NiFe ₂ O ₄ /rGO/CNT tertiary nanocomposite. <i>RSC Advances</i> , 2016, 6, 26745-26751.	1.7	11
1669	Graphene anchored palladium complex as efficient and recyclable catalyst in the Heck cross-coupling reaction. <i>Journal of Molecular Catalysis A</i> , 2016, 416, 140-146.	4.8	43
1670	A monolithic three-dimensional macroporous graphene anode with low cost for high performance microbial fuel cells. <i>RSC Advances</i> , 2016, 6, 21001-21010.	1.7	23
1671	Enhanced and Selective Photodetection Using Graphene-Stabilized Hybrid Plasmonic Silver Nanoparticles. <i>Plasmonics</i> , 2016, 11, 1297-1304.	1.8	38
1672	Facile one-pot synthesis of Au@PEDOT/rGO nanocomposite for highly sensitive detection of caffeic acid in red wine sample. <i>Electrochimica Acta</i> , 2016, 196, 1-12.	2.6	91
1673	Facile wick-and-oil flame synthesis of high-quality hydrophilic onion-like carbon nanoparticles. <i>Materials Chemistry and Physics</i> , 2016, 174, 112-119.	2.0	67
1674	Ultraviolet Raman spectra of double-resonant modes of graphene. <i>Carbon</i> , 2016, 101, 235-238.	5.4	11

#	ARTICLE	IF	CITATIONS
1675	Ionic liquid-assisted synthesis of dual-doped graphene as efficient electrocatalysts for oxygen reduction. <i>Carbon</i> , 2016, 102, 58-65.	5.4	50
1676	The growth mechanism of few-layer graphene in the arc discharge process. <i>Carbon</i> , 2016, 102, 494-498.	5.4	62
1677	The nanostructure preservation of 3D porous graphene: New insights into the graphitization and surface chemistry of non-stacked double-layer templated graphene after high-temperature treatment. <i>Carbon</i> , 2016, 103, 36-44.	5.4	30
1678	A simple synthesis of sulfur-doped graphene using sulfur powder by chemical vapor deposition. <i>RSC Advances</i> , 2016, 6, 27158-27163.	1.7	46
1679	Raman spectrum of graphene with its versatile future perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 125-131.	5.8	116
1680	Spectroscopic Investigation of Plasma-Fluorinated Monolayer Graphene and Application for Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8652-8661.	4.0	77
1681	Laser sintered graphene nickel nanocomposites. <i>Journal of Materials Processing Technology</i> , 2016, 231, 143-150.	3.1	59
1682	Large-scale synthesis of few-layer graphene from magnesium and different carbon sources and its application in dye-sensitized solar cells. <i>Materials and Design</i> , 2016, 92, 462-470.	3.3	27
1683	Amorphous carbon nanotubes as potent sorbents for removal of a phenolic derivative compound and arsenic: theoretical support of experimental findings. <i>RSC Advances</i> , 2016, 6, 8913-8922.	1.7	17
1684	MoS ₂ /sulfur and nitrogen co-doped reduced graphene oxide nanocomposite for enhanced electrocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 916-923.	3.8	40
1685	Large area chemical vapor deposition of monolayer transition metal dichalcogenides and their temperature dependent Raman spectroscopy studies. <i>Nanoscale</i> , 2016, 8, 3008-3018.	2.8	186
1686	Radial breathing modes in silver selenide quantum dots. <i>Materials Letters</i> , 2016, 167, 135-140.	1.3	6
1687	Electrically conductive graphene nanoplatelet/boron carbide composites with high hardness and toughness. <i>Scripta Materialia</i> , 2016, 114, 98-102.	2.6	63
1688	Improved continuity of reduced graphene oxide on polyester fabric by use of polypyrrole to achieve a highly electro-conductive and flexible substrate. <i>Applied Surface Science</i> , 2016, 363, 264-272.	3.1	55
1689	Toward bandgap tunable graphene oxide nanoribbons by plasma-assisted reduction and defect restoration at low temperature. <i>RSC Advances</i> , 2016, 6, 2270-2278.	1.7	16
1690	3D-ordered carbon materials by melt-shear organization for tailor-made hybrid core-shell polymer particle architectures. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3976-3986.	2.7	26
1691	Microwave synthesized self-standing electrode of MoS ₂ nanosheets assembled on graphene foam for high-performance Li-Ion and Na-Ion batteries. <i>Journal of Alloys and Compounds</i> , 2016, 660, 11-16.	2.8	64
1692	Photobleaching and stabilization of carbon nanodots produced by solvothermal synthesis. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 466-475.	1.3	87

#	ARTICLE	IF	CITATIONS
1693	Effect of graphene and CNFs addition on the mechanical and electrical properties of dense alumina-toughened zirconia composites. <i>Ceramics International</i> , 2016, 42, 1105-1113.	2.3	15
1694	SEM and Raman analysis of graphene on SiC(0001). <i>Micron</i> , 2016, 80, 20-23.	1.1	29
1695	Direct formation of graphene layers on diamond by high-temperature annealing with a Cu catalyst. <i>Diamond and Related Materials</i> , 2016, 63, 148-152.	1.8	35
1696	Graphene oxide wrapped Na ₃ V ₂ (PO ₄) ₃ /C nanocomposite as superior cathode material for sodium-ion batteries. <i>Ceramics International</i> , 2016, 42, 820-827.	2.3	32
1697	6 MeV energy electron beam assisted synthesis of Ag@rGO nanocomposite and its photocatalytic activity. <i>Materials Letters</i> , 2016, 164, 35-38.	1.3	10
1698	In-situ exfoliated graphene for high-performance water-based lubricants. <i>Carbon</i> , 2016, 96, 1181-1190.	5.4	168
1699	Catalytic graphitization of resorcinol-formaldehyde xerogel and its effect on lithium ion intercalation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 117, 317-324.	2.6	26
1700	Large-scale transfer and characterization of macroscopic periodically nano-rippled graphene. <i>Carbon</i> , 2016, 96, 243-249.	5.4	19
1701	Correlation in structure and properties of highly-porous graphene monoliths studied with a thermal treatment method. <i>Carbon</i> , 2016, 96, 174-183.	5.4	34
1702	Rolled graphene oxide foams as three-dimensional scaffolds for growth of neural fibers using electrical stimulation of stem cells. <i>Carbon</i> , 2016, 97, 71-77.	5.4	200
1703	Styrene- <i>b</i> -butadiene- <i>b</i> -styrene copolymer-compatible interfacial-modified graphene oxide with mechanical and electrical properties. <i>Journal of Thermoplastic Composite Materials</i> , 2017, 30, 1228-1241.	2.6	9
1704	Facile electrochemical synthesis of few layered graphene from discharged battery electrode and its application for energy storage. <i>Arabian Journal of Chemistry</i> , 2017, 10, 556-565.	2.3	46
1705	Unintentional Polarization Dependent Pulsewidth of Graphene Mode-Locked Er-Doped Fiber Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 50-59.	1.9	8
1706	A high sensitivity field effect transistor biosensor for methylene blue detection utilize graphene oxide nanoribbon. <i>Biosensors and Bioelectronics</i> , 2017, 89, 511-517.	5.3	27
1707	Fast synthesis of turbostratic carbon thin coating by cathodic plasma electrolysis. <i>Thin Solid Films</i> , 2017, 621, 253-258.	0.8	12
1708	Spectroscopic Investigations of Phonons in Epitaxial Graphene. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2017, 42, 99-128.	6.8	17
1709	Structure and properties of polymer nanocomposite films with carbon nanotubes and graphene. <i>Polymer Composites</i> , 2017, 38, E490.	2.3	11
1710	Role of limited hydrogen and flow interval on the growth of single crystal to continuous graphene by low-pressure chemical vapor deposition. <i>Nanotechnology</i> , 2017, 28, 075602.	1.3	9

#	ARTICLE	IF	CITATIONS
1711	Novel templated mesoporous carbons as electrode for electrochemical capacitors with aqueous neutral electrolytes. <i>Microporous and Mesoporous Materials</i> , 2017, 242, 221-230.	2.2	8
1712	A new type of two-dimensional carbon crystal prepared from 1,3,5-trihydroxybenzene. <i>Scientific Reports</i> , 2017, 7, 40796.	1.6	57
1713	Fabrication and current-voltage characteristics of Mo 1 ^â x W x S 2 /graphene oxide heterojunction diode. <i>Surface and Coatings Technology</i> , 2017, 320, 520-526.	2.2	0
1714	Preparation, characterization, Raman, and terahertz spectroscopy study on carbon nanotubes, graphene nano-sheets, and onion like carbon materials. <i>Materials Chemistry and Physics</i> , 2017, 189, 127-135.	2.0	23
1715	Edge-Functionalized Graphene Nanoribbon Frameworks for the Capture and Separation of Greenhouse Gases. <i>Macromolecules</i> , 2017, 50, 523-533.	2.2	13
1716	Incommensurate Graphene Foam as a High Capacity Lithium Intercalation Anode. <i>Scientific Reports</i> , 2017, 7, 39944.	1.6	33
1717	Single-step synthesis of crystalline <i>h</i>-BN quantum- and nanodots embedded in boron carbon nitride films. <i>Nanotechnology</i> , 2017, 28, 105602.	1.3	17
1718	An empirical force field for the simulation of the vibrational spectroscopy of carbon nanomaterials. <i>Carbon</i> , 2017, 113, 299-308.	5.4	12
1719	Exceptionally large migration length of carbon and topographically-facilitated self-limiting molecular beam epitaxial growth of graphene on hexagonal boron nitride. <i>Carbon</i> , 2017, 114, 579-584.	5.4	12
1720	Nitrogen-Doped Graphene as a Robust Scaffold for the Homogeneous Deposition of Copper Nanostructures: A Nonenzymatic Disposable Glucose Sensor. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1648-1658.	3.2	77
1721	Non-covalent intermolecular interactions of colloidal nematic liquid crystals doped with graphene oxide. <i>Liquid Crystals</i> , 2017, 44, 1341-1355.	0.9	36
1722	Noninvasive Scanning Raman Spectroscopy and Tomography for Graphene Membrane Characterization. <i>Nano Letters</i> , 2017, 17, 1504-1511.	4.5	17
1723	Thermal behavior of thermoplastic polymer nanocomposites containing graphene nanoplatelets. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	18
1724	Raman spectroscopy and imaging of Bernalâ€stacked bilayer graphene synthesized on copper foil by chemical vapour deposition: growth dependence on temperature. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 639-646.	1.2	4
1725	High quality epitaxial graphene by hydrogen-etching of 3C-SiC(111) thin-film on Si(111). <i>Nanotechnology</i> , 2017, 28, 115601.	1.3	11
1726	Nanosize carbon products formed in microwave discharge in liquid alkanes. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600227.	1.6	14
1727	Raman Spectroscopy of Graphene. , 2017, , 85-132.		5
1728	Layered nanofibrillated cellulose hybrid films as flexible lateral heat spreaders: The effect of graphene defect. <i>Carbon</i> , 2017, 115, 338-346.	5.4	65

#	ARTICLE	IF	CITATIONS
1729	Graphene films as transparent electrodes for photovoltaic devices based on cadmium sulfide thin films. <i>Solar Energy Materials and Solar Cells</i> , 2017, 163, 1-8.	3.0	45
1730	Surface functionalization of epitaxial graphene on SiC by ion irradiation for gas sensing application. <i>Applied Surface Science</i> , 2017, 403, 707-716.	3.1	24
1731	Au concentration-dependent quenching of Raman 2D peak in graphene. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 586-591.	1.2	15
1732	An ion-migration and electron-transfer cycle containing graphene and copper substrate analyzed with Raman spectra. <i>Carbon</i> , 2017, 116, 15-19.	5.4	2
1733	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO ₂ by Chemical Vapor Deposition. <i>ACS Nano</i> , 2017, 11, 1946-1956.	7.3	108
1734	Synthesis of Single-Layer Graphene on Nickel Using a Droplet CVD Process. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600783.	1.9	18
1735	Raman signature and phonon dispersion of atomically thin boron nitride. <i>Nanoscale</i> , 2017, 9, 3059-3067.	2.8	141
1736	Cobalt nanoparticles encapsulated in carbon nanotube-grafted nitrogen and sulfur co-doped multichannel carbon fibers as efficient bifunctional oxygen electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4949-4961.	5.2	129
1737	Enhanced Raman scattering of graphene by silver nanoparticles with different densities and locations. <i>Materials Research Express</i> , 2017, 4, 025012.	0.8	10
1738	Engineering a PVD-Based Graphene Synthesis Method. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 784-789.	1.1	4
1739	Highly microporous-graphene aerogel monolith of unidirectional honeycomb macro-textures. <i>Chemical Physics Letters</i> , 2017, 673, 38-43.	1.2	10
1740	Optical Generation and Detection of Local Nonequilibrium Phonons in Suspended Graphene. <i>Nano Letters</i> , 2017, 17, 2049-2056.	4.5	60
1741	Role of carbon defects in the reversible alloying states of red phosphorus composite anodes for efficient sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5266-5272.	5.2	30
1742	Highly Stretchable Potentiometric pH Sensor Fabricated via Laser Carbonization and Machining of Carbon-Polyaniline Composite. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9015-9023.	4.0	146
1743	Structure and Optical Features of Micro/Nanosized Carbon Forms Prepared by Electrochemical Exfoliation. <i>Nanoscale Research Letters</i> , 2017, 12, 28.	3.1	8
1744	The double-resonance Raman spectra in single-chirality (n, m) carbon nanotubes. <i>Carbon</i> , 2017, 117, 41-45.	5.4	13
1745	Thiocyanates as attractive redox-active electrolytes for high-energy and environmentally-friendly electrochemical capacitors. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7923-7935.	1.3	34
1746	Identification of high performance solvents for the sustainable processing of graphene. <i>Green Chemistry</i> , 2017, 19, 2550-2560.	4.6	133

#	ARTICLE	IF	CITATIONS
1747	Graphene Oxide-Polymer Composite Langmuir Films Constructed by Interfacial Thiol-Ene Photopolymerization. <i>Nanoscale Research Letters</i> , 2017, 12, 99.	3.1	83
1748	CNT branching of three-dimensional steam-activated graphene hybrid frameworks for excellent rate and cyclic capabilities to store lithium ions. <i>Carbon</i> , 2017, 116, 500-509.	5.4	27
1749	Metastable Marcasite-FeS ₂ as a New Anode Material for Lithium Ion Batteries: CNFs-Improved Lithiation/Delithiation Reversibility and Li-Storage Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10708-10716.	4.0	122
1750	Fabrication of Hierarchical Layer-by-Layer Assembled Diamond-based Core-Shell Nanocomposites as Highly Efficient Dye Absorbents for Wastewater Treatment. <i>Scientific Reports</i> , 2017, 7, 44076.	1.6	83
1751	Heteropolyacids embedded in a lipid bilayer covalently bonded to graphene oxide for the facile one-pot conversion of glycerol to lactic acid. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8325-8333.	5.2	27
1752	Growth Mechanism for Low Temperature PVD Graphene Synthesis on Copper Using Amorphous Carbon. <i>Scientific Reports</i> , 2017, 7, 44112.	1.6	23
1753	Preparation of polymer-derived graphene-like carbon-silicon carbide nanocomposites as electromagnetic interference shielding material for high temperature applications. <i>Journal of Alloys and Compounds</i> , 2017, 709, 313-321.	2.8	31
1754	Formation of self-assembled nanoscale graphene/graphene oxide photomemristive heterojunctions using photocatalytic oxidation. <i>Nanotechnology</i> , 2017, 28, 204005.	1.3	16
1755	Intervalley scattering by acoustic phonons in two-dimensional MoS ₂ revealed by double-resonance Raman spectroscopy. <i>Nature Communications</i> , 2017, 8, 14670.	5.8	196
1756	Pressure-Controlled Chemical Vapor Deposition of Single-Layer Graphene with Millimeter-Size Domains on Thin Copper Film. <i>Chemistry of Materials</i> , 2017, 29, 3431-3440.	3.2	34
1757	Toward Graphene/Silicon Interface via Controlled Electrochemical Reduction of Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5675-5683.	1.5	39
1758	Highly reproducible and uniform SERS substrates based on Ag nanoparticles with optimized size and gap. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017, 23, 58-63.	1.0	17
1759	Introductory Tutorial. , 2017, , 3-40.		0
1760	Nonlinear Saddle Point Spectroscopy and Electron-Phonon Interaction in Graphene. , 2017, , 349-386.		0
1761	Versatile Two-Step Functionalization of Nanocarbons: Grafting of Propargylic Groups and Click Post-Functionalization. <i>ChemistryOpen</i> , 2017, 6, 231-235.	0.9	6
1762	Efficient terahertz modulator based on photoexcited graphene. <i>Optical Materials</i> , 2017, 66, 381-385.	1.7	26
1763	Detection of small molecules with surface plasmon resonance by synergistic plasmonic effects of nanostructured surfaces and graphene. <i>Proceedings of SPIE</i> , 2017, , .	0.8	5
1764	Improving the sensitive property of graphene-based gas sensor by illumination and heating. <i>Sensor Review</i> , 2017, 37, 142-146.	1.0	6

#	ARTICLE	IF	CITATIONS
1765	Synthesis of graphene sheets from single walled carbon nanohorns: novel conversion from cone to sheet morphology. <i>Materials Research Express</i> , 2017, 4, 035008.	0.8	6
1766	On-Silicon Supercapacitors with Enhanced Storage Performance. <i>Journal of the Electrochemical Society</i> , 2017, 164, A638-A644.	1.3	16
1767	Graphene spin valve: An angle sensor. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 432, 135-139.	1.0	16
1768	Optical modulation characteristics of graphene supercapacitors at oblique incidence in visible-infrared region. <i>Solid-State Electronics</i> , 2017, 131, 1-8.	0.8	3
1769	Identifying suitable substrates for high-quality graphene-based heterostructures. <i>2D Materials</i> , 2017, 4, 025030.	2.0	83
1770	Pyrite FeS ₂ microspheres anchoring on reduced graphene oxide aerogel as an enhanced electrode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5332-5341.	5.2	123
1771	Nanosecond Laser-Assisted Nitrogen Doping of Graphene Oxide Dispersions. <i>ChemPhysChem</i> , 2017, 18, 935-941.	1.0	17
1772	Electrical and thermal response of silicon oxycarbide materials obtained by spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2011-2020.	2.8	37
1773	Polyaniline silver nanoparticle coffee waste extracted porous graphene oxide nanocomposite structures as novel electrode material for rechargeable batteries. <i>Materials Research Express</i> , 2017, 4, 035501.	0.8	22
1774	High-temperature creep of carbon nanofiber-reinforced and graphene oxide-reinforced alumina composites sintered by spark plasma sintering. <i>Ceramics International</i> , 2017, 43, 7136-7141.	2.3	21
1775	High mobility and large domain decoupled epitaxial graphene on SiC (0001) surface. <i>Applied Surface Science</i> , 2017, 357, 1000-1008.	1.3	6
1776	Efficient Nitrogen Doping of Single-Layer Graphene Accompanied by Negligible Defect Generation for Integration into Hybrid Semiconductor Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10003-10011.	4.0	39
1777	Evaluation of reduced-graphene-oxide-supported gold nanoparticles as catalytic system for electroreduction of oxygen in alkaline electrolyte. <i>Electrochimica Acta</i> , 2017, 233, 113-122.	2.6	35
1778	Vertical few-layer graphene/metalized Si-nanocone arrays as 3D electrodes for solid-state supercapacitors with large areal capacitance and superior rate capability. <i>Applied Surface Science</i> , 2017, 404, 238-245.	3.1	23
1779	Observation of Anomalous Resistance Behavior in Bilayer Graphene. <i>Nanoscale Research Letters</i> , 2017, 12, 48.	3.1	8
1780	Interfacial Engineering of Van der Waals Coupled 2D Layered Materials. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601054.	1.9	26
1781	The direct measurement of the electronic density of states of graphene using metastable induced electron spectroscopy. <i>2D Materials</i> , 2017, 4, 025068.	2.0	15
1782	Direct growth of 2D and 3D graphene nano-structures over large glass substrates by tuning a sacrificial Cu-template layer. <i>2D Materials</i> , 2017, 4, 025088.	2.0	22

#	ARTICLE	IF	CITATIONS
1783	On Estimating the G-peak shift in graphene Raman spectra. <i>Physics of the Solid State</i> , 2017, 59, 629-632.	0.2	9
1784	Structural aspects of graphitic carbon modified SBA-15 mesoporous silica and biological interactions with red blood cells and plasma proteins. <i>Materials Science and Engineering C</i> , 2017, 78, 141-150.	3.8	7
1785	Multi-dimensional Ag/NiO/reduced graphene oxide nanostructures for a highly sensitive non-enzymatic glucose sensor. <i>Journal of Alloys and Compounds</i> , 2017, 712, 742-751.	2.8	59
1786	Ultrathin Nitrogen-Doped Carbon Coated with CoP for Efficient Hydrogen Evolution. <i>ACS Catalysis</i> , 2017, 7, 3824-3831.	5.5	404
1787	Ni nanoparticle-decorated reduced graphene oxide for non-enzymatic glucose sensing: An experimental and modeling study. <i>Electrochimica Acta</i> , 2017, 240, 388-398.	2.6	50
1788	Over 70% broadband-tunable Yb-doped fiber pulse laser based on trilaminar graphene. <i>Laser Physics Letters</i> , 2017, 14, 065105.	0.6	9
1789	One-step electrochemical preparation of graphene-coated pencil graphite electrodes by cyclic voltammetry and their application in vanadium redox batteries. <i>Electrochimica Acta</i> , 2017, 243, 239-249.	2.6	69
1790	Effect of trapped water on the frictional behavior of graphene oxide layers sliding in water environment. <i>Carbon</i> , 2017, 120, 11-16.	5.4	35
1791	Roles of nitrogen functionalities in enhancing the excitation-independent green-color photoluminescence of graphene oxide dots. <i>Nanoscale</i> , 2017, 9, 8256-8265.	2.8	25
1792	Inkjet printing of liquid-exfoliated, highly conducting graphene/poly(3,4) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 387 Td (ethylene Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, 03D112.	0.6	8
1793	The influence of normal load on the tribological performance of electrophoretic deposition prepared graphene coating on micro-crystalline diamond surface. <i>Diamond and Related Materials</i> , 2017, 76, 50-57.	1.8	21
1794	Facile synthesis of 3D nitrogen-doped graphene aerogel nanomeshes with hierarchical porous structures for applications in high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2017, 41, 5291-5296.	1.4	14
1795	Coupling behaviors of graphene/SiO ₂ /Si structure with external electric field. <i>AIP Advances</i> , 2017, 7, .	0.6	4
1796	Graphene Oxide Nanosheets as An Efficient and Reusable Sorbents for Eosin Yellow Dye Removal from Aqueous Solutions. <i>ChemistrySelect</i> , 2017, 2, 3598-3607.	0.7	24
1797	Tuning the plasmon resonance and work function of laser-scribed chemically doped graphene. <i>Carbon</i> , 2017, 120, 44-53.	5.4	23
1798	Graphene: Synthesis and Functionalization. <i>Nanostructure Science and Technology</i> , 2017, , 101-132.	0.1	2
1799	Structural Modification of Single-Layer Graphene Under Laser Irradiation Featured by Micro-Raman Spectroscopy. <i>Nanoscale Research Letters</i> , 2017, 12, 297.	3.1	30
1800	Enhanced Photoelectrochemical Performance of Cuprous Oxide/Graphene Nanohybrids. <i>Journal of the American Chemical Society</i> , 2017, 139, 6682-6692.	6.6	120

#	ARTICLE	IF	CITATIONS
1801	Novel properties of OD metal-organic polyhedra bonded to the surfaces of 2D graphene and 1D single-walled carbon nanotubes. Dalton Transactions, 2017, 46, 7998-8003.	1.6	12
1802	Magnetic field controlled graphene oxide-based origami with enhanced surface area and mechanical properties. Nanoscale, 2017, 9, 6991-6997.	2.8	36
1803	Preparation of graphene by electrical explosion of graphite sticks. Nanoscale, 2017, 9, 10639-10646.	2.8	29
1804	Graphene growth with H_2 feedstock. 2D Materials, 2017, 4, 025089.	2.0	17
1805	High-concentration shear-exfoliated colloidal dispersion of surfactant-polymer-stabilized few-layer graphene sheets. Journal of Materials Science, 2017, 52, 8321-8337.	1.7	47
1806	Facile and single step synthesis of three dimensional reduced graphene oxide-NiCoO ₂ composite using microwave for enhanced electron field emission properties. Applied Surface Science, 2017, 416, 259-265.	3.1	67
1807	Transfer method of crumpled graphene and its application for human strain monitoring. Sensors and Actuators A: Physical, 2017, 260, 153-160.	2.0	8
1808	Deposition of defected graphene on (001) Si substrates by thermal decomposition of acetone. Superlattices and Microstructures, 2017, 111, 45-56.	1.4	6
1809	Bioinspired Polydopamine Sheathed Nanofibers Containing Carboxylate Graphene Oxide Nanosheet for High-Efficient Dyes Scavenger. ACS Sustainable Chemistry and Engineering, 2017, 5, 4948-4956.	3.2	224
1810	Electrosynthesis of Bifunctional WS ₃ /Reduced Graphene Oxide Hybrid for Hydrogen Evolution Reaction and Oxygen Reduction Reaction Electrocatalysis. Chemistry - A European Journal, 2017, 23, 8510-8519.	1.7	20
1811	A comparative study on different aqueous-phase graphite exfoliation methods for few-layer graphene production and its application in alumina matrix composites. Journal of the European Ceramic Society, 2017, 37, 3681-3693.	2.8	27
1812	Optical signatures of parity anomaly in a gapped graphene-like system. Journal of Physics Condensed Matter, 2017, 29, 205701.	0.7	0
1813	Direct exfoliation of graphite in water with addition of ammonia solution. Journal of Colloid and Interface Science, 2017, 503, 68-75.	5.0	37
1814	Enhanced Raman scattering on functionalized graphene substrates. 2D Materials, 2017, 4, 025087.	2.0	14
1815	Cellulose acetate membrane embedded with graphene oxide-silver nanocomposites and its ability to suppress microbial proliferation. Cellulose, 2017, 24, 781-796.	2.4	32
1816	Ultrathin and Highly Crystalline Co ₃ O ₄ Nanosheets In Situ Grown on Graphene toward Enhanced Supercapacitor Performance. Advanced Materials Interfaces, 2017, 4, 1600884.	1.9	33
1817	Uniform coverage of quasi-free standing monolayer graphene on SiC by hydrogen intercalation. Journal of Materials Science: Materials in Electronics, 2017, 28, 3884-3890.	1.1	8
1818	Ink-jet printed highly conductive pristine graphene patterns achieved with water-based ink and aqueous doping processing. Carbon, 2017, 114, 77-83.	5.4	63

#	ARTICLE	IF	CITATIONS
1819	Realization of ultra-high barrier to water vapor by 3D-interconnection of super-hydrophobic graphene layers in polylactide films. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14377-14386.	5.2	20
1820	Exfoliation of high-quality graphene in volatile and nonvolatile solvents. <i>Graphene Technology</i> , 2017, 2, 29-40.	1.9	3
1821	Graphene on silicon dioxide via carbon ion implantation in copper with PMMA-free transfer. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	4
1822	High electrochemical performance of hierarchical porous activated carbon derived from lightweight cork (<i>Quercus suber</i>). <i>Journal of Materials Science</i> , 2017, 52, 10600-10613.	1.7	47
1823	Biotransformation of graphene oxide nanosheets in blood plasma affects their interactions with cells. <i>Environmental Science: Nano</i> , 2017, 4, 1569-1578.	2.2	35
1824	Direct Observations of Graphene Dispersed in Solution by Twilight Fluorescence Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2425-2431.	2.1	6
1825	Large-scalable RTCVD Graphene/PEDOT:PSS hybrid conductive film for application in transparent and flexible thermoelectric nanogenerators. <i>RSC Advances</i> , 2017, 7, 25237-25243.	1.7	46
1826	Galvanic Displaced Nickel-Silicon and Copper-Silicon Interfaces: A DFT Investigation. <i>ECS Transactions</i> , 2017, 75, 7-13.	0.3	1
1827	Rapid synthesis of a continuous graphene film by chemical vapor deposition on Cu foil with the various morphological conditions modified by Ar plasma. <i>Carbon</i> , 2017, 120, 176-184.	5.4	10
1828	Near-free-standing epitaxial graphene on rough SiC substrate by flash annealing at high temperature. <i>Carbon</i> , 2017, 120, 219-225.	5.4	20
1829	Highly active and durable nitrogen doped-reduced graphene oxide/double perovskite bifunctional hybrid catalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13019-13031.	5.2	45
1830	Two-dimensional tetragonal AlP monolayer: strain-tunable directâ€“indirect band-gap and semiconductorâ€“metal transitions. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5999-6004.	2.7	34
1831	A new route to synthesize polyaniline-grafted carboxyl-functionalized graphene composite materials with excellent electrochemical performance. <i>Iranian Polymer Journal (English Edition)</i> , 2017, 26, 423-430.	1.3	13
1832	Synthesis of very narrow multilayer graphene nanoribbon with turbostratic stacking. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	13
1833	Fast growth of Au-Pt bimetallic nanoparticles on SWCNTs: Composition dependent electrocatalytic activity towards glucose and hydrogen peroxide. <i>Journal of Electroanalytical Chemistry</i> , 2017, 798, 24-33.	1.9	22
1834	Graphene field effect transistors for highly sensitive and selective detection of K ⁺ ions. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 759-765.	4.0	61
1835	The solution plasma process for heteroatom-carbon nanosheets: the role of precursors. <i>Scientific Reports</i> , 2017, 7, 3825.	1.6	36
1836	A turn-on fluorescent lysine nanoprobe based on the use of the Alizarin Red aluminum(III) complex conjugated to graphene oxide, and its application to cellular imaging of lysine. <i>Mikrochimica Acta</i> , 2017, 184, 3521-3528.	2.5	12

#	ARTICLE	IF	CITATIONS
1837	Graphitic nanocapsules: design, synthesis and bioanalytical applications. <i>Nanoscale</i> , 2017, 9, 10529-10543.	2.8	10
1838	Transport properties in monolayer/bilayer monolayer graphene planar junctions. <i>Chinese Physics B</i> , 2017, 26, 067202.	0.7	2
1839	Enhanced supercapacitance behaviour of low energy ion beam reduced graphene oxide. <i>Materials Research Express</i> , 2017, 4, 065018.	0.8	7
1840	A nickel nanocatalyst within a h-BN shell for enhanced hydrogen oxidation reactions. <i>Chemical Science</i> , 2017, 8, 5728-5734.	3.7	113
1841	Highly efficient, large surface area and spherically shaped Pt particles deposited electrolytically synthesized graphene for methanol oxidation with impedance spectroscopy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16258-16268.	3.8	22
1842	Flexible Lithium-Ion Fiber Battery by the Regular Stacking of Two-Dimensional Titanium Oxide Nanosheets Hybridized with Reduced Graphene Oxide. <i>Nano Letters</i> , 2017, 17, 3543-3549.	4.5	148
1843	Selective Bromination of Graphene Oxide by the Hunsdiecker Reaction. <i>Chemistry - A European Journal</i> , 2017, 23, 10473-10479.	1.7	21
1844	Conductive graphene coatings synthesized from graphenide solutions. <i>Carbon</i> , 2017, 121, 217-225.	5.4	11
1845	Covalently Modified Graphenes in Catalysis, Electrocatalysis and Photoresponsive Materials. <i>Chemistry - A European Journal</i> , 2017, 23, 15244-15275.	1.7	39
1846	Investigation of structural morphology and electrical properties of graphene-C60hybrids. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2017, 35, 03D111.	0.6	1
1847	Atomic layer etching of graphene through controlled ion beam for graphene-based electronics. <i>Scientific Reports</i> , 2017, 7, 2462.	1.6	31
1848	An integrated and multi-purpose microscope for the characterization of atomically thin optoelectronic devices. <i>Review of Scientific Instruments</i> , 2017, 88, 055102.	0.6	18
1849	Quasi-free-standing graphene nano-islands on Ag(110), grown from solid carbon source. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	7
1850	Anomalous Nonlinear Optical Response of Graphene Near Phonon Resonances. <i>Nano Letters</i> , 2017, 17, 3447-3451.	4.5	23
1851	Preparation of TiO ₂ nanoparticles modified electrospun nanocomposite membranes toward efficient dye degradation for wastewater treatment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 78, 118-126.	2.7	44
1852	Substrate independent approach for synthesis of graphene platelet networks. <i>Nanotechnology</i> , 2017, 28, 255604.	1.3	2
1853	High-quality graphene synthesis on amorphous SiC through a rapid thermal treatment. <i>Carbon</i> , 2017, 124, 105-110.	5.4	10
1854	A versatile graphene foil. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14508-14513.	5.2	22

#	ARTICLE	IF	CITATIONS
1855	Chemical vapor deposition graphene combined with Pt nanoparticles applied in non-enzymatic sensing of ultralow concentrations of hydrogen peroxide. RSC Advances, 2017, 7, 30542-30547.	1.7	11
1856	Micro- and nano-patterned conductive graphene-PEG hybrid scaffolds for cardiac tissue engineering. Chemical Communications, 2017, 53, 7412-7415.	2.2	90
1857	Anisotropy of functional properties of SiC composites with GNPs, GO and in-situ formed graphene. Journal of the European Ceramic Society, 2017, 37, 3731-3739.	2.8	33
1858	Functionalised hexagonal-domain graphene for position-sensitive photodetectors. Nanotechnology, 2017, 28, 124004.	1.3	9
1859	High Mobility 2D Palladium Diselenide Field-Effect Transistors with Tunable Ambipolar Characteristics. Advanced Materials, 2017, 29, 1602969.	11.1	251
1860	Antibacterial potential of electrochemically exfoliated graphene sheets. Journal of Colloid and Interface Science, 2017, 500, 30-43.	5.0	31
1861	Improving the properties of a graphene resonator. Carbon, 2017, 114, 750.	5.4	0
1862	A powerful role of exfoliated metal oxide 2D nanosheets as additives for improving electrocatalyst functionality of graphene. Electrochimica Acta, 2017, 235, 720-729.	2.6	22
1863	Inducing the magnetic character in reduced graphene oxide through incorporation of Fe ₂ O ₃ nanoparticles. International Journal of Modern Physics B, 2017, 31, 1750118.	1.0	4
1864	Nano-Raman Scattering Microscopy: Resolution and Enhancement. Chemical Reviews, 2017, 117, 4983-5001.	23.0	80
1865	Different Synthesis Process of Carbon Nanomaterials for Biological Applications. , 2017, , 1-41.		6
1866	Ultra high stable supercapacitance performance of conducting polymer coated MnO ₂ nanorods/rGO nanocomposites. RSC Advances, 2017, 7, 20027-20036.	1.7	33
1867	Effects of graphene defects on gas sensing properties towards NO ₂ detection. Nanoscale, 2017, 9, 6085-6093.	2.8	78
1868	Synthesis of 3C-SiC nanowires from a graphene/Si configuration obtained by arc discharge method. Chemical Physics Letters, 2017, 678, 17-22.	1.2	12
1869	Graphene material preparation through thermal treatment of graphite oxide electrochemically synthesized in aqueous sulfuric acid. RSC Advances, 2017, 7, 19904-19911.	1.7	83
1870	Catalytic effect of low concentration carboxylated multi-walled carbon nanotubes on the oxidation of disinfectants with Cl-substituted structure by a Fenton-like system. Chemical Engineering Journal, 2017, 321, 325-334.	6.6	50
1871	Raman spectroscopy of biomedical polyethylenes. Acta Biomaterialia, 2017, 55, 28-99.	4.1	25
1872	Fracture mechanism and electromechanical behavior of chemical vapor deposited graphene on flexible substrate under tension. Carbon, 2017, 118, 475-484.	5.4	17

#	ARTICLE	IF	CITATIONS
1873	Flexible, thin films of graphene-polymer composites for EMI shielding. <i>Materials Research Express</i> , 2017, 4, 035605.	0.8	44
1874	Light-induced nonthermal population of optical phonons in nanocrystals. <i>Physical Review B</i> , 2017, 95, .	1.1	20
1875	The nanostructure of microbially-reduced graphene oxide fosters thick and highly-performing electrochemically-active biofilms. <i>Journal of Power Sources</i> , 2017, 356, 556-565.	4.0	20
1876	Graphite/Metal Electrodes for Electrochemical Exfoliation: Few Layers Graphene with Low Defects. <i>Defect and Diffusion Forum</i> , 2017, 371, 131-134.	0.4	1
1877	A sensitive reflection method for optical diagnostics of graphene layers. <i>Optik</i> , 2017, 138, 180-191.	1.4	3
1878	Centimeter-Scale CVD Growth of Highly Crystalline Single-Layer MoS ₂ Film with Spatial Homogeneity and the Visualization of Grain Boundaries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12073-12081.	4.0	120
1879	Large-area, high-quality monolayer graphene from polystyrene at atmospheric pressure. <i>Nanotechnology</i> , 2017, 28, 155605.	1.3	4
1880	Role of hydrogen diffusion in temperature-induced transformation of carbon nanostructures deposited on metallic substrates by using a specially designed fused hollow cathode cold atmospheric pressure plasma source. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 155207.	1.3	9
1881	A highly stable (SnO x -Sn)@few layered graphene composite anode of sodium-ion batteries synthesized by oxygen plasma assisted milling. <i>Journal of Power Sources</i> , 2017, 350, 1-8.	4.0	74
1882	Extended characterization methods for covalent functionalization of graphene on copper. <i>Carbon</i> , 2017, 118, 200-207.	5.4	19
1883	The covalent and non-covalent conjugation of graphene oxide with hydroxycamptothecin in hyperthermia for its anticancer activity. <i>Journal of Alloys and Compounds</i> , 2017, 709, 112-124.	2.8	10
1884	Rapid and Nondestructive Determination of Graphene Thickness with an all Dielectric Metasurface. <i>Plasmonics</i> , 2017, 12, 1685-1691.	1.8	2
1885	Synthesis and interface characterization of CNTs on graphene. <i>Nanotechnology</i> , 2017, 28, 054007.	1.3	12
1886	Graphene toxicity as a double-edged sword of risks and exploitable opportunities: a critical analysis of the most recent trends and developments. <i>2D Materials</i> , 2017, 4, 022001.	2.0	52
1887	Efficient Pt electrocatalysts supported onto flavin mononucleotide-exfoliated pristine graphene for the methanol oxidation reaction. <i>Electrochimica Acta</i> , 2017, 231, 386-395.	2.6	21
1888	A comparative study on few-layer graphene production by exfoliation of different starting materials in a low boiling point solvent. <i>FlatChem</i> , 2017, 1, 74-88.	2.8	47
1889	Dynamic stability of single-walled carbon nanotube embedded in a viscoelastic medium under the influence of the axially harmonic load. <i>Composite Structures</i> , 2017, 162, 227-243.	3.1	35
1890	Conjugated Polyelectrolyte/Graphene Hetero-Bilayer Nanocomposites Exhibit Temperature Switchable Type of Conductivity. <i>Advanced Electronic Materials</i> , 2017, 3, 1600515.	2.6	14

#	ARTICLE	IF	CITATIONS
1891	Few-layer graphene films prepared from commercial copper foil tape. <i>Journal of Materials Science</i> , 2017, 52, 4356-4366.	1.7	2
1892	Mechanism of Oxygen Reduction in Aprotic Li ⁺ Air Batteries: The Role of Carbon Electrode Surface Structure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1569-1577.	1.5	80
1893	Partial hydrogenation induced interaction in a graphene/SiO ₂ interface: irreversible modulation of device characteristics. <i>Nanoscale</i> , 2017, 9, 1662-1669.	2.8	18
1894	Graphene-nanosheet wrapped cobalt sulphide as a binder free hybrid electrode for asymmetric solid-state supercapacitor. <i>Journal of Power Sources</i> , 2017, 342, 652-665.	4.0	130
1895	Detection of chlorobenzene in water using a wettability-controlled three-dimensional graphene selective filter. <i>Applied Physics Express</i> , 2017, 10, 015101.	1.1	3
1896	Layer-Number Dependent Optical Properties of 2D Materials and Their Application for Thickness Determination. <i>Advanced Functional Materials</i> , 2017, 27, 1604468.	7.8	189
1897	Effects of ultraviolet nanosecond laser irradiation on structural modification and optical transmission of single layer graphene. <i>Applied Surface Science</i> , 2017, 398, 89-96.	3.1	9
1898	Graphene encapsulated Fe ₃ O ₄ nanorods assembled into a mesoporous hybrid composite used as a high-performance lithium-ion battery anode material. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1185-1193.	3.2	41
1899	Poly(Methyl Vinyl Ketone) as a Potential Carbon Fiber Precursor. <i>Chemistry of Materials</i> , 2017, 29, 780-788.	3.2	20
1900	Functionalization of Hydrogenated Chemical Vapour Deposition-Grown Graphene by On-Surface Chemical Reactions. <i>Chemistry - A European Journal</i> , 2017, 23, 4073-4078.	1.7	8
1901	Formation of few-layer graphene flake structures from graphite particles during thin film coating using dry spray deposition method. <i>Thin Solid Films</i> , 2017, 622, 34-40.	0.8	24
1902	Hybrid opto-chemical doping in Ag nanoparticle-decorated monolayer graphene grown by chemical vapor deposition probed by Raman spectroscopy. <i>Nanotechnology</i> , 2017, 28, 075707.	1.3	23
1903	Graphene-Carbon-Metal Composite Film for a Flexible Heat Sink. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40801-40809.	4.0	18
1904	Fabrication of Pt-Co NPs supported on nanoporous graphene as high-efficient catalyst for hydrolytic dehydrogenation of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26617-26625.	3.8	32
1905	Enhancement of thermal conductivity in polyamide-6/graphene composites via a "bridge effect" of silicon carbide whiskers. <i>RSC Advances</i> , 2017, 7, 46306-46312.	1.7	12
1906	Dual-wavelength, passively Q-switched thulium-doped fiber laser with N-doped graphene saturable absorber. <i>Optik</i> , 2017, 149, 391-397.	1.4	4
1907	Exfoliation Mechanism of Graphite Cathode in Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36702-36707.	4.0	50
1908	Far-field and near-field monitoring of hybridized optical modes from Au nanoprisms suspended on a graphene/Si nanopillar array. <i>Nanoscale</i> , 2017, 9, 16950-16959.	2.8	10

#	ARTICLE	IF	CITATIONS
1909	Probing the mechanical properties of carbon nanohorns subjected to uniaxial compression and hydrostatic pressure. <i>Carbon</i> , 2017, 125, 236-244.	5.4	9
1910	Recent advances in hybrid measurement methods based on atomic force microscopy and surface sensitive measurement techniques. <i>RSC Advances</i> , 2017, 7, 47464-47499.	1.7	22
1911	Sugar Cane-Converted Graphene-like Material for the Superhigh Adsorption of Organic Pollutants from Water via Coassembly Mechanisms. <i>Environmental Science & Technology</i> , 2017, 51, 12644-12652.	4.6	63
1912	Mesoporous Copper Nanoparticle Networks Decorated by Graphite Layers for Surface-Enhanced Raman Scattering Detection of Trace Analytes. <i>ChemPlusChem</i> , 2017, 82, 1290-1297.	1.3	0
1913	Ultrathin graphene nanosheets derived from rice husks for sustainable supercapacitor electrodes. <i>New Journal of Chemistry</i> , 2017, 41, 13792-13797.	1.4	91
1914	Protection of carbon steel corrosion in 3.5% NaCl medium by aryldiazonium grafted graphene coatings. <i>New Journal of Chemistry</i> , 2017, 41, 12470-12480.	1.4	63
1915	Evolution of the electronic band structure of twisted bilayer graphene upon doping. <i>Scientific Reports</i> , 2017, 7, 7611.	1.6	7
1916	Graphene-based ion-sensitive field effect transistor. , 2017, , .		2
1917	Fermi surface map of large-scale single-orientation graphene on SiO ₂ . <i>Journal of Physics Condensed Matter</i> , 2017, 29, 475001.	0.7	5
1918	Effect of carbide interlayers on the microstructure and properties of graphene-nanoplatelet-reinforced copper matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 708, 311-318.	2.6	65
1919	Carbon Nanotubes versus Graphene as Flexible Transparent Electrodes in Inverted Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5395-5401.	2.1	141
1920	Facile spectroscopic approach to obtain the optoelectronic properties of few-layered graphene oxide thin films and their role in photocatalysis. <i>New Journal of Chemistry</i> , 2017, 41, 14217-14227.	1.4	33
1921	Electrochemical Determination of the Serotonin Reuptake Inhibitor, Dapoxetine, Using Cesium-“Gold Nanoparticles. <i>ACS Omega</i> , 2017, 2, 6628-6635.	1.6	23
1922	Bulbous gold-“carbon nanodot hybrid nanoclusters for cancer therapy. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8591-8599.	2.9	14
1923	Early stages of diamond growth on substrates with different carbon diffusivity. <i>Diamond and Related Materials</i> , 2017, 80, 69-75.	1.8	5
1924	Effect of intermittent oxygen exposure on chemical vapor deposition of graphene. <i>MRS Communications</i> , 2017, 7, 826-831.	0.8	4
1925	Quantification and analysis of Raman spectra of graphene materials. <i>Graphene Technology</i> , 2017, 2, 47-62.	1.9	13
1926	2D Raman band splitting in graphene: Charge screening and lifting of the K-point Kohn anomaly. <i>Scientific Reports</i> , 2017, 7, 13539.	1.6	22

#	ARTICLE	IF	CITATIONS
1927	Spin independent magnetoresistance effects in vertical graphene spin valves. <i>Nanotechnology</i> , 2017, 28, 485202.	1.3	2
1928	Surface morphology, structural and electronic properties of graphene on Ge(111) via direct deposition of solid-state carbon atoms. <i>Thin Solid Films</i> , 2017, 639, 84-90.	0.8	7
1929	Covalent-Bonded Reduced Graphene Oxide-Fluorescein Complex as a Substrate for Extrinsic SERS Measurements. <i>ACS Omega</i> , 2017, 2, 4123-4131.	1.6	4
1930	Control of graphene surface wettability by using CF 4 plasma. <i>Surface and Coatings Technology</i> , 2017, 328, 89-93.	2.2	23
1931	Evolution of the Raman Spectrum with the Chemical Composition of Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20489-20497.	1.5	344
1932	Investigation of dielectric substrates on electrical and optical performance of wafer-scale graphene using non-contact methods. <i>Semiconductor Science and Technology</i> , 2017, 32, 105001.	1.0	1
1933	High yield, solid exfoliation and liquid dispersion of graphite driven by a donor-acceptor interaction. <i>Carbon</i> , 2017, 123, 695-707.	5.4	26
1934	Advances in transferring chemical vapour deposition graphene: a review. <i>Materials Horizons</i> , 2017, 4, 1054-1063.	6.4	121
1935	NiO-nanoflakes grafted graphene: an excellent photocatalyst and a novel nanomaterial for achieving complete pathogen control. <i>Nanoscale</i> , 2017, 9, 16321-16328.	2.8	44
1936	Top-Down Synthesis of Hollow Graphene Nanostructures for Use in Resistive Switching Memory Devices. <i>Advanced Electronic Materials</i> , 2017, 3, 1700264.	2.6	7
1937	CVD Synthesis of Graphene. , 2017, , 19-56.		9
1938	Multiwall carbon nanotubes filled with Al ₄ C ₃ : Spectroscopic signatures for electron-phonon coupling due to doping process. <i>Carbon</i> , 2017, 124, 348-356.	5.4	9
1939	Graphene Coating via Chemical Vapor Deposition for Improving Friction and Wear of Gray Cast Iron at Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32336-32351.	4.0	38
1940	Variable self-assembly and in situ host-guest reaction of beta-cyclodextrin-modified graphene oxide composite Langmuir films with azobenzene compounds. <i>RSC Advances</i> , 2017, 7, 41043-41051.	1.7	18
1941	Analyses of trace amounts of edge sites in natural graphite, synthetic graphite and high-temperature treated coke for the understanding of their carbon molecular structures. <i>Carbon</i> , 2017, 125, 146-155.	5.4	47
1942	Highly wear-resistant and low-friction Si ₃ N ₄ composites by addition of graphene nanoplatelets approaching the 2D limit. <i>Scientific Reports</i> , 2017, 7, 10087.	1.6	33
1943	Low-energy electron excitation effect on formation of graphene nanocrystallites during carbon film growth process. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	20
1944	Impedimetric investigation of dual electrical properties of reduced graphene-oxide-based biosensors in the detection of dopamine. , 2017, 2017, 4098-4101.		0

#	ARTICLE	IF	CITATIONS
1945	A generic method to synthesise graphitic carbon coated nanoparticles in large scale and their derivative polymer nanocomposites. <i>Scientific Reports</i> , 2017, 7, 11829.	1.6	13
1946	A new method for few-layer graphene preparation via plasma-assisted ball milling. <i>Journal of Alloys and Compounds</i> , 2017, 728, 578-584.	2.8	86
1947	Continuous Production of Graphite Nanosheets by Bubbling Chemical Vapor Deposition Using Molten Copper. <i>Chemistry of Materials</i> , 2017, 29, 8404-8411.	3.2	40
1948	Transparent Conducting Graphene Hybrid Films To Improve Electromagnetic Interference (EMI) Shielding Performance of Graphene. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34221-34229.	4.0	112
1949	Facile One-Pot Synthesis of Highly Stable Graphene-AgO Hybrid Nanostructures with Enhanced Optical Properties. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21591-21599.	1.5	6
1950	An easy approach to reveal the metallic nature of graphene by Breit-Wigner Fano lineshapes using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1318-1322.	1.2	3
1951	Reductive Functionalization of Graphenides With Nickel(II) Porphyrin Diazonium Compounds. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700306.	1.2	4
1952	Performance Evolution of Alkylation Graphene Oxide Reinforcing High-Density Polyethylene. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21685-21694.	1.5	16
1953	Non-enzymatic amperometric hydrogen peroxide sensor using a glassy carbon electrode modified with gold nanoparticles deposited on CVD-grown graphene. <i>Mikrochimica Acta</i> , 2017, 184, 4723-4729.	2.5	15
1954	A patterned single layer graphene resistance temperature sensor. <i>Scientific Reports</i> , 2017, 7, 8811.	1.6	117
1955	Carbon nanoflake-nanoparticle interface: A comparative study on structure and photoluminescent properties of carbon nanoflakes synthesized on nanostructured gold and carbon by hot filament CVD. <i>Carbon</i> , 2017, 124, 391-402.	5.4	12
1956	Surface enhanced infrared absorption spectroscopy for graphene functionalization on copper. <i>Carbon</i> , 2017, 124, 250-255.	5.4	9
1957	Towards large-scale in free-standing graphene and N-graphene sheets. <i>Scientific Reports</i> , 2017, 7, 10175.	1.6	71
1958	A novel electrochemical sensor based on calixarene functionalized reduced graphene oxide: Application to simultaneous determination of Fe(III), Cd(II) and Pb(II) ions. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 525-531.	5.0	114
1959	Facile fabrication of hierarchical diamond-based AuNPs-modified nanocomposites via layer-by-layer assembly with enhanced catalytic capacities. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 614-623.	2.7	11
1960	Seamless Staircase Electrical Contact to Semiconducting Graphene Nanoribbons. <i>Nano Letters</i> , 2017, 17, 6241-6247.	4.5	64
1961	Direct Electrophoretic Deposition of Binder-Free Co ₃ O ₄ /Graphene Sandwich-Like Hybrid Electrode as Remarkable Lithium Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32801-32811.	4.0	100
1962	Two-Dimensional Hallmark of Highly Interconnected Three-Dimensional Nanoporous Graphene. <i>ACS Omega</i> , 2017, 2, 3691-3697.	1.6	32

#	ARTICLE	IF	CITATIONS
1963	Ambient light induced antibacterial action of curcumin/graphene nanomesh hybrids. RSC Advances, 2017, 7, 36081-36092.	1.7	31
1964	Physicochemical characteristics of pristine and functionalized graphene. Journal of Applied Toxicology, 2017, 37, 1288-1296.	1.4	22
1965	Dense graphene nanoplatelet/yttria tetragonal zirconia composites: Processing, hardness and electrical conductivity. Ceramics International, 2017, 43, 11743-11752.	2.3	35
1966	Verification of the changes in the structural and physical properties of PU/PEO embedded with graphene oxide. Results in Physics, 2017, 7, 2427-2431.	2.0	8
1967	Defects-rich graphene/carbon quantum dot composites as highly efficient electrocatalysts for aqueous zinc/air batteries. International Journal of Hydrogen Energy, 2017, 42, 21305-21310.	3.8	34
1968	Growth of few- and multilayer graphene on different substrates using pulsed nanosecond Q-switched Nd:YAG laser. Journal of Materials Science, 2017, 52, 12295-12306.	1.7	11
1969	Scalable transfer of vertical graphene nanosheets for flexible supercapacitor applications. Nanotechnology, 2017, 28, 415702.	1.3	39
1970	Graphene gas sensing using a non-contact microwave method. Nanotechnology, 2017, 28, 395501.	1.3	2
1971	Inelastic electron tunneling into graphene nanostructures on a metal surface. Physical Review B, 2017, 95, .	1.1	18
1972	Drawn on Paper: A Reproducible Humidity Sensitive Device by Handwriting. ACS Applied Materials & Interfaces, 2017, 9, 28002-28009.	4.0	104
1973	Raman scattering excitation spectroscopy of monolayer WS ₂ . Scientific Reports, 2017, 7, 5036.	1.6	63
1974	Synthesis and characterization of boron carbon oxynitride films with tunable composition using methane, boric acid and ammonia. New Journal of Chemistry, 2017, 41, 9497-9504.	1.4	75
1975	Wafer-Scale Statistical Analysis of Graphene FETs—Part I: Wafer-Scale Fabrication and Yield Analysis. IEEE Transactions on Electron Devices, 2017, 64, 3919-3926.	1.6	9
1976	Chemical instability of graphene oxide following exposure to highly reactive radicals in advanced oxidation processes. Journal of Colloid and Interface Science, 2017, 507, 51-58.	5.0	20
1977	Layer-selective synthesis of bilayer graphene via chemical vapor deposition. 2D Materials, 2017, 4, 035023.	2.0	10
1978	Wafer-Scale Statistical Analysis of Graphene Field-Effect Transistors—Part II: Analysis of Device Properties. IEEE Transactions on Electron Devices, 2017, 64, 3927-3933.	1.6	14
1979	Enhanced electrocatalytic activity and durability of Pt nanoparticles decorated on GO-PVP hybrid material for methanol oxidation reaction. Applied Catalysis B: Environmental, 2017, 219, 511-516.	10.8	185
1980	Growth and characterization of ultrathin carbon films on electrodeposited Cu and Ni. Surface and Interface Analysis, 2017, 49, 1088-1094.	0.8	7

#	ARTICLE	IF	CITATIONS
1981	Single step vacuum-free and hydrogen-free synthesis of graphene. AIP Advances, 2017, 7, .	0.6	0
1982	Examining Inhomogeneous Degradation of Graphite/Carbon Black Composite Electrodes in Li-Ion Batteries by Lock-In Thermography. Journal of the Electrochemical Society, 2017, 164, A2251-A2255.	1.3	5
1983	Fire-resistant and highly electrically conductive silk fabrics fabricated with reduced graphene oxide via dry-coating. Materials and Design, 2017, 133, 528-535.	3.3	46
1984	Hydrogen evolution and capacitance behavior of Au/Pd nanoparticle-decorated graphene heterostructures. Applied Materials Today, 2017, 8, 125-131.	2.3	20
1985	Vibrations in Graphene. , 2017, , 71-89.		7
1986	Monolayer and bilayer graphene on polydimethylsiloxane as a composite membrane for gas barrier applications. Journal of Applied Polymer Science, 2017, 134, 45521.	1.3	10
1987	All-Graphene-Based Highly Flexible Noncontact Electronic Skin. ACS Applied Materials & Interfaces, 2017, 9, 44593-44601.	4.0	110
1988	A Nanopore Lithography Strategy for Synthesizing Hierarchically Micro/Mesoporous Carbons from ZIF-8/Graphene Oxide Hybrids for Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2017, 9, 44740-44755.	4.0	46
1989	Dysregulation of YAP by ARF Stimulated with Tea-derived Carbon Nanodots. Scientific Reports, 2017, 7, 16577.	1.6	15
1990	Growth of Graphene/h-BN Heterostructures on Recyclable Pt Foils by One-Batch Chemical Vapor Deposition. Scientific Reports, 2017, 7, 17083.	1.6	19
1991	Carbon nanohorns under cold compression to 40 GPa: Raman scattering and X-ray diffraction experiments. Applied Physics Letters, 2017, 111, 221905.	1.5	6
1992	Graphene growth controlled by the position and number of layers (n = 0, 1, and more than 2) using Ni and MgO patterned ultra-flat Cu foil. RSC Advances, 2017, 7, 52187-52191.	1.7	1
1993	Laterally Selective Oxidation of Large-Scale Graphene with Atomic Oxygen. Journal of Physical Chemistry C, 2017, 121, 27915-27922.	1.5	18
1994	Acousto-electric transport in MgO/ZnO-covered graphene on SiC. Journal Physics D: Applied Physics, 2017, 50, 464008.	1.3	8
1995	Study of the Substrate-Induced Strain of As-Grown Graphene on Cu(100) Using Temperature-Dependent Raman Spectroscopy: Estimating the Mode Grüneisen Parameter with Temperature. Journal of Physical Chemistry C, 2017, 121, 27427-27436.	1.5	18
1996	Natural Carbonized Sugar as a Low-Temperature Ammonia Sensor Material: Experimental, Theoretical, and Computational Studies. ACS Applied Materials & Interfaces, 2017, 9, 43051-43060.	4.0	32
1997	Oxygen-assisted synthesis of hexagonal boron nitride films for graphene transistors. Applied Physics Letters, 2017, 111, .	1.5	12
1998	Introduction of sulfur to graphene oxide by Friedel-Crafts reaction. FlatChem, 2017, 6, 28-36.	2.8	7

#	ARTICLE	IF	CITATIONS
1999	Recoil Effect and Photoemission Splitting of Trions in Monolayer MoS ₂ . ACS Nano, 2017, 11, 10808-10815.	7.3	11
2000	Toward fast growth of large area high quality graphene using a cold-wall CVD reactor. RSC Advances, 2017, 7, 51951-51957.	1.7	29
2001	Process optimization of graphene growth in a roll-to-roll plasma CVD system. AIP Advances, 2017, 7, .	0.6	33
2002	3D integrated monolayer grapheneâ€Si CMOS RF gas sensor platform. Npj 2D Materials and Applications, 2017, 1, .	3.9	38
2003	Imidazole-derived graphene nanocatalysts for organophosphate destruction: Powder and thin film heterogeneous reactions. Journal of Catalysis, 2017, 356, 75-84.	3.1	30
2004	Preparation of diamond-based AuNP-modified nanocomposites with elevated catalytic performances. RSC Advances, 2017, 7, 49923-49930.	1.7	15
2005	Graphene quantum dot-phthalocyanine polystyrene conjugate embedded in asymmetric polymer membranes for photocatalytic oxidation of 4-chlorophenol. Journal of Coordination Chemistry, 2017, 70, 3598-3618.	0.8	16
2006	Hollow Few-Layer Graphene-Based Structures from Parafilm Waste for Flexible Transparent Supercapacitors and Oil Spill Cleanup. ACS Applied Materials & Interfaces, 2017, 9, 40645-40654.	4.0	32
2007	Chemical Stability of Graphene Coated Silver Substrates for Surface-Enhanced Raman Scattering. Scientific Reports, 2017, 7, 14851.	1.6	51
2008	Chemical vapor deposition of partially oxidized graphene. RSC Advances, 2017, 7, 32209-32215.	1.7	4
2009	Lifting the mist of flatland: The recent progress in the characterizations of two-dimensional materials. Progress in Crystal Growth and Characterization of Materials, 2017, 63, 72-93.	1.8	12
2010	Sandwiched Thinâ€Film Anode of Chemically Bonded Black Phosphorus/Graphene Hybrid for Lithiumâ€Ion Battery. Small, 2017, 13, 1700758.	5.2	145
2011	Ordering Phenomena in Rare-Earth Nickelate Heterostructures. Springer Theses, 2017, , .	0.0	6
2012	Green synthesis of graphene from recycled PET bottle wastes for use in the adsorption of dyes in aqueous solution. Ecotoxicology and Environmental Safety, 2017, 145, 57-68.	2.9	180
2013	Extremely permeable porous graphene with high H ₂ /CO ₂ separation ability achieved by graphene surface rejection. Physical Chemistry Chemical Physics, 2017, 19, 18201-18207.	1.3	10
2014	Regenerated CO anti-poisoning ability by anchoring highly oxidized platinum on oxygen-functionalized carbon spheres in one-step & two-phase synthesis for methanol electro-oxidation. CrystEngComm, 2017, 19, 4815-4823.	1.3	3
2015	Chemical functionalization and characterization of graphene-based materials. Chemical Society Reviews, 2017, 46, 4464-4500.	18.7	356
2016	Superlubricity of a graphene/MoS ₂ heterostructure: a combined experimental and DFT study. Nanoscale, 2017, 9, 10846-10853.	2.8	133

#	ARTICLE	IF	CITATIONS
2017	Structural evolution of hydrothermal carbon spheres induced by high temperatures and their electrical properties under compression. <i>Carbon</i> , 2017, 121, 426-433.	5.4	25
2018	Ab initio calculation of the G peak intensity of graphene: Laser-energy and Fermi-energy dependence and importance of quantum interference effects. <i>Physical Review B</i> , 2017, 95, .	1.1	7
2019	Nitrogen plasma-treated multilayer graphene-based field effect transistor fabrication and electronic characteristics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 92, 41-46.	1.3	2
2020	Tuning the field emission of graphene-diamond hybrids by pulsed methane flow CVD. <i>Carbon</i> , 2017, 122, 726-736.	5.4	15
2021	Pervaporative performance of polydimethylsiloxane-graphene/polyethersulfone hybrid membrane: Effects of graphene structure and surface properties. <i>Chemical Engineering Research and Design</i> , 2017, 124, 181-192.	2.7	25
2022	Preparation of graphene oxide-polymer composite hydrogels via thiol-ene photopolymerization as efficient dye adsorbents for wastewater treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 668-676.	2.3	42
2023	Porous carbon films decorated with silver nanoparticles as a sensitive SERS substrate, and their application to virus identification. <i>Mikrochimica Acta</i> , 2017, 184, 3505-3511.	2.5	27
2024	Roles of cobalt doping on ethanol-sensing mechanisms of flame-spray-made SnO ₂ nanoparticles-electrolytically exfoliated graphene interfaces. <i>Applied Surface Science</i> , 2017, 425, 351-366.	3.1	27
2025	Graphene dispersions in alkanes: toward fast drying conducting inks. <i>Nanoscale</i> , 2017, 9, 9893-9901.	2.8	18
2026	Metal-catalyst-free growth of graphene on insulating substrates by ammonia-assisted microwave plasma-enhanced chemical vapor deposition. <i>RSC Advances</i> , 2017, 7, 33185-33193.	1.7	34
2027	Computer-controlled Raman microspectroscopy (CC-Raman): A method for the rapid characterization of individual atmospheric aerosol particles. <i>Aerosol Science and Technology</i> , 2017, 51, 1099-1112.	1.5	37
2028	Influence of graphene particles on the micro-arc oxidation behaviors of 6063 aluminum alloy and the coating properties. <i>Applied Surface Science</i> , 2017, 423, 939-950.	3.1	101
2029	Ultrafast sublattice pseudospin relaxation in graphene probed by polarization-resolved photoluminescence. <i>Physical Review B</i> , 2017, 95, .	1.1	9
2030	Hydrothermal growth of reduced graphene oxide on cotton fabric for enhanced ultraviolet protection applications. <i>Materials Letters</i> , 2017, 188, 123-126.	1.3	75
2031	Apoptotic and anti-apoptotic genes transcripts patterns of graphene in mice. <i>Materials Science and Engineering C</i> , 2017, 71, 460-464.	3.8	9
2032	Modeling Fe/N/C Catalysts in Monolayer Graphene. <i>ACS Catalysis</i> , 2017, 7, 139-145.	5.5	100
2033	Shape-Persistent Graphite Replica of Metal Wires. <i>Advanced Materials</i> , 2017, 29, 1603732.	11.1	2
2034	Activated carbon derived from tree bark biomass with promising material properties for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 859-872.	1.2	84

#	ARTICLE	IF	CITATIONS
2035	Boron- and nitrogen-doped single-walled carbon nanohorns with graphite-like thin sheets prepared by CO ₂ laser ablation method. <i>Carbon</i> , 2017, 111, 675-680.	5.4	27
2036	Doping of graphene for the application in nano-interconnect. <i>Microelectronic Engineering</i> , 2017, 167, 42-46.	1.1	12
2037	Thin-film composite forward osmosis membranes functionalized with graphene oxide-silver nanocomposites for biofouling control. <i>Journal of Membrane Science</i> , 2017, 525, 146-156.	4.1	180
2038	Raman spectroscopy of thin DLC film deposited by plasma electrolysis process. <i>Surface and Coatings Technology</i> , 2017, 309, 945-950.	2.2	28
2039	Low temperature growth of graphene using inductively-coupled plasma chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2017, 309, 814-819.	2.2	19
2040	Effect of Growth Temperature on Carbon Nanotube Grafting Morphology and Mechanical Behavior of Carbon Fibers and Carbon/Carbon Composites. <i>Journal of Materials Science and Technology</i> , 2017, 33, 65-70.	5.6	29
2041	Ionic liquid functionalized graphene oxide for enhancement of styrene-butadiene rubber nanocomposites. <i>Polymers for Advanced Technologies</i> , 2017, 28, 293-302.	1.6	50
2042	Positron emission tomography and nanotechnology: A dynamic duo for cancer theranostics. <i>Advanced Drug Delivery Reviews</i> , 2017, 113, 157-176.	6.6	153
2043	Preparation of graphene-nickel nanoparticles hybrid by spray pyrolysis using nickel oleate precursor and its application as a ferrofluid. <i>Inorganic and Nano-Metal Chemistry</i> , 2017, 47, 558-564.	0.9	1
2044	Ultraviolet illumination effect on monolayer graphene-based resistive sensor for acetone detection. <i>Vacuum</i> , 2017, 140, 89-95.	1.6	38
2045	Flexible Transparent Triboelectric Nanogenerators with Graphene and Indium Tin Oxide Electrode Structures. <i>Energy Technology</i> , 2017, 5, 599-603.	1.8	11
2046	Field emission characteristic study on bristling few-layer graphite/diamond composite film. <i>Diamond and Related Materials</i> , 2017, 73, 121-131.	1.8	5
2047	Ultrasonic-assisted cathodic electrochemical discharge for graphene synthesis. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 978-983.	3.8	21
2048	Elaboration and characterization of novel humidity sensor based on micro-carbonized bamboo particles. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 1251-1256.	4.0	44
2049	Rational design of multifunctional devices based on molybdenum disulfide and graphene hybrid nanostructures. <i>Applied Surface Science</i> , 2017, 392, 557-561.	3.1	10
2050	Time evolution of the growth of single graphene crystals and high resolution isotope labeling. <i>Carbon</i> , 2017, 111, 173-181.	5.4	6
2051	A novel one-step synthesis for carbon-based nanomaterials from polyethylene terephthalate (PET) bottles waste. <i>Journal of the Air and Waste Management Association</i> , 2017, 67, 358-370.	0.9	54
2052	STM tip-enhanced Raman spectroscopy and the investigation of doped graphene. <i>Vibrational Spectroscopy</i> , 2017, 91, 128-135.	1.2	10

#	ARTICLE	IF	CITATIONS
2053	Electric double layer capacitors for ac filtering made from vertically oriented graphene nanosheets on aluminum. <i>Carbon</i> , 2017, 111, 231-237.	5.4	64
2054	Bioapplications of graphene constructed functional nanomaterials. <i>Chemico-Biological Interactions</i> , 2017, 262, 69-89.	1.7	45
2055	Synergistic friction-reducing and anti-wear behaviors of graphene with micro- and nano-crystalline diamond films. <i>Diamond and Related Materials</i> , 2017, 73, 25-32.	1.8	28
2056	Liquid-phase growth of few-layered graphene on sapphire substrates using SiC micropowder source. <i>Journal of Crystal Growth</i> , 2017, 468, 175-178.	0.7	1
2057	Surfactant-free single-layer graphene in water. <i>Nature Chemistry</i> , 2017, 9, 347-352.	6.6	175
2058	EDOT polymerization at photolithographically patterned functionalized graphene. <i>Carbon</i> , 2017, 113, 33-39.	5.4	9
2060	RISE - Raman SEM Imaging of Single Layer and Twisted Bilayer Graphene. <i>Microscopy and Microanalysis</i> , 2017, 23, 1748-1749.	0.2	2
2061	Ultrafast dynamics induced by the interaction of molecules with electromagnetic fields: Several quantum, semiclassical, and classical approaches. <i>Structural Dynamics</i> , 2017, 4, 061509.	0.9	3
2062	Heptamethine Cyanine Dyes in the Design of Photoactive Carbon Nanomaterials. <i>ACS Omega</i> , 2017, 2, 9164-9170.	1.6	6
2063	Fabrication of free-standing reduced graphene oxide composite papers doped with different dyes and comparison of their electrochemical performance for electrocatalytical oxidation of nitrite. <i>Electrochimica Acta</i> , 2017, 258, 1376-1386.	2.6	25
2064	Evaluation of Graphene/WO ₃ and Graphene/CeO _x Structures as Electrodes for Supercapacitor Applications. <i>Nanoscale Research Letters</i> , 2017, 12, 635.	3.1	22
2065	Synthesis of Graphene by Magnetron-Plasma-Enhanced Chemical Vapor Deposition on Different Substrate Materials. <i>Journal of the Vacuum Society of Japan</i> , 2017, 60, 459-462.	0.3	1
2066	Thermal Stability of Single-layer Graphene Subjected to Confocal Laser Heating Investigated by Using in situ Anti-Stokes and Stokes Raman Spectroscopy. <i>Electrochemistry</i> , 2017, 85, 195-198.	0.6	6
2067	Local growth of graphene on Cu and Cu _{0.88} Ni _{0.12} foil substrates. , 2017, , .		0
2068	Phonon stiffen and soften at zigzag- and armchair-dominated edges of exfoliated bilayer graphene ribbon presented by Raman spectra. <i>EPJ Applied Physics</i> , 2017, 80, 30302.	0.3	0
2069	Structural and morphological investigation of graphene transferred by dry methods: Drop cast and lamination. , 2017, , .		0
2070	DNA/AuNP-graphene back-gated field effect transistor as a biosensor for lead (II) ion detection. , 2017, , .		5
2071	Characterization of graphene electrodes as piezoresistive SAW transducers. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
2072	RAMAN SPECTROSCOPY OF POLYMER-“CARBON NANOMATERIAL COMPOSITES. Rubber Chemistry and Technology, 2017, 90, 37-59.	0.6	11
2073	Asymmetry of Raman scattering by structure variation in space. Optics Express, 2017, 25, 18378.	1.7	4
2074	Simultaneous measurement of refractive index and flow rate using graphene-coated optofluidic anti-resonant reflecting guidance. Optics Express, 2017, 25, 28731.	1.7	15
2075	Simple light-emitting electrochemical cell using reduced graphene oxide and a ruthenium (II) complex. Applied Optics, 2017, 56, 6476.	0.9	14
2076	Effect of Precursor on Antifouling Efficacy of Vertically-Oriented Graphene Nanosheets. Nanomaterials, 2017, 7, 170.	1.9	18
2077	Wettability Investigations and Wet Transfer Enhancement of Large-Area CVD-Graphene on Aluminum Nitride. Nanomaterials, 2017, 7, 226.	1.9	7
2078	Graphene-Based Long-Period Fiber Grating Surface Plasmon Resonance Sensor for High-Sensitivity Gas Sensing. Sensors, 2017, 17, 2.	2.1	78
2079	Rubber nanocomposites with graphene as the nanofiller. , 2017, , 179-229.		18
2080	Biochars as Innovative Humidity Sensing Materials. Chemosensors, 2017, 5, 35.	1.8	23
2081	A Guide to and Review of the Use of Multiwavelength Raman Spectroscopy for Characterizing Defective Aromatic Carbon Solids: from Graphene to Amorphous Carbons. Coatings, 2017, 7, 153.	1.2	272
2082	Suppression of Graphene Nucleation by Turning Off Hydrogen Supply Just before Atmospheric Pressure Chemical Vapor Deposition Growth. Coatings, 2017, 7, 206.	1.2	12
2083	Electrodeposited Reduced Graphene Oxide Films on Stainless Steel, Copper, and Aluminum for Corrosion Protection Enhancement. International Journal of Corrosion, 2017, 2017, 1-8.	0.6	19
2084	Raman Spectroscopic Study of As-Deposited and Exfoliated Defected Graphene Grown on (001) Si Substrates by CVD. Journal of Spectroscopy, 2017, 2017, 1-8.	0.6	13
2085	Physical Properties Investigation of Reduced Graphene Oxide Thin Films Prepared by Material Inkjet Printing. Journal of Nanomaterials, 2017, 2017, 1-8.	1.5	39
2086	<i>Q</i> -factors of CVD monolayer graphene and graphite inductors. Journal Physics D: Applied Physics, 2017, 50, 345103.	1.3	11
2087	Graphene-Based Nanolayers Toward Energy Storage Device. , 2017, , 353-389.		5
2088	Raman Mapping Analysis of Graphene-Integrated Silicon Micro-Ring Resonators. Nanoscale Research Letters, 2017, 12, 600.	3.1	9
2089	Effect of High-Temperature Gas-Chemical Modification on the Structural and Functional Properties of Carbon Black Particles. Russian Journal of Applied Chemistry, 2017, 90, 1974-1981.	0.1	5

#	ARTICLE	IF	CITATIONS
2090	Characterization of graphene electrodes as piezoresistive SAW transducers. , 2017, , .		2
2091	Water-soluble polyaniline/graphene composites as materials for energy storage applications. EXPRESS Polymer Letters, 2017, 11, 127-139.	1.1	34
2092	A systematic study of the controlled generation of crystalline iron oxide nanoparticles on graphene using a chemical etching process. Beilstein Journal of Nanotechnology, 2017, 8, 2017-2025.	1.5	10
2093	Reduced Graphene Oxide Thin Films with Very Large Charge Carrier Mobility Using Pulsed Laser Deposition. Journal of Material Science & Engineering, 2017, 06, .	0.2	24
2094	Development of Graphene Oxide Composite Aerogel with Proanthocyanidins with Hemostatic Properties As a Delivery System. ACS Applied Materials & Interfaces, 2018, 10, 7717-7729.	4.0	54
2095	Nano-Architecture of nitrogen-doped graphene films synthesized from a solid CN source. Scientific Reports, 2018, 8, 3247.	1.6	72
2096	Effect of carbon nanotubes on the electromagnetic shielding properties of SiCf/SiC composites. Journal of Alloys and Compounds, 2018, 745, 90-99.	2.8	34
2097	Enhancing the electricity generation and sludge reduction of sludge microbial fuel cell with graphene oxide and reduced graphene oxide. Journal of Cleaner Production, 2018, 186, 104-112.	4.6	12
2098	Microstructure-tunable highly conductive graphene-metal composites achieved by inkjet printing and low temperature annealing. Journal of Micromechanics and Microengineering, 2018, 28, 035006.	1.5	4
2099	Plasma-electric field controlled growth of oriented graphene for energy storage applications. Journal Physics D: Applied Physics, 2018, 51, 145303.	1.3	22
2100	A novel elevated temperature pre-treatment for electrochemical capacity enhancement of graphene nanoflake-based anodes. Materials for Renewable and Sustainable Energy, 2018, 7, 1.	1.5	2
2101	Epitaxial ferromagnetic single clusters and smooth continuous layers on large area MgO/CVD graphene substrates. Materials Research Express, 2018, 5, 025606.	0.8	1
2102	Surface-engineering of layered LiNi _{0.815} Co _{0.15} Al _{0.035} O ₂ cathode material for high-energy and stable Li-ion batteries. Journal of Energy Chemistry, 2018, 27, 559-564.	7.1	38
2103	Low Frequency Raman Scattering of Two-Dimensional Materials Beyond Graphene. Springer Series in Surface Sciences, 2018, , 195-206.	0.3	0
2104	Effect of graphene nano-platelet reinforcement on the mechanical properties of hot pressed boron carbide based composite. Ceramics International, 2018, 44, 9830-9838.	2.3	38
2105	Ultrathin Active Layer for Transparent Electromagnetic Shielding Window. ACS Omega, 2018, 3, 2765-2772.	1.6	11
2106	Candle soot derived carbon nanodot/polyaniline hybrid materials through controlled grafting of polyaniline chains for supercapacitors. Journal of Materials Chemistry A, 2018, 6, 6476-6492.	5.2	49
2107	Thickness-controlled direct growth of nanographene and nanographite film on non-catalytic substrates. Nanotechnology, 2018, 29, 215711.	1.3	4

#	ARTICLE	IF	CITATIONS
2108	Fabrication of sub-nanometer pores on graphene membrane for ion selective transport. <i>Nanoscale</i> , 2018, 10, 5350-5357.	2.8	50
2109	Density functional theory calculations of the non-resonant and resonant X-ray emission spectroscopy of carbon fullerenes and nanotubes. <i>Chemical Physics Letters</i> , 2018, 696, 119-124.	1.2	10
2110	Bioinspired leaves-on-branchlet hybrid carbon nanostructure for supercapacitors. <i>Nature Communications</i> , 2018, 9, 790.	5.8	154
2111	Efficient detection of hazardous catechol and hydroquinone with MOF-rGO modified carbon paste electrode. <i>Journal of Hazardous Materials</i> , 2018, 353, 151-157.	6.5	128
2112	Plasmon-enhanced scattering and charge transfer in few-layer graphene interacting with buried printed 2D-pattern of silver nanoparticles. <i>Nanotechnology</i> , 2018, 29, 175301.	1.3	2
2113	Induced ferromagnetism in multilayered graphene in proximity with CoFe ₂ O ₄ . <i>AIP Advances</i> , 2018, 8, .	0.6	8
2114	Suspension and simple optical characterization of two-dimensional membranes. <i>Materials Research Express</i> , 2018, 5, 035023.	0.8	2
2115	Tunable Lifshitz Transitions and Multiband Transport in Tetralayer Graphene. <i>Physical Review Letters</i> , 2018, 120, 096802.	2.9	25
2116	Bimetallic junction mediated synthesis of multilayer graphene edges towards ultrahigh capacity for lithium ion batteries. <i>Nanoscale</i> , 2018, 10, 5214-5220.	2.8	4
2117	Electrochemical exfoliation of graphite to stage-III graphite bisulfate flakes in low concentration sulfuric acid solution: A novel synthesis route to completely trilayer graphene suspension. <i>Applied Surface Science</i> , 2018, 443, 157-166.	3.1	16
2118	Platinum-iron nanoparticles supported on reduced graphene oxide as an improved catalyst for methanol electro oxidation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6107-6116.	3.8	49
2119	Manipulating Spins at Molecular Level: An Insight into the Ferromagnet-Organic Interface. <i>Materials and Energy</i> , 2018, , 1-61.	2.5	3
2120	Biological recognition of graphene nanoflakes. <i>Nature Communications</i> , 2018, 9, 1577.	5.8	75
2121	Graphene decorated Pd-Ag nanoparticles for H ₂ sensing. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11397-11402.	3.8	44
2122	Optimising the visibility of graphene and graphene oxide on gold with multilayer heterostructures. <i>Nanotechnology</i> , 2018, 29, 275205.	1.3	14
2123	Carrier Transport in Reduced Graphene Oxide Probed Using Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10303-10308.	1.5	13
2124	Lattice Vibration and Raman Scattering in Anisotropic Black Phosphorus Crystals. <i>Small Methods</i> , 2018, 2, 1700409.	4.6	37
2125	Facile synthesis of stable colloidal suspension of amorphous carbon nanoparticles in aqueous medium and their characterization. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 120, 96-103.	1.9	5

#	ARTICLE	IF	CITATIONS
2126	Facile graphitization of silicon nano-particles with ethanol based chemical vapor deposition. Nano Structures Nano Objects, 2018, 16, 38-44.	1.9	20
2127	Phonon anomaly by massive Dirac fermions of graphene. Physical Review B, 2018, 97, .	1.1	1
2128	Electro-oxidized Monolayer CVD Graphene Film Transducer for Ultrasensitive Impedimetric DNA Biosensor. Electroanalysis, 2018, 30, 1791-1800.	1.5	22
2129	Micromechanics of reinforcement of a graphene-based thermoplastic elastomer nanocomposite. Composites Part A: Applied Science and Manufacturing, 2018, 110, 84-92.	3.8	53
2130	Graphene-PVA saturable absorber for generation of a wavelength-tunable passively Q-switched thulium-doped fiber laser in 2.0 μm . Laser Physics, 2018, 28, 055105.	0.6	17
2131	Graphene as a local probe to investigate near-field properties of plasmonic nanostructures. Physical Review B, 2018, 97, .	1.1	12
2132	Catalytic graphitization in nanocast carbon monoliths by iron, cobalt and nickel nanoparticles. Carbon, 2018, 134, 452-463.	5.4	132
2133	Detecting decompositions of sulfur hexafluoride using reduced graphene oxide decorated with Pt nanoparticles. Journal Physics D: Applied Physics, 2018, 51, 185304.	1.3	15
2134	Chemical activation of commercial CNTs with simultaneous surface deposition of manganese oxide nano flakes for the creation of CNTs-graphene supported oxygen reduction ternary composite catalysts applied in air fuel cell. Applied Surface Science, 2018, 447, 518-527.	3.1	8
2135	Graphene foam as a biocompatible scaffold for culturing human neurons. Royal Society Open Science, 2018, 5, 171364.	1.1	14
2136	Preparation of magnetic hierarchical porous carbon spheres with graphitic features for high methyl orange adsorption capacity. Carbon, 2018, 134, 207-221.	5.4	73
2137	Influence of ZnO/graphene nanolaminate periodicity on their structural and mechanical properties. Journal of Materials Science and Technology, 2018, 34, 1487-1493.	5.6	20
2138	Comparative analysis of graphene grown on copper and nickel sheet by microwave plasma chemical vapor deposition. Vacuum, 2018, 153, 48-52.	1.6	9
2139	Morphology controlled graphene-alloy nanoparticle hybrids with tunable carbon monoxide conversion to carbon dioxide. Nanoscale, 2018, 10, 8840-8850.	2.8	5
2140	Quantum transport through MoS ₂ constrictions defined by photodoping. Journal of Physics Condensed Matter, 2018, 30, 205001.	0.7	17
2141	Study on friction-electrification coupling in sliding-mode triboelectric nanogenerator. Nano Energy, 2018, 48, 456-463.	8.2	78
2142	Preparation of Mesoporous Carbon Materials through Mechanochemical Reaction of Calcium Carbide and Transition Metal Chlorides. Industrial & Engineering Chemistry Research, 2018, 57, 6180-6188.	1.8	17
2143	MEMS based highly sensitive dual FET gas sensor using graphene decorated Pd-Ag alloy nanoparticles for H ₂ detection. Scientific Reports, 2018, 8, 5902.	1.6	62

#	ARTICLE	IF	CITATIONS
2144	Critical Review“Experimental Diagnostics and Material Characterization Techniques Used on Redox Flow Batteries. Journal of the Electrochemical Society, 2018, 165, A970-A1010.	1.3	87
2145	Cyclic voltammetric preparation of graphene-coated electrodes for positive electrode materials of vanadium redox flow battery. Ionics, 2018, 24, 3641-3654.	1.2	37
2146	Structure dependent properties of carbon nanomaterials enabled fiber sensors for in situ monitoring of composites. Composite Structures, 2018, 195, 36-44.	3.1	68
2147	Oxygen reduction on graphene sheets functionalised by anthraquinone diazonium compound during electrochemical exfoliation of graphite. Electrochimica Acta, 2018, 267, 246-254.	2.6	25
2148	Potential oscillations affected by the electrochemical overoxidation of graphite in aqueous nitric acid. Electrochimica Acta, 2018, 267, 102-109.	2.6	20
2149	Ambient air synthesis of multi-layer CVD graphene films for low-cost, efficient counter electrode material in dye-sensitized solar cells. FlatChem, 2018, 8, 1-8.	2.8	7
2150	Edge-Contact Formed by Oxygen Plasma and Rapid Thermal Annealing to Improve Metal-Graphene Contact Resistance. ECS Journal of Solid State Science and Technology, 2018, 7, M11-M15.	0.9	4
2151	Topology and doping effects in three-dimensional nanoporous graphene. Carbon, 2018, 131, 258-265.	5.4	41
2152	Self-patterning of graphene-encapsulated gold nanoparticles for surface-enhanced Raman spectroscopy. MRS Communications, 2018, 8, 79-87.	0.8	7
2153	Graphitization of graphene oxide films under pressure. Carbon, 2018, 132, 294-303.	5.4	84
2154	Hierarchical porous framework of ultrasmall PtPd alloy-integrated graphene as active and stable catalyst for ethanol oxidation. Composites Part B: Engineering, 2018, 143, 96-104.	5.9	36
2155	Nitrogen-incorporated carbon nanotube derived from polystyrene and polypyrrole as hydrogen storage material. International Journal of Hydrogen Energy, 2018, 43, 5077-5088.	3.8	89
2156	Gypsum scale formation on graphene oxide modified reverse osmosis membrane. Journal of Membrane Science, 2018, 552, 132-143.	4.1	67
2157	Elucidating the Role of Oxidative Debris in the Antimicrobial Properties of Graphene Oxide. ACS Applied Nano Materials, 2018, 1, 1164-1174.	2.4	42
2158	Extreme temperature stability of thermally insulating graphene-mesoporous-silicon nanocomposite. Nanotechnology, 2018, 29, 145701.	1.3	9
2159	Thermal transport characterization of stanene/silicene heterobilayer and stanene bilayer nanostructures. Nanotechnology, 2018, 29, 185706.	1.3	19
2160	The electronic transport properties of defected bilayer sliding armchair graphene nanoribbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1040-1046.	0.9	13
2161	Significantly enhanced and precisely modeled thermal conductivity in polyimide nanocomposites with chemically modified graphene <i>via in situ</i> polymerization and electrospinning-hot press technology. Journal of Materials Chemistry C, 2018, 6, 3004-3015.	2.7	360

#	ARTICLE	IF	CITATIONS
2162	High performance metal-graphene-metal photodetector employing epitaxial graphene on SiC (0001) surface. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 5180-5185.	1.1	8
2163	Isotope- and Thickness-Dependent Friction of Water Layers Intercalated Between Graphene and Mica. <i>Tribology Letters</i> , 2018, 66, 1.	1.2	24
2164	Tip-Enhanced Raman Scattering of Nanocarbons. , 2018, , 323-360.		1
2165	Graphene as an active virtually massless top electrode for RF solidly mounted bulk acoustic wave (SMR-BAW) resonators. <i>Nanotechnology</i> , 2018, 29, 105302.	1.3	12
2166	Plasma Synthesis of Graphene from Mango Peel. <i>ACS Omega</i> , 2018, 3, 455-463.	1.6	51
2167	Adsorption of Dicamba herbicide onto a carbon replica obtained from a layered double hydroxide. <i>Dalton Transactions</i> , 2018, 47, 3119-3127.	1.6	10
2169	Layer-controllable graphene by plasma thinning and post-annealing. <i>Applied Surface Science</i> , 2018, 441, 639-646.	3.1	21
2170	Facile one-pot liquid exfoliation preparation of molybdenum sulfide and graphene heterojunction for photoelectrochemical performance. <i>Journal of Materials Science</i> , 2018, 53, 7744-7754.	1.7	18
2171	Effects of green laser fluence on the characteristics of graphene nanosheets synthesized by laser ablation method in liquid nitrogen medium. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	1.5	6
2172	Selective Proton/Deuteron Transport through Nafion Graphene Nafion Sandwich Structures at High Current Density. <i>Journal of the American Chemical Society</i> , 2018, 140, 1743-1752.	6.6	75
2173	Segregated reduced graphene oxide polymer composite as a high performance electromagnetic interference shield. <i>Research on Chemical Intermediates</i> , 2018, 44, 4707-4719.	1.3	33
2174	Nanostructured Biopolymer/Few-Layer Graphene Freestanding Films with Enhanced Mechanical and Electrical Properties. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700316.	1.7	6
2175	Raman spectroscopy of graphene under ultrafast laser excitation. <i>Nature Communications</i> , 2018, 9, 308.	5.8	70
2176	Addition of graphene sheets enhances reductive dissolution of arsenic and iron from arsenic contaminated soil. <i>Land Degradation and Development</i> , 2018, 29, 572-584.	1.8	18
2177	Raman spectroscopy of graphene-based materials and its applications in related devices. <i>Chemical Society Reviews</i> , 2018, 47, 1822-1873.	18.7	1,274
2178	High-yield single-step catalytic growth of graphene nanostripes by plasma enhanced chemical vapor deposition. <i>Carbon</i> , 2018, 129, 527-536.	5.4	20
2179	Friction-induced rapid restructuring of graphene nanocrystallite cap layer at sliding surfaces: Short run-in period. <i>Carbon</i> , 2018, 130, 215-221.	5.4	39
2180	Graphene oxide supported filtration of cesium from aqueous systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 539, 416-423.	2.3	17

#	ARTICLE	IF	CITATIONS
2181	Resonant Raman and Exciton Coupling in High-Quality Single Crystals of Atomically Thin Molybdenum Diselenide Grown by Vapor-Phase Chalcogenization. <i>ACS Nano</i> , 2018, 12, 740-750.	7.3	34
2182	Chemistry below graphene: Decoupling epitaxial graphene from metals by potential-controlled electrochemical oxidation. <i>Carbon</i> , 2018, 129, 837-846.	5.4	30
2183	Formation of graphene on amorphous SiC film by surface-confined heating with electron beam irradiation. <i>Current Applied Physics</i> , 2018, 18, 335-339.	1.1	2
2184	Chemical vapor deposition growth of scalable monolayer polycrystalline graphene films with millimeter-sized domains. <i>Materials Letters</i> , 2018, 215, 259-262.	1.3	18
2185	Monochromatic Photocathodes from Graphene-Stabilized Diamondoids. <i>Nano Letters</i> , 2018, 18, 1099-1103.	4.5	8
2186	Facile fabrication of ultrathin carbon layer encapsulated air-stable Mg nanoparticles with enhanced hydrogen storage properties. <i>Chemical Engineering Journal</i> , 2018, 337, 161-168.	6.6	26
2187	Preparation of bilayer graphene utilizing CuO as nucleation sites by CVD method. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4495-4502.	1.1	10
2188	Synthesis of biomass-derived 3D porous graphene-like via direct solid-state transformation and its potential utilization in lithium-ion battery. <i>Ionics</i> , 2018, 24, 1879-1886.	1.2	16
2189	Applications of Raman and Infrared Microscopy to Materials and Biology. , 2018, , 117-146.		9
2190	Self-assembled MoS ₂ /rGO nanocomposites with tunable UV-IR absorption. <i>RSC Advances</i> , 2018, 8, 2410-2417.	1.7	19
2191	Fabrication of sensitive bioelectrode based on atomically thin CVD grown graphene for cancer biomarker detection. <i>Biosensors and Bioelectronics</i> , 2018, 105, 173-181.	5.3	69
2192	Carbon Modification of Nickel Catalyst for Depolymerization of Oxidized Lignin to Aromatics. <i>ACS Catalysis</i> , 2018, 8, 1614-1620.	5.5	134
2193	Graphene fabrication via carbon segregation through transition metal films. <i>Thin Solid Films</i> , 2018, 648, 120-127.	0.8	5
2194	Three-Dimensional Graphene-Supported Cobalt Phthalocyanine as Advanced Electrocatalysts for Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2018, 165, F24-F31.	1.3	58
2195	Roles of sliding-induced defects and dissociated water molecules on low friction of graphene. <i>Scientific Reports</i> , 2018, 8, 121.	1.6	26
2196	A Simple Route to Porous Graphene from Carbon Nanodots for Supercapacitor Applications. <i>Advanced Materials</i> , 2018, 30, 1704449.	11.1	302
2197	Self-assembled diphenylalanine peptide microtubes covered by reduced graphene oxide/spiky nickel nanocomposite: An integrated nanobiomaterial for multifunctional applications. <i>Materials and Design</i> , 2018, 142, 149-157.	3.3	11
2198	Microwave-induced covalent functionalization of few-layer graphene with arynes under solvent-free conditions. <i>Chemical Communications</i> , 2018, 54, 2086-2089.	2.2	29

#	ARTICLE	IF	CITATIONS
2199	Monolayer CS as a metal-free photocatalyst with high carrier mobility and tunable band structure: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 065701.	0.7	2
2200	Characterization of three-dimensional reduced graphene oxide/copper oxide heterostructures for hydrogen sulfide gas sensing application. <i>Journal of Alloys and Compounds</i> , 2018, 740, 1024-1031.	2.8	25
2201	Determination of PMMA Residues on a Chemical-Vapor-Deposited Monolayer of Graphene by Neutron Reflection and Atomic Force Microscopy. <i>Langmuir</i> , 2018, 34, 1827-1833.	1.6	19
2202	Approaching completely continuous centimeter-scale graphene by copolymer-assisted transfer. <i>RSC Advances</i> , 2018, 8, 1725-1729.	1.7	2
2203	High-Contrast SEM Imaging of Supported Few-Layer Graphene for Differentiating Distinct Layers and Resolving Fine Features: There is Plenty of Room at the Bottom. <i>Small</i> , 2018, 14, e1704190.	5.2	20
2204	Fast room-temperature reduction of graphene oxide by methane/argon plasma for flexible electronics. <i>Applied Surface Science</i> , 2018, 452, 481-486.	3.1	48
2205	Graphene or carbon nanofiber-reinforced zirconia composites: Are they really worthwhile for structural applications?. <i>Journal of the European Ceramic Society</i> , 2018, 38, 3994-4002.	2.8	25
2206	Estimation of the Electron-Phonon Coupling Constants for Graphene and Metallic and Nonmetallic Substrates. <i>Physics of the Solid State</i> , 2018, 60, 812-820.	0.2	5
2207	Preparation of Ultrahigh Molecular Weight Polyethylene/Graphene Nanocomposite In situ Polymerization via Spherical and Sandwich Structure Graphene/Sio2 Support. <i>Nanoscale Research Letters</i> , 2018, 13, 105.	3.1	2
2208	Transfer-free chemical vapor deposition of graphene on silicon substrate at atmospheric pressure: A sacrificial catalyst. <i>Thin Solid Films</i> , 2018, 657, 55-60.	0.8	13
2209	Remote excitation and detection of surface-enhanced Raman scattering from graphene. <i>Nanoscale</i> , 2018, 10, 10498-10504.	2.8	18
2210	Characterization of reduced graphene oxide obtained from vacuum-assisted low-temperature exfoliated graphite. <i>Microsystem Technologies</i> , 2018, 24, 5007-5016.	1.2	12
2211	MoSe2/phosphorus-doped graphene nanocomposite: Synthesis and its electrochemical sodium-storage and catalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 551, 87-94.	2.3	19
2212	Electronic structure manipulation of graphene dots for effective hydrogen evolution from photocatalytic water decomposition. <i>Nanoscale</i> , 2018, 10, 10721-10730.	2.8	27
2213	Probing Graphene Interfacial Reactivity via Simultaneous and Colocalized Raman-Scanning Electrochemical Microscopy Imaging and Interrogation. <i>Analytical Chemistry</i> , 2018, 90, 7848-7854.	3.2	34
2214	A modular synthetic approach for band-gap engineering of armchair graphene nanoribbons. <i>Nature Communications</i> , 2018, 9, 1687.	5.8	59
2215	In situ generation of 3D graphene-like networks from cellulose nanofibres in sintered ceramics. <i>Nanoscale</i> , 2018, 10, 10488-10497.	2.8	13
2216	Conversion of waste tire rubber into a high-capacity adsorbent for the removal of methylene blue, methyl orange, and tetracycline from water. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 3070-3082.	3.3	54

#	ARTICLE	IF	CITATIONS
2217	Fluorination of nuclear graphite IG-110 in molten 2LiF-BeF ₂ (FLiBe) salt at 700°C. Journal of Fluorine Chemistry, 2018, 211, 159-170.	0.9	20
2218	Few layers graphene based conductive composite inks for Pt free stainless steel counter electrodes for DSSC. Solar Energy, 2018, 169, 67-74.	2.9	28
2219	Raman spectroscopy characterization of two-dimensional materials. Chinese Physics B, 2018, 27, 037802.	0.7	38
2220	Molecular Adsorption Mechanism of Elemental Carbon Particles on Leaf Surface. Environmental Science & Technology, 2018, 52, 5182-5190.	4.6	10
2221	Graphene Grown on Ni Foam: Molecular Sensing, Graphene-Enhanced Raman Scattering, and Galvanic Exchange for Surface-Enhanced Raman Scattering Applications. Journal of Physical Chemistry C, 2018, 122, 9152-9161.	1.5	15
2222	Effect of a Metal Substrate on Interlayer Interactions in Bilayer Graphene. Journal of Physical Chemistry C, 2018, 122, 8910-8918.	1.5	9
2223	Preparation, quantitative surface analysis, intercalation characteristics and industrial implications of low temperature expandable graphite. Applied Surface Science, 2018, 444, 800-810.	3.1	56
2224	Graphene as an Imaging Platform of Charged Molecules. ACS Omega, 2018, 3, 3137-3142.	1.6	15
2225	Integration of graphene onto silicon through electrochemical reduction of graphene oxide layers in non-aqueous medium. Applied Surface Science, 2018, 445, 404-414.	3.1	27
2226	Domain-boundary independency of Raman spectra for strained graphene at strong interfaces. Carbon, 2018, 134, 37-42.	5.4	24
2227	The Effect of Low Energy Nitrogen Ion Implantation on Graphene Nanosheets. Electronic Materials Letters, 2018, 14, 488-498.	1.0	7
2228	Cold Wall Chemical Vapor Deposition Graphene-Based Conductive Tunable Film Barrier. Industrial & Engineering Chemistry Research, 2018, 57, 4895-4906.	1.8	12
2229	Chevron-based graphene nanoribbon heterojunctions: Localized effects of lateral extension and structural defects on electronic properties. Carbon, 2018, 134, 310-315.	5.4	31
2230	Synthesis of transfer-free graphene on cemented carbide surface. Scientific Reports, 2018, 8, 4759.	1.6	7
2231	Spotting the differences in two-dimensional materials – the Raman scattering perspective. Chemical Society Reviews, 2018, 47, 3217-3240.	18.7	71
2232	Graphene enhanced flexible expanded graphite film with high electric, thermal conductivities and EMI shielding at low content. Carbon, 2018, 133, 435-445.	5.4	104
2233	Comparing space adaptability of diamond-like carbon and molybdenum disulfide films toward synergistic lubrication. Carbon, 2018, 134, 163-173.	5.4	70
2234	Tunable Graphene Metasurface Reflectarray for Cloaking, Illusion, and Focusing. Physical Review Applied, 2018, 9, .	1.5	93

#	ARTICLE	IF	CITATIONS
2235	Role of plasma-induced defects in the generation of 1/f noise in graphene. Applied Physics Letters, 2018, 112, .	1.5	6
2236	Enhanced photocatalytic performance of RGO/Ag nanocomposites produced via a facile microwave irradiation for the degradation of Rhodamine B in aqueous solution. Applied Surface Science, 2018, 444, 811-818.	3.1	48
2237	Improving Li-ion battery charge rate acceptance through highly ordered hierarchical electrode design. Ionics, 2018, 24, 2935-2943.	1.2	34
2238	Study of Ni-Catalyzed Graphitization Process of Diamond by <i>in Situ</i> X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 6629-6636.	1.5	22
2239	On the hydrogen evolution reaction activity of graphene-hBN van der Waals heterostructures. Physical Chemistry Chemical Physics, 2018, 20, 15007-15014.	1.3	41
2240	A combustion method to synthesize nanoporous graphene. RSC Advances, 2018, 8, 9320-9326.	1.7	1
2241	Interplay of valley selection and helicity exchange of light in Raman scattering for graphene and MoS_2 . Physical Review B, 2018, 97, .	1.1	27
2242	Synthesis of graphenic nanomaterials by decomposition of methane on a Ni-Cu/biomorphic carbon catalyst. Kinetic and characterization results. Catalysis Today, 2018, 299, 67-79.	2.2	19
2243	Strong negative terahertz photoconductivity in photoexcited graphene. Optics Communications, 2018, 406, 234-238.	1.0	7
2244	Hall effect biosensors with ultraclean graphene film for improved sensitivity of label-free DNA detection. Biosensors and Bioelectronics, 2018, 99, 85-91.	5.3	60
2245	Mildred S. Dresselhaus (1930-2017). Journal of Raman Spectroscopy, 2018, 49, 13-18.	1.2	3
2246	Resonance Raman effects in transition metal dichalcogenides. Journal of Raman Spectroscopy, 2018, 49, 66-75.	1.2	43
2247	Aging effects on vertical graphene nanosheets and their thermal stability. Indian Journal of Physics, 2018, 92, 337-342.	0.9	35
2248	Development of asymmetric supercapacitors with titanium carbide-reduced graphene oxide couples as electrodes. Electrochimica Acta, 2018, 259, 752-761.	2.6	103
2249	Influence of the Hybrid Combination of Multiwalled Carbon Nanotubes and Graphene Oxide on Interlaminar Mechanical Properties of Carbon Fiber/Epoxy Laminates. Applied Composite Materials, 2018, 25, 1115-1131.	1.3	62
2250	Improved electrical and thermal conductivities of polysiloxane-derived silicon oxycarbide ceramics by barium addition. Journal of the European Ceramic Society, 2018, 38, 487-493.	2.8	32
2251	Alumina-graphene nanocomposite coatings fabricated by suspension high velocity oxy-fuel thermal spraying for ultra-low-wear. Journal of the European Ceramic Society, 2018, 38, 1819-1828.	2.8	49
2252	Friction-induced nano-structural evolution of graphene as a lubrication additive. Applied Surface Science, 2018, 434, 21-27.	3.1	175

#	ARTICLE	IF	CITATIONS
2253	Au-Pt bimetallic nanoparticles decorated on sulfonated nitrogen sulfur co-doped graphene for simultaneous determination of dopamine and uric acid. <i>Talanta</i> , 2018, 178, 315-323.	2.9	56
2254	Brominated graphene as a versatile precursor for multifunctional grafting. <i>Chemical Science</i> , 2018, 9, 209-217.	3.7	39
2255	Raman spectroscopy in black phosphorus. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 76-90.	1.2	115
2256	Long-term air-stable Au doping of graphene by layer-by-layer assembly with graphene oxide for flexible transparent electrodes. <i>Carbon</i> , 2018, 126, 241-246.	5.4	20
2257	Thermal management of lithium ion batteries using graphene coated nickel foam saturated with phase change materials. <i>International Journal of Thermal Sciences</i> , 2018, 124, 23-35.	2.6	191
2258	Enhanced thermal conductivity of graphene/polyimide hybrid film via a novel "molecular welding" strategy. <i>Carbon</i> , 2018, 126, 319-327.	5.4	92
2259	Evaluating arbitrary strain configurations and doping in graphene with Raman spectroscopy. <i>2D Materials</i> , 2018, 5, 015016.	2.0	95
2260	Preparation of graphene and its application in polycarbonate/acrylonitrile-butadiene-styrene composites. <i>Journal of Polymer Engineering</i> , 2018, 38, 399-407.	0.6	3
2261	Tip-enhanced Raman scattering of graphene. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 157-167.	1.2	23
2262	Graphene dispersion in a surfactant-free, polar solvent. <i>Journal of Materials Science</i> , 2018, 53, 559-572.	1.7	9
2263	The critical role of bulk density of graphene oxide in tuning its defect concentration through microwave-driven annealing. <i>Journal of Energy Chemistry</i> , 2018, 27, 1468-1474.	7.1	6
2264	Polyaniline precursor with surfactant "monomer function for the synthesis of graphite nanosheet/polyaniline composites. <i>Polymer Bulletin</i> , 2018, 75, 2339-2355.	1.7	3
2265	Unique synergistic effects of graphene oxide and carbon nanotube hybrids on the tribological properties of polyimide nanocomposites. <i>Tribology International</i> , 2018, 117, 217-224.	3.0	140
2266	Ultrasensitive and selective non-enzymatic electrochemical glucose sensor based on hybrid material of graphene nanosheets/graphene nanoribbons/nickel nanoparticle. <i>Materials Research Bulletin</i> , 2018, 98, 300-307.	2.7	40
2267	Graphene. , 2018, , 197-228.		4
2268	Hyperspectral Raman imaging using Bragg tunable filters of graphene and other low-dimensional materials. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 174-182.	1.2	32
2269	Smooth epitaxial copper film on sapphire surface suitable for high quality graphene growth. <i>Thin Solid Films</i> , 2018, 646, 12-16.	0.8	8
2270	Selective detection of organophosphate through molecularly imprinted GERS "active hybrid organic "inorganic materials. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 189-197.	1.2	10

#	ARTICLE	IF	CITATIONS
2271	Reinforcement of the mechanical properties in nitrile rubber by adding graphene oxide/silicon dioxide hybrid nanoparticles. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46091.	1.3	27
2272	A biosupramolecular approach to graphene: Complementary nucleotide-nucleobase combinations as enhanced stabilizers towards aqueous-phase exfoliation and functional graphene-nucleotide hydrogels. <i>Carbon</i> , 2018, 129, 321-334.	5.4	5
2273	Direct formation of wafer-scale single-layer graphene films on the rough surface substrate by PECVD. <i>Carbon</i> , 2018, 129, 456-461.	5.4	60
2274	Role of Cu foil in-situ annealing in controlling the size and thickness of CVD graphene domains. <i>Carbon</i> , 2018, 129, 270-280.	5.4	61
2275	Reduction of Graphene Oxide Thin Films by Cobaltocene and Decamethylcobaltocene. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2004-2015.	4.0	22
2276	Effect of graphene thickness on the morphology evolution of hierarchical NiCoO ₂ architectures and their superior supercapacitance performance. <i>Ceramics International</i> , 2018, 44, 4875-4882.	2.3	19
2277	Synthesis and Characterization of Graphene/ITO Nanoparticle Hybrid Transparent Conducting Electrode. <i>Nano-Micro Letters</i> , 2018, 10, 18.	14.4	25
2278	A Wireless Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2018, 8, 1702736.	10.2	100
2279	Honey mediated green synthesis of graphene based NiO ₂ /Cu ₂ O nanocomposite (Gr@NiO ₂ /Cu ₂ O NCs): Catalyst for the synthesis of functionalized Schiff-base derivatives. <i>Journal of Alloys and Compounds</i> , 2018, 738, 56-71.	2.8	20
2280	Electrochemically reduced graphene oxide on gold nanoparticles modified with a polyoxomolybdate film. Highly sensitive non-enzymatic electrochemical detection of H ₂ O ₂ . <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 745-756.	4.0	52
2281	Lattice-Matched Epitaxial Graphene Grown on Boron Nitride. <i>Nano Letters</i> , 2018, 18, 498-504.	4.5	39
2282	Size-Controlled Graphene Nanodot Arrays/ZnO Hybrids for High-Performance UV Photodetectors. <i>Advanced Science</i> , 2018, 5, 1700334.	5.6	70
2283	Origin of Voltage-Dependent High Ideality Factors in Graphene-Silicon Diodes. <i>Advanced Electronic Materials</i> , 2018, 4, 1700317.	2.6	14
2284	Mineral additive enhanced carbon retention and stabilization in sewage sludge-derived biochar. <i>Chemical Engineering Research and Design</i> , 2018, 115, 70-78.	2.7	57
2285	Graphene as plasma-compatible blocking layer material for area-selective atomic layer deposition: A feasibility study for III-nitrides. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, 01A107.	0.9	4
2286	Humidity and CO ₂ gas sensing properties of double-layer graphene. <i>Carbon</i> , 2018, 127, 576-587.	5.4	66
2287	Probing the shear and layer breathing modes in multilayer graphene by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 19-30.	1.2	31
2288	A spin crossover (SCO) active graphene-iron (<sc>Fe</sc>) complex hybrid material. <i>Dalton Transactions</i> , 2018, 47, 35-40.	1.6	23

#	ARTICLE	IF	CITATIONS
2289	Raman bands of twisted bilayer graphene. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 31-35.	1.2	12
2290	Investigation on tip enhanced Raman spectra of graphene. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 190, 378-382.	2.0	17
2291	Application of Wavelet Transform to the Raman 2D Peak Components Analysis for Tri- and Tetralayer Graphene. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2018, 125, 619-626.	0.2	2
2292	The influence of graphene on silver oxide synthesis through microwave assisted method. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	5
2293	White-Light Photosensors Based on Ag Nanoparticle-Reduced Graphene Oxide Hybrid Materials. <i>Micromachines</i> , 2018, 9, 655.	1.4	12
2294	Graphene Field-Effect Transistor for Terahertz Modulation. , 0, , .		2
2295	Novel One Pot Synthesis of Alkaline-reduced Iron Oxide/graphene Nanocomposites for Amperometric Non- enzymatic Glucose Sensor. <i>International Journal of Electrochemical Science</i> , 2018, , 9200-9213.	0.5	4
2296	Scalable Production of Graphene/Semiconducting Single-Wall Carbon Nanotube Film Schottky Broadband Photodiode Array with Enhanced Photoresponse. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2369.	1.3	3
2297	Surface-Enhanced Raman Spectroscopy Characterization of Pristine and Functionalized Carbon Nanotubes and Graphene. , 0, , .		6
2298	Simulation of the Raman spectroscopy of multi-layered carbon nanomaterials. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28001-28010.	1.3	8
2299	WS ₂ -induced enhanced optical absorption and efficiency in graphene/silicon heterojunction photovoltaic cells. <i>Nanoscale</i> , 2018, 10, 20218-20225.	2.8	17
2300	Assembly of graphene nanoflake-quantum dot hybrids in aqueous solution and their performance in light-harvesting applications. <i>Nanoscale</i> , 2018, 10, 19678-19683.	2.8	4
2301	Role of the Cu substrate in the growth of ultra-flat crack-free highly-crystalline single-layer graphene. <i>Nanoscale</i> , 2018, 10, 21898-21909.	2.8	24
2302	Preparation of self-healing polyurethane/functionalized graphene nanocomposites as electro-conductive one part adhesives. <i>RSC Advances</i> , 2018, 8, 31094-31105.	1.7	11
2303	A new strategy for the construction of 3D TiO ₂ nanowires/reduced graphene oxide for high-performance lithium/sodium batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24256-24266.	5.2	43
2304	Comparative Studies on The Transfer of Chemical Vapor Deposition Grown Graphene Using Either Electrochemical Delamination or Chemical Etching Method. <i>Journal of Physics: Conference Series</i> , 2018, 1083, 012038.	0.3	3
2305	Advanced ta-C Coating with updated Fundamentals for Energy Production Efficiency Increase. <i>Materials Today: Proceedings</i> , 2018, 5, 13816-13826.	0.9	0
2306	Treatment of graphene films in the early and late afterglows of N ₂ plasmas: comparison of the defect generation and N-incorporation dynamics. <i>Plasma Sources Science and Technology</i> , 2018, 27, 124004.	1.3	11

#	ARTICLE	IF	CITATIONS
2307	High Performance Acetylene Sensor with Heterostructure Based on WO ₃ Nanolamellae/Reduced Graphene Oxide (rGO) Nanosheets Operating at Low Temperature. <i>Nanomaterials</i> , 2018, 8, 909.	1.9	26
2308	Formation Mechanism and Cohesive Energy Analysis of Metal-Coated Graphene Nanocomposites Using In-Situ Co-Reduction Method. <i>Materials</i> , 2018, 11, 2071.	1.3	10
2309	Electronic Properties. <i>Springer Theses</i> , 2018, , 9-41.	0.0	0
2310	Ethanol-CVD Growth of Sub-mm Single-Crystal Graphene on Flat Cu Surfaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28830-28838.	1.5	23
2311	Review of Graphene Growth From a Solid Carbon Source by Pulsed Laser Deposition (PLD). <i>Frontiers in Chemistry</i> , 2018, 6, 572.	1.8	78
2312	Friction and Adhesion of Different Structural Defects of Graphene. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44614-44623.	4.0	39
2313	Mechanically Assembled, Three-Dimensional Hierarchical Structures of Cellular Graphene with Programmed Geometries and Outstanding Electromechanical Properties. <i>ACS Nano</i> , 2018, 12, 12456-12463.	7.3	48
2314	Atomistic modeling of the infrared response of fullerenes under hydrostatic pressure. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 474001.	0.7	1
2315	Tension-Induced Raman Spectrum Enhanced Phenomena of Graphene Membrane. , 2018, , .		2
2316	Strain Engineering in Highly Wrinkled CVD Graphene/Epoxy Systems. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43192-43202.	4.0	14
2317	A simple ultrasonic-synthetic route of Cu ₂ Se-graphene-TiO ₂ ternary composites for carbon dioxide conversion processes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 827-836.	1.0	17
2318	Time-order Phonon Scattering Processes are Responsible for the Asymmetric G* Raman Band in Graphene. <i>Recent Patents on Materials Science</i> , 2018, 11, 24-32.	0.5	2
2319	Graphene Nanocomposites Studied by Raman Spectroscopy. , 0, , .		43
2321	Laser power influence on Raman spectra of multilayer graphene, multilayer graphene oxide and reduced multilayer graphene oxide. <i>Journal of Physics: Conference Series</i> , 2018, 1143, 012020.	0.3	6
2322	Preparation of Graphene on Copper Substrates of Various Geometries by Chemical Vapor Deposition. <i>Inorganic Materials</i> , 2018, 54, 1205-1215.	0.2	3
2323	Effect and Characterization of Stone-Wales Defects on Graphene Quantum Dot: A First-Principles Study. <i>Condensed Matter</i> , 2018, 3, 50.	0.8	10
2324	Advancing the Use of High-Performance Graphene-Based Multimodal Polymer Nanocomposite at Scale. <i>Nanomaterials</i> , 2018, 8, 947.	1.9	8
2325	Laser-Based Texturing of Graphene to Locally Tune Electrical Potential and Surface Chemistry. <i>ACS Omega</i> , 2018, 3, 17000-17009.	1.6	11

#	ARTICLE	IF	CITATIONS
2326	Interfacial Mechanical Properties of Double-Layer Graphene with Consideration of the Effect of Stacking Mode. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44941-44949.	4.0	21
2327	2D-Layer-Dependent Behavior in Lateral Au/WS ₂ /Graphene Photodiode Devices with Optical Modulation of Schottky Barriers. <i>ACS Applied Nano Materials</i> , 2018, 1, 6874-6881.	2.4	22
2328	A Novel Approach to Facile Synthesis and Biosensing of the Protein-Regulated Graphene. <i>International Journal of Electrochemical Science</i> , 2018, 13, 886-897.	0.5	32
2329	Basic Concepts and Recent Advances of Crystallographic Orientation Determination of Graphene by Raman Spectroscopy. <i>Crystals</i> , 2018, 8, 375.	1.0	21
2330	Modification of Graphene on a Copper Grid during Femtosecond Laser Irradiation: Electron Diffraction and Raman Spectroscopy Studies. <i>Journal of Experimental and Theoretical Physics</i> , 2018, 127, 422-429.	0.2	1
2331	Growth and Structural Properties of Graphene Oxide Thin Film with Spray Pyrolysis Technique. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 409, 012007.	0.3	3
2332	Electrochemical Modification of Large Area Graphene and Characterization by Vibrational Spectroscopy. , 2018, , 80-94.		4
2333	Doping Graphene into Monodispersed Fe ₃ O ₄ Microspheres with Droplet Microfluidics for Enhanced Electrochemical Performance in Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2018, 2, 49.	2.4	3
2334	The chemical functionalization of graphene nanoplatelets through solvent-free reaction. <i>RSC Advances</i> , 2018, 8, 33564-33573.	1.7	15
2335	Enhancement of Heat Dissipation in LED Using Graphene and Carbon Nanotubes. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, M153-M160.	0.9	7
2336	Catalytic investigation of PtPd and titanium oxide-loaded reduced graphene oxide for enhanced formic acid electrooxidation. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	8
2337	Direct CVD Growth of Graphene on Technologically Important Dielectric and Semiconducting Substrates. <i>Advanced Science</i> , 2018, 5, 1800050.	5.6	81
2338	Stack of Graphene/Copper Foils/Graphene by Low-Pressure Chemical Vapor Deposition as a Thermal Interface Material. <i>Journal of Electronic Materials</i> , 2018, 47, 7476-7483.	1.0	0
2339	Enhancement of thermoelectric figure-of-merit of graphene upon BN-doping and sample length reduction. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	8
2340	Vibrational Signatures of Carboxylated Graphene: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24996-25006.	1.5	5
2341	Suppressing Grain Growth on Cu Foil Using Graphene. <i>Coatings</i> , 2018, 8, 334.	1.2	1
2342	Photocurrent generation of biohybrid systems based on bacterial reaction centers and graphene electrodes. <i>Diamond and Related Materials</i> , 2018, 89, 286-292.	1.8	6
2343	Gas-Permeable, Multifunctional On-Skin Electronics Based on Laser-Induced Porous Graphene and Sugar-Templated Elastomer Sponges. <i>Advanced Materials</i> , 2018, 30, e1804327.	11.1	269

#	ARTICLE	IF	CITATIONS
2344	Selectively Patterned Regrowth of Bilayer Graphene for Self-Integrated Electronics by Sequential Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40014-40023.	4.0	14
2345	Development of graphene capped silicon "silicon oxide core" shell nano-structure: Charge trapping characteristics at the interfaces. <i>Applied Materials Today</i> , 2018, 13, 370-380.	2.3	9
2346	Supercritical CO ₂ -Fluid-Assisted Synthesis of TiO ₂ Quantum Dots/Reduced Graphene Oxide Composites for Outstanding Sodium Storage Capability. <i>ACS Applied Energy Materials</i> , 2018, 1, 7213-7219.	2.5	17
2347	Influence of seawater ageing on the mechanical and damage self-sensing capability of glass fiber-MWCNT/epoxy laminates subjected to flexural loading by means of the electrical resistance approach. <i>Smart Materials and Structures</i> , 2018, 27, 125002.	1.8	16
2348	Catalyst-free, tunable doping content of graphitic-N in arc-discharged graphene via gas and solid nitrogen sources and their formation mechanisms. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	4
2349	Low-cost synthesis of high-quality graphene in do-it-yourself CVD reactor. <i>Automatika</i> , 2018, 59, 254-260.	1.2	6
2350	Effects of wavelength and fluence on the graphene nanosheets produced by pulsed laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	13
2351	Graphene like porous carbon with wood-ear architecture prepared from specially pretreated lignin precursor. <i>Diamond and Related Materials</i> , 2018, 90, 109-115.	1.8	17
2352	Composites with carbon nanotubes and graphene: An outlook. <i>Science</i> , 2018, 362, 547-553.	6.0	662
2353	Graphene-Like Nanoflakes for Shock Absorption Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 6027-6037.	2.4	33
2354	Physical and Chemical Considerations for Improving Catalytic Activity and Stability of Non-Precious-Metal Oxygen Reduction Reaction Catalysts. <i>ACS Catalysis</i> , 2018, 8, 11264-11276.	5.5	101
2355	Defect sizing, separation, and substrate effects in ion-irradiated monolayer two-dimensional materials. <i>Physical Review B</i> , 2018, 98, .	1.1	46
2356	One-pot Synthesis of Fe ₂ O ₃ /PEDOT/rGO Nanocomposite for Sensitive Determination of Caffeine. <i>International Journal of Electrochemical Science</i> , 2018, , 6791-6802.	0.5	11
2357	High-Performance Two-Dimensional Schottky Diodes Utilizing Chemical Vapour Deposition-Grown Graphene "MoS ₂ Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37258-37266.	4.0	30
2358	Divergent mechanisms for thermal reduction of graphene oxide and their highly different ion affinities. <i>Diamond and Related Materials</i> , 2018, 89, 246-256.	1.8	52
2359	Concentric and Spiral Few-Layer Graphene: Growth Driven by Interfacial Nucleation vs Screw Dislocation. <i>Chemistry of Materials</i> , 2018, 30, 6858-6866.	3.2	21
2360	Ultrahigh Photoresponsive Device Based on ReS ₂ /Graphene Heterostructure. <i>Small</i> , 2018, 14, e1802593.	5.2	75
2361	A study of FeN /C catalysts for the selective oxidation of unsaturated alcohols by molecular oxygen. <i>Journal of Catalysis</i> , 2018, 367, 16-26.	3.1	29

#	ARTICLE	IF	CITATIONS
2362	Effect of seawater ageing on interlaminar fracture toughness of carbon fiber/epoxy composites containing carbon nanofillers. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 1346-1359.	1.6	16
2363	Graphene-based nanoplatforms for surface-enhanced Raman scattering sensing. <i>Analyst, The</i> , 2018, 143, 5074-5089.	1.7	50
2364	Coherence in defect evolution data for the ion beam irradiated graphene. <i>Scientific Reports</i> , 2018, 8, 13973.	1.6	3
2365	Direct Synthesis of Graphene Quantum Dots with Different Fluorescence Properties by Oxidation of Graphene Oxide Using Nitric Acid. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1303.	1.3	41
2366	Conductive Micropatterns Prepared by Laser-Induced Reduction of Graphene Oxide. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2018, 31, 447-450.	0.1	3
2367	Hydrated aramid nanofiber network enhanced flexible expanded graphite films towards high EMI shielding and thermal properties. <i>Composites Science and Technology</i> , 2018, 168, 28-37.	3.8	50
2368	Transparent and Hydrophobic "Reduced Graphene Oxide" Titanium Dioxide Nanocomposites for Nonwetting Device Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 5691-5701.	2.4	19
2369	Gate tunable surface plasmon resonance enhanced graphene/Ag nanoparticles-polymethyl methacrylate/graphene/p-GaN heterostructure light-emitting diodes. <i>Optics Express</i> , 2018, 26, 25257.	1.7	9
2370	Patterned graphene on SiN waveguides for mode locking of fiber lasers. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 102701.	0.8	5
2371	A facile synthetic route of nitrogen-doped graphite derived from chitosan for modifying LiFePO ₄ cathode. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 16630-16638.	1.1	16
2372	Fabrication and Characterization of Graphene Microcrystal Prepared from Lignin Refined from Sugarcane Bagasse. <i>Nanomaterials</i> , 2018, 8, 565.	1.9	22
2373	Pt alloy nanoparticles decorated on large-size nitrogen-doped graphene tubes for highly stable oxygen-reduction catalysts. <i>Nanoscale</i> , 2018, 10, 17318-17326.	2.8	45
2374	Controlling the adsorption behavior of hydrogen at the interface of polycrystalline CVD graphene. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18735-18744.	3.8	7
2375	Analysis of graphene films grown on copper foil at 845 Å°C by intermediate pressure chemical vapor deposition. <i>Materials Research Express</i> , 2018, 5, 115604.	0.8	6
2376	Single-step process to improve the mechanical properties of carbon nanotube yarn. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 545-554.	1.5	7
2377	Graphene alters the properties of voltage-gated Ca ²⁺ channels in rat cardiomyocytes. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 065004.	0.6	1
2378	Critical Annealing Temperature for Stacking Orientation of Bilayer Graphene. <i>Small</i> , 2018, 14, e1802498.	5.2	6
2379	Temporal-stability of plasma functionalized vertical graphene electrodes for charge storage. <i>Journal of Power Sources</i> , 2018, 401, 37-48.	4.0	34

#	ARTICLE	IF	CITATIONS
2380	Graphene based sensor for scale monitoring. , 2018, , .		2
2381	Modulating the Surface State of SiC to Control Carrier Transport in Graphene/SiC. <i>Small</i> , 2018, 14, e1801273.	5.2	12
2382	Competing Mechanisms for Photocurrent Induced at the Monolayer–Multilayer Graphene Junction. <i>Small</i> , 2018, 14, e1800691.	5.2	13
2383	Plasma-tuneable oxygen functionalization of vertical graphenes enhance electrochemical capacitor performance. <i>Energy Storage Materials</i> , 2018, 14, 297-305.	9.5	63
2384	Electrical property of macroscopic graphene composite fibers prepared by chemical vapor deposition. <i>Nanotechnology</i> , 2018, 29, 305601.	1.3	7
2385	Design and Fabrication of Printed Paper–Based Hybrid Micro–Supercapacitor by using Graphene and Redox–Active Electrolyte. <i>ChemSusChem</i> , 2018, 11, 1849-1856.	3.6	46
2386	Powder metallurgy template growth of 3D N-doped graphene foam as binder-free cathode for high-performance lithium/sulfur battery. <i>Carbon</i> , 2018, 137, 368-378.	5.4	50
2387	Hierarchical oxygen reduction reaction electrocatalysts based on FeSn _{0.5} species embedded in carbon nitride-graphene based supports. <i>Electrochimica Acta</i> , 2018, 280, 149-162.	2.6	22
2388	Reduced Pyronin B as a solution-processable and heating-free n-type dopant for soft electronics. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6672-6679.	2.7	7
2389	Novel High Pressure Exfoliated Graphene-Based Semitransparent Stable DSSCs for Building Integrated Photovoltaics. <i>ACS Applied Energy Materials</i> , 2018, 1, 2512-2519.	2.5	22
2390	Establishment of a reliable transfer process for fabricating chemical vapor deposition-grown graphene films with advanced and repeatable electrical properties. <i>RSC Advances</i> , 2018, 8, 19846-19851.	1.7	2
2391	Reduced graphene oxide as a water, carbon dioxide and oxygen barrier in plasticized poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.7	26
2392	Structural, optical and gas sensing properties of vertically well-aligned ZnO nanowires grown on graphene/Si substrate by thermal evaporation method. <i>Materials Characterization</i> , 2018, 141, 296-317.	1.9	31
2393	Adsorption dynamics of CVD graphene investigated by a contactless microwave method. <i>2D Materials</i> , 2018, 5, 035024.	2.0	6
2394	Electrical conduction mechanisms in graphene nanoplatelet/yttria tetragonal zirconia composites. <i>Ceramics International</i> , 2018, 44, 14610-14616.	2.3	22
2395	Phospholipid-mediated exfoliation as a facile preparation method for graphene suspensions. <i>RSC Advances</i> , 2018, 8, 19220-19225.	1.7	5
2396	Green and facile synthesis of few-layer graphene via liquid exfoliation process for Lithium-ion batteries. <i>Scientific Reports</i> , 2018, 8, 9766.	1.6	38
2397	Colloidal Quantum Dot Tandem Solar Cells Using Chemical Vapor Deposited Graphene as an Atomically Thin Intermediate Recombination Layer. <i>ACS Energy Letters</i> , 2018, 3, 1753-1759.	8.8	33

#	ARTICLE	IF	CITATIONS
2398	Tribological characteristics of graphene as grease additive under different contact forms. <i>Tribology International</i> , 2018, 127, 457-469.	3.0	52
2399	Preparation of CNT/RGO macroscopic body by partially stripping CNT and its energy storage performances. <i>Diamond and Related Materials</i> , 2018, 88, 1-5.	1.8	11
2400	Solution processed graphene as electron transport layer for bulk heterojunction based devices. <i>Superlattices and Microstructures</i> , 2018, 120, 788-795.	1.4	15
2401	Direct synthesis of high-quality nitrogen-doped graphene via ion implantation. <i>Carbon</i> , 2018, 139, 732-739.	5.4	19
2402	Graphene Synthesis Using a CVD Reactor and a Discontinuous Feed of Gas Precursor at Atmospheric Pressure. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-11.	1.5	23
2403	Graphene-Based Nanomaterials in Bioimaging. , 2018, , 247-287.		24
2404	Fluctuation-induced tunneling conduction in iodine-doped bilayer graphene. <i>Journal of Applied Physics</i> , 2018, 123, 244302.	1.1	2
2405	Tailoring the Thermal and Mechanical Properties of Graphene Film by Structural Engineering. <i>Small</i> , 2018, 14, e1801346.	5.2	106
2406	Characterization of Carbon Nanomaterials by Raman Spectroscopy. , 2018, , 1-36.		3
2407	Bilayer-rich graphene suspension from electrochemical exfoliation of graphite. <i>Materials and Design</i> , 2018, 156, 62-70.	3.3	30
2408	Stokes and anti-Stokes Raman scattering in mono- and bilayer graphene. <i>Nanoscale</i> , 2018, 10, 16138-16144.	2.8	8
2409	Structure and Properties of Self-Organized 2D and 3D Antimony/Carbon Composites. <i>Technical Physics</i> , 2018, 63, 995-1001.	0.2	1
2410	Tetragonal graphene nanodot as carbon monoxide gas sensor and current rectification device. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 123, 172-182.	1.9	27
2411	Carbon Nanosheet from Polyethylene Thin Film as a Transparent Conducting Film: "Upcycling" of Waste to Organic Photovoltaics Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12463-12470.	3.2	25
2412	Ultraviolet-light-driven photoresponse of chemical vapor deposition grown molybdenum disulfide/graphene heterostructured FET. <i>Applied Surface Science</i> , 2018, 459, 853-859.	3.1	12
2413	Large-Area High-Quality AB-Stacked Bilayer Graphene on h-BN/Pt Foil by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29069-29075.	4.0	24
2414	Radiation tolerance of nickel-graphene nanocomposite with disordered graphene. <i>Journal of Nuclear Materials</i> , 2018, 510, 1-9.	1.3	26
2415	Realizing the theoretical stiffness of graphene in composites through confinement between carbon fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 113, 311-317.	3.8	22

#	ARTICLE	IF	CITATIONS
2416	Hybrid spray-coating, laser-scribing and ink-dispensing of graphene sensors/arrays with tunable piezoresistivity for in situ monitoring of composites. <i>Carbon</i> , 2018, 139, 437-444.	5.4	37
2417	Study on the solid thermal insulation mechanisms of nitrogen-doped graphene aerogels by molecular dynamics simulations and experiments. <i>International Journal of Thermal Sciences</i> , 2018, 133, 162-169.	2.6	4
2418	Component-tunable Rutile-Anatase TiO ₂ /Reduced Graphene Oxide Nanocomposites for Enhancement of Electrocatalytic Oxygen Evolution. <i>ChemNanoMat</i> , 2018, 4, 1133-1139.	1.5	13
2419	Stable, Temperature-Dependent Gas Mixture Permeation and Separation through Suspended Nanoporous Single-Layer Graphene Membranes. <i>Nano Letters</i> , 2018, 18, 5057-5069.	4.5	56
2420	Large area ultra-thin graphene films for functional photovoltaic devices. <i>Journal of Materials Research</i> , 2018, 33, 2306-2317.	1.2	3
2421	IR position-sensitive detectors based on double-junction asymmetric TiO ₂ /MoS ₂ /reduced graphene-oxide sandwiches. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8444-8452.	2.7	21
2422	Scalable preparation of graphene reinforced Zirconium diboride composites with strong dynamic response. <i>Carbon</i> , 2018, 139, 1020-1026.	5.4	15
2423	On the morphology and structure formation of carbon fibers from polymer precursor systems. <i>Progress in Materials Science</i> , 2018, 98, 477-551.	16.0	49
2424	Tribological behavior of <i>in situ</i> fabricated graphene-nickel matrix composites. <i>RSC Advances</i> , 2018, 8, 22113-22121.	1.7	39
2425	Low vacuum annealing of polymer at low temperatures towards direct and scalable growth of graphene. <i>Materials Research Bulletin</i> , 2018, 107, 147-153.	2.7	4
2426	High-Temperature Raman Spectroscopy of Nano-Crystalline Carbon in Silicon Oxycarbide. <i>Materials</i> , 2018, 11, 93.	1.3	71
2427	Electrostatic Deposition of Large-Surface Graphene. <i>Materials</i> , 2018, 11, 116.	1.3	5
2428	Characterization of Graphite Oxide and Reduced Graphene Oxide Obtained from Different Graphite Precursors and Oxidized by Different Methods Using Raman Spectroscopy. <i>Materials</i> , 2018, 11, 1050.	1.3	260
2429	Tribological Behavior of AA1050H24-Graphene Nanocomposite Obtained by Friction Stir Processing. <i>Metals</i> , 2018, 8, 113.	1.0	22
2430	Preparation of Graphene-Perfluoroalkoxy Composite and Thermal and Mechanical Properties. <i>Polymers</i> , 2018, 10, 700.	2.0	17
2431	Enhanced Ionic Sensitivity in Solution-Gated Graphene-Hexagonal Boron Nitride Heterostructure Field-Effect Transistors. <i>Advanced Materials Technologies</i> , 2018, 3, 1800133.	3.0	14
2432	Mechanical, thermal and electrical properties of LiFePO ₄ /MWCNTs composite electrodes. <i>Materials Letters</i> , 2018, 230, 57-60.	1.3	16
2433	Carbon Nanotubes Derived from Yeast-Fermented Wheat Flour and Their Energy Storage Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11386-11396.	3.2	67

#	ARTICLE	IF	CITATIONS
2434	Gas-Exfoliation Assisted Fabrication of Porous Graphene Nanosheets Derived from <i>Plumeria rubra</i> for Highly Efficient Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11536-11546.	3.2	35
2435	Three-dimensional microporous graphene decorated with lithium. <i>Nanotechnology</i> , 2018, 29, 405707.	1.3	1
2436	Multifunctional Reduced Graphene Oxide Wrapped Circular Au Nanoplatelets: Enhanced Photoluminescence, Excellent Surface-Enhanced Raman Scattering, Photocatalytic Water Splitting, and Non-Enzymatic Biosensor. <i>ACS Applied Nano Materials</i> , 2018, 1, 3945-3955.	2.4	27
2437	Nitrogen-doped graphene-like carbon nanosheets from commercial glue: morphology, phase evolution and Li-ion battery performance. <i>Dalton Transactions</i> , 2018, 47, 12218-12227.	1.6	20
2438	Different spectroscopic behavior of coupled and freestanding monolayer graphene deposited by CVD on Cu foil. <i>Applied Surface Science</i> , 2018, 458, 580-585.	3.1	7
2439	A general strategy for direct synthesis of reduced graphene oxide by chemical exfoliation of graphite. <i>Materials Chemistry and Physics</i> , 2018, 218, 51-61.	2.0	29
2440	Mode-Selective Raman Imaging of Dopamine-Human Dopamine Transporter Interaction in Live Cells. <i>ACS Chemical Neuroscience</i> , 2018, 9, 3117-3127.	1.7	8
2441	Simple route for the preparation of graphene/poly(styrene-butadiene-styrene) nanocomposite films with enhanced electrical conductivity and hydrophobicity. <i>Polymer International</i> , 2018, 67, 1118-1127.	1.6	4
2442	Template-assisted synthesis of NiCoO ₂ nanocages/reduced graphene oxide composites as high-performance electrodes for supercapacitors. <i>RSC Advances</i> , 2018, 8, 16902-16909.	1.7	22
2443	Pulsed photoinitiated fabrication of inkjet printed titanium dioxide/reduced graphene oxide nanocomposite thin films. <i>Nanotechnology</i> , 2018, 29, 315401.	1.3	8
2444	Graphene Stress Transducer-Based Thermo-Mechanically Fractured Micro Valve. <i>Journal of Microelectromechanical Systems</i> , 2018, 27, 555-569.	1.7	1
2445	PEGlated graphene as nanoadditive for enhancing the tribological properties of water-based lubricants. <i>Carbon</i> , 2018, 137, 41-48.	5.4	65
2446	Microwave plasma enabled synthesis of free standing carbon nanostructures at atmospheric pressure conditions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13810-13824.	1.3	56
2447	One-step synthesis of Pt-Pd catalyst nanoparticles supported on few-layer graphene for methanol oxidation. <i>Current Applied Physics</i> , 2018, 18, 898-904.	1.1	18
2448	Anisotropic thermal expansion coefficient of multilayer graphene reinforced copper matrix composites. <i>Journal of Alloys and Compounds</i> , 2018, 755, 114-122.	2.8	35
2449	Anomalous molecular infiltration in graphene laminates. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24671-24680.	1.3	7
2450	A Novel Method of Synthesizing Graphene for Electronic Device Applications. <i>Materials</i> , 2018, 11, 1120.	1.3	6
2451	Reversible Segregation of Ni in LaFe _{0.8} Ni _{0.2} O ₃ During Coke Removal. <i>ChemCatChem</i> , 2018, 10, 4456-4464.	1.8	15

#	ARTICLE	IF	CITATIONS
2452	Simple production of high-quality graphene foams by pyrolysis of sodium ethoxide. <i>Materials Chemistry and Physics</i> , 2018, 219, 57-66.	2.0	17
2453	<i>In situ</i> molecular welding preparation of graphene/polyimide hybrid film with superior thermal conductivity and flexibility. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1215-1223.	2.4	7
2454	Factors affecting barrier performance of composite anti-corrosion coatings prepared by using electrochemically exfoliated few-layer graphene as filler. <i>Composites Part B: Engineering</i> , 2018, 155, 1-10.	5.9	38
2455	Molecular Beam Epitaxy of Graphene and Hexagonal Boron Nitride. , 2018, , 487-513.		2
2456	Structure of graphene and its disorders: a review. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 613-648.	2.8	407
2457	Structure and Properties of Thin Graphite-Like Films Produced by Magnetron-Assisted Sputtering. <i>Semiconductors</i> , 2018, 52, 914-920.	0.2	9
2458	Li ₂ TiO ₃ /Graphene and Li ₂ TiO ₃ /CNT Composites as Anodes for High Power Li-Ion Batteries. <i>ChemistrySelect</i> , 2018, 3, 9150-9158.	0.7	20
2459	Graphene Textile Strain Sensor with Negative Resistance Variation for Human Motion Detection. <i>ACS Nano</i> , 2018, 12, 9134-9141.	7.3	455
2460	Graphene/Ag nanoholes composites for quantitative surface-enhanced Raman scattering. <i>Optics Express</i> , 2018, 26, 22432.	1.7	13
2461	Facile synthesis of rod-shaped bismuth sulfide@graphene oxide (Bi ₂ S ₃ @GO) composite. <i>Materials Chemistry and Physics</i> , 2018, 219, 376-389.	2.0	16
2462	Nanosized graphene sheets enhanced electron field emission behavior in pure carbon film. <i>Thin Solid Films</i> , 2018, 664, 124-129.	0.8	6
2463	Inkjet-printing of graphene saturable absorbers for ~2 μ m bulk and waveguide lasers. <i>Optical Materials Express</i> , 2018, 8, 2803.	1.6	7
2464	Electron-phonon investigation in stanene. <i>Computational Materials Science</i> , 2018, 155, 63-68.	1.4	8
2465	Size distribution of trilayer graphene flakes obtained by electrochemical exfoliation of graphite: Effect of the synthesis parameters. <i>Materials Chemistry and Physics</i> , 2018, 220, 87-97.	2.0	9
2466	Synthesis of Graphene Nanosheets through Spontaneous Sodiation Process. <i>Journal of Carbon Research</i> , 2018, 4, 42.	1.4	18
2467	Ball-Milled Recycled Lead-Graphite Pencils as Highly Stretchable and Low-Cost Thermal-Interface Materials. <i>Polymers</i> , 2018, 10, 799.	2.0	6
2468	Characterization of graphene synthesized by low-pressure chemical vapor deposition using N-Octane as precursor. <i>Materials Chemistry and Physics</i> , 2018, 219, 189-195.	2.0	6
2469	Continuous glucose monitoring with a flexible biosensor and wireless data acquisition system. <i>Sensors and Actuators B: Chemical</i> , 2018, 275, 237-243.	4.0	13

#	ARTICLE	IF	CITATIONS
2470	Facile room temperature synthesis of large graphene sheets from simple molecules. <i>Chemical Science</i> , 2018, 9, 7297-7303.	3.7	25
2471	Experimental evidence for interlayer decoupling distance of twisted bilayer graphene. <i>AIP Advances</i> , 2018, 8, 075228.	0.6	9
2472	Narrow Plasmon Resonances in Hybrid Systems. <i>Springer Theses</i> , 2018, , .	0.0	2
2473	Laser-Induced Freestanding Graphene Papers: A New Route of Scalable Fabrication with Tunable Morphologies and Properties for Multifunctional Devices and Structures. <i>Small</i> , 2018, 14, e1802350.	5.2	97
2474	Water-Based High Shear Exfoliated Graphene-Based Semi-Transparent Stable Dye-Sensitized Solar Cells for Solar Power Window Application. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1252-1258.	1.5	16
2475	A high-performance composite positive electrode based on graphene and Li (Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ . <i>International Journal of Energy Research</i> , 2018, 42, 4499-4511.	2.2	10
2476	Two-Dimensional Materials. <i>Springer Theses</i> , 2018, , 29-49.	0.0	0
2477	A method for producing conductive graphene biopolymer nanofibrous fabrics by exploitation of an ionic liquid dispersant in electrospinning. <i>Carbon</i> , 2018, 140, 148-156.	5.4	19
2478	Photon Energy Dependent Micro-Raman Spectroscopy with a Continuum Laser Source. <i>Scientific Reports</i> , 2018, 8, 11621.	1.6	9
2479	Synthesis of mesoscale, crumpled, reduced graphene oxide roses by water-in-oil emulsion approach. <i>Materials Research Express</i> , 2018, 5, 055601.	0.8	0
2480	Fabrication and characterization of graphene based silicon Schottky solar cell. <i>Superlattices and Microstructures</i> , 2018, 120, 637-641.	1.4	3
2481	(Co, Ni)Sn _{0.5} Nanoparticles Supported on Hierarchical Carbon Nitride-Graphene-Based Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018, 5, 2029-2040.	1.7	6
2482	Overlayer induced air gap acting as a responsivity amplifier for majority carrier graphene-insulator-silicon photodetectors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6958-6965.	2.7	11
2483	Dynamic strain in gold nanoparticle supported graphene induced by focused laser irradiation. <i>Nanoscale</i> , 2018, 10, 13417-13425.	2.8	3
2484	Graphene-Based Materials for Clean Energy Applications. , 2018, , 351-383.		6
2485	Structure and supercapacitor properties of few-layer low-fluorinated graphene materials. <i>Journal of Materials Science</i> , 2018, 53, 13053-13066.	1.7	18
2486	A Tandem-Strategy to Fabricate Flexible Graphene/Polypyrrole Nanofiber Film Using the Surfactant-Exfoliated Graphene for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22031-22041.	4.0	40
2487	Enhanced electrical and thermal conductivities of silicon oxycarbide nanocomposites containing carbon nanofibers. <i>Carbon</i> , 2018, 138, 42-51.	5.4	35

#	ARTICLE	IF	CITATIONS
2488	Stacking symmetry governed second harmonic generation in graphene trilayers. <i>Science Advances</i> , 2018, 4, eaat0074.	4.7	75
2489	Asymmetric 3d Electronic Structure for Enhanced Oxygen Evolution Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23131-23139.	4.0	57
2490	Stacking Modes-Induced Chemical Reactivity Differences on Chemical Vapor Deposition-Grown Trilayer Graphene. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23424-23431.	4.0	10
2491	Heterointerface effects in the electrointercalation of van der Waals heterostructures. <i>Nature</i> , 2018, 558, 425-429.	13.7	184
2492	Surface modification of graphene-coated carbon steel using aromatic molecules for enhancing corrosion resistance; comparison between type of aryl substitution with different spatial situations. <i>Anti-Corrosion Methods and Materials</i> , 2018, 65, 249-262.	0.6	18
2493	Exploring interlayer interaction of SnSe ₂ by low-frequency Raman spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 105, 7-12.	1.3	8
2494	Structural Characterization and Identification of Graphdiyne and Graphdiyne-Based Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2717-2729.	4.0	62
2495	TOPSIS based Taguchi design optimization for CVD growth of graphene using different carbon sources: Graphene thickness, defectiveness and homogeneity. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 685-694.	1.7	15
2496	Metal-free catalytic ozonation on surface-engineered graphene: Microwave reduction and heteroatom doping. <i>Chemical Engineering Journal</i> , 2019, 355, 118-129.	6.6	86
2497	Facile Patterning of Laser-Induced Graphene with Tailored Li Nucleation Kinetics for Stable Lithium-Metal Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901796.	10.2	76
2498	Chicken feather rachis: An improvement over feather fiber derived electrocatalyst for oxygen electroreduction. <i>Applied Surface Science</i> , 2019, 495, 143603.	3.1	27
2499	ZIF-67-derived edge-oriented graphene clusters coupled with carbon nanotubes containing encapsulated Co nanoparticles for high-frequency electrochemical capacitors. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3029-3037.	2.5	12
2500	Raman spectroscopy of two-dimensional magnetic van der Waals materials. <i>Nanotechnology</i> , 2019, 30, 452001.	1.3	28
2501	NO ₂ and NH ₃ Sensing Characteristics of Inkjet Printing Graphene Gas Sensors. <i>Sensors</i> , 2019, 19, 3379.	2.1	19
2502	Development of graphene-based nanocomposites as potential materials for supercapacitors and electrochemical cells. , 2019, , 145-154.		5
2503	Tribological Behaviour of Graphene Coated Bearing Steel (EN31). <i>Journal of Physics: Conference Series</i> , 2019, 1240, 012040.	0.3	2
2504	Niobium pentoxide nanoparticles @ multi-walled carbon nanotubes and activated carbon composite material as electrodes for electrochemical capacitors. <i>Energy Storage Materials</i> , 2019, 22, 311-322.	9.5	34
2505	High-quality graphene transfer via directional etching of metal substrates. <i>Nanoscale</i> , 2019, 11, 16001-16006.	2.8	11

#	ARTICLE	IF	CITATIONS
2506	Spectroscopic and morphological study of graphene nanoplatelets thin films on Si/SiO ₂ substrates. <i>Materials Research Express</i> , 2019, 6, 106432.	0.8	6
2507	An economic and facile method for graphene oxide preparation from graphite powder. <i>Resolution and Discovery</i> , 2019, 4, 21-25.	0.9	2
2508	Ultrathin and Electrically Tunable Metamaterial with Nearly Perfect Absorption in Mid-Infrared. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3358.	1.3	12
2509	Direct Metal-Free Chemical Vapor Deposition of Graphene Films on Insulating Substrates for Micro-Supercapacitors with High Volumetric Capacitance. <i>Batteries and Supercaps</i> , 2019, 2, 929-933.	2.4	7
2510	On the Suitability of Raman Spectroscopy to Monitor the Degree of Graphene Functionalization by Diazonium Salts. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22397-22402.	1.5	14
2511	Chemical exfoliation efficacy of semiconducting WS ₂ and its use in an additively manufactured heterostructure graphene-WS ₂ -graphene photodiode. <i>RSC Advances</i> , 2019, 9, 25805-25816.	1.7	27
2512	Non-vertical optical transition in near-field enhanced spectroscopy of graphene. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 265701.	0.7	7
2513	Effect of peroxomonosulfate, peroxydisulfate and hydrogen peroxide on graphene oxide photocatalytic performances in methyl orange dye degradation. <i>Chemosphere</i> , 2019, 237, 124479.	4.2	60
2514	Massive and sustained enhancement of the electrical conductivity of polystyrene using multilayer graphene at Low loadings, and carbon black as a dispersion aid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 580, 123727.	2.3	5
2515	A graphene-based hybrid material with quantum bits prepared by the double Langmuir-Schaefer method. <i>RSC Advances</i> , 2019, 9, 24066-24073.	1.7	9
2516	A Multilayer Graphene/Silicon Infrared Schottky Photodiode. <i>Advanced Electronic Materials</i> , 2019, 5, 1900594.	2.6	8
2517	Nano-engineering of high-performance PA6.6 nanocomposites by the integration of CVD-grown carbon fiber on graphene as a bicomponent reinforcement by melt-compounding. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48347.	1.3	7
2518	Extraordinary synergetic effect of precursors in laser CVD deposition of SiBCN films. <i>Journal of the European Ceramic Society</i> , 2019, 39, 5123-5131.	2.8	17
2519	Selective Carbon Material Engineering for Improved MEMS and NEMS. <i>Micromachines</i> , 2019, 10, 539.	1.4	33
2520	Effect of Carbon Doping on the Structure and Magnetocaloric Properties of Mn _{1.15} Fe _{0.80} Po _{0.50} Si _{0.50} Compounds. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 3987-3994.	0.8	4
2521	Enhancement of metal creep lifetime by graphene coating. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 2085-2091.	0.7	0
2522	A theoretical model for the effective thermal conductivity of graphene coated metal foams. <i>Applied Thermal Engineering</i> , 2019, 161, 114112.	3.0	16
2523	Enhanced catalytic graphitization of resorcinol formaldehyde derived carbon xerogel to improve its anodic performance for lithium ion battery. <i>Materials Today Communications</i> , 2019, 20, 100569.	0.9	18

#	ARTICLE	IF	CITATIONS
2524	Electron beam induced synthesis of Ru-rGO and its super capacitive behavior. <i>2D Materials</i> , 2019, 6, 045030.	2.0	10
2525	A mechanistic approach on the curing kinetics of benzoxazine-filled oxygen plasma treated graphene nanosheets. <i>Materials Research Express</i> , 2019, 6, 095332.	0.8	4
2526	Litchi-structural core-shell Si@C for high-performance lithium-ion battery anodes. <i>Ionics</i> , 2019, 25, 5809-5818.	1.2	6
2527	High pressure homogenization treatment on graphene oxide and its electrochemical energy storage performance. <i>Applied Surface Science</i> , 2019, 493, 441-447.	3.1	7
2528	In Situ Synthesis of 3D Interconnected Graphene-Reinforced Copper Composites. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 4265-4274.	1.2	6
2529	Synthesis of edge-rich vertical multilayer graphene nanotube arrays towards high-performance supercapacitors. <i>Nanotechnology</i> , 2019, 30, 425401.	1.3	5
2530	Facile Fabrication of Au Nanoparticles/Tin Oxide/Reduced Graphene Oxide Ternary Nanocomposite and Its High-Performance SF6 Decomposition Components Sensing. <i>Frontiers in Chemistry</i> , 2019, 7, 476.	1.8	11
2531	The Large and Tunable Nonlinear Absorption Response of Graphene Oxide Liquid Crystals. <i>Journal of Electronic Materials</i> , 2019, 48, 6216-6221.	1.0	28
2532	Tweaking the properties of aluminum oxide shielded graphene-based transistors. <i>Applied Surface Science</i> , 2019, 491, 742-749.	3.1	0
2533	Facile synthesized novel hybrid graphene oxide/cobalt ferrite magnetic nanoparticles based surface coating material inhibit bacterial secretion pathway for antibacterial effect. <i>Materials Science and Engineering C</i> , 2019, 104, 109932.	3.8	52
2534	Plasma Enabled Conformal and Damage Free Encapsulation of Fragile Molecular Matter: from Surface-Supported to On-Device Nanostructures. <i>Advanced Functional Materials</i> , 2019, 29, 1903535.	7.8	13
2535	Synthesis of Nitrogen-Doped Graphene on Copper Nanowires for Efficient Thermal Conductivity and Stability by Using Conventional Thermal Chemical Vapor Deposition. <i>Nanomaterials</i> , 2019, 9, 984.	1.9	3
2536	Correlated lateral and vertical transport of large-scale majority carrier graphene-insulator-silicon photodiodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9346-9353.	2.7	1
2537	Direct growth of large area uniform bi-layer graphene films on silicon substrates by chemical vapor deposition. <i>Materials Research Express</i> , 2019, 6, 095611.	0.8	4
2538	Utilizing ammonium persulfate assisted expansion to fabricate flexible expanded graphite films with excellent thermal conductivity by introducing wrinkles. <i>Carbon</i> , 2019, 153, 565-574.	5.4	29
2539	The electrochemical deconsolidation mechanism of graphite matrix in HTGR spherical fuel elements. <i>Journal of Nuclear Materials</i> , 2019, 525, 1-6.	1.3	7
2540	pH sensitivity of interfacial electron transfer at a supported graphene monolayer. <i>Nanoscale</i> , 2019, 11, 14742-14756.	2.8	14
2541	Three-dimensional Ni foam supported pristine graphene as a superior oxygen evolution electrode. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22947-22954.	3.8	5

#	ARTICLE	IF	CITATIONS
2542	Probing permeation of energetic hydrogen atoms through molybdenum disulphide on graphene platform. <i>Materials Research Express</i> , 2019, 6, 095614.	0.8	0
2543	Programmable Multilevel Memtransistors Based on van der Waals Heterostructures. <i>Advanced Electronic Materials</i> , 2019, 5, 1900333.	2.6	21
2544	Raman study of the substrate influence on graphene synthesis using a solid carbon source via rapid thermal annealing. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1630-1641.	1.2	57
2545	Nitrogen as a Suitable Replacement for Argon within Methane-Based Hot-Wall Graphene Chemical Vapor Deposition. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900240.	0.7	2
2546	Effective carbon constraint of MnS nanoparticles as high-performance anode of lithium-ion batteries. <i>Journal of Power Sources</i> , 2019, 437, 226931.	4.0	49
2547	One-step firing of cellulose fiber and ceramic precursors for functional electro-thermal composites. <i>Materials and Design</i> , 2019, 181, 107941.	3.3	11
2548	Preparation of Three-Layer Graphene Sheets from Asphaltene Using a Montmorillonite Template. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-6.	1.5	7
2549	Atomic deuteration of epitaxial many-layer graphene on 4H-SiC(0001 \bar{A}). <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 041804.	0.6	1
2550	Boosting Hydrogen Oxidation Activity of Ni in Alkaline Media through Oxygen-Vacancy-Rich CeO ₂ /Ni Heterostructures. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14179-14183.	7.2	223
2551	Graphene synthesis on SiO ₂ using pulsed laser deposition with bilayer predominance. <i>Materials Chemistry and Physics</i> , 2019, 238, 121905.	2.0	13
2552	Boosting Hydrogen Oxidation Activity of Ni in Alkaline Media through Oxygen-Vacancy-Rich CeO ₂ /Ni Heterostructures. <i>Angewandte Chemie</i> , 2019, 131, 14317-14321.	1.6	38
2553	Water splitting of hydrogen chemisorbed in graphene oxide dynamically evolves into a graphene lattice. <i>Carbon</i> , 2019, 153, 234-241.	5.4	12
2554	Synthesis of graphene-like phases in a water colloid by laser ablation of graphite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 247, 114379.	1.7	9
2555	Large Area Single Crystal Graphene Grown on a Cu(111) Foil. <i>Advanced Materials</i> , 2019, 31, e1903615.	11.1	89
2556	Differentiated evolution of coal macromolecules in localized igneous intrusion zone: A case study of Zhuxianzhuang colliery, Huaibei coalfield, China. <i>Fuel</i> , 2019, 254, 115692.	3.4	21
2557	Effects of geometry on large-scale tube-shear exfoliation of graphite to multilayer graphene and nanographite in water. <i>Scientific Reports</i> , 2019, 9, 8966.	1.6	8
2558	Room temperature Co-doped manganite/graphene sensor operating at high pulsed magnetic fields. <i>Scientific Reports</i> , 2019, 9, 9497.	1.6	11
2559	Unlocking high capacities of graphite anodes for potassium-ion batteries. <i>RSC Advances</i> , 2019, 9, 21070-21074.	1.7	43

#	ARTICLE	IF	CITATIONS
2560	Ultrafast Growth of Uniform Multi-Layer Graphene Films Directly on Silicon Dioxide Substrates. <i>Nanomaterials</i> , 2019, 9, 964.	1.9	10
2561	Effect of the Sulfate Concentration on the Graphene Film Produced by Electrochemical Exfoliation. <i>Solid State Phenomena</i> , 0, 290, 127-133.	0.3	0
2562	Evaluation of Adsorption Equilibria for Hydrogen and Methane on Graphene. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 5737-5747.	1.0	2
2563	Novel honey mediated green synthesis of Graphene@Ag Nanocomposite and its two-dimensional application in photovoltaic and anti-microbial activity. <i>Materials Research Express</i> , 2019, 6, 115071.	0.8	3
2564	Facile fabrication of biosensors based on Cu nanoparticles modified as-grown CVD graphene for non-enzymatic glucose sensing. <i>Journal of Electroanalytical Chemistry</i> , 2019, 853, 113527.	1.9	18
2565	Visualization of subnanometric phonon modes in a plasmonic nano-cavity via ambient tip-enhanced Raman spectroscopy. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	12
2567	Low-temperature plasma assisted growth of vertical graphene for enhancing carbon fibre/epoxy interfacial strength. <i>Composites Science and Technology</i> , 2019, 184, 107867.	3.8	30
2568	Enhanced photoresponse and surface charge transfer mechanism of graphene-tungsten disulfide heterojunction. <i>Optical Materials</i> , 2019, 98, 109426.	1.7	1
2569	Enhanced dynamic performance of twisted and coiled soft actuators using graphene coating. <i>Composites Part B: Engineering</i> , 2019, 178, 107499.	5.9	18
2570	Ionic Conductance through Graphene: Assessing Its Applicability as a Proton Selective Membrane. <i>ACS Nano</i> , 2019, 13, 12109-12119.	7.3	28
2571	Top-down bottom-up graphene synthesis. <i>Nano Futures</i> , 2019, 3, 042003.	1.0	39
2572	Preparation and Characterization of Polyamide6/Reduced Graphene Oxide Composite Microspheres. <i>ChemistrySelect</i> , 2019, 4, 11294-11301.	0.7	3
2573	Hollow Fe ₂ O ₃ Nanotubes Embedded in Graphene Aerogel as High-Performance Anode Material for Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2019, 4, 11370-11377.	0.7	16
2574	Plasmon reflection reveals local electronic properties of natural graphene wrinkles*. <i>Chinese Physics B</i> , 2019, 28, 117302.	0.7	4
2576	Gold nanoparticles decorated on single layer graphene applied for electrochemical ultrasensitive glucose biosensor. <i>Journal of Electroanalytical Chemistry</i> , 2019, 855, 113495.	1.9	36
2577	Non-Dendritic Zn Electrodeposition Enabled by Zincophilic Graphene Substrates. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44077-44089.	4.0	129
2578	Two-Dimensional Carbon: A Review of Synthesis Methods, and Electronic, Optical, and Vibrational Properties of Single-Layer Graphene. <i>Journal of Carbon Research</i> , 2019, 5, 67.	1.4	38
2583	Graphene oxide and enzyme-assisted dual-cycling amplification method for sensitive fluorometric determination of DNA. <i>Mikrochimica Acta</i> , 2019, 186, 716.	2.5	8

#	ARTICLE	IF	CITATIONS
2584	Graphene Formation Mechanism by the Electrochemical Promotion of a Ni Catalyst. ACS Catalysis, 2019, 9, 11447-11454.	5.5	5
2585	A Wafer-Scale Process for the Monolithic Integration of CVD Graphene and CMOS Logic for Smart MEMS/NEMS Sensors. , 2019, , .		2
2586	Silicon Nanoparticles in Graphene Sponge for Long-Cycling-Life and High-Capacity Anode of Lithium Ion Battery. IEEE Nanotechnology Magazine, 2019, 18, 1097-1102.	1.1	7
2587	Fabrication of Grapheneâ€Covered Microâ€Tubes for Process Intensification. Advanced Engineering Materials, 2019, 21, 1900642.	1.6	3
2588	Direct Synthesis of Microporous Bicarbazoleâ€Based Covalent Triazine Frameworks for Highâ€Performance Energy Storage and Carbon Dioxide Uptake. ChemPlusChem, 2019, 84, 1767-1774.	1.3	48
2589	Biological Effects of Plasma-Based Graphene Oxide Deposition on Titanium. Journal of Nanomaterials, 2019, 2019, 1-7.	1.5	15
2590	Corrosion Protection of Monel Alloy Coated with Graphene Quantum Dots Starts with a Surge. ChemEngineering, 2019, 3, 80.	1.0	5
2591	High Areal Capacitance of Nâ€Doped Graphene Synthesized by Arc Discharge. Advanced Functional Materials, 2019, 29, 1905511.	7.8	75
2592	Temperature dependence of the doubleâ€resonance Raman bands in monolayer MoS ₂ . Journal of Raman Spectroscopy, 2019, 50, 1867-1874.	1.2	15
2593	Electrophoretic deposited graphene based functional coatings for biocompatibility improvement of Nitinol. Thin Solid Films, 2019, 692, 137616.	0.8	10
2594	The activation and hydrogen storage characteristics of the cup-stacked carbon nanotubes. Diamond and Related Materials, 2019, 100, 107567.	1.8	20
2595	Local temperatures out of equilibrium. Physics Reports, 2019, 830, 1-66.	10.3	22
2596	Facile Room-Temperature Synthesis of High-Chemical-Stability Nitrogen-Doped Graphene Quantum Dot/CsPbBr ₃ Composite. ACS Applied Electronic Materials, 2019, 1, 2244-2252.	2.0	19
2597	Electricity Generation from Capillary-Driven Ionic Solution Flow in a Three-Dimensional Graphene Membrane. ACS Applied Materials & Interfaces, 2019, 11, 4922-4929.	4.0	57
2598	A Forceâ€Engineered Lint Roller for Superclean Graphene. Advanced Materials, 2019, 31, e1902978.	11.1	40
2599	Graphite as a Longâ€Life Ca ²⁺ â€Intercalation Anode and its Implementation for Rockingâ€Chair Type Calciumâ€Ion Batteries. Advanced Science, 2019, 6, 1902129.	5.6	49
2600	Carbon doping in the Mn _{1.15} Fe _{0.80} P _{0.50} Si _{0.50} materials: Structure, phase transition and magnetocaloric properties. Intermetallics, 2019, 106, 94-99.	1.8	9
2601	CdSe/V ₂ O ₅ core/shell quantum dots decorated reduced graphene oxide nanocomposite for high-performance electromagnetic interference shielding application. Nanotechnology, 2019, 30, 505704.	1.3	18

#	ARTICLE	IF	CITATIONS
2602	Centimeter-scale, single-crystalline, AB-stacked bilayer graphene on insulating substrates. <i>2D Materials</i> , 2019, 6, 045044.	2.0	11
2603	Carbide-bonded graphene coated zirconia for achieving rapid thermal cycling under low input voltage and power. <i>Ceramics International</i> , 2019, 45, 24318-24323.	2.3	4
2604	Tunable Negative Permittivity in Flexible Graphene/PDMS Metacomposites. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23635-23642.	1.5	178
2605	New approach for biological synthesis of reduced graphene oxide. <i>Biochemical Engineering Journal</i> , 2019, 151, 107331.	1.8	19
2606	Investigating the best strategy to diminish the toxicity and enhance the antibacterial activity of graphene oxide by chitosan addition. <i>Carbohydrate Polymers</i> , 2019, 225, 115220.	5.1	84
2607	Electrochemical functionalization strategy for chemical vapor deposited graphene on silicon substrates: grafting, electronic properties and biosensing. <i>Nanotechnology</i> , 2019, 30, 475703.	1.3	2
2608	Growth and photocatalytic behavior of transparent reduced GO/ZnO nanocomposite sheets. <i>Nanotechnology</i> , 2019, 30, 485601.	1.3	23
2609	Using Different Ions to Tune Graphene Stack Structures from Sheet- to Onion-Like During Plasma Exfoliation, with Supercapacitor Applications. <i>Nanoscale Research Letters</i> , 2019, 14, 141.	3.1	14
2610	Raman Techniques: Fundamentals and Frontiers. <i>Nanoscale Research Letters</i> , 2019, 14, 231.	3.1	368
2611	Effects of reduced graphene oxide loading on gas-sensing characteristics of flame-made Bi ₂ WO ₆ nanoparticles. <i>Applied Surface Science</i> , 2019, 496, 143613.	3.1	34
2612	Simultaneous electrochemical-assisted exfoliation and in situ surface functionalization towards large-scale production of few-layer graphene. <i>FlatChem</i> , 2019, 18, 100132.	2.8	19
2613	Chemical vapor deposition growth of bilayer graphene via altering gas flux geometry. <i>Thin Solid Films</i> , 2019, 690, 137521.	0.8	7
2614	Potential of Raman spectroscopy towards understanding structures of carbon-based materials and perovskites. <i>Emergent Materials</i> , 2019, 2, 417-439.	3.2	27
2615	Utilizing polarization-selective mode shaping by chalcogenide thin film to enhance the performance of graphene-based integrated optical devices. <i>Scientific Reports</i> , 2019, 9, 12446.	1.6	3
2616	Carrier lifetime enhancement in halide perovskite via remote epitaxy. <i>Nature Communications</i> , 2019, 10, 4145.	5.8	93
2617	Dynamics of carbon diffusion and segregation through nickel catalyst, investigated by in-situ XPS, during the growth of nitrogen-doped graphene. <i>Carbon</i> , 2019, 155, 410-420.	5.4	31
2618	Sn-C and Se-C Co-Bonding SnSe/Few-Layered Graphene Micro-Nano Structure: Route to a Densely Compacted and Durable Anode for Lithium/Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36685-36696.	4.0	83
2619	Exploring 1-butanol as a potential liquid precursor for graphene synthesis via chemical vapour deposition and enhanced catalyzed growth methodology. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	3

#	ARTICLE	IF	CITATIONS
2620	Measuring Local Electric Fields and Local Charge Densities at Electrode Surfaces Using Graphene-Enhanced Raman Spectroscopy (GERS)-Based Stark-Shifts. ACS Applied Materials & Interfaces, 2019, 11, 36252-36258.	4.0	7
2621	Fe and N Codoped Mesoporous Carbon Nanofiber as a Nonprecious Metal Catalyst for Oxygen Reduction Reaction and a Durable Support for Pt Nanoparticles. ACS Sustainable Chemistry and Engineering, 2019, 7, 17544-17552.	3.2	14
2622	The Use of an rGO Semi-transparent Organic Electrode in a ZnO Schottky Diode for UV Detection. Journal of Electronic Materials, 2019, 48, 7991-7999.	1.0	5
2623	Growth of carbon nanosheets on carbon nanotube arrays for the fabrication of three-dimensional micro-patterned supercapacitors. Carbon, 2019, 155, 453-461.	5.4	38
2624	Characterization of nitrogen doped graphene bilayers synthesized by fast, low temperature microwave plasma-enhanced chemical vapour deposition. Scientific Reports, 2019, 9, 13715.	1.6	33
2625	Effect of interfacial layer on graphene structure in-situ grown on cemented carbide. Journal of Alloys and Compounds, 2019, 806, 1309-1314.	2.8	5
2626	Microstructural and phase characterisation of pyrolytic graphite coating by CVD using propane and methane as precursor. Materials at High Temperatures, 2019, 36, 540-547.	0.5	8
2627	3-Arm star pyrene-functional PMMAs for efficient exfoliation of graphite in chloroform: fabrication of graphene-reinforced fibrous veils. Nanoscale, 2019, 11, 915-931.	2.8	19
2628	One Step Synthesis of Covalent Connected Three-dimensional Graphene/Carbon Nanotube for Olaquinox Electrochemical Sensor. Electrochemistry, 2019, 87, 20-25.	0.6	3
2629	Nanocarbons: Preparation, assessments, and applications in structural engineering, spintronics, gas sensing, EMI shielding, and cloaking in X-band. , 2019, , 171-285.		12
2630	Carbon-coated MoO ₂ nanoclusters anchored on RGO sheets as high-performance electrodes for symmetric supercapacitors. Dalton Transactions, 2019, 48, 285-295.	1.6	28
2631	Surface functionality analysis by Boehm titration of graphene nanoplatelets functionalized via a solvent-free cycloaddition reaction. Nanoscale Advances, 2019, 1, 1432-1441.	2.2	30
2632	Selective electrochemical functionalization of the graphene edge. Chemical Science, 2019, 10, 936-942.	3.7	22
2633	Vibrational spectra of hydrogenated and halogenated graphene CX; X = H, F, Cl. Materials Research Express, 2019, 6, 045612.	0.8	0
2634	Solvent-free growth of carbon dots by sputter-plasma assisted chemical vapour deposition over large areas. Carbon, 2019, 146, 28-35.	5.4	12
2635	Facile large-scale synthesis of macroscopic 3D porous graphene-like carbon nanosheets architecture for efficient CO ₂ adsorption. Carbon, 2019, 145, 751-756.	5.4	55
2636	Low-temperature Growth of Hard Carbon with Graphite Crystal for Sodium-ion Storage with High Initial Coulombic Efficiency: A General Method. Advanced Energy Materials, 2019, 9, 1803648.	10.2	132
2637	Optimizing the Self-Amplitude Modulation of Different 2-D Saturable Absorbers for Ultrafast Mode-Locked Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-10.	1.9	6

#	ARTICLE	IF	CITATIONS
2638	Electrically Conductive, Monolithic Metal-Organic Framework-Graphene (MOF@G) Composite Coatings. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6442-6447.	4.0	57
2639	Irradiation-induced defects in graphene on copper. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 460, 189-192.	0.6	5
2640	Preparation of Graphene Oxide-Doped Polypyrrole Composite Films with Stable Conductivity and Their Effect on the Elongation and Alignment of Neurite. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1268-1278.	2.6	20
2641	Highly resonant graphene plasmon hotspots in complex nanoresonator geometries. <i>2D Materials</i> , 2019, 6, 021003.	2.0	1
2642	Facile synthesis of SnO ₂ -graphene composites employing nonthermal plasma and SnO ₂ nanoparticles-dispersed ethanol. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 175301.	1.3	8
2643	Graphene synthesized in atmospheric plasmas—A review. <i>Journal of Materials Research</i> , 2019, 34, 214-230.	1.2	63
2644	Surface Enhanced IR Absorption and Raman Detection of Tryptophan Amino Acids Over Silver Nanoislands Deposited on Graphene. <i>Springer Proceedings in Physics</i> , 2019, , 133-138.	0.1	0
2645	Temperature dependent thermal transport in graphene paper above room temperature. <i>Applied Thermal Engineering</i> , 2019, 150, 1252-1259.	3.0	16
2646	Atomically-tailored graphene oxide displaying enhanced fluorescence for the improved optical sensing of MMP-2. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 485-493.	4.0	3
2647	Graphite to Graphene: Green Synthesis Using <i>Opuntia ficus-indica</i> . <i>Journal of Electronic Materials</i> , 2019, 48, 1553-1561.	1.0	7
2648	Surface-Enhanced Raman Spectroscopy of Graphene Integrated in Plasmonic Silicon Platforms with Three-Dimensional Nanotopography. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3076-3087.	1.5	16
2649	Conductive Polyamide-Graphene Composite Fabric via Interface Engineering. <i>Langmuir</i> , 2019, 35, 2261-2269.	1.6	18
2650	A Sequential Process of Graphene Exfoliation and Site-Selective Copper/Graphene Metallization Enabled by Multifunctional 1-Pyrenebutyric Acid Tetrabutylammonium Salt. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6448-6455.	4.0	5
2651	Scalable, large-area synthesis of heteroatom-doped few-layer graphene-like microporous carbon nanosheets from biomass for high-capacitance supercapacitors. <i>New Journal of Chemistry</i> , 2019, 43, 1186-1194.	1.4	79
2652	Quantification of cellular associated graphene and induced surface receptor responses. <i>Nanoscale</i> , 2019, 11, 932-944.	2.8	10
2653	Sacrificial template induced interconnected bubble-like N-doped carbon nanofoam as a pH-universal electrocatalyst for an oxygen reduction reaction. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 621-629.	3.0	4
2654	Template-free synthesis of carbon hollow spheres and reduced graphene oxide from spent lithium-ion batteries towards efficient gas storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3244-3252.	5.2	83
2655	A tunable positive and negative photoconductive photodetector based on a gold/graphene/p-type silicon heterojunction. <i>Journal of Materials Chemistry C</i> , 2019, 7, 887-896.	2.7	32

#	ARTICLE	IF	CITATIONS
2656	Observation of room temperature electronic localization through a single graphene layer on sapphire. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 055007.	0.8	2
2657	Formation the Properties of Carbon Black Particles by Gas-Phase Thermochemical Modification. <i>Inorganic Materials: Applied Research</i> , 2019, 10, 480-495.	0.1	4
2658	Synthesis and stacking sequence characterization of h-BN/graphene heterostructures on Cu-Ni alloy. <i>Carbon</i> , 2019, 152, 521-526.	5.4	15
2659	Detection and Crystal Structure of Hydrogenated Bipentacene as an Intermediate in Thermally Induced Pentacene Oligomerization. <i>Journal of Organic Chemistry</i> , 2019, 84, 8481-8486.	1.7	2
2660	Photocatalytic Hydrogenation of Graphene Using Pd Nanocones. <i>Nano Letters</i> , 2019, 19, 4413-4419.	4.5	32
2661	Microplasma assisted synthesis of gold nanoparticle/graphene oxide nanocomposites and their potential application in SERS sensing. <i>Nanotechnology</i> , 2019, 30, 455603.	1.3	10
2662	A label-free quantification method for measuring graphene oxide in biological samples. <i>Analytica Chimica Acta</i> , 2019, 1079, 103-110.	2.6	9
2663	Origin of Conductive Nanocrystalline Diamond Nanoneedles for Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25388-25398.	4.0	16
2664	Controllable preparation of nitrogen-doped graphitized carbon from molecular precursor as non-metal oxygen evolution reaction electrocatalyst. <i>Applied Surface Science</i> , 2019, 491, 723-734.	3.1	24
2665	Unraveling the synergistic influences of graphene and CuO on the structural, photon and phonon properties of graphene:CuO nanocomposites. <i>Carbon</i> , 2019, 152, 766-776.	5.4	9
2666	Core-niobium pentoxide carbon-shell nanoparticles decorating multiwalled carbon nanotubes as electrode for electrochemical capacitors. <i>Journal of Power Sources</i> , 2019, 434, 226737.	4.0	23
2667	Electrochemical capacitor performance of TiO ₂ decorated vertical graphene nanosheets electrode. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 375501.	1.3	24
2668	Controlled Sonication as a Route to in-situ Graphene Flake Size Control. <i>Scientific Reports</i> , 2019, 9, 8710.	1.6	49
2669	Elucidating the Chemistry behind the Reduction of Graphene Oxide Using a Green Approach with Polydopamine. <i>Nanomaterials</i> , 2019, 9, 902.	1.9	38
2670	Adsorption and competition investigation of phenolic compounds on the solid-liquid interface of three-dimensional foam-like graphene oxide. <i>Chemical Engineering Journal</i> , 2019, 378, 122085.	6.6	58
2671	Highly doped N, S-Codoped carbon nanomeshes for excellent electrocapacitive performance. <i>Journal of Alloys and Compounds</i> , 2019, 803, 704-710.	2.8	12
2672	AgNi@ZnO nanorods grown on graphene as an anodic catalyst for direct glucose fuel cells. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1193-1200.	1.2	8
2673	Proximity to Graphene Dramatically Alters Polymer Dynamics. <i>Macromolecules</i> , 2019, 52, 5074-5085.	2.2	11

#	ARTICLE	IF	CITATIONS
2674	Flash foam stamp-inspired fabrication of flexible in-plane graphene integrated micro-supercapacitors on paper. <i>Journal of Power Sources</i> , 2019, 433, 226703.	4.0	28
2675	Remote plasma-assisted low-temperature large-area graphene synthesis. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 041201.	0.6	7
2676	Intensity Measurement of Backscattered Light from Underwater Targets Using Femtosecond Pulse Laser. <i>Marine Geodesy</i> , 2019, 42, 316-326.	0.9	1
2677	Outer Divertor Damage Characterization from Deuterium Plasma Bombardment in Graphene-Coated Tungsten in the C-2W Device. <i>Fusion Science and Technology</i> , 2019, 75, 542-550.	0.6	1
2678	Microstructure, deposition mechanism and tribological performance of graphene oxide reinforced Fe composite coatings by electro-brush plating technique. <i>Journal of Alloys and Compounds</i> , 2019, 801, 40-48.	2.8	13
2679	3D CVD graphene oxide-coated Ni foam as carbo- and electro-catalyst towards hydrogen evolution reaction in acidic solution: In situ electrochemical gas chromatography. <i>Carbon</i> , 2019, 151, 109-119.	5.4	28
2680	Durable degradation resistance of graphene coated nickel and Monel-400 as bi-polar plates for proton exchange membrane fuel cell. <i>Carbon</i> , 2019, 151, 68-75.	5.4	14
2681	Bimetallic Ni-Co composites anchored on a wool ball-like carbon framework as high-efficiency bifunctional electrodes for rechargeable Zn-air batteries. <i>Catalysis Science and Technology</i> , 2019, 9, 3469-3481.	2.1	9
2682	Nickel mediated few-layer graphene growth on glass substrates by pulsed laser deposition. <i>Results in Physics</i> , 2019, 14, 102350.	2.0	17
2683	Electrochemically Exfoliating Graphite Cathode to N-Doped Graphene Analogue and Its Excellent Al Storage Performance. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1738-A1744.	1.3	5
2684	Synthesizing multilayer graphene from amorphous activated carbon via ammonia-assisted hydrothermal method. <i>Carbon</i> , 2019, 152, 24-32.	5.4	33
2685	Fabrication of MoSe ₂ decorated three-dimensional graphene composites structure as a highly stable electrocatalyst for improved hydrogen evolution reaction. <i>Renewable Energy</i> , 2019, 143, 1659-1669.	4.3	32
2686	Versatile metal graphitic nanocapsules for SERS bioanalysis. <i>Chinese Chemical Letters</i> , 2019, 30, 1581-1592.	4.8	19
2687	Multilayer graphene functionalized through thermal 1,3-dipolar cycloadditions with imino esters: a versatile platform for supported ligands in catalysis. <i>Chemical Communications</i> , 2019, 55, 7462-7465.	2.2	10
2688	Synthesis and functionalization of carbon nanotubes and nanospheres as a support for the immobilization of an enzyme extract from the mushroom <i>Trametes versicolor</i> . <i>Journal of Materials Science</i> , 2019, 54, 11671-11681.	1.7	15
2689	Effect of Ni and Cu catalysts on graphene growth under different ethanol flow rates using atmospheric pressure chemical vapor deposition. <i>Materials Research Express</i> , 2019, 6, 085627.	0.8	0
2690	Inkjet printed graphene as an interconnect for optoelectronic devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12500-12509.	1.1	7
2691	Sequentially Assembled Graphene Layers on Silicon, the Role of Uncertainty Principles in Graphene-Silicon Schottky Junctions. <i>Advanced Optical Materials</i> , 2019, 7, 1900470.	3.6	11

#	ARTICLE	IF	CITATIONS
2692	A study on 3D graphene synthesized directly on Glass/FTO substrates: Its Raman mapping and optical properties. <i>Ceramics International</i> , 2019, 45, 16829-16835.	2.3	15
2693	Effects of the shape features of graphite nanoplatelets on electrically-conductive behaviors of polydimethylsiloxane-based stretchable electrodes. <i>Materials Research Express</i> , 2019, 6, 0850g1.	0.8	5
2694	Growth of vertically-aligned carbon nanotubes on graphite for electric double-layer capacitors. <i>Materials Research Express</i> , 2019, 6, 086322.	0.8	4
2695	Impact of oxygen plasma treatment on carrier transport and molecular adsorption in graphene. <i>Nanoscale</i> , 2019, 11, 11145-11151.	2.8	20
2696	Oxidation of the polycrystalline copper-graphene nanocomposite. <i>JPhys Materials</i> , 2019, 2, 025005.	1.8	5
2697	Double resonance Raman scattering process in 2D materials. <i>Journal of Materials Research</i> , 2019, 34, 1976-1992.	1.2	25
2698	Growth of umbrella-like millimeter-scale single-crystalline graphene on liquid copper. <i>Carbon</i> , 2019, 150, 356-362.	5.4	9
2699	Hierarchical CsPbBr ₃ nanocrystal-decorated ZnO nanowire/macroporous graphene hybrids for enhancing charge separation and photocatalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13762-13769.	5.2	115
2700	Hybrid amorphous MoS _x -graphene protected Cu ₂ O photocathode for better performance in H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14635-14641.	3.8	8
2701	Rational Construction of 3D-Networked Carbon Nanowalls/Diamond Supporting CuO Architecture for High-Performance Electrochemical Biosensors. <i>Small</i> , 2019, 15, e1901527.	5.2	46
2702	Thermoelectric properties of p-type SrTiO ₃ /graphene layers nanohybrids. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	6
2703	Controlled Electrodeposition of Gold on Graphene: Maximization of the Defect-Enhanced Raman Scattering Response. <i>Small</i> , 2019, 15, e1901555.	5.2	40
2704	Mn ₃ O ₄ nanoparticles encapsulated in carbon cages as the electrode of dual-mechanism supercapacitors. <i>Materials Today Chemistry</i> , 2019, 12, 361-372.	1.7	20
2705	Deconvolution of Raman spectra of disordered monolayer graphene: an approach to probe the phonon modes. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	0.8	5
2706	Effects of probe and bath ultrasonic treatments on graphene oxide structure. <i>Materials Today Chemistry</i> , 2019, 13, 1-7.	1.7	36
2707	Azulenocyanines immobilized on graphene; on the way to panchromatic absorption and efficient DSSC blocking layers. <i>Nanoscale</i> , 2019, 11, 10709-10715.	2.8	18
2708	Characterisation of graphite nanoplatelets (GNP) prepared at scale by high-pressure homogenisation. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6383-6390.	2.7	26
2709	Femtosecond laser induced formation of graphene nanostructures in water and their field emission properties. <i>Materials Research Express</i> , 2019, 6, 085016.	0.8	10

#	ARTICLE	IF	CITATIONS
2710	Reduction of water-molecule-induced current-voltage hysteresis in graphene field effect transistor with semi-dry transfer using flexible supporter. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	12
2711	A facile liquid/liquid interface method to synthesize graphyne analogs. <i>Chemical Communications</i> , 2019, 55, 6571-6574.	2.2	33
2712	Insight into the ultrasonication of graphene oxide with strong changes in its properties and performance for adsorption applications. <i>Chemical Engineering Journal</i> , 2019, 373, 1212-1222.	6.6	48
2713	The role of physical structure and morphology on the photodegradation behaviour of polypropylene-graphene oxide nanocomposites. <i>Polymer</i> , 2019, 176, 146-158.	1.8	25
2714	Efficient Conversion of Lignin Waste to High Value Bio-Graphene Oxide Nanomaterials. <i>Polymers</i> , 2019, 11, 623.	2.0	29
2715	Structural and magnetic evolution of Fe ₃ O ₄ @carbon core-shell nanoparticles synthesized by a one-step thermal pyrolysis. <i>Materials Characterization</i> , 2019, 150, 213-219.	1.9	13
2716	Hierarchical carbon nanotube/nanocapsule composite via a facile arc discharge approach for high-frequency microwave absorption. <i>Materials Letters</i> , 2019, 249, 87-90.	1.3	8
2717	Adjusting acetylene gas flow to grow a spheroidal graphene film with controllable layer number and lattice defects. <i>Surface and Coatings Technology</i> , 2019, 364, 416-421.	2.2	6
2718	Bulk synthesis of graphene-like materials possessing turbostratic graphite and graphene nanodomains via combustion of magnesium in carbon dioxide. <i>Carbon</i> , 2019, 149, 582-586.	5.4	8
2719	Electrochemical formation of graphite oxide from the mixture composed of sulfuric and nitric acids. <i>Electrochimica Acta</i> , 2019, 310, 96-103.	2.6	24
2720	Graphene/p-AlGaIn/p-GaN electron tunnelling light emitting diodes with high external quantum efficiency. <i>Nano Energy</i> , 2019, 60, 836-840.	8.2	20
2721	Removal of triclosan in a Fenton-like system mediated by graphene oxide: Reaction kinetics and ecotoxicity evaluation. <i>Science of the Total Environment</i> , 2019, 673, 726-733.	3.9	31
2722	Probing carrier concentration in gated single, bi- and tri-layer CVD graphene using Raman spectroscopy. <i>Carbon</i> , 2019, 149, 390-399.	5.4	24
2723	High responsivity and high-speed 1.55 μm infrared photodetector from self-powered graphene/Si heterojunction. <i>Sensors and Actuators A: Physical</i> , 2019, 291, 87-92.	2.0	28
2724	Lightweight Composite Microwave Absorbing Materials Based on Graphene Aerogels with Honeycomb Structure. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900179.	1.2	19
2725	Study on multistage anodization for high modulus carbon fiber. <i>Surface and Interface Analysis</i> , 2019, 51, 798-808.	0.8	6
2726	Graphene transparent conductive films directly grown on quartz substrates by assisted catalysis of Cu nanoparticles. <i>Journal of Materials Science</i> , 2019, 54, 10312-10324.	1.7	8
2727	The field emission of carbon-in-Al ₄ O ₄ C nanoneedles and its failure mechanism: high-field induced shell cracking and chemical decomposition. <i>Nanotechnology</i> , 2019, 30, 365702.	1.3	1

#	ARTICLE	IF	CITATIONS
2728	Ion implantation of graphene with keV carbon ions: Defect types, evolution and substrate effects. <i>Vacuum</i> , 2019, 166, 72-78.	1.6	4
2729	Preparation of antistatic epoxy resin by functionalization of MWCNTs with Fe ₃ O ₄ -modified polyaniline under a magnetic field. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	5
2730	Enhanced Photoresponse in MoTe ₂ Photodetectors with Asymmetric Graphene Contacts. <i>Advanced Optical Materials</i> , 2019, 7, 1900190.	3.6	65
2731	Probing the acoustic phonon dispersion and sound velocity of graphene by Raman spectroscopy. <i>Carbon</i> , 2019, 149, 19-24.	5.4	49
2732	Effect of processing gas compositions on growth of carbon nanowalls by ECR-CVD process. <i>Materials Research Express</i> , 2019, 6, 065029.	0.8	6
2733	The correlation between electrical conductivity and second-order Raman modes of laser-reduced graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10125-10134.	1.3	122
2734	Edge-State-Enhanced Ultrahigh Photoresponsivity of Graphene Nanosheet-Embedded Carbon Film/Silicon Heterojunction. <i>Advanced Materials Interfaces</i> , 2019, 6, 1802062.	1.9	9
2735	Synthesis of Large-Area Single-Layer Graphene Using Refined Cooking Palm Oil on Copper Substrate by Spray Injector-Assisted CVD. <i>Nanoscale Research Letters</i> , 2019, 14, 143.	3.1	10
2736	Value-added utilization of pyrolysis heavy distillate for the synthesis of nitrogen doped graphene with chemical vapor deposition. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 525-530.	1.0	2
2737	Preparation of Few-Layer Graphene by Pulsed Discharge in Graphite Micro-Flake Suspension. <i>Crystals</i> , 2019, 9, 150.	1.0	7
2738	Surface-Synthesized Graphene Nanoribbons for Room Temperature Switching Devices: Substrate Transfer and <i>ex Situ</i> Characterization. <i>ACS Applied Nano Materials</i> , 2019, 2, 2184-2192.	2.4	75
2739	Comprehensive analysis of the effects of bending strain on GFET on ultra-flat flexible PI substrate using varnish PI. <i>Micro and Nano Letters</i> , 2019, 14, 249-253.	0.6	0
2740	Highly stable nickel-aluminum alloy current collectors and highly defective multi-walled carbon nanotubes active material for neutral aqueous-based electrochemical capacitors. <i>Journal of Energy Storage</i> , 2019, 23, 116-127.	3.9	18
2741	Modified graphene/polyimide composite films with strongly enhanced thermal conductivity. <i>Nanoscale</i> , 2019, 11, 8219-8225.	2.8	52
2742	A low-friction graphene nanoplatelets film from suspension high velocity oxy-fuel thermal spray. <i>AIP Advances</i> , 2019, 9, .	0.6	15
2743	Thermal exfoliation of electrochemically obtained graphitic materials. <i>Applied Surface Science</i> , 2019, 481, 466-472.	3.1	8
2744	Optical transducers: Optical molecular sensing and spectroscopy. , 2019, , 231-309.		8
2745	Graphene Nanoplatelets Coating for Corrosion Protection of Aluminum Substrates. <i>Corrosion</i> , 2019, 75, 799-808.	0.5	6

#	ARTICLE	IF	CITATIONS
2746	Long rylene nanoribbons express polyacetylene-like signatures at their edges. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7281-7287.	1.3	3
2747	Photocatalytic reforming of sugar and glucose into H ₂ over functionalized graphene dots. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8384-8393.	5.2	40
2748	Electroanalytical Performance of Nitrogen-Doped Graphene Films Processed in One Step by Pulsed Laser Deposition Directly Coupled with Thermal Annealing. <i>Materials</i> , 2019, 12, 666.	1.3	13
2749	Redox Processes in Reduced Graphite Oxide Decorated by Carboxyl Functional Groups. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800700.	0.7	13
2750	Sarin chemisorbent based on cobalt-doped graphene. <i>Applied Surface Science</i> , 2019, 480, 759-764.	3.1	7
2751	Mechanochemical synthesis of N-doped porous carbon at room temperature. <i>Nanoscale</i> , 2019, 11, 4712-4718.	2.8	47
2752	Influence of Degree of Dispersion of Noncovalent Functionalized Graphene Nanoplatelets on Rheological Behaviour of Aqueous Drilling Fluids. <i>International Journal of Chemical Engineering</i> , 2019, 2019, 1-11.	1.4	18
2754	Dispersion and Stabilization of Exfoliated Graphene in Ionic Liquids. <i>Frontiers in Chemistry</i> , 2019, 7, 223.	1.8	35
2755	Physics of Graphene: Basic to FET Application. , 2019, , 29-63.		0
2756	Modifying graphene's lattice dynamics by hot-electron injection from single gold nanoparticles. <i>Communications Physics</i> , 2019, 2, .	2.0	14
2757	Large-Area Layer Counting of Two-Dimensional Materials Evaluating the Wavelength Shift in Visible-Reflectance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9192-9201.	1.5	9
2758	Ultra-robust and high-toughness graphene oxide papers via synergistic strengthening by addition of carbon-nanotubes and copper ions. <i>Carbon</i> , 2019, 147, 490-500.	5.4	21
2759	Spectroscopic studies to investigate the effect of different plasma parameters on the geometrical and electronic structure of graphene. <i>Optics and Laser Technology</i> , 2019, 115, 433-440.	2.2	4
2760	Growth of Large-Area High-Quality Graphene on Different Types of Copper Foil Preannealed under Positive Pressure H ₂ Ambience. <i>ACS Omega</i> , 2019, 4, 5165-5171.	1.6	10
2761	Two-photon absorption and saturable absorption of mid-IR in graphene. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	29
2762	A Formula to Determine Energy Band Gap in Semiconducting Carbon Nanotubes. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, M19-M21.	0.9	14
2763	Large intravalley scattering due to pseudo-magnetic fields in crumpled graphene. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	16
2764	Large Improvement in the Mechanical Properties of Polyurethane Nanocomposites Based on a Highly Concentrated Graphite Nanoplate/Polyol Masterbatch. <i>Nanomaterials</i> , 2019, 9, 389.	1.9	13

#	ARTICLE	IF	CITATIONS
2765	Controlling a Chemical Coupling Reaction on a Surface: Tools and Strategies for On-Surface Synthesis. <i>Chemical Reviews</i> , 2019, 119, 4717-4776.	23.0	433
2766	Silicene Passivation by Few-Layer Graphene. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12745-12751.	4.0	16
2767	Characterization of the Lipid Structure and Fluidity of Lipid Membranes on Epitaxial Graphene and Their Correlation to Graphene Features. <i>Langmuir</i> , 2019, 35, 4726-4735.	1.6	5
2768	Controlling Nitrogen Doping in Graphene with Atomic Precision: Synthesis and Characterization. <i>Nanomaterials</i> , 2019, 9, 425.	1.9	67
2769	Chemical and Bio Sensing Using Graphene-Enhanced Raman Spectroscopy. <i>Nanomaterials</i> , 2019, 9, 516.	1.9	31
2770	Towel-like composite: Edge-rich MoS ₂ nanosheets oriented anchored on curly N-Doped graphene for high-performance lithium and sodium storage. <i>Electrochimica Acta</i> , 2019, 308, 217-226.	2.6	15
2771	Adjusting Fermi Level of Graphene by Controlling the Linker Lengths of Dipolar Molecules. <i>Langmuir</i> , 2019, 35, 5448-5454.	1.6	6
2772	Laser-Induced Graphene-Based Non-enzymatic Sensor for Detection of Hydrogen Peroxide. <i>Electroanalysis</i> , 2019, 31, 1334-1341.	1.5	30
2773	A facile co-solvent strategy for preparation of graphene nanoplatelet powder: An industrially viable innovative approach. <i>Ceramics International</i> , 2019, 45, 13409-13413.	2.3	11
2774	Single and multilayer graphene grown by CVD technique: Characterization for electro-optical applications. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
2775	Characterization Techniques of Two-Dimensional Nanomaterials. , 2019, , 27-41.		2
2776	Facile synthesis of manganese oxide-embedded mesoporous carbons and their adsorbability towards methylene blue. <i>Chemosphere</i> , 2019, 227, 455-461.	4.2	45
2777	Carbon-Based Materials for Humidity Sensing: A Short Review. <i>Micromachines</i> , 2019, 10, 232.	1.4	98
2778	The enhanced and polarized Raman spectra on the spherical aluminum powders encapsulated within graphene nanosheets. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 279-288.	1.0	2
2779	On the interplay between plasma discharge instability and formation of free-standing graphene nanosheets in a dual-channel microwave plasma torch at atmospheric pressure. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 265205.	1.3	17
2780	Growth of multi-layered graphene on molybdenum catalyst by solid phase reaction with amorphous carbon. <i>2D Materials</i> , 2019, 6, 035012.	2.0	3
2781	Shedding Light on Pseudocapacitive Active Edges of Single-Layer Graphene Nanoribbons as High-Capacitance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 3665-3675.	2.5	18
2782	Ion percolation through annealed, supported graphene oxide films: Role of nanochannels and voids. <i>Journal of Applied Physics</i> , 2019, 125, 144304.	1.1	2

#	ARTICLE	IF	CITATIONS
2783	Carbonized polydopamine nanoparticle reinforced graphene films with superior thermal conductivity. <i>Carbon</i> , 2019, 149, 173-180.	5.4	55
2784	Complementary Dual-Channel Gas Sensor Devices Based on a Role-Allocated ZnO/Graphene Hybrid Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16830-16837.	4.0	41
2785	Destructive role of oxygen in growth of molybdenum disulfide determined by secondary ion mass spectrometry. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8837-8842.	1.3	6
2786	Improved Performance of Graphene in Heat Dissipation when Combined with an Orientated Magnetic Carbon Fiber Skeleton under Low-Temperature Thermal Annealing. <i>Materials</i> , 2019, 12, 954.	1.3	3
2787	Tunable nitrogen-doped graphene sheets produced with in situ electrochemical cathodic plasma at room temperature for lithium-ion batteries. <i>Materials Today Energy</i> , 2019, 12, 336-347.	2.5	25
2788	Synthesis and characterization of graphene derivatives for application in magnetic high-field induction heating. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	5
2789	Spectroscopic Fingerprints of Graphitic, Pyrrolic, Pyridinic, and Chemisorbed Nitrogen in N-Doped Graphene. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10695-10702.	1.5	181
2790	Graphene Post-Processing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 485, 012027.	0.3	2
2791	Potassium-doped n-type stacked graphene layers. <i>Materials Research Express</i> , 2019, 6, 055009.	0.8	9
2792	Use of Ni Catalysts Supported on Biomorphic Carbon Derived From Lignocellulosic Biomass Residues in the Decomposition of Methane. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	10
2794	High-resolution, spatially-resolved surface potential investigations of high-strength metallurgical graphene using scanning tunnelling potentiometry. <i>Microelectronic Engineering</i> , 2019, 212, 1-8.	1.1	1
2795	Effects of poly(ethylene glycol)-grafted graphene on the electrical properties of poly(lactic acid) nanocomposites. <i>RSC Advances</i> , 2019, 9, 10599-10605.	1.7	15
2796	Highly Durable Non-Platinum Catalyst for Protic Ionic Liquid Based Intermediate Temperature PEFCs. <i>Electrochemistry</i> , 2019, 87, 35-46.	0.6	6
2797	Nitrogen-Doped Carbon Nano-Onions as a Metal-Free Electrocatalyst. <i>Electrocatalysis</i> , 2019, 10, 222-231.	1.5	16
2798	Experimental progress on layered topological semimetals. <i>2D Materials</i> , 2019, 6, 032001.	2.0	26
2799	Stable ionic-liquid-based symmetric supercapacitors from Capsicum seed-porous carbons. <i>Journal of Electroanalytical Chemistry</i> , 2019, 838, 119-128.	1.9	42
2800	Electrochemical fabrication of Ni or Ni(OH) ₂ @Ni nanoparticle-decorated reduced graphene oxide for supercapacitor applications. <i>Electrochimica Acta</i> , 2019, 302, 109-118.	2.6	54
2801	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. <i>ACS Nano</i> , 2019, 13, 1547-1554.	7.3	131

#	ARTICLE	IF	CITATIONS
2802	Low-energy band structure in Bernal stacked six-layer graphene: Landau fan diagram and resistance ridge. <i>Physical Review B</i> , 2019, 99, .	1.1	5
2803	Fabricating Tungsten and Tungsten-Trioxide Nanocomposite Colloid in Deionized Water by Electric Spark Discharge Method. <i>Journal of Cluster Science</i> , 2019, 30, 477-482.	1.7	1
2804	Vibrational and photoluminescence properties of polydiphenylamine doped with silicotungstic acid heteropolyanions and their composites with reduced graphene oxide. <i>Journal of Molecular Structure</i> , 2019, 1184, 25-35.	1.8	1
2805	The influence of external magnetic field on the pulsed laser deposition growth of graphene on nickel substrate at room temperature. <i>Diamond and Related Materials</i> , 2019, 93, 233-240.	1.8	9
2806	Extraordinary tensile strength and ductility of scalable nanoporous graphene. <i>Science Advances</i> , 2019, 5, eaat6951.	4.7	78
2807	Exploring Approaches for the Synthesis of Few-Layered Graphdiyne. <i>Advanced Materials</i> , 2019, 31, e1803758.	11.1	67
2808	A low-damage plasma surface modification method of stacked graphene bilayers for configurable wettability and electrical properties. <i>Nanotechnology</i> , 2019, 30, 245709.	1.3	13
2809	Phase stabilities and vibrational analysis of hydrogenated diamondized bilayer graphenes: A first principles investigation. <i>Carbon</i> , 2019, 146, 468-475.	5.4	43
2810	Distinguishing characteristics and usability of graphene oxide based on different sources of graphite feedstock. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 429-440.	5.0	33
2811	Preparation and the effects of ion irradiation on bulk SiOC ceramics. <i>Journal of the European Ceramic Society</i> , 2019, 39, 832-837.	2.8	21
2812	Unveiling oil-additive/surface hierarchy at real ring-liner contact. <i>Surfaces and Interfaces</i> , 2019, 15, 1-10.	1.5	0
2813	Single-Step, Low-Temperature Simultaneous Formations and in Situ Binding of Tin Oxide Nanoparticles to Graphene Nanosheets by In-Liquid Plasma for Potential Applications in Gas Sensing and Lithium-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2019, 2, 649-654.	2.4	8
2814	Electrochemical Oxidation Induced Multi-Level Memory in Carbon-Based Resistive Switching Devices. <i>Scientific Reports</i> , 2019, 9, 1564.	1.6	9
2815	Versatile Graphene-Based Platform for Robust Nanobiohybrid Interfaces. <i>ACS Omega</i> , 2019, 4, 3287-3297.	1.6	9
2816	Role of the carbon defects in the catalytic oxygen reduction by graphite nanoparticles: a spectromagnetic, electrochemical and computational integrated approach. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6021-6032.	1.3	27
2817	Printed Strain Sensors Using Graphene Nanosheets Prepared by Water-Assisted Liquid Phase Exfoliation. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900034.	1.9	21
2818	A Corelation Between the Graphene Surface Area, Functional Groups, Defects, and Porosity on the Performance of the Nanocomposites. , 2019, , 265-283.		17
2819	Pulsed laser deposition of thin carbon films on SiO ₂ /Si substrates. <i>Applied Surface Science</i> , 2019, 480, 323-329.	3.1	14

#	ARTICLE	IF	CITATIONS
2820	Two-phonon Raman scattering in graphene. AIP Conference Proceedings, 2019, , .	0.3	0
2821	Study of the initial stages of deposition of graphene-like films by sublimation of amorphous carbon. AIP Conference Proceedings, 2019, , .	0.3	0
2822	Scalable Production of Nanographene and Doping via Nondestructive Covalent Functionalization. Small, 2019, 15, e1805430.	5.2	19
2823	Study of the Electrical Properties of rGO Obtained by Different GO Reduction Methods. Minerals, Metals and Materials Series, 2019, , 773-785.	0.3	0
2824	Fabrication of graphene-like carbon films on 6H-SiC substrates via chlorination-annealing at low temperature. AIP Advances, 2019, 9, 025205.	0.6	0
2825	Largely enhanced oxidation of graphite flakes via ammonium persulfate-assisted gas expansion for the preparation of graphene oxide sheets. Carbon, 2019, 146, 618-626.	5.4	28
2826	Formation of carbon nanowalls by pulsed filtered cathodic vacuum arc deposition. Diamond and Related Materials, 2019, 93, 200-207.	1.8	6
2827	Ripples and Wrinkles in Graphene: Beyond Continuum Mechanics. , 2019, , 229-252.		2
2828	Facile synthesis of Gd and Sn co-doped BiFeO ₃ supported on nitrogen doped graphene for enhanced photocatalytic activity. Journal of Physics and Chemistry of Solids, 2019, 130, 222-229.	1.9	22
2829	Cobalt oxide nanocrystals anchored on graphene sheets for electrochemical determination of chloramphenicol. Microchemical Journal, 2019, 146, 881-887.	2.3	59
2830	Sub-10 nm stable graphene quantum dots embedded in hexagonal boron nitride. Nanoscale, 2019, 11, 4226-4230.	2.8	18
2831	Wrinkled Polymer Surfaces. , 2019, , .		11
2832	Effect of pressure during graphitization on mechanical properties of graphene films. , 2019, , .		0
2833	Adhesion-Increased Carbon Nanowalls for the Electrodes of Energy Storage Systems. Energies, 2019, 12, 4759.	1.6	10
2834	Graphene nanosheetsâ€inconel 718â€nanocomposites fabricated by spark plasma sintering of inâ€situ grown vertically standing graphene nanosheetsâ€inconel 718 powders. Micro and Nano Letters, 2019, 14, 613-617.	0.6	3
2835	Spectroscopic photoemission and low-energy electron microscopy studies of the surface and electronic structure of two-dimensional materials. Advances in Physics: X, 2019, 4, 1688187.	1.5	5
2836	Simultaneous PAN Carbonization and Ceramic Sintering for Fabricating Carbon Fiber-Ceramic Composite Heaters. Applied Sciences (Switzerland), 2019, 9, 4945.	1.3	5
2837	Hybrid Graphene-Molybdenum Disulfide Antenna for ISM Applications. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
2838	High-Efficiency Production of Large-Size Few-Layer Graphene Platelets via Pulsed Discharge of Graphite Strips. <i>Nanomaterials</i> , 2019, 9, 1785.	1.9	8
2839	Extreme Ultraviolet Generation of Localized Defects in Single-Layer Graphene: Raman Mapping, Atomic Force Microscopy, and High-Resolution Scanning Electron Microscopy Analysis. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2560-2565.	2.0	7
2840	Irradiation-induced broadening of the Raman spectra in monolayer graphene. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	13
2841	Parameter control and concentration analysis of graphene colloids prepared by electric spark discharge method. <i>Nanotechnology Reviews</i> , 2019, 8, 201-209.	2.6	9
2842	Magnetotransport study of the mini-Dirac cone in AB-stacked four- to six-layer graphene under perpendicular electric field. <i>Physical Review B</i> , 2019, 100, .	1.1	3
2843	Reduced graphene oxide based nanobiocomposite as basis for flexible biosensors. <i>Journal of Physics: Conference Series</i> , 2019, 1410, 012064.	0.3	1
2844	Influence of the buffer layers on growth and quality of graphene films grown by pulsed laser deposition. <i>Materials Research Express</i> , 2019, 6, 125625.	0.8	1
2845	Lotus rhizome-like S/Nâ€“C with embedded WS ₂ for superior sodium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25932-25943.	5.2	39
2846	Niâ”Fe (Oxy)hydroxide Modified Graphene Additive Manufactured (3Dâ€“Printed) Electrochemical Platforms as an Efficient Electrocatalyst for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2019, 6, 5633-5641.	1.7	32
2847	Introductory Chapter: Graphene and Its Applications. , 2019, , .		4
2848	Oriented Graphenes from Plasma-Reformed Coconut Oil for Supercapacitor Electrodes. <i>Nanomaterials</i> , 2019, 9, 1679.	1.9	4
2849	Reinforcing Mechanism of Reduced Graphene Oxide on Flexural Strength of Geopolymers: A Synergetic Analysis of Hydration and Chemical Composition. <i>Nanomaterials</i> , 2019, 9, 1723.	1.9	15
2850	Influence of the Interactions at the Grapheneâ€“Substrate Boundary on Graphene Sensitivity to UV Irradiation. <i>Materials</i> , 2019, 12, 3949.	1.3	4
2851	Effect of Ammonium Bicarbonate on Intercalation and Exfoliation of Graphite Materials. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-8.	1.5	3
2852	Probing the edge-related properties of atomically thin MoS ₂ at nanoscale. <i>Nature Communications</i> , 2019, 10, 5544.	5.8	108
2853	Triazine-functionalized covalent benzoxazine framework for direct synthesis of N-doped microporous carbon. <i>Polymer Chemistry</i> , 2019, 10, 6010-6020.	1.9	59
2854	Induced growth of quasi-free-standing graphene on SiC substrates. <i>RSC Advances</i> , 2019, 9, 32226-32231.	1.7	6
2855	Silkworm cocoon derived N, O-codoped hierarchical porous carbon with ultrahigh specific surface area for efficient capture of methylene blue with exceptionally high uptake: kinetics, isotherm, and thermodynamics. <i>RSC Advances</i> , 2019, 9, 33872-33882.	1.7	6

#	ARTICLE	IF	CITATIONS
2856	Graphdiyne bearing pillar[5]arene-reduced Au nanoparticles for enhanced catalytic performance towards the reduction of 4-nitrophenol and methylene blue. RSC Advances, 2019, 9, 38372-38380.	1.7	14
2857	Step-by-step monitoring of CVD-graphene during wet transfer by Raman spectroscopy. RSC Advances, 2019, 9, 41447-41452.	1.7	8
2858	Strain-dependent Raman analysis of the G* band in graphene. Physical Review B, 2019, 100, .	1.1	8
2859	Graphene Nanosheets (GNs) Addition on the Palm Oil Fuel Ash (POFA) Based Geopolymer with KOH Activator. Journal of Physics: Conference Series, 2019, 1351, 012101.	0.3	3
2860	Unique NiFe NiCoO ₂ hollow polyhedron as bifunctional electrocatalysts for water splitting. Journal of Energy Chemistry, 2019, 33, 74-80.	7.1	61
2861	Novel Z-scheme composite Ag ₂ CrO ₄ /NG/polyimide as high performance nano catalyst for photoreduction of CO ₂ : Design, fabrication, characterization and mechanism. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 368, 30-40.	2.0	39
2862	Dynamic behavior of nanoscale liquids in graphene liquid cells revealed by in situ transmission electron microscopy. Micron, 2019, 116, 22-29.	1.1	31
2863	Silicon- and oxygen-codoped graphene from polycarbosilane and its application in graphene/n-type silicon photodetectors. Applied Surface Science, 2019, 464, 125-130.	3.1	14
2864	Effect of ball milling time on graphene nanosheets reinforced Al6063 composite fabricated by pressure infiltration method. Carbon, 2019, 141, 25-39.	5.4	141
2865	Electron field emission from graphene nanosheets grown on Si nanoporous pillar array. Materials Science in Semiconductor Processing, 2019, 89, 105-109.	1.9	3
2866	Growth and Raman spectroscopy of thickness-controlled rotationally faulted multilayer graphene. Carbon, 2019, 141, 76-82.	5.4	28
2867	Improving the wear and corrosion resistance of CoCrMo-UHMWPE articulating surfaces in the presence of an electrolyte. Applied Surface Science, 2019, 464, 404-411.	3.1	23
2868	One-step in-situ reaction synthesis of TiC/graphene composite thin film for titanium foil surface reinforcement. Vacuum, 2019, 160, 472-477.	1.6	7
2869	Single-Walled Carbon Nanotubes in Emerging Solar Cells: Synthesis and Electrode Applications. Advanced Energy Materials, 2019, 9, 1801312.	10.2	86
2870	The sp ² -sp ³ carbon hybridization content of nanocrystalline graphite from pyrolyzed vegetable oil, comparison of electrochemistry and physical properties with other carbon forms and allotropes. Carbon, 2019, 144, 831-840.	5.4	30
2871	Low-damage nitrogen incorporation in graphene films by nitrogen plasma treatment: Effect of airborne contaminants. Carbon, 2019, 144, 532-539.	5.4	18
2872	Carbon layer supported nickel catalyst for sodium borohydride (NaBH ₄) dehydrogenation. International Journal of Hydrogen Energy, 2019, 44, 2943-2950.	3.8	43
2873	Finite element analysis of the effect of interlayer on interfacial stress transfer in layered graphene nanocomposites. Journal of Materials Science and Technology, 2019, 35, 1147-1152.	5.6	4

#	ARTICLE	IF	CITATIONS
2874	Fast response electrochemical capacitor electrodes created by laser-reduction of carbon nanodots. <i>Materials Today Energy</i> , 2019, 11, 114-119.	2.5	19
2875	The Role of Graphene-Based Derivative as Interfacial Layer in Graphene/n-Si Schottky Barrier Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800555.	0.8	21
2876	One-step growth of reduced graphene oxide on arbitrary substrates. <i>Carbon</i> , 2019, 144, 457-463.	5.4	12
2877	Three-dimensional macroporous graphene-wrapped zero-valent copper nanoparticles as efficient micro-electrolysis-promoted Fenton-like catalysts for metronidazole removal. <i>Science of the Total Environment</i> , 2019, 658, 219-233.	3.9	72
2878	Investigation of Thermal Properties of Graphene-Coated Membranes by Laser Irradiation to Remove Biofoulants. <i>Environmental Science & Technology</i> , 2019, 53, 903-911.	4.6	11
2879	Electrodeposition and Characterization of a Tin Sulfide-Electrochemically Reduced Graphene Oxide Heterojunction. <i>ChemElectroChem</i> , 2019, 6, 1047-1056.	1.7	9
2880	Removal of methylene blue and tetracycline from water using peanut shell derived adsorbent prepared by sulfuric acid reflux. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102816.	3.3	61
2881	Low temperature synthesis of graphene nanocomposites using surface passivation of porous silicon nanocrystallites with carbon atoms. <i>Diamond and Related Materials</i> , 2019, 92, 53-60.	1.8	5
2882	Raman Spectroscopy of Two-Dimensional Materials. <i>Springer Series in Materials Science</i> , 2019, , .	0.4	18
2883	Graphene/pyrrolic-structured nitrogen-doped CNT nanocomposite supports for Pd-catalysed Heck coupling and chemoselective hydrogenation of nitroarenes. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	6
2884	Growth of graphene on SiO ₂ with hexagonal boron nitride buffer layer. <i>Applied Surface Science</i> , 2019, 475, 6-11.	3.1	14
2885	Millimeter-Scale Growth of Single-Oriented Graphene on a Palladium Silicide Amorphous Film. <i>ACS Nano</i> , 2019, 13, 1127-1135.	7.3	1
2886	Electrochemical Characterization of Graphene Microelectrodes for Biological Applications. <i>ChemNanoMat</i> , 2019, 5, 427-435.	1.5	5
2887	Spatially Resolved Covalent Functionalization Patterns on Graphene. <i>Angewandte Chemie</i> , 2019, 131, 1338-1342.	1.6	6
2888	Optimum reproduction and characterization of graphene on copper foils by low pressure chemical vapor deposition. <i>Materials Chemistry and Physics</i> , 2019, 224, 286-292.	2.0	7
2889	Direct Growth of Graphene on Fused Quartz by Atmospheric Pressure Chemical Vapor Deposition with Acetylene. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2370-2377.	1.5	9
2890	Vibrational properties of germanane and fluorinated germanene in the chair, boat, and zigzag-line configurations. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 075301.	0.7	10
2891	Spatially Resolved Covalent Functionalization Patterns on Graphene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1324-1328.	7.2	14

#	ARTICLE	IF	CITATIONS
2892	Synthesis of three dimensional N&S co-doped rGO foam with high capacity and long cycling stability for supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 57-65.	5.0	29
2893	Grain selective Cu oxidation and anomalous shift of graphene 2D Raman peak in the graphene-Cu system. <i>2D Materials</i> , 2019, 6, 015023.	2.0	11
2894	Effect of sliding conditions on the macroscale lubricity of multilayer graphene coatings grown on nickel by CVD. <i>Surface and Coatings Technology</i> , 2019, 358, 247-255.	2.2	5
2895	Structural Quantification for Graphene and Related Two-Dimensional Materials by Raman Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 468-481.	3.2	20
2896	Adhesion between graphene and polymers: A surface analysis perspective. <i>EXPRESS Polymer Letters</i> , 2019, 13, 52-64.	1.1	6
2897	Quantum Capacitance Based Amplified Graphene Phononics for Studying Neurodegenerative Diseases. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 169-175.	4.0	12
2898	Graphene films decorated with TiO ₂ grown by atomic layer deposition: Characterization and photocatalytic activity study under UV-visible light. <i>Applied Surface Science</i> , 2019, 470, 484-495.	3.1	13
2899	Environmentally Friendly Functionalization of Porous Carbon Electrodes for Aqueous-Based Electrochemical Capacitors. <i>IEEE Nanotechnology Magazine</i> , 2019, 18, 73-82.	1.1	10
2900	Chiral phonons in two-dimensional materials. <i>2D Materials</i> , 2019, 6, 012002.	2.0	40
2901	Synthesis and spectroscopic properties of 1-benzyl-5,6 diamino-2-thiouracil bonded graphene oxide. <i>Journal of Molecular Structure</i> , 2019, 1182, 95-99.	1.8	0
2902	Raman Spectroscopy of Monolayer and Multilayer Graphenes. <i>Springer Series in Materials Science</i> , 2019, , 1-27.	0.4	2
2903	Raman Spectroscopy Study of Two-Dimensional Materials Under Strain. <i>Springer Series in Materials Science</i> , 2019, , 111-129.	0.4	1
2904	The role of oxygen defects in magnetic properties of gamma-irradiated reduced graphene oxide. <i>Journal of Alloys and Compounds</i> , 2019, 784, 134-148.	2.8	22
2905	Synthesis and characterization of graphene oxide functionalized with MnFe ₂ O ₄ and supported on activated carbon for glyphosate adsorption in fixed bed column. <i>Chemical Engineering Research and Design</i> , 2019, 123, 59-71.	2.7	49
2906	History and National Initiatives of Carbon Nanotube and Graphene Research in Brazil. <i>Brazilian Journal of Physics</i> , 2019, 49, 288-300.	0.7	7
2907	Low-Temperature Graphene Growth by Forced Convection of Plasma-Excited Radicals. <i>Nano Letters</i> , 2019, 19, 739-746.	4.5	37
2908	Open-source automated chemical vapor deposition system for the production of two-dimensional nanomaterials. <i>PLoS ONE</i> , 2019, 14, e0210817.	1.1	7
2909	Precisely controllable hybrid graphene scaffold reveals size effects on differentiation of neural progenitor cells in mimicking neural network. <i>Carbon</i> , 2019, 145, 90-99.	5.4	14

#	ARTICLE	IF	CITATIONS
2910	Raman analysis of strained graphene grown on dewetted cobalt. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 499-508.	1.2	7
2911	Rapid synthesis of graphene by chemical vapor deposition using liquefied petroleum gas as precursor. <i>Carbon</i> , 2019, 145, 462-469.	5.4	23
2912	The effect of multiwalled carbon nanotubes on the rheological behaviour of bitumen. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 566, 113-119.	2.3	17
2913	A single step strategy to fabricate graphene fibres via electrochemical exfoliation for micro-supercapacitor applications. <i>Electrochimica Acta</i> , 2019, 299, 645-653.	2.6	35
2914	Graphene Nanoflake Uptake Mediated by Scavenger Receptors. <i>Nano Letters</i> , 2019, 19, 1260-1268.	4.5	45
2915	Unraveling the Factors Affecting the Electrochemical Performance of MoS ₂ â€“Carbon Composite Catalysts for Hydrogen Evolution Reaction: Surface Defect and Electrical Resistance of Carbon Supports. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5037-5045.	4.0	20
2916	Carbon-based nanomaterials as an emerging platform for theranostics. <i>Materials Horizons</i> , 2019, 6, 434-469.	6.4	310
2917	Carbon Dots Dispersed on Graphene/SiO ₂ /Si: A Morphological Study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800559.	0.8	6
2918	Single-step growth of graphene and graphene-based nanostructures by plasma-enhanced chemical vapor deposition. <i>Nanotechnology</i> , 2019, 30, 162001.	1.3	37
2919	Unsaturated edge-anchored Ni single atoms on porous microwave exfoliated graphene oxide for electrochemical CO ₂ . <i>Applied Catalysis B: Environmental</i> , 2019, 243, 294-303.	10.8	243
2920	The role of ion dose on C implanted multilayered graphene films in Ni as host substrate. <i>Ceramics International</i> , 2019, 45, 2194-2200.	2.3	2
2921	Ion sensitive field effect transistor based on graphene and ionophore hybrid membrane for phosphate detection. <i>Microsystem Technologies</i> , 2019, 25, 3357-3364.	1.2	8
2922	Tribological behavior of graphene nanoplatelet reinforced 3YTZP composites. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1381-1388.	2.8	20
2923	Raman Spectroscopy Investigation of Laserâ€“Irradiated Singleâ€“Walled Carbon Nanotube Films. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800412.	0.7	3
2924	Enhanced performance of 3D printed graphene electrodes after electrochemical pre-treatment: Role of exposed graphene sheets. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 837-848.	4.0	99
2925	Growth of lateral graphene/h-BN heterostructure on copper foils by chemical vapor deposition. <i>Nanotechnology</i> , 2019, 30, 03LT01.	1.3	12
2926	A general one-pot synthetic strategy to reduced graphene oxide (rGO) and rGO-nanoparticle hybrid materials. <i>Carbon</i> , 2019, 143, 73-84.	5.4	32
2927	Vertical GaN nanocolumns grown on graphene intermediated with a thin AlN buffer layer. <i>Nanotechnology</i> , 2019, 30, 015604.	1.3	21

#	ARTICLE	IF	CITATIONS
2928	Transparent Graphene/PEDOT:PSS Microelectrodes for Electrode and Optophysiology. <i>Advanced Materials Technologies</i> , 2019, 4, 1800318.	3.0	36
2929	Electrochemically Exfoliated Phosphorene-Graphene Hybrid for Sodium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1800328.	4.6	66
2930	Catalytic activity of several carbons with different structures for methane decomposition and by-produced carbons. <i>Applied Surface Science</i> , 2019, 473, 291-297.	3.1	52
2931	Anticorrosion performance of Zn-Al-Gr/waterborne epoxy composite coatings on mild steel. <i>Materials Research Express</i> , 2019, 6, 0950a8.	0.8	3
2932	Direct transfer of the CVD-grown graphene on copper foils on SiO ₂ substrate under supercritical CO ₂ assisted-cleaning technique. <i>Materials Today Communications</i> , 2019, 18, 184-190.	0.9	7
2933	Tension-Induced Raman Enhancement of Graphene Membranes in the Stretched State. <i>Small</i> , 2019, 15, e1804337.	5.2	18
2934	Organic WORM memory with carbon nanoparticle/epoxy active layer. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	33
2935	Graphene layer formation in pinewood by nanosecond and picosecond laser irradiation. <i>Applied Surface Science</i> , 2019, 471, 154-161.	3.1	52
2936	Carbon Nanotubes: Electronic Structure and Spectroscopy. , 2019, , 205-218.		5
2937	Durability study of platinum nanoparticles supported on gas-phase synthesized graphene in oxygen reduction reaction conditions. <i>Applied Surface Science</i> , 2019, 467-468, 1181-1186.	3.1	29
2938	Graphene: Properties and Applications. , 2019, , 287-304.		4
2939	Enhancing the adhesion of graphene to polymer substrates by controlled defect formation. <i>Nanotechnology</i> , 2019, 30, 015704.	1.3	12
2940	Raman and IR signature of pristine and BN- doped β -graphyne from first-principle. <i>Carbon</i> , 2019, 141, 652-662.	5.4	21
2941	High-quality liquid phase-pulsed laser ablation graphene synthesis by flexible graphite exfoliation. <i>Journal of Materials Science and Technology</i> , 2019, 35, 292-299.	5.6	24
2942	Synthesis of CoAl-LDH nanosheets and N-doped graphene nanocomposite via Successive Ionic Layer Deposition method and study of their electrocatalytic properties for hydrogen evolution in alkaline media. <i>Journal of Solid State Chemistry</i> , 2019, 270, 156-161.	1.4	23
2943	Tuning of surface properties of poly(vinyl alcohol)/graphene oxide nanocomposites. <i>Polymer Composites</i> , 2019, 40, E312.	2.3	17
2944	Rational design and preparation of flame retardant silk fabrics coated with reduced graphene oxide. <i>Applied Surface Science</i> , 2019, 474, 203-210.	3.1	44
2945	Synthesis of Ultrathin Graphdiyne Film Using a Surface Template. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2632-2637.	4.0	103

#	ARTICLE	IF	CITATIONS
2946	Effect of graphene size on the photocatalytic activity of TiO ₂ /poly(3-hexylthiophene)/graphene composite films. <i>Catalysis Today</i> , 2019, 321-322, 74-80.	2.2	16
2947	A hot-pressing pretreatment of Cu substrate and dry transfer method of multilayer-stacked graphene for ionic electroactive polymers. <i>Thin Solid Films</i> , 2020, 698, 136848.	0.8	3
2948	Graphene nanoribbon-TiO ₂ -quantum dots hybrid photoanode to boost the performance of photoelectrochemical for hydrogen generation. <i>Catalysis Today</i> , 2020, 340, 161-169.	2.2	15
2949	Efficiency enhancement of photocatalytic degradation of tetracycline using reduced graphene oxide coordinated titania nanoplatelet. <i>Catalysis Today</i> , 2020, 350, 171-183.	2.2	17
2950	Three dimensional (3D) nanostructured assembly of MoS ₂ -WS ₂ /Graphene as high performance electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 10475-10485.	3.8	26
2951	Synthesis of few-layer N-doped graphene from expandable graphite with melamine and its application in supercapacitors. <i>Chinese Chemical Letters</i> , 2020, 31, 559-564.	4.8	17
2952	Construction of three-dimensional nitrogen-doped graphene aerogel (NGA) supported cobalt catalysts for Fischer-Tropsch synthesis. <i>Catalysis Today</i> , 2020, 355, 10-16.	2.2	12
2953	Wrinkle networks in exfoliated multilayer graphene and other layered materials. <i>Carbon</i> , 2020, 156, 24-30.	5.4	23
2954	Pseudocapacitance controlled fast-charging and long-life lithium ion battery achieved via a 3D mutually embedded VPO ₄ /rGO electrode. <i>Journal of Alloys and Compounds</i> , 2020, 812, 152135.	2.8	18
2955	A new twist in graphene research: Twisted graphene. <i>Carbon</i> , 2020, 156, 470-487.	5.4	67
2956	Synthesis and Optical Properties of MoS ₂ /Graphene Nanocomposite. <i>Journal of Electronic Materials</i> , 2020, 49, 969-979.	1.0	10
2957	Formation of C ₃ N ₄ thin films through the stoichiometric transfer of the bulk synthesized gC ₃ N ₄ using RFM sputtering. <i>Vacuum</i> , 2020, 171, 108937.	1.6	9
2958	Graphene related materials for thermal management. <i>2D Materials</i> , 2020, 7, 012001.	2.0	161
2959	Fabrication of vertical van der Waals gap array using single-and multi-layer graphene. <i>Nanotechnology</i> , 2020, 31, 035304.	1.3	2
2960	Photocorrosion suppression and photoelectrochemical (PEC) enhancement of ZnO via hybridization with graphene nanosheets. <i>Applied Surface Science</i> , 2020, 502, 144189.	3.1	62
2961	Comparative analysis of microstructure and reactive sites for nuclear graphite IG-110 and graphite matrix A3. <i>Journal of Nuclear Materials</i> , 2020, 528, 151802.	1.3	25
2962	Role of reinforcement types and silica nanoparticles on tribofilm growth at PTFE-Steel interface. <i>Tribology International</i> , 2020, 143, 106035.	3.0	30
2963	High Stability of Epitaxial Graphene on a SiC Substrate. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900357.	0.7	1

#	ARTICLE	IF	CITATIONS
2964	Fast lithium storage in defect-rich carbon encapsulated Fe ₃ C nanoparticles as anode material toward high-energy lithium-ion capacitors. <i>Ionics</i> , 2020, 26, 23-31.	1.2	4
2965	Thermal Management of High-Power Switching Transistors Using Thick CVD-Grown Graphene Nanomaterial. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 578-590.	5.4	9
2966	Preparation of Epoxidized Natural Rubbers with Improved Aging Resistance by Covalently Bridging Graphene and Antioxidants. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 1553-1565.	1.9	4
2967	FLG/silver nanoparticles: Nanocomposite by green synthesis. <i>Diamond and Related Materials</i> , 2020, 101, 107618.	1.8	7
2968	Electron transfer from FAD-dependent glucose dehydrogenase to single-sheet graphene electrodes. <i>Electrochimica Acta</i> , 2020, 330, 134998.	2.6	13
2969	Cu(OH) ₂ nanowires/graphene oxide composites based QCM humidity sensor with fast-response for real-time respiration monitoring. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127313.	4.0	45
2970	Tailoring the Electrochemical Production of H ₂ O ₂ : Strategies for the Rational Design of High-Performance Electrocatalysts. <i>Small</i> , 2020, 16, e1902845.	5.2	114
2971	Morphology-dependent electrochemical performance of MnO ₂ nanostructures on graphene towards efficient capacitive deionization. <i>Electrochimica Acta</i> , 2020, 330, 135202.	2.6	55
2972	Coke-derived few layer graphene-like materials by mild planetary milling exfoliation. <i>Fuel</i> , 2020, 262, 116455.	3.4	8
2973	Bi ₄ TaO ₈ Cl/Graphene nanocomposite for photocatalytic water splitting. <i>Advanced Powder Technology</i> , 2020, 31, 381-386.	2.0	7
2974	Interfacial interaction-induced temperature-dependent mechanical property of graphene-PDMS nanocomposite. <i>Journal of Materials Science</i> , 2020, 55, 1553-1561.	1.7	18
2975	Pit formation with graphene growth on copper foils by ethanol chemical vapor deposition. <i>Diamond and Related Materials</i> , 2020, 101, 107602.	1.8	2
2976	A sandwich-like porous hard carbon/graphene hybrid derived from rapeseed shuck for high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152849.	2.8	15
2977	Enhancement in the mobility of solution processable polymer based FET by incorporating graphene interlayer. <i>Superlattices and Microstructures</i> , 2020, 137, 106331.	1.4	8
2978	A non-enzymatic sensor based on three-dimensional graphene foam decorated with Cu-xCu ₂ O nanoparticles for electrochemical detection of glucose and its application in human serum. <i>Materials Science and Engineering C</i> , 2020, 108, 110216.	3.8	72
2979	Simultaneous ultrasensitive determination of dihydroxybenzene isomers using GC electrodes modified with nitrogen-doped carbon nano-onions. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127325.	4.0	24
2980	High-performance asymmetric supercapacitors using holey graphene electrodes and redox electrolytes. <i>Carbon</i> , 2020, 157, 298-307.	5.4	38
2981	Characterization of two-dimensional materials from Raman spectral data. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 37-45.	1.2	4

#	ARTICLE	IF	CITATIONS
2982	Surface functionalization of epitaxial graphene using ion implantation for sensing and optical applications. <i>Carbon</i> , 2020, 157, 169-184.	5.4	15
2983	Microstructure, mechanical and high temperature tribological behaviour of graphene nanoplatelets reinforced plasma sprayed titanium nitride coating. <i>Journal of the European Ceramic Society</i> , 2020, 40, 660-671.	2.8	44
2984	1-Pyrenemethanol derived nanocrystal reinforced graphene films with high thermal conductivity and flexibility. <i>Nanotechnology</i> , 2020, 31, 065602.	1.3	8
2985	Thermally and electrically conductive multifunctional sensor based on epoxy/graphene composite. <i>Nanotechnology</i> , 2020, 31, 075702.	1.3	64
2986	Cotton-derived oxygen/sulfur co-doped hard carbon as advanced anode material for potassium-ion batteries. <i>Chinese Chemical Letters</i> , 2020, 31, 217-222.	4.8	99
2987	Molecular-Level Insights into Biologically Driven Graphite Exfoliation for the Generation of Graphene in Aqueous Media. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2219-2228.	1.5	17
2988	Electrochemical Properties of Nitrogen and Oxygen Doped Reduced Graphene Oxide. <i>Energies</i> , 2020, 13, 312.	1.6	22
2989	A modified carbon paste electrode based on Fe ₃ O ₄ @multi-walled carbon nanotubes@polyacrylonitrile nanofibers for determination of imatinib anticancer drug. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 281-294.	1.5	35
2990	In Situ Growth of Metal-Organic Framework HKUST-1 on Graphene Oxide Nanoribbons with High Electrochemical Sensing Performance in Imatinib Determination. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4859-4869.	4.0	64
2991	Light and complex 3D MoS ₂ /graphene heterostructures as efficient catalysts for the hydrogen evolution reaction. <i>Nanoscale</i> , 2020, 12, 2715-2725.	2.8	35
2992	MOF-derived nanostructured catalysts for low-temperature ammonia synthesis. <i>Catalysis Science and Technology</i> , 2020, 10, 105-112.	2.1	13
2993	Structural, optical and terahertz properties of graphene-mesoporous silicon nanocomposites. <i>Nanoscale Advances</i> , 2020, 2, 340-346.	2.2	8
2994	Boron-doped few-layer graphene nanosheet gas sensor for enhanced ammonia sensing at room temperature. <i>RSC Advances</i> , 2020, 10, 1007-1014.	1.7	46
2995	Sulfur doped carbon nanohorns towards oxygen reduction reaction. <i>Diamond and Related Materials</i> , 2020, 103, 107671.	1.8	19
2996	Fabrication and characterization of quantum dot devices based on tetralayer graphene/hexagonal boron nitride heterostructures. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 024001.	0.8	1
2997	Wallpapering-inspired spreading and wrinkling of atomically-thin materials. <i>Applied Surface Science</i> , 2020, 507, 145184.	3.1	2
2998	Effect and mechanism analysis of functionalized multi-walled carbon nanotubes (MWCNTs) on C-S-H gel. <i>Cement and Concrete Research</i> , 2020, 128, 105955.	4.6	43
2999	Raman spectroscopy of intruded coals from the Illinois Basin: Correlation with rank and estimated alteration temperature. <i>International Journal of Coal Geology</i> , 2020, 219, 103369.	1.9	21

#	ARTICLE	IF	CITATIONS
3000	Performance of oil sorbents based on reduced graphene oxide-silica composite aerogels. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103632.	3.3	37
3001	Commercial silk-based electronic textiles for NO ₂ sensing. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127596.	4.0	22
3002	Nickel-copper graphene foam prepared by atmospheric pressure chemical vapour deposition for supercapacitor applications. <i>Surface and Coatings Technology</i> , 2020, 383, 125230.	2.2	22
3003	Highly Monochromatic Electron Emission from Graphene/Hexagonal Boron Nitride/Si Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4061-4067.	4.0	24
3004	p-Type Epitaxial Graphene on Cubic Silicon Carbide on Silicon for Integrated Silicon Technologies. <i>ACS Applied Nano Materials</i> , 2020, 3, 830-841.	2.4	18
3005	Nanohybrid TiN/Vertical graphene for high-performance supercapacitor applications. <i>Energy Storage Materials</i> , 2020, 26, 138-146.	9.5	54
3006	Novel Sr ₅ (PO ₄) ₂ SiO ₄ -graphene nanocomposites for applications in bone regeneration in vitro. <i>Applied Surface Science</i> , 2020, 507, 145176.	3.1	10
3007	Fabrication of metal nanoparticles-graphene nanocomposites and study of the charge transfer effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 118, 113887.	1.3	8
3008	Ion beam engineered graphene oxide membranes for mono-/di-valent metal ions separation. <i>Carbon</i> , 2020, 158, 598-606.	5.4	18
3009	Solution-gated nitrate sensitive field effect transistor with hybrid film: CVD graphene/polymer selective membrane. <i>Organic Electronics</i> , 2020, 78, 105551.	1.4	6
3010	Carbon-coated ultrasmall gadolinium oxide (Gd ₂ O ₃ @C) nanoparticles: Application to magnetic resonance imaging and fluorescence properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124261.	2.3	19
3011	Sulfur doped carbon porous as an efficient catalyst for sustainable energy processes. <i>Environmental Progress and Sustainable Energy</i> , 2020, 39, 13299.	1.3	4
3012	Plasma-etched functionalized graphene as a metal-free electrode catalyst in solid acid fuel cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2445-2452.	5.2	20
3013	Chemical bonding black phosphorus with TiO ₂ and carbon toward high-performance lithium storage. <i>Journal of Power Sources</i> , 2020, 449, 227549.	4.0	32
3014	Combustion synthesis of battery-type positive electrodes for robust aqueous hybrid supercapacitor. <i>Journal of Energy Storage</i> , 2020, 27, 101160.	3.9	4
3015	Synthesis of amorphous and graphitized porous nitrogen-doped carbon spheres as oxygen reduction reaction catalysts. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 1-15.	1.5	23
3016	3D hierarchically porous NiO/Graphene hybrid paper anode for long-life and high rate cycling flexible Li-ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 47, 172-179.	7.1	58
3017	Temperature assisted reorganization of silver nanoparticles in free-standing, flexible chitosan functionalized reduced graphene oxide thick films: A potential SERS probe for folic acid sensing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 252, 114454.	1.7	4

#	ARTICLE	IF	CITATIONS
3018	Characteristics of pn junction diode made of multi-layer graphene. Japanese Journal of Applied Physics, 2020, 59, 015003.	0.8	3
3019	Fast Response Characteristics of Flexible Ultraviolet Photosensors with GaN Nanowires and Graphene. ACS Applied Materials & Interfaces, 2020, 12, 970-979.	4.0	22
3020	Directionality of metal-induced crystallization and layer exchange in amorphous carbon/nickel thin film stacks. Carbon, 2020, 159, 656-667.	5.4	7
3021	Organic solvent supported fabrication of transparent free standing graphene oxide membranes. Ceramics International, 2020, 46, 5394-5401.	2.3	2
3022	Constraint effect caused by graphene on in situ grown Gr@WO ₃ -nanobrick hybrid material. Ceramics International, 2020, 46, 8711-8718.	2.3	21
3023	Nano-/Micro-confined Water in Graphene Hydrogel as Superadsorbents for Water Purification. Nano-Micro Letters, 2020, 12, 2.	14.4	39
3024	Enhanced Optical Absorption and Interfacial Carrier Separation of CsPbBr ₃ /Graphene Heterostructure: Experimental and Theoretical Insights. ACS Applied Materials & Interfaces, 2020, 12, 3086-3095.	4.0	23
3025	Macrophage inflammatory and metabolic responses to graphene-based nanomaterials differing in size and functionalization. Colloids and Surfaces B: Biointerfaces, 2020, 186, 110709.	2.5	30
3026	Confining Li ₂ S ₆ catholyte in 3D graphene sponge with ultrahigh total pore volume and oxygen-containing groups for lithium-sulfur batteries. Carbon, 2020, 158, 244-255.	5.4	39
3027	S, N dual-doped porous carbon materials derived from biomass for Na ion storage and O ₂ electroreduction. Microporous and Mesoporous Materials, 2020, 294, 109930.	2.2	14
3028	New cationic heptamethinecyanine-graphene hybrid materials. Dyes and Pigments, 2020, 175, 108047.	2.0	2
3029	N- and S-codoped graphene hollow nanoballs as an efficient Pt-free electrocatalyst for dye-sensitized solar cells. Journal of Power Sources, 2020, 449, 227470.	4.0	22
3030	Synthesis of fluorescent, triangular gold nanoplates through surface capping by a cationic diacetylene. Materials Chemistry and Physics, 2020, 242, 122472.	2.0	3
3031	Low cost synthesis of reduced graphene oxide using biopolymer for influenza virus sensor. Materials Science and Engineering C, 2020, 108, 110465.	3.8	66
3032	An ammonia sensor composed of polypyrrole synthesized on reduced graphene oxide by electropolymerization. Sensors and Actuators B: Chemical, 2020, 305, 127423.	4.0	64
3033	Spheroidal growth of graphite in arc plasma treatment. Chemical Physics Letters, 2020, 739, 136986.	1.2	1
3034	An electrodeposited Au nanoparticle/porous graphene nanoribbon composite for electrochemical detection of alpha-fetoprotein. Materials Chemistry and Physics, 2020, 242, 122514.	2.0	37
3035	In situ nitrogen-doped carbon nano-onions for ultrahigh-rate asymmetric supercapacitor. Electrochimica Acta, 2020, 331, 135363.	2.6	39

#	ARTICLE	IF	CITATIONS
3036	Graphene oxide-silver nanocomposite SERS substrate for sensitive detection of nitro explosives. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1094-1104.	1.1	9
3037	Enhancing the interfacial properties of high-modulus carbon fiber reinforced polymer matrix composites via electrochemical surface oxidation and grafting. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 130, 105719.	3.8	50
3038	Doping charge transfer in Pt/CNT systems induced by laser power heating. <i>Chemical Physics</i> , 2020, 530, 110591.	0.9	5
3039	Photocatalytic reduction for graphene oxide by PbTiO ₃ with high polarizability and its electrocatalytic application in pyrrole detection. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 502-509.	5.0	15
3040	Probing number of layers and quality assessment of mechanically exfoliated graphene via Raman fingerprint. <i>Materials Today Communications</i> , 2020, 22, 100795.	0.9	22
3041	On the Thermal Stability of Aryl Groups Chemisorbed on Graphite. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1980-1990.	1.5	15
3042	On the Structural, Morphological, and Electrical Properties of Carbon Nanowalls Obtained by Plasma-Enhanced Chemical Vapor Deposition. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-6.	1.5	6
3043	Three-phase hybrid facilitated transport hollow fiber membranes for enhanced CO ₂ separation. <i>Applied Materials Today</i> , 2020, 21, 100801.	2.3	12
3044	Investigation of epitaxial graphene via Raman spectroscopy: Origins of phonon mode asymmetries and line width deviations. <i>Carbon</i> , 2020, 170, 666-676.	5.4	12
3045	3D network structure and hydrophobic Ni-G-WO _{3-x} solar-driven interfacial evaporator for highly efficient steam generation. <i>Solar Energy Materials and Solar Cells</i> , 2020, 217, 110593.	3.0	22
3046	Rapid preparation of expanded graphite at low temperature. <i>New Carbon Materials</i> , 2020, 35, 262-268.	2.9	25
3047	Synthesis and growth mechanism of bamboo like N-doped CNT/Graphene nanostructure incorporated with hybrid metal nanoparticles for overall water splitting. <i>Carbon</i> , 2020, 170, 452-463.	5.4	59
3048	High performance graphene-based PVF foam for lead removal from water. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11861-11875.	2.6	20
3049	Graphene/silver nanoflower hybrid coating for improved cycle performance of thermally-operated soft actuators. <i>Scientific Reports</i> , 2020, 10, 17553.	1.6	3
3050	Rheology of graphene oxide suspended in yield stress fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020, 286, 104426.	1.0	16
3051	Fluorine-free synthesis of reduced graphene oxide modified anatase TiO ₂ nanoflowers photoanode with highly exposed {0 0 1} facets for high performance dye-sensitized solar cell. <i>Solar Energy</i> , 2020, 211, 1017-1026.	2.9	18
3052	New Class of Efficient T ₂ Magnetic Resonance Imaging Contrast Agent: Carbon-Coated Paramagnetic Dysprosium Oxide Nanoparticles. <i>Pharmaceuticals</i> , 2020, 13, 312.	1.7	8
3053	Raman response of topologically protected surface states in sub-micrometric Pb _{0.77} Sn _{0.23} Se flakes. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 2489-2495.	1.2	1

#	ARTICLE	IF	CITATIONS
3054	Gate-tunable two-dimensional superconductivity revealed in flexible wafer-scale hybrid structures. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14605-14610.	2.7	4
3055	Graphene Oxide as a Sensing Material for Gas Detection Based on Nanomechanical Sensors in the Static Mode. <i>Chemosensors</i> , 2020, 8, 82.	1.8	17
3056	Interactions of slow highly charged Bismuth ions with highly oriented pyrolytic graphite surface. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 478, 163-168.	0.6	0
3057	X-ray absorption and photoemission spectroscopy of bulk insulating materials using graphene. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	4
3058	Combining electrochemically reduced graphene oxide and Layer-by-Layer films of magnetite nanoparticles for carbofuran detection. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104294.	3.3	22
3059	Electrochemical impedance spectroscopy correlation among graphene oxide/carbon fibers (GO/CF) composites and GO structural parameters produced at different oxidation degrees. <i>Journal of Materials Research and Technology</i> , 2020, 9, 10841-10853.	2.6	12
3060	Field-effect transistors made of graphene grown on recycled copper foils. <i>Materials Chemistry and Physics</i> , 2020, 256, 123665.	2.0	4
3061	Chemical Patterning of Graphene <i>via</i> Metal-Assisted Highly Energetic Electron Irradiation for Graphene Homojunction-Based Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47802-47810.	4.0	11
3062	Improving the Performance of Printable Carbon Electrodes by Femtosecond Laser Treatment. <i>Journal of Carbon Research</i> , 2020, 6, 48.	1.4	3
3063	Bacterial-cellulose-derived carbonaceous electrode materials for water desalination via capacitive method: The crucial role of defect sites. <i>Desalination</i> , 2020, 492, 114596.	4.0	18
3064	Formation of a N ₂ O ₅ graphite intercalation compound by ozone treatment of natural graphite. <i>Green Chemistry</i> , 2020, 22, 5463-5469.	4.6	9
3065	Pencil paper on-skin electronics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18292-18301.	3.3	118
3066	Investigating the exfoliation behavior of MoS ₂ and graphite in water: A comparative study. <i>Applied Surface Science</i> , 2020, 512, 145588.	3.1	22
3067	Pseudo-capacitive behavior of multi-walled carbon nanotubes decorated with nickel and manganese (hydr)oxides nanoparticles. <i>Journal of Energy Storage</i> , 2020, 31, 101583.	3.9	13
3068	Brunauer-Emmett-Teller (BET) specific surface area analysis of different graphene materials: A comparison to their structural regularity and electrical properties. <i>Solid State Communications</i> , 2020, 320, 114004.	0.9	72
3069	Function composition of modified reduced graphene oxide. <i>Materials Today Chemistry</i> , 2020, 17, 100311.	1.7	3
3070	Simultaneously environmental-friendly exfoliation of boron nitride nanosheets and graphene and the preparation of high thermal conductivity nano-mixture composite membranes. <i>Materials Characterization</i> , 2020, 168, 110508.	1.9	18
3071	2D materials: Excellent substrates for surface-enhanced Raman scattering (SERS) in chemical sensing and biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 130, 115983.	5.8	66

#	ARTICLE	IF	CITATIONS
3072	Chemical versus electrochemical: What is the best synthesis method to ternary GO/WO ₃ NW/PAni nanocomposites to improve performance as supercapacitor?. <i>Electrochimica Acta</i> , 2020, 356, 136786.	2.6	12
3073	Heater-Free and Substrate-Independent Growth of Vertically Standing Graphene Using A High-Flux Plasma-Enhanced Chemical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000854.	1.9	8
3074	Stacked Multilayer Organic WORM Memory with Epoxy Resin and Carbon Nanospheres. <i>Journal of Electronic Materials</i> , 2020, 49, 5600-5605.	1.0	1
3075	Insights into electrochemical behavior in laser-scribed electrochemical paper-based analytical devices. <i>Electrochemistry Communications</i> , 2020, 121, 106872.	2.3	18
3076	Strain engineering of 2D semiconductors and graphene: from strain fields to band-structure tuning and photonic applications. <i>Light: Science and Applications</i> , 2020, 9, 190.	7.7	239
3077	Nanoscale characterization of plasma functionalized graphitic flakes using tip-enhanced Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 184708.	1.2	14
3078	A Review of Strategies for the Synthesis of N-Doped Graphene-Like Materials. <i>Nanomaterials</i> , 2020, 10, 2286.	1.9	40
3079	Doping-Induced Stacking Transition in Trilayer Graphene: Implications for Layer Stacking Manipulation. <i>ACS Applied Nano Materials</i> , 2020, 3, 11861-11868.	2.4	9
3080	<i>In situ</i> graphitized hard carbon xerogel: A promising high-performance anode material for Li-ion batteries. <i>Journal of Materials Research</i> , 2020, 35, 2989-3003.	1.2	9
3081	Opening the internal structure for transport of ions: improvement of the structural and chemical properties of single-walled carbon nanohorns for supercapacitor electrodes. <i>RSC Advances</i> , 2020, 10, 38357-38368.	1.7	6
3082	Role of Graphene in Constructing Multilayer Plasmonic SERS Substrate with Graphene/AgNPs as Chemical Mechanism Electromagnetic Mechanism Unit. <i>Nanomaterials</i> , 2020, 10, 2371.	1.9	6
3083	Graphene oxide nano-filler based experimental dentine adhesive. A SEM / EDX, Micro-Raman and microtensile bond strength analysis. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2020, 18, 228080002096693.	0.7	15
3084	Structural and Electrochemical Analysis of Decarburized Graphene Electrodes for Supercapacitor Applications. <i>Crystals</i> , 2020, 10, 1043.	1.0	9
3085	Controlled Size Reduction of Liquid Exfoliated Graphene Micro-Sheets via Tip Sonication. <i>Crystals</i> , 2020, 10, 1049.	1.0	5
3086	Free-Standing Graphene Oxide and Carbon Nanotube Hybrid Papers with Enhanced Electrical and Mechanical Performance and Their Synergy in Polymer Laminates. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8585.	1.8	7
3087	Raman Spectroscopy Imaging of Exceptional Electronic Properties in Epitaxial Graphene Grown on SiC. <i>Nanomaterials</i> , 2020, 10, 2234.	1.9	10
3088	Hybrid Transition Metal Dichalcogenide/Graphene Microspheres for Hydrogen Evolution Reaction. <i>Nanomaterials</i> , 2020, 10, 2376.	1.9	10
3089	Aerographite phonon density of states affects double resonant Raman scattering. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	4

#	ARTICLE	IF	CITATIONS
3090	Highly Porous Reduced Graphene Oxide-Coated Carbonized Cotton Fibers as Supercapacitor Electrodes. <i>ACS Omega</i> , 2020, 5, 32149-32159.	1.6	23
3091	Nonlinear Optical Characterization of 2D Materials. <i>Nanomaterials</i> , 2020, 10, 2263.	1.9	34
3092	Electronic interface and charge carrier density in epitaxial graphene on silicon carbide. A review on metal-graphene contacts and electrical gating. <i>APL Materials</i> , 2020, 8, .	2.2	6
3093	Self-assembled N-doped Q-dot carbon nanostructures as a SERS-active biosensor with selective therapeutic functionality. <i>Sensors and Actuators B: Chemical</i> , 2020, 323, 128703.	4.0	30
3094	MgAl-LDH/graphene protective film: Insight into LDH-graphene interaction. <i>Surface and Coatings Technology</i> , 2020, 401, 126253.	2.2	20
3096	A scalable polymer-free method for transferring graphene onto arbitrary surfaces. <i>Carbon</i> , 2020, 161, 479-485.	5.4	21
3097	Surface coordination chemistry of graphene: Understanding the coordination of single transition metal atoms. <i>Coordination Chemistry Reviews</i> , 2020, 422, 213469.	9.5	33
3098	Feasibility of brackish water and landfill leachate treatment by GO/MoS ₂ -PVA composite membranes. <i>Science of the Total Environment</i> , 2020, 745, 141088.	3.9	39
3099	Avenue to Large-Scale Production of Graphene Quantum Dots from High-Purity Graphene Sheets Using Laboratory-Grade Graphite Electrodes. <i>ACS Omega</i> , 2020, 5, 18831-18841.	1.6	23
3100	Electronic and Transport Properties of Epitaxial Graphene on SiC and 3C-SiC/Si: A Review. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4350.	1.3	11
3101	Engineering Graphene Oxide/Water Interface from First Principles to Experiments for Electrostatic Protective Composites. <i>Polymers</i> , 2020, 12, 1596.	2.0	5
3102	Configurational Effects on Strain and Doping at Graphene-Silver Nanowire Interfaces. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5157.	1.3	2
3103	Synthesis of TiO ₂ /reduced graphene oxide-Al ₂ O ₃ composites and their advanced properties for photocatalysis. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	4
3104	Performance evaluation of carbon nanoparticle-based thermal interface materials. <i>Diamond and Related Materials</i> , 2020, 108, 107976.	1.8	7
3105	Selective Etching of Graphene Membrane Nanopores: From Molecular Sieving to Extreme Permeance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36468-36477.	4.0	22
3106	One-pot synthesis of reduced graphene oxide nanosheets anchored ZnO nanoparticles via microwave approach for electrochemical performance as supercapacitor electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 15456-15465.	1.1	47
3107	Multilayer Graphene Battery Anodes on Plastic Sheets for Flexible Electronics. <i>ACS Applied Energy Materials</i> , 2020, 3, 8410-8414.	2.5	10
3108	Mechanical properties and oxidation behavior of spark plasma sintered (Zr,Ti)B ₂ ceramics with graphene nanoplatelets. <i>Ceramics International</i> , 2020, 46, 26109-26120.	2.3	12

#	ARTICLE	IF	CITATIONS
3109	Poly(azomethine ether)-derived carbon nanofibers for self-standing and binder-free supercapacitor electrode material applications. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2874-2883.	1.6	6
3110	Experimental insight into enzyme catalysis and dynamics: A review on applications of state of art spectroscopic methods. <i>Advances in Protein Chemistry and Structural Biology</i> , 2020, 122, 33-62.	1.0	1
3111	Understanding the selective-sensing mechanism of lysine by fluorescent nanosensors based on graphene quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 242, 118732.	2.0	21
3112	Salt templated and graphene nanoplatelets draped copper (GNP-draped-Cu) composites for dramatic improvements in pool boiling heat transfer. <i>Scientific Reports</i> , 2020, 10, 11941.	1.6	15
3113	Crossed graphene nanoribbons as beam splitters and mirrors for electron quantum optics. <i>Physical Review B</i> , 2020, 102, .	1.1	10
3114	Nanomanufacturing of RGO-CNT Hybrid Film for Flexible Aqueous Al-ion Batteries. <i>Small</i> , 2020, 16, e2002856.	5.2	28
3115	Hydrothermally synthesized MoS ₂ -multi-walled carbon nanotube composite as a novel room-temperature ammonia sensing platform. <i>Applied Surface Science</i> , 2020, 532, 147373.	3.1	66
3116	Facile Morphological Qualification of Transferred Graphene by Phase-Shifting Interferometry. <i>Advanced Materials</i> , 2020, 32, e2002854.	11.1	9
3117	A few-layer graphene for advanced composite PVDF membranes dedicated to water desalination: a comparative study. <i>Nanoscale Advances</i> , 2020, 2, 4728-4739.	2.2	19
3118	Heteropolytungstate-assisted fabrication and deposition of catalytic silver nanoparticles on different reduced graphene oxide supports: Electroreduction of oxygen in alkaline electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2020, 875, 114694.	1.9	8
3119	Cu oxidation kinetics through graphene and its effect on the electrical properties of graphene. <i>RSC Advances</i> , 2020, 10, 35671-35680.	1.7	3
3120	Ultrasonic doping and photo-reduction of graphene oxide films for flexible and high-performance electrothermal heaters. <i>FlatChem</i> , 2020, 24, 100199.	2.8	14
3121	Flexible graphene paper electrode prepared via polyvinyl alcohol-assisted shear-exfoliation for all-solid-state polymer supercapacitor application. <i>Electrochimica Acta</i> , 2020, 363, 137208.	2.6	25
3122	Antibacterial activity of graphene oxide nanosheet against multidrug resistant superbugs isolated from infected patients. <i>Royal Society Open Science</i> , 2020, 7, 200640.	1.1	69
3123	Anomalous Freezing of Low-Dimensional Water Confined in Graphene Nanowrinkles. <i>ACS Nano</i> , 2020, 14, 15587-15594.	7.3	14
3124	Observation of logarithmic Kohn anomaly in monolayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	6
3125	Assemble from 0D to 3D: anchored 0D molybdenum carbide on 3D octahedral amorphous carbon with excellent capacitive properties. <i>Journal of Materials Science</i> , 2020, 55, 15562-15573.	1.7	11
3126	Carbon nanodots: a new precursor to achieve reactive nanoporous HOPG surfaces. <i>Nano Research</i> , 2020, 13, 3425-3432.	5.8	3

#	ARTICLE	IF	CITATIONS
3127	Reversible Switching of Charge Transfer at the Graphene–Mica Interface with Intercalating Molecules. <i>ACS Nano</i> , 2020, 14, 11594-11604.	7.3	7
3128	Ultrathin Al Oxide Seed Layer for Atomic Layer Deposition of High- $\hat{\rho}$ Al ₂ O ₃ Dielectrics on Graphene. <i>Chinese Physics Letters</i> , 2020, 37, 076801.	1.3	5
3129	<p>Efficacy and Molecular Effects of a Reduced Graphene Oxide/Fe₃O₄ Nanocomposite in Photothermal Therapy Against Cancer</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6421-6432.	3.3	32
3130	Electrodeposited Films of Graphene, Carbon Nanotubes, and Their Mixtures for Supercapacitor Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 10003-10013.	2.4	17
3131	Preliminary study on the preparation of graphene from coke with a combined chemical and physical routine. <i>Metallurgical Research and Technology</i> , 2020, 117, 605.	0.4	2
3132	Intercorrelation between physical and electrochemical behavior of nitrogen-doping in graphene for symmetric supercapacitor electrode. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	14
3133	In Situ-Forming Magnetic Fe ₃ O ₄ Nanoroses on Defect-Controllable Mesoporous Graphene Oxide for Enzyme-Mimic Sensing. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17934-17943.	1.8	7
3134	A comparative experimental and theoretical study of the mechanism of graphene oxide mild reduction by ascorbic acid and <i>N</i> -acetyl cysteine for biomedical applications. <i>Materials Advances</i> , 2020, 1, 2745-2754.	2.6	13
3135	Reduced Graphene Oxide Decorated with Dispersed Gold Nanoparticles: Preparation, Characterization and Electrochemical Evaluation for Oxygen Reduction Reaction. <i>Energies</i> , 2020, 13, 4307.	1.6	16
3136	Investigation of Electrochemical Charge Storage Efficiency of NiCo ₂ Se ₄ /RGO Composites Derived at Varied Duration and Its Asymmetric Supercapacitor Device. <i>Energy & Fuels</i> , 2020, 34, 13056-13066.	2.5	43
3137	Partial Pressure Assisted Growth of Single-Layer Graphene Grown by Low-Pressure Chemical Vapor Deposition: Implications for High-Performance Graphene FET Devices. <i>ACS Omega</i> , 2020, 5, 22109-22118.	1.6	6
3138	High-field electromagnetic radiation converts carbon nanotubes to nanoribbons embedded with carbon nanocrystals. <i>Journal of Applied Physics</i> , 2020, 128, 024305.	1.1	2
3139	Chemical Vapour Deposition of Graphene—Synthesis, Characterisation, and Applications: A Review. <i>Molecules</i> , 2020, 25, 3856.	1.7	155
3140	Relationship between mobility and strain in CVD graphene on <i>h</i> -BN. <i>AIP Advances</i> , 2020, 10, .	0.6	8
3141	Research progress on the characterization and repair of graphene defects. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 1179-1190.	2.4	10
3142	Polyethylene: graphene—a magnetic tunable metacomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 18344-18359.	1.1	0
3143	Laser-Induced Carbonization of Natural Organic Precursors for Flexible Electronics. <i>Advanced Electronic Materials</i> , 2020, 6, 2000463.	2.6	22
3144	Preliminary study of linearity response of $\hat{\rho}$ -irradiated graphene oxide as a novel dosimeter using the Raman spectroscopy. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	7

#	ARTICLE	IF	CITATIONS
3145	Effect of Synthesis Temperature of Magneticâ€“Fluorescent Nanoparticles on Properties and Cellular Imaging. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 4597-4605.	1.9	3
3146	Multibit optoelectronic memory using graphene/diamond (carbon sp ² -sp ³) heterojunctions and its arithmetic functions. <i>Applied Physics Letters</i> , 2020, 117, 092103.	1.5	7
3147	3D Free-Standing Ordered Graphene Network Geometrically Regulates Neuronal Growth and Network Formation. <i>Nano Letters</i> , 2020, 20, 7043-7051.	4.5	11
3148	Fermi resonance in the Raman spectrum of graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	6
3149	Thermoplastic polyurethaneâ€“graphene nanoplatelets microcellular foams for electromagnetic interference shielding. <i>Graphene Technology</i> , 2020, 5, 33-39.	1.9	8
3150	Efficient Removal of Hexavalent Chromium and Congo Red by Graphene Oxide/Silica Nanosheets with Multistage Pores. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 4354-4368.	1.0	18
3151	Highly Oriented Graphitic Networks Grown by Chemical Vapor Deposition as Thermal Interface Materials. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22501-22508.	1.8	8
3152	Sustainable Liquid-Phase Exfoliation of Layered Materials with Nontoxic Polarclean Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18830-18840.	3.2	36
3153	THz Spectroscopy as a Versatile Tool for Filler Distribution Diagnostics in Polymer Nanocomposites. <i>Polymers</i> , 2020, 12, 3037.	2.0	3
3154	High thermal conductivity of free-standing skeleton in graphene foam. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	12
3155	Observation of magnetic domains in graphene magnetized by controlling temperature, strain and magnetic field. <i>Scientific Reports</i> , 2020, 10, 21325.	1.6	8
3156	Graphene/Graphitized Polydopamine/Carbon Nanotube All-Carbon Ternary Composite Films with Improved Mechanical Properties and Through-Plane Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57391-57400.	4.0	31
3157	Thermoregulating Papers Containing Fabricated Microencapsulated Phase Change Materials through Pickering Emulsion Templating. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 20253-20268.	1.8	13
3158	The behavior of graphene oxide trapped at the air water interface. <i>Advances in Colloid and Interface Science</i> , 2020, 286, 102312.	7.0	23
3159	Graphene Quality Assessment Using an Entropy Approach of SEM Images. <i>Materials Science Forum</i> , 0, 1004, 525-530.	0.3	0
3160	Scalable Carbon Nanotube/Platinum Nanoparticle Composite Inks from Salt Templates for Oxygen Reduction Reaction Electrocatalysis for PEM Fuel Cells. <i>Journal of Composites Science</i> , 2020, 4, 160.	1.4	3
3161	Effect of Graphene Nanoplatelets on the Structure, the Morphology, and the Dielectric Behavior of Low-Density Polyethylene Nanocomposites. <i>Materials</i> , 2020, 13, 4776.	1.3	13
3162	Innovative Method Using Adhesive Force for Surface Micromachining of Carbon Nanowall. <i>Nanomaterials</i> , 2020, 10, 1978.	1.9	4

#	ARTICLE	IF	CITATIONS
3163	Investigation of Thermal Annealing Effect on Bilayer Graphene by Isotope Labeling Assisted Raman Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2000250.	0.7	0
3164	Thermally Conductive Graphene Film/Indium/Aluminum Laminated Composite by Vacuum Assisted Hot-pressing. , 2020, , .		0
3165	Noncovalent functionalization of carbon nanotubes by polyaniline molecules: Raman analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 783, 012022.	0.3	0
3166	Flexure Strength and Fracture Propagation in Zirconia Ceramic Composites with Exfoliated Graphene Nanoplatelets. <i>Ceramics</i> , 2020, 3, 78-91.	1.0	14
3167	Direct Evidence of Graphene Induced Molecular Reorientation in Polymer Films. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000113.	1.9	1
3168	Increasing Surface Hardness of S304 Stainless Steel by High Quality Graphene Grown by Chemical Vapor Deposition. <i>Solid State Phenomena</i> , 0, 302, 79-84.	0.3	2
3169	Thermal exfoliation of electrochemically synthesized graphite intercalation compound with perrenic acid. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1363-1370.	1.2	8
3170	Nanostructured porous graphene for efficient removal of emerging contaminants (pharmaceuticals) from water. <i>Chemical Engineering Journal</i> , 2020, 398, 125440.	6.6	102
3171	Construction of a unique anti-corrosion nanocomposite based on graphene oxide@Zn3PO4/epoxy; experimental characterization and detailed-theoretical quantum mechanics (QM) investigations. <i>Construction and Building Materials</i> , 2020, 256, 119439.	3.2	20
3172	Iron-doped NiSe2 in-situ grown on graphene as an efficient electrocatalyst for oxygen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2020, 866, 114134.	1.9	19
3173	<p>Functionalized Graphene Nanoparticles Induce Human Mesenchymal Stem Cells to Express Distinct Extracellular Matrix Proteins Mediating Osteogenesis</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 2501-2513.	3.3	27
3174	Sustainable production of value-added carbon nanomaterials from biomass pyrolysis. <i>Nature Sustainability</i> , 2020, 3, 753-760.	11.5	124
3175	AFM and Raman study of graphene deposited on silicon surfaces nanostructured by ion beam irradiation. <i>Journal of Microscopy</i> , 2020, 280, 183-193.	0.8	4
3176	Effects of electrolyte concentration on the morphology control of gold nanotips in electrochemical etching. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 799-807.	1.5	4
3177	Direct large-area growth of graphene on silicon for potential ultra-low-friction applications and silicon-based technologies. <i>Nanotechnology</i> , 2020, 31, 335602.	1.3	10
3178	Effects of Size and Localized States in Charge Carrier Dynamics and Performance of Solution-Processed Graphene Quantum Dots/Silicon Heterojunction Near-UV Photodetectors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12161-12167.	1.5	20
3179	Ultrasensitive and Highly Selective Graphene-Based Field-Effect Transistor Biosensor for Anti-Diuretic Hormone Detection. <i>Sensors</i> , 2020, 20, 2642.	2.1	23
3180	Field emission and electron energy distributions from point-type triangular-shaped emitters made of thin graphene films. <i>Journal of Applied Physics</i> , 2020, 127, 185302.	1.1	13

#	ARTICLE	IF	CITATIONS
3181	Synthesis of graphene flakes using a non-thermal plasma based on magnetically stabilized gliding arc discharge. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 846-856.	1.0	17
3182	Synergistic effects of a novel method of preparing graphene/polyvinyl alcohol to modify cementitious material. Construction and Building Materials, 2020, 258, 119647.	3.2	7
3183	Influence of induction-annealing temperature on the morphology of barley-straw-derived Si@C and SiC@graphite for potential application in Li-ion batteries. Nanotechnology, 2020, 31, 335709.	1.3	7
3184	Resonance Raman spectroscopy in semiconducting transition-metal dichalcogenides: basic properties and perspectives. 2D Materials, 2020, 7, 042001.	2.0	22
3185	From graphene oxide to reduced graphene oxide: Enhanced hydration and compressive strength of cement composites. Construction and Building Materials, 2020, 248, 118699.	3.2	47
3186	Characterization of Au intercalation at the interface of graphene/polycrystalline Ni substrate. Surface Science, 2020, 700, 121613.	0.8	2
3187	BEOL-compatible synthesis of multi-layer graphene by carbon ion implantation on cobalt thin films. Applied Surface Science, 2020, 524, 146537.	3.1	0
3188	Shear exfoliation synthesis of large-scale graphene-reinforced nanofibers. Carbon, 2020, 166, 405-413.	5.4	9
3189	Towards clean HSMGÂ® graphene transfer. Materials Chemistry and Physics, 2020, 251, 123161.	2.0	3
3190	Stress-induced stabilization of pyrolyzed polyacrylonitrile and carbon nanotubes electrospun fibers. International Journal of Advanced Manufacturing Technology, 2020, 108, 117-127.	1.5	5
3191	Multilayer graphene sheets converted directly from anthracite in the presence of molten iron and their applications as anode for lithium ion batteries. Synthetic Metals, 2020, 263, 116364.	2.1	6
3192	The electronic structure of ideal graphene. , 2020, , 1-23.		0
3193	Bidirectional All-Optical Synapses Based on a 2D Bi ₂ O ₂ Se/Graphene Hybrid Structure for Multifunctional Optoelectronics. Advanced Functional Materials, 2020, 30, 2001598.	7.8	123
3194	Nonresonant Raman spectroscopy analysis of bithiophene and quater-thiophene chains confined in graphene bilayer: A theoretical study. Vibrational Spectroscopy, 2020, 109, 103064.	1.2	1
3197	Electron states in a magnetic field. , 2020, , 24-62.		1
3198	Quantum transport via evanescent waves. , 2020, , 63-76.		0
3199	The Klein paradox and chiral tunneling. , 2020, , 77-107.		0
3200	Edges, nanoribbons, and quantum dots. , 2020, , 108-140.		0

#	ARTICLE	IF	CITATIONS
3201	Point defects. , 2020, , 141-167.		0
3202	Optics and response functions. , 2020, , 168-192.		0
3203	The Coulomb problem. , 2020, , 193-212.		0
3204	Crystal lattice dynamics, structure, and thermodynamics. , 2020, , 213-256.		0
3205	Gauge fields and strain engineering. , 2020, , 257-278.		0
3206	Scattering mechanisms and transport properties. , 2020, , 279-325.		0
3207	Spin effects and magnetism. , 2020, , 326-350.		0
3208	Graphene on hexagonal boron nitride. , 2020, , 351-378.		0
3209	Twisted bilayer graphene. , 2020, , 379-388.		0
3210	Many-body effects in graphene. , 2020, , 389-400.		0
3213	Characterization of network bonding created by intercalated functionalized graphene and polyvinyl alcohol in nanocomposite films for reinforced mechanical properties and barrier performance. Nanotechnology, 2020, 31, 385703.	1.3	24
3214	A facile and cost-effective approach to fabrication of high performance pressure sensor based on graphene-textile network structure. Progress in Natural Science: Materials International, 2020, 30, 437-442.	1.8	14
3215	Grapheneâ€“Insulatorâ€“Semiconductor Ultraviolet Light-Responsive Nitride LEDs for Multi-Applications. ACS Applied Electronic Materials, 2020, 2, 2104-2112.	2.0	1
3216	Characterization of few-layer graphene aerosols by laser-induced incandescence. Carbon, 2020, 167, 870-880.	5.4	20
3217	Scalable production of thick graphene film for next generation thermal management application. Carbon, 2020, 167, 270-277.	5.4	39
3218	Anomalous restoration of sp^2 hybridization in graphene functionalization. Nanoscale, 2020, 12, 13351-13359.	2.8	25
3219	One-step plasma electrochemical synthesis and oxygen electrocatalysis of nanocomposite of few-layer graphene structures with cobalt oxides. Materials Today Energy, 2020, 17, 100459.	2.5	8
3220	Opportunities and Challenges in Twisted Bilayer Graphene: A Review. Nano-Micro Letters, 2020, 12, 126.	14.4	86

#	ARTICLE	IF	CITATIONS
3221	Nanoscale profiling of multilayer graphene films on silicon carbide by a focused ion beam. <i>Diamond and Related Materials</i> , 2020, 108, 107969.	1.8	3
3222	Graphene field effect transistors using TiO ₂ as the dielectric layer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 124, 114282.	1.3	4
3223	Mechanism of a Self-Assembling Smart and Electrically Responsive PVDF/Graphene Membrane for Controlled Gas Separation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30915-30924.	4.0	31
3224	Versatile construction of van der Waals heterostructures using a dual-function polymeric film. <i>Nature Communications</i> , 2020, 11, 3029.	5.8	41
3225	Carbonized polyaniline bridging nanodiamond-graphene hybrids for enhanced microwave absorptions with ultrathin thickness. <i>Nanotechnology</i> , 2020, 31, 415701.	1.3	11
3226	Electrochemically Exfoliated Graphene-Like Nanosheets for Use in Ceramic Nanocomposites. <i>Materials</i> , 2020, 13, 2656.	1.3	7
3227	Complexity of temperature-dependent Raman spectra and phonons properties on the example of carbon nanotubes thin films. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1996-2006.	1.2	1
3228	Charcoal derived graphene quantum dots for flexible supercapacitor oriented applications. <i>New Journal of Chemistry</i> , 2020, 44, 11085-11091.	1.4	22
3229	Efficiency enhancement of perovskite solar cells based on graphene-CuInS ₂ quantum dots composite: The roles for fast electron injection and light harvests. <i>Applied Surface Science</i> , 2020, 528, 146560.	3.1	15
3230	Graphene-Based Hall Effect Biosensor for Improved Specificity and Sensitivity of Label-Free DNA Detection. <i>Nano</i> , 2020, 15, 2050088.	0.5	0
3231	Chemical vapour deposited graphene: substrate pre-treatment, growth and demonstration as a simple graphene-based SERS substrate. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	6
3232	Modulating electronic structure of graphene overlayers through electrochemical intercalation. <i>Applied Surface Science</i> , 2020, 522, 146359.	3.1	1
3233	Hydroxamic acid-functionalized graphene thin films as nanocatalysts towards organophosphate degradation. <i>JPhys Materials</i> , 2020, 3, 034003.	1.8	4
3234	Bottom-up synthesis of highly soluble carbon materials. <i>Journal of Materials Science</i> , 2020, 55, 11808-11828.	1.7	19
3235	The Effect of Liquid Media on the Efficiency of Graphene Production by Liquid-Phase Exfoliation from Micromechanically Pre-exfoliated Graphite. <i>Journal of Electronic Materials</i> , 2020, 49, 5335-5345.	1.0	7
3236	Applications of Raman spectroscopy in two-dimensional materials. <i>Journal of Innovative Optical Health Sciences</i> , 2020, 13, .	0.5	10
3237	Polymer solution-assisted assembly of hierarchically nanostructured ZnO onto 2D neat graphene sheets with excellent photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2020, 843, 156030.	2.8	24
3238	Low-Humidity Sensing Properties of Multi-Layered Graphene Grown by Chemical Vapor Deposition. <i>Sensors</i> , 2020, 20, 3174.	2.1	5

#	ARTICLE	IF	CITATIONS
3239	Synthesis of graphene-like carbon from biomass pyrolysis and its applications. <i>Chemical Engineering Journal</i> , 2020, 399, 125808.	6.6	128
3240	Electrical Tunable PVDF/Graphene Membrane for Controlled Molecule Separation. <i>Chemistry of Materials</i> , 2020, 32, 5750-5758.	3.2	39
3241	Interactions of Ti and its oxides with selected surfaces: Si(100), HOPG(0001) and graphene/4H-SiC(0001). <i>Surface and Coatings Technology</i> , 2020, 397, 126033.	2.2	4
3242	An aromatic micelle with bent pentacene-based panels: encapsulation of perylene bisimide dyes and graphene nanosheets. <i>Chemical Science</i> , 2020, 11, 6752-6757.	3.7	19
3243	Solar Degradation of Sulfamethazine Using rGO/Bi Composite Photocatalysts. <i>Catalysts</i> , 2020, 10, 573.	1.6	13
3244	Cobalt promoted bifunctional graphene composite (Co@pGSC) for heterogeneous peroxydisulfate activation. <i>Chemical Engineering Journal</i> , 2020, 399, 125752.	6.6	11
3245	Laser-Induced Graphene on a Polyimide Film: Observation of the Photon Drag Effect. <i>Technical Physics Letters</i> , 2020, 46, 458-461.	0.2	10
3246	Graphene-enhanced Raman scattering on single layer and bilayers of pristine and hydrogenated graphene. <i>Scientific Reports</i> , 2020, 10, 4516.	1.6	18
3247	Evaluation of the Covalent Functionalization of Carbon Nano-Onions with Pyrene Moieties for Supercapacitor Applications. <i>Materials</i> , 2020, 13, 1141.	1.3	30
3248	Electrodeposition-Assisted Rapid Preparation of Pt Nanocluster/3D Graphene Hybrid Nanozymes with Outstanding Multiple Oxidase-Like Activity for Distinguishing Colorimetric Determination of Dihydroxybenzene Isomers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15553-15561.	4.0	37
3249	Frontiers of graphene and 2D material-based gas sensors for environmental monitoring. <i>2D Materials</i> , 2020, 7, 032002.	2.0	103
3250	Ultrafast photo-annealed carbon-coated SiO ₂ sphere electrodes for NO ₂ gas sensing. <i>Carbon</i> , 2020, 162, 562-569.	5.4	1
3251	Synthesis of Crystalline Silica-Carbonate Biomorphs of Ba(II) under the Presence of RNA and Positively and Negatively Charged ITO Electrodes: Obtainment of Graphite via Bioreduction of CO ₂ and Its Implications to the Chemical Origin of Life on Primitive Earth. <i>ACS Omega</i> , 2020, 5, 5460-5469.	1.6	7
3252	Synthesis of polyaniline/electrochemically exfoliated graphene composite as counter-electrode in dye-sensitized solar cell. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 1370-1378.	0.6	3
3253	Local Probes of Graphene Lattice Dynamics. <i>Small Methods</i> , 2020, 4, 1900817.	4.6	6
3254	On-site growth method of 3D structured multi-layered graphene on silicon nanowires. <i>Nanoscale Advances</i> , 2020, 2, 1718-1725.	2.2	5
3255	Experimental demonstration of the suppression of optical phonon splitting in 2D materials by Raman spectroscopy. <i>2D Materials</i> , 2020, 7, 035017.	2.0	11
3256	Turbostratic nanoporous carbon sheet membrane for ultrafast and selective nanofiltration in viscous green solvents. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8292-8299.	5.2	37

#	ARTICLE	IF	CITATIONS
3257	Evolution of morphology and defects of graphene with growth parameters by PECVD. <i>Materials Research Express</i> , 2020, 7, 035025.	0.8	4
3258	Recent Advancements on the CVD of Graphene on Copper from Ethanol Vapor. <i>Journal of Carbon Research</i> , 2020, 6, 14.	1.4	11
3259	Segregation of metallic germanium atoms at the graphene/metal interface toward germanene growth. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SN1004.	0.8	6
3260	Optimization of Reduced GO-Based Cotton Electrodes for Wearable Electrocardiography. <i>IEEE Sensors Journal</i> , 2020, 20, 7774-7782.	2.4	12
3261	Laser-Induced Graphene for Electrothermally Controlled, Mechanically Guided, 3D Assembly and Human-Soft Actuators Interaction. <i>Advanced Materials</i> , 2020, 32, e1908475.	11.1	118
3262	Ordered Mesoporous Carbon-Confined Pb/PbO Composites: Superior Electrocatalysts for CO ₂ Reduction. <i>ChemSusChem</i> , 2020, 13, 6346-6352.	3.6	22
3263	Ni ₂ P/graphitic carbon nanostructure electrode with superior electrochemical performance. <i>Electrochimica Acta</i> , 2020, 341, 136045.	2.6	21
3264	Spectroscopic analysis of the adsorption of carbon based nanoparticles on reservoir sandstones. <i>Journal of Materials Research and Technology</i> , 2020, 9, 4326-4339.	2.6	23
3265	Wafer-scale graphene quality assessment using micro four-point probe mapping. <i>Nanotechnology</i> , 2020, 31, 225709.	1.3	7
3266	Surface-enhanced Raman scattering from buffer layer under graphene on SiC in a wide energy range from visible to near-infrared. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 040902.	0.8	6
3267	Kelvin probe force microscopic investigation of graphene-based derivatives. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SN1002.	0.8	6
3268	Chemically Functionalized Two-Dimensional Carbon Materials. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2316-2328.	1.7	15
3269	Quasi-Monocrystalline Graphene Crystallization on Liquid Copper Matrix. <i>Materials</i> , 2020, 13, 2606.	1.3	4
3270	Structural Modifications in Epitaxial Graphene on SiC Following 10 keV Nitrogen Ion Implantation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4013.	1.3	7
3271	Antibacterial Character of Cationic Polymers Attached to Carbon-Based Nanomaterials. <i>Nanomaterials</i> , 2020, 10, 1218.	1.9	19
3272	Raman Metrics for Molybdenum Disulfide and Graphene Enable Statistical Mapping of Nanosheet Populations. <i>Chemistry of Materials</i> , 2020, 32, 6213-6221.	3.2	11
3273	Effect of the Gate Volume on the Performance of Printed Nanosheet Network-Based Transistors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2164-2170.	2.0	6
3274	Towards Understanding the Raman Spectrum of Graphene Oxide: The Effect of the Chemical Composition. <i>Coatings</i> , 2020, 10, 524.	1.2	42

#	ARTICLE	IF	CITATIONS
3275	Electromagnetic Interference Shielding by Transparent Graphene/Nickel Mesh Films. <i>ACS Applied Nano Materials</i> , 2020, 3, 7474-7481.	2.4	33
3276	Chemical Bleaching to Minimize Fluorescence Interference in Raman Spectroscopic Measurements for Sulfonated Polystyrene Solutions. <i>Applied Spectroscopy</i> , 2020, 74, 741-750.	1.2	2
3277	Effects of hydrogen/carbon molar ratio on graphene nano-flakes synthesis by a non-thermal plasma process. <i>Diamond and Related Materials</i> , 2020, 108, 107932.	1.8	6
3278	Microstructure and Properties of Co@RGO/Cu Composites by One-Step <i>In Situ</i> Reduction Method. <i>Materials Science Forum</i> , 0, 993, 646-653.	0.3	0
3279	Interactions Between Epitaxial Graphene Grown on the Si- and C-Faces of 4H-SiC Investigated Using Raman Imaging and Tip-Enhanced Raman Scattering. <i>Applied Spectroscopy</i> , 2020, 74, 1384-1390.	1.2	4
3280	Realising the electrochemical stability of graphene: scalable synthesis of an ultra-durable platinum catalyst for the oxygen reduction reaction. <i>Nanoscale</i> , 2020, 12, 16113-16122.	2.8	11
3281	Influence of chamber design on the gas sensing performance of graphene field-effect-transistor. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	7
3282	Gas physisorption measurements as a quality control tool for the properties of graphene/graphite powders. <i>Carbon</i> , 2020, 167, 585-595.	5.4	16
3283	Atomic-Distributed Coordination State of Metal-Phenolic Compounds Enabled Low Temperature Graphitization for High-Performance Multioriented Graphite Anode. <i>Small</i> , 2020, 16, e2003104.	5.2	16
3284	In Situ XPS Studies of Solid Electrolyte Electroreduction Through Graphene Electrode. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110533.	1.3	3
3285	Facile synthesis of nanographene by a high-yield and scalable method. <i>Ceramics International</i> , 2020, 46, 22861-22868.	2.3	10
3286	Investigating the Effects of Different Liquid Environments on the Characteristics of Multilayer Graphene and Graphene Oxide Nanosheets Synthesized by Green Laser Ablation Method. <i>Diamond and Related Materials</i> , 2020, 103, 107697.	1.8	13
3287	Synthesis of graphene oxides particle of high oxidation degree using a modified Hummers method. <i>Ceramics International</i> , 2020, 46, 23997-24007.	2.3	143
3288	Improved electrochemical performance of anode materials for high energy density lithium-ion batteries through Sn(SnO ₂)@SiO ₂ /graphene-based nanocomposites prepared by a facile and low-cost approach. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4625-4636.	2.5	20
3289	Anisotropic PC ₆ N Monolayer with Wide Band Gap and Ultrahigh Carrier Mobility. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4330-4337.	1.5	14
3290	Electron transfer mechanism of graphene/Cu heterostructure for improving the stability of triboelectric nanogenerators. <i>Nano Energy</i> , 2020, 70, 104540.	8.2	42
3291	Green Synthesis of Graphene from Graphite in Molten Salt Medium. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-12.	1.5	26
3292	Graphitic-Based Solid-State Supercapacitors: Enabling Redox Reaction by In Situ Electrochemical Treatment. <i>Batteries and Supercaps</i> , 2020, 3, 587-595.	2.4	4

#	ARTICLE	IF	CITATIONS
3293	Graphene nanoplatelets-reinforced magnesium metal matrix nanocomposites with superior mechanical and corrosion performance for biomedical applications. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 269-290.	5.5	87
3294	Nonlinear optical absorption and asymmetric charge carrier conduction in chemical vapor deposited single-layer graphene. <i>Materials Research Express</i> , 2020, 7, 015618.	0.8	1
3295	Intrinsic resistance peaks in AB-stacked multilayer graphene with odd number of layers. <i>Physical Review B</i> , 2020, 101, .	1.1	6
3296	Plasma-modified CNFs, GPs, and their mixtures for enhanced polypropylene thermal conductivity. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49138.	1.3	3
3297	Excitonic and Vibronic Spectra of a Two-Dimensional Graphene-like Molecular Lattice. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4668-4673.	1.5	0
3298	An aptamer-based shear horizontal surface acoustic wave biosensor with a CVD-grown single-layered graphene film for high-sensitivity detection of a label-free endotoxin. <i>Microsystems and Nanoengineering</i> , 2020, 6, 4.	3.4	37
3299	Liquids relax and unify strain in graphene. <i>Nature Communications</i> , 2020, 11, 898.	5.8	20
3300	Real-time detection of hepatitis B surface antigen using a hybrid graphene-gold nanoparticle biosensor. <i>2D Materials</i> , 2020, 7, 024009.	2.0	22
3301	“Green”-Synthesis of Nanocarbons for Reduced Friction and Wear. <i>Lubricants</i> , 2020, 8, 13.	1.2	2
3302	Microstructure and mechanical properties of boron carbide/graphene nanoplatelets composites fabricated by hot pressing. <i>Ceramics International</i> , 2020, 46, 7879-7887.	2.3	15
3303	Preparation, characterization, and thermal conductivity of polyvinyl-formaldehyde/MWCNTs foam: A low cost heat sink substrate. <i>Journal of Materials Research and Technology</i> , 2020, 9, 2934-2945.	2.6	20
3304	Determining the Level and Location of Functional Groups on Few-Layer Graphene and Their Effect on the Mechanical Properties of Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13481-13493.	4.0	27
3305	Boron-doped graphene synthesis by pulsed laser co-deposition of carbon and boron. <i>Applied Surface Science</i> , 2020, 513, 145843.	3.1	17
3306	Laser Writing of Janus Graphene/Kevlar Textile for Intelligent Protective Clothing. <i>ACS Nano</i> , 2020, 14, 3219-3226.	7.3	159
3307	Hybrid Reverse Molecular Dynamics Simulation as New Approach to Determination of Carbon Nanostructure of Carbon Blacks. <i>Scientific Reports</i> , 2020, 10, 3622.	1.6	8
3308	MXene(Ti3C2TX)/graphene/PDMS composites for multifunctional broadband electromagnetic interference shielding skins. <i>Chemical Engineering Journal</i> , 2020, 393, 124608.	6.6	138
3309	Carbon-coated Si particles binding with few-layered graphene via a liquid exfoliation process as potential anode materials for lithium-ion batteries. <i>Surface and Coatings Technology</i> , 2020, 387, 125553.	2.2	21
3310	Dual-atom Ag ₂ /graphene catalyst for efficient electroreduction of CO ₂ to CO. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118747.	10.8	140

#	ARTICLE	IF	CITATIONS
3311	Direct transfer of graphene by control of polydimethylsiloxane surface energy. <i>Thin Solid Films</i> , 2020, 697, 137847.	0.8	0
3312	Pool Boiling Heat Transfer Enhanced by Fluorinated Graphene as Atomic Layered Modifiers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10233-10239.	4.0	31
3313	Microwave plasma-based direct synthesis of free-standing N-graphene. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4772-4787.	1.3	26
3314	Surface-Enhanced Raman Spectroscopy on Hybrid Graphene/Gold Substrates near the Percolation Threshold. <i>Nanomaterials</i> , 2020, 10, 164.	1.9	17
3315	Utilization of Synergistic Effect of Dimensionâ€Differentiated Hierarchical Nanomaterials for Transparent and Flexible Wireless Communicational Elements. <i>Advanced Materials Technologies</i> , 2020, 5, 1901057.	3.0	4
3316	Facile Transformation of Niâ€based Colloids into Highly Stable Nanocatalysts Embedded within hâ€BN for the Waterâ€Gas Shift Reaction. <i>ChemCatChem</i> , 2020, 12, 1556-1561.	1.8	2
3317	A rational design of efficient trifunctional electrocatalysts derived from tailored Co ²⁺ -functionalized anionic metalâ€organic frameworks. <i>Dalton Transactions</i> , 2020, 49, 2280-2289.	1.6	14
3318	Enabling Direct H ₂ O ₂ Production in Acidic Media through Rational Design of Transition Metal Single Atom Catalyst. <i>CheM</i> , 2020, 6, 658-674.	5.8	418
3319	Raman spectroscopy analysis of number of layers in mass-produced graphene flakes. <i>Carbon</i> , 2020, 161, 181-189.	5.4	87
3320	Single-Layered Graphene/Au-Nanoparticles-Based Love Wave Biosensor for Highly Sensitive and Specific Detection of <i>Staphylococcus aureus</i> Gene Sequences. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12417-12425.	4.0	21
3321	One-step ball milling-prepared nano Fe ₂ O ₃ and nitrogen-doped graphene with high oxygen reduction activity and its application in microbial fuel cells. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	3.3	11
3322	An innovative process for dispersion of graphene nanoparticles and nickel spheres in A356 alloy using pressure infiltration technique. <i>Engineering Reports</i> , 2020, 2, e12110.	0.9	7
3323	Assessing the structural properties of graphitic and non-graphitic carbons by Raman spectroscopy. <i>Carbon</i> , 2020, 161, 359-372.	5.4	289
3324	Carbon foam composites based on expanded graphite for electrochemical application. <i>Diamond and Related Materials</i> , 2020, 103, 107730.	1.8	10
3325	S/N-doped carbon nanofibers affording Fe ₇ S ₈ particles with superior sodium storage. <i>Journal of Power Sources</i> , 2020, 451, 227790.	4.0	43
3326	Gram-scale bottom-up flash graphene synthesis. <i>Nature</i> , 2020, 577, 647-651.	13.7	438
3327	Templateless Synthesis of Ultraâ€Microporous 3D Graphitic Carbon from Cyclodextrins and Their Use as Selective Catalyst for Oxygen Activation. <i>Small Methods</i> , 2020, 4, 1900721.	4.6	10
3328	Stable wide-temperature and low volume expansion Al batteries: Integrating few-layer graphene with multifunctional cobalt boride nanocluster as positive electrode. <i>Nano Research</i> , 2020, 13, 419-429.	5.8	15

#	ARTICLE	IF	CITATIONS
3329	Synthesis of isolated carbon nanowalls via high-voltage nanosecond pulses in conjunction with CH ₄ /H ₂ plasma enhanced chemical vapor deposition. <i>Carbon</i> , 2020, 161, 403-412.	5.4	21
3330	Superhigh-exfoliation graphene with a unique two-dimensional (2D) microstructure for lubrication application. <i>Applied Surface Science</i> , 2020, 513, 145608.	3.1	30
3331	Quantitative analysis of the defects in CVD grown graphene by plasmon-enhanced Raman scattering. <i>Carbon</i> , 2020, 161, 153-161.	5.4	16
3332	Superlubricity between a silicon tip and graphite enabled by the nanolithography-assisted nanoflakes tribo-transfer. <i>Nanotechnology</i> , 2020, 31, 205703.	1.3	10
3333	Methane adsorption by porous graphene derived from rice husk ashes under various stabilization temperatures. <i>Carbon Letters</i> , 2020, 30, 535-543.	3.3	26
3334	Atomically Dispersed Single Ni Site Catalysts for Nitrogen Reduction toward Electrochemical Ammonia Synthesis Using N ₂ and H ₂ O. <i>Small Methods</i> , 2020, 4, 1900821.	4.6	148
3335	Enhanced-sensitivity and highly flexible stress/strain sensor based on PZT nanowires-modified graphene with wide range carrier mobility. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 8436-8445.	1.1	3
3336	Influence of Nickel Loading on Reduced Graphene Oxide-Based Nickel Catalysts for the Hydrogenation of Carbon Dioxide to Methane. <i>Catalysts</i> , 2020, 10, 471.	1.6	22
3337	Electrochemical Characterization of CVD-Grown Graphene for Designing Electrode/Biomolecule Interfaces. <i>Crystals</i> , 2020, 10, 241.	1.0	4
3338	Cost-effective production of SiO ₂ /C and Si/C composites derived from rice husk for advanced lithium-ion battery anodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 9126-9132.	1.1	24
3339	Highly Conductive, Scalable, and Machine Washable Graphene-Based E-Textiles for Multifunctional Wearable Electronic Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2000293.	7.8	204
3340	Rapid and sensitive detection of prostate-specific antigen via label-free frequency shift Raman of sensing graphene. <i>Biosensors and Bioelectronics</i> , 2020, 158, 112184.	5.3	21
3341	Chemically synthesized graphene as a precursor to Prussian blue-based nanocomposite: A multifunctional material for transparent aqueous K-ion battery or electrochromic device. <i>Electrochimica Acta</i> , 2020, 345, 136199.	2.6	30
3342	Synthesis of graphene from solid carbon sources: A focused review. <i>Materials Chemistry and Physics</i> , 2020, 248, 122924.	2.0	38
3343	Gold nanoparticles mixed multiwall carbon nanotubes, supported on graphene nano-ribbons (Au-NT-G) as an efficient reduction electrode for Polymer Electrolyte Membrane fuel cells (PEMFC). <i>Renewable Energy</i> , 2020, 154, 767-773.	4.3	15
3344	Separation Process of Nisin Using Aqueous Two-Phase Systems: A New Approach Featuring Nanoparticles. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 2212-2219.	1.0	1
3345	Solid-Electrolyte Interphases (SEI) in Nonaqueous Aluminum-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 3673-3683.	2.5	17
3346	A review on role of tetra-rings in graphene systems and their possible applications. <i>Reports on Progress in Physics</i> , 2020, 83, 056501.	8.1	47

#	ARTICLE	IF	CITATIONS
3347	Influence of Oxidation Degree of Graphene Oxide on the Shear Rheology of Poly(ethylene glycol) Suspensions. <i>Fluids</i> , 2020, 5, 41.	0.8	14
3348	Acetic Acid and Ammonium Persulfate Pre-Treated Copper Foil for the Improvement of Graphene Quality, Sensitivity and Specificity of Hall Effect Label-Free DNA Hybridization Detection. <i>Materials</i> , 2020, 13, 1784.	1.3	0
3349	Transferless Inverted Graphene/Silicon Heterostructures Prepared by Plasma-Enhanced Chemical Vapor Deposition of Amorphous Silicon on CVD Graphene. <i>Nanomaterials</i> , 2020, 10, 589.	1.9	3
3350	Impact of the carbon membrane inserted below Ni in the layer exchange of multilayer graphene. <i>CrystEngComm</i> , 2020, 22, 3106-3109.	1.3	1
3351	CdSe- Reduced graphene oxide nanocomposite toxicity alleviation via V_2O_5 shell formation over CdSe core: <i>in vivo</i> and <i>in vitro</i> studies. <i>Nanotechnology</i> , 2020, 31, 415101.	1.3	2
3352	Laser-Induced Graphene Paper Heaters with Multimodally Patternable Electrothermal Performance for Low-Energy Manufacturing of Composites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23284-23297.	4.0	50
3353	Energy conservation and environmental sustainability during grinding operation of Ti-6Al-4V alloys via eco-friendly oil/graphene nano additive and Minimum quantity lubrication. <i>Tribology International</i> , 2020, 150, 106387.	3.0	48
3354	Tuning the Wrinkles in 3D Graphene Architectures for Mass and Electron Transport. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902190.	1.9	5
3355	Crumpled Graphene Decorated with Manganese Ferrite Nanoparticles for Hydrogen Peroxide Sensing and Electrochemical Supercapacitors. <i>ACS Applied Nano Materials</i> , 2020, 3, 4859-4869.	2.4	35
3356	Effect of Ball Milled and Sintered Graphene Nanoplatelets-Copper Composite Coatings on Bubble Dynamics and Pool Boiling Heat Transfer. <i>Advanced Engineering Materials</i> , 2020, 22, 1901562.	1.6	12
3357	Buffer layers inhomogeneity and coupling with epitaxial graphene unravelled by Raman scattering and graphene peeling. <i>Carbon</i> , 2020, 163, 224-233.	5.4	17
3358	Facile fabrication of super-hydrophilic porous graphene with ultra-fast spreading feature and capillary effect by direct laser writing. <i>Materials Chemistry and Physics</i> , 2020, 251, 123083.	2.0	11
3359	350 Å°C synthesis of high-quality multilayer graphene on an insulator using Ni-induced layer exchange. <i>Applied Physics Express</i> , 2020, 13, 055502.	1.1	19
3360	Electrochemical Performance and Working Voltage Optimization of Nickel Ferrite/Graphene Composite based Supercapacitor. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 3325-3331.	1.9	27
3361	Two-Dimensional Tellurium: Progress, Challenges, and Prospects. <i>Nano-Micro Letters</i> , 2020, 12, 99.	14.4	139
3362	An effectual enhancement to the electrical conductivity of graphene FET by silver nanoparticles. <i>Diamond and Related Materials</i> , 2020, 106, 107833.	1.8	10
3363	Biochar as supporting material for heterogeneous Mn(II) catalysts: Efficient olefins epoxidation with H ₂ O ₂ . <i>Molecular Catalysis</i> , 2020, 489, 110946.	1.0	13
3364	Manufacture and characterization of graphene membranes with suspended silicon proof masses for MEMS and NEMS applications. <i>Microsystems and Nanoengineering</i> , 2020, 6, 17.	3.4	46

#	ARTICLE	IF	CITATIONS
3365	Facile synthesis of a covalently connected rGO@COF hybrid material by <i>in situ</i> reaction for enhanced visible-light induced photocatalytic H ₂ evolution. Journal of Materials Chemistry A, 2020, 8, 8949-8956.	5.2	79
3366	Laser Raman scattering by graphene plasmons. Physics of Plasmas, 2020, 27, 032102.	0.7	0
3367	Polarized Raman spectroscopy for studying two-dimensional materials. Journal of Physics Condensed Matter, 2020, 32, 343001.	0.7	30
3368	Review—Current Trends in Disposable Graphene-Based Printed Electrode for Electrochemical Biosensors. Journal of the Electrochemical Society, 2020, 167, 067523.	1.3	16
3369	Raman 2D Peak Line Shape in Epigraphene on SiC. Applied Sciences (Switzerland), 2020, 10, 2354.	1.3	4
3370	Selective synthesis of carbon nanotubes by catalytic decomposition of methane using Co-Cu/cellulose derived carbon catalysts: A comprehensive kinetic study. Chemical Engineering Journal, 2021, 404, 126103.	6.6	29
3371	Multi-walled carbon nanotubes and activated carbon composite material as electrodes for electrochemical capacitors. Journal of Energy Storage, 2021, 33, 100738.	3.9	20
3372	Morphology-tunable hollow Mn ₂ O ₃ nanostructures: highly efficient electrocatalysts and their electrochemical sensing for phenolic endocrine disruptors via toughening of graphene oxide. Sensors and Actuators B: Chemical, 2021, 327, 128889.	4.0	15
3373	Super-Nernstian pH Sensor Based on Anomalous Charge Transfer Doping of Defect-Engineered Graphene. Nano Letters, 2021, 21, 34-42.	4.5	29
3374	Production of copper nanoparticles exhibiting various morphologies via pulsed laser ablation in different solvents and their catalytic activity for reduction of toxic nitroaromatic compounds. Journal of Hazardous Materials, 2021, 409, 124412.	6.5	50
3375	Graphene nanoplatelets composite membranes for thermal comfort enhancement in performance textiles. Journal of Applied Polymer Science, 2021, 138, 49645.	1.3	13
3376	First Principles Calculations of Electronic, Structural and Optical Properties of (PMMA@ZrO ₂ @Au) and (PMMA@Al ₂ O ₃ @Au) Nanocomposites for Optoelectronics Applications. Transactions on Electrical and Electronic Materials, 2021, 22, 185-203.	1.0	52
3377	Improvement of catalytic activity of graphene oxide by plasma treatment. Catalysis Today, 2021, 366, 2-9.	2.2	7
3378	Rapid chemical vapor deposition of graphene using methanol as a precursor. Carbon Letters, 2021, 31, 307-313.	3.3	6
3379	High thermal energy storage and thermal conductivity of few-layer graphene platelets loaded phase change materials: A thermally conductive additive for thermal energy harvesting. Energy Storage, 2021, 3, e199.	2.3	3
3380	Superior electrical, mechanical and viscoelastic properties of <i>scp</i> CNTs coated carbon textile reinforced phenolic composite for <i>scp</i> high-performance structural applications. Journal of Applied Polymer Science, 2021, 138, 49968.	1.3	11
3381	Enhancing interface doping in graphene-metal hybrid devices using H ₂ plasma clean. Applied Surface Science, 2021, 538, 148046.	3.1	9
3382	Pure electric and magnetic fields applied to reduced graphene oxide for defect repair and oxygen removal. Carbon, 2021, 171, 10-15.	5.4	13

#	ARTICLE	IF	CITATIONS
3383	Thermal, electrical and mechanical properties of graphene/nano-alumina/epoxy composites. <i>Materials Chemistry and Physics</i> , 2021, 257, 123809.	2.0	39
3384	Highly conductive 3D structural carbon network-encapsulated Ni-rich LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ as depolarized and passivated cathode for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 406, 126813.	6.6	44
3385	Investigation of the usability of nitric acid electrolyte in graphene production by electrochemical method. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021, 29, 175-182.	1.0	1
3386	In-depth exploration of the synergistic interplay between perovskite barium titanate nanoparticles and two-dimensional graphene oxide for flexible piezoelectric nanogenerators. <i>Applied Surface Science</i> , 2021, 538, 147962.	3.1	13
3387	Monitoring the thermally induced transition from sp ³ -hybridized into sp ² -hybridized carbons. <i>Carbon</i> , 2021, 172, 214-227.	5.4	41
3388	Electrochemical sensor based on rGO/Au nanoparticles for monitoring H ₂ O ₂ released by human macrophages. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128901.	4.0	79
3389	Synthesis and characterization of graphene oxide chitosan aerogels reinforced with flavan-3-ols as hemostatic agents. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 197, 111398.	2.5	18
3390	Crystalline polymer functionalized non-oxidized graphene flakes for high gas barrier composites. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 5472-5484.	3.8	12
3391	Carbon Nanomaze for Biomolecular Detection with Zeptomolar Sensitivity. <i>Advanced Functional Materials</i> , 2021, 31, 2006521.	7.8	14
3392	Eliminating graphene wrinkles by strain engineering. <i>Extreme Mechanics Letters</i> , 2021, 42, 101104.	2.0	8
3393	Low temperature chemical treatment of graphene films made by double self-assembly process to improve sheet resistance. <i>Diamond and Related Materials</i> , 2021, 111, 108218.	1.8	4
3394	A high-sensitivity graphene ammonia sensor via aerosol jet printing. <i>Sensors and Actuators A: Physical</i> , 2021, 318, 112434.	2.0	35
3395	Dependence of linear and non-linear optical properties to sp ³ domains level and edges length in graphene-based nanomaterials. <i>Optik</i> , 2021, 226, 165903.	1.4	5
3396	Synergies of vertical graphene and manganese dioxide in enhancing the energy density of carbon fibre-based structural supercapacitors. <i>Composites Science and Technology</i> , 2021, 201, 108568.	3.8	62
3397	Characterization and gas sensing properties of graphene/polyaniline nanocomposite with long-term stability under high humidity. <i>Journal of Materials Science</i> , 2021, 56, 4239-4253.	1.7	19
3398	Chemical and structural properties of reduced graphene oxide—dependence on the reducing agent. <i>Journal of Materials Science</i> , 2021, 56, 3738-3754.	1.7	91
3399	Ways to eliminate PMMA residues on graphene —“superclean graphene”. <i>Carbon</i> , 2021, 173, 609-636.	5.4	53
3400	Direct Growth of Germanene at Interfaces between Van der Waals Materials and Ag(111). <i>Advanced Functional Materials</i> , 2021, 31, 2007038.	7.8	27

#	ARTICLE	IF	CITATIONS
3401	Fast high-shear exfoliation of natural flake graphite with temperature control and high yield. <i>Carbon</i> , 2021, 174, 123-131.	5.4	35
3402	CVD growth of high-quality graphene over Ge (100) by annihilation of thermal pits. <i>Carbon</i> , 2021, 174, 214-226.	5.4	7
3403	Enhancing the electrical conductivity of in-situ reduced graphene oxide-zirconia composites through the control of the processing routine. <i>Ceramics International</i> , 2021, 47, 9382-9391.	2.3	5
3404	Synthesis of MOF-derived Fe ₇ S ₈ /C rod-like composites by controlled proportion of carbon for highly efficient electromagnetic wave absorption. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 142, 106246.	3.8	38
3405	Spent Li-ion Battery Graphite Turned Into Valuable and Active Catalyst for Electrochemical Oxygen Reduction. <i>ChemSusChem</i> , 2021, 14, 1103-1111.	3.6	25
3406	A scalable snowballing strategy to construct uniform rGO-wrapped LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ with enhanced processability and electrochemical performance. <i>Applied Surface Science</i> , 2021, 542, 148663.	3.1	18
3407	Optimization of specific capacitance and water splitting efficiency of N-enriched carbon by incorporating oxides of transition metals via an ancient chemical technique. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114929.	1.9	2
3408	Excellent photocatalytic activity of ternary Ag@WO ₃ @rGO nanocomposites under solar simulation irradiation. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 108-117.	1.5	25
3409	Enhanced electrical, mechanical, and viscoelastic properties of carbon-carbon composites using carbon nanotubes coated carbon textile as reinforcement. <i>Journal of Composite Materials</i> , 2021, 55, 1733-1748.	1.2	13
3410	Langmuir-Blodgett based growth of rGO wrapped TiO ₂ nanostructures and their photocatalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 609, 125652.	2.3	4
3411	Towards Catalytically Active Porous Graphene Membranes with Pulsed Laser Deposited Ceria Nanoparticles. <i>Chemistry - A European Journal</i> , 2021, 27, 4150-4158.	1.7	4
3412	Fabrication of 3D monolithic graphene foam/polycaprolactone porous nanocomposites for bioapplications. <i>Journal of Materials Science</i> , 2021, 56, 5581-5594.	1.7	7
3413	Time Domain Simulation of (Resonance) Raman Spectra of Liquids in the Short Time Approximation. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 344-356.	2.3	13
3414	Pressure-dependent synthesis of graphene nanoflakes using Ar/H ₂ /CH ₄ non-thermal plasma based on rotating arc discharge. <i>Diamond and Related Materials</i> , 2021, 111, 108176.	1.8	11
3415	Preparation of electro-reduced graphene oxide/copper composite foils with simultaneously enhanced thermal and mechanical properties by DC electro-deposition method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 805, 140574.	2.6	25
3416	Boron-doped graphene from boron-doped copper substrate for self-powered photodetector. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 263, 114814.	1.7	1
3417	Effect of N-rGO Decoration on the Structure and Optical Properties of WO ₃ Nanoplates. <i>Journal of Electronic Materials</i> , 2021, 50, 960-967.	1.0	1
3418	Improvement of the lubrication properties of grease with Mn ₃ O ₄ /graphene (Mn ₃ O ₄ #C) nanocomposite additive. <i>Friction</i> , 2021, 9, 1361-1377.	3.4	23

#	ARTICLE	IF	CITATIONS
3419	Carbon materials with high pentagon density. Journal of Materials Science, 2021, 56, 2912-2943.	1.7	35

3420	Analysis of fluctuations in the Raman spectra of suspended and supported graphene films. Applied Surface Science, 2021, 536, 147812.	3.1	4
------	--	-----	---

3421

#	ARTICLE	IF	CITATIONS
3437	Nitrojen KatkÄ±lÄ± Grafen Film Sentezi ve Karakterizasyonu. Journal of Polytechnic, 2022, 25, 667-673.	0.4	1
3438	Synthesis and Characterization of Graphene Oxide Under Different Conditions, and a Preliminary Study on its Efficacy to Adsorb Cu ²⁺ . Advances in Science, Technology and Engineering Systems, 2021, 6, 10-16.	0.4	1
3439	Electronic-temperature estimation of Joule-heated graphene via Raman investigations. Journal of the Korean Physical Society, 2021, 78, 164-168.	0.3	1
3440	Flexible single-crystalline GaN substrate by direct deposition of III-N thin films on polycrystalline metal tape. Journal of Materials Chemistry C, 2021, 9, 2243-2251.	2.7	6
3442	Calculation of the Raman spectra of graphene nanoribbon. AIP Conference Proceedings, 2021, , .	0.3	0
3443	Gram-scale synthesis of electrochemically oxygenated graphene nanosheets for removal of methylene blue from aqueous solution. Nanotechnology, 2021, 32, 16LT01.	1.3	10
3444	N-doped graphene foam obtained by microwave-assisted exfoliation of graphite. Scientific Reports, 2021, 11, 2044.	1.6	18
3445	Fabrication of high-performance symmetrical coin cell supercapacitors by using one step and green synthesis sulfur doped graphene powders. New Journal of Chemistry, 2021, 45, 6928-6939.	1.4	33
3446	Programmed exfoliation of hierarchical graphene nanosheets mediated by dynamic self-assembly of supramolecular polymers. Materials Chemistry Frontiers, 2021, 5, 6998-7011.	3.2	1
3447	Meso/Microporous Carbons from Conjugated Hyper-Crosslinked Polymers Based on Tetraphenylethene for High-Performance CO ₂ Capture and Supercapacitor. Molecules, 2021, 26, 738.	1.7	77
3448	Metal organic framework sensors on flexible substrate for ammonia sensing application at room temperature. Journal of Materials Chemistry C, 0, , .	2.7	8
3449	<i>In situ</i> electrochemical Raman investigation of charge storage in rGO and N-doped rGO. Physical Chemistry Chemical Physics, 2021, 23, 11789-11796.	1.3	15
3450	Low-weight fractions of graphene and hydroxyapatite enhance mechanics in photocured methacrylate adhesives. Journal of Applied Polymer Science, 2021, 138, 50442.	1.3	3
3451	The Role of the Oxidation and Reduction Parameters on the Properties of the Reduced Graphene Oxide. Coatings, 2021, 11, 166.	1.2	17
3452	Total conversion from graphite to few-layer graphene nanocomposite. Carbon Trends, 2021, 2, 100017.	1.4	5
3453	Facile Synthesis and Characterization of Few-Layer Multifunctional Graphene from Sustainable Precursors by Controlled Pyrolysis, Understanding of the Graphitization Pathway, and Its Potential Application in Polymer Nanocomposites. ACS Omega, 2021, 6, 1809-1822.	1.6	9
3454	Single-layer carbon nitride: synthesis, structure, photophysical/photochemical properties, and applications. Physical Chemistry Chemical Physics, 2021, 23, 20745-20764.	1.3	5
3455	Role of Graphene Oxide on the Mechanical Behaviour of Polycarbonate-Urethane/Graphene Oxide Composites. Materials Research, 2021, 24, .	0.6	2

#	ARTICLE	IF	CITATIONS
3456	Direct conversion of lignin to high-quality graphene-based materials <i>via</i> catalytic carbonization. RSC Advances, 2021, 11, 18702-18707.	1.7	6
3457	Metal free-covalent triazine frameworks as oxygen reduction reaction catalysts â€“structureâ€“electrochemical activity relationship. Catalysis Science and Technology, 2021, 11, 6191-6204.	2.1	8
3458	Overview of Raman Spectroscopy: Fundamental to Applications. Progress in Optical Science and Photonics, 2021, , 145-184.	0.3	2
3460	Construction of Oriented Interconnected BNNS Skeleton by Self-Growing CNTs Leading High Thermal Conductivity. Advanced Materials Interfaces, 2021, 8, 2001910.	1.9	11
3461	Graphene preparation and process parameters by pre-intercalation assisted electrochemical exfoliation of graphite. Journal of Solid State Electrochemistry, 2021, 25, 1245-1257.	1.2	4
3462	Tuning protein adsorption on graphene surfaces <i>via</i> laser-induced oxidation. Nanoscale Advances, 2021, 3, 2065-2074.	2.2	12
3463	Load-dependent energy dissipation induced by the tipâ€“membrane friction on suspended 2D materials. Physical Chemistry Chemical Physics, 2021, 23, 19819-19826.	1.3	3
3464	Porous carbon from Manihot Esculenta (cassava) peels waste for charge storage applications. Current Research in Green and Sustainable Chemistry, 2021, 4, 100098.	2.9	14
3465	Boosting Efficient K-Ion Storage of Sb ₂ S ₃ -Based Conversion-Alloying Dual Mechanism Anode via Synergistic Effect of Physical Protection and Chemical Bonding. SSRN Electronic Journal, 0, , .	0.4	0
3466	Protein interactions with chemical vapor deposited graphene modified by substrate. 2D Materials, 2021, 8, 025015.	2.0	3
3467	The use of sample positioning to control defect creation by oxygen plasma in isotopically labelled bilayer graphene membranes. RSC Advances, 2021, 11, 10316-10322.	1.7	3
3468	Polydopamine Functionalized Graphene Oxide as Membrane Nanofiller: Spectral and Structural Studies. Membranes, 2021, 11, 86.	1.4	44
3469	Closely packed planar polyphthalocyanine iron/hierarchical three-dimensional graphene as an oxygen electrocatalyst for the ORR and OER, and zincâ€“air batteries. Sustainable Energy and Fuels, 2021, 5, 5216-5226.	2.5	25
3470	Probing interlayer interaction via chiral phonons in layered honeycomb materials. Physical Review B, 2021, 103, .	1.1	14
3471	Development of electrode materials for high-performance supercapacitors. , 2021, , 545-557.		5
3472	Tribological Performance Investigation of a Commercial Engine Oil Incorporating Reduced Graphene Oxide as Additive. Nanomaterials, 2021, 11, 386.	1.9	10
3474	Recent Advance in Tunable Single-Frequency Fiber Laser Based on Two-Dimensional Materials. Frontiers in Physics, 2021, 8, .	1.0	6
3475	Si Swarf Wrapped by Graphite Sheets for Li-Ion Battery Electrodes with Improved Overvoltage and Cyclability. Journal of the Electrochemical Society, 2021, 168, 020521.	1.3	3

#	ARTICLE	IF	CITATIONS
3476	The Ultrafast and Eco-friendly Reduction of Graphene Oxide Using a UV-IR Assisted Intense Pulsed Light and Its Application as Supercapacitor. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 201-211.	2.7	8
3477	Plasma Assisted Reduction of Graphene Oxide Films. Nanomaterials, 2021, 11, 382.	1.9	9
3478	Preparation iron-nickel/graphene heterogeneous composites for enhanced microwave absorption performance via electrochemical exfoliation/deposition technique. Materials Chemistry and Physics, 2021, 260, 124155.	2.0	5
3479	Electrochemical Synthesis, Deposition, and Doping of Polycyclic Aromatic Hydrocarbon Films. Journal of the American Chemical Society, 2021, 143, 2682-2687.	6.6	30
3480	INTRODUCTION TO TWO-DIMENSIONAL MATERIALS. Surface Review and Letters, 2021, 28, 2140005.	0.5	14
3481	Edge-Rich Interconnected Graphene Mesh Electrode with High Electrochemical Reactivity Applicable for Glucose Detection. Nanomaterials, 2021, 11, 511.	1.9	3
3482	Simple and environment-friendly method for graphene synthesis by using ultrasound.. Current Nanoscience, 2021, 17, .	0.7	0
3483	A green approach to water-based graphene ink with reverse coffee ring effect. Journal of Materials Science: Materials in Electronics, 2021, 32, 7431-7442.	1.1	5
3484	Twisted Bilayer Graphene: A Versatile Fabrication Method and the Detection of Variable Nanometric Strain Caused by Twist-Angle Disorder. ACS Applied Nano Materials, 2021, 4, 1858-1866.	2.4	19
3485	Tailoring of a Piezo-Photo-Thermal Solar Evaporator for Simultaneous Steam and Power Generation. Advanced Functional Materials, 2021, 31, 2010422.	7.8	50
3486	Preparation of high-crystallinity synthetic graphite from hard carbon-based carbon black. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	4
3487	Accelerated Synthesis of Graphene Oxide from Graphene. Nanomaterials, 2021, 11, 551.	1.9	48
3488	Preservation stability of chemically synthesized graphite oxide slurry and reduced graphene oxide powder. Journal of Materials Science: Materials in Electronics, 2021, 32, 6636-6647.	1.1	3
3489	The Possible Detriment of Oxygen in Creep of Alumina and Zirconia Ceramic Composites Reinforced with Graphene. Materials, 2021, 14, 984.	1.3	4
3490	Gamma-Ray Tolerant Flexible Pressure-Temperature Sensor for Nuclear Radiation Environment. Advanced Materials Technologies, 2021, 6, 2001039.	3.0	14
3491	A complex study of the dependence of the reduced graphite oxide electrochemical behavior on the annealing temperature and the type of electrolyte. Electrochimica Acta, 2021, 370, 137832.	2.6	18
3492	Micro-photoluminescence of Carbon Dots Deposited on Twisted Double-Layer Graphene Grown by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2021, 13, 7324-7333.	4.0	3
3493	Functionalization Mechanism of Reduced Graphene Oxide Flakes with BF ₃ ·THF and Its Influence on Interaction with Li ⁺ Ions in Lithium-Ion Batteries. Materials, 2021, 14, 679.	1.3	2

#	ARTICLE	IF	CITATIONS
3494	MoS ₂ /Epitaxial graphene layered electrodes for solid-state supercapacitors. <i>Nanotechnology</i> , 2021, 32, 195401.	1.3	3
3495	Study of Thermal Expansion Coefficient of Graphene via Raman Microspectroscopy: Revisited. <i>Small</i> , 2021, 17, e2006146.	5.2	7
3496	Optical Evidence for the Assembly of Sensors Based on Reduced Graphene Oxide and Polydiphenylamine for the Detection of Epidermal Growth Factor Receptor. <i>Coatings</i> , 2021, 11, 258.	1.2	2
3497	NASICON-Structured Na ₂ VTi(PO ₄) ₃ @C for Symmetric Aqueous Rechargeable Na-Ion Batteries with Long Lifespan. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3490-3497.	3.2	21
3498	Tribological Performance of Graphite Nanoplatelets Reinforced Al and Al/Al ₂ O ₃ Self-Lubricating Composites. <i>Materials</i> , 2021, 14, 1183.	1.3	21
3499	Nikel Folyo Üzerinde B ^{1/4} me S ^{1/4} resi ve Metan Ak [±] Ä [±] n [±] n Grafen Sentezi Üzerindeki Etkisinin İncelenmesi. <i>Journal of Polytechnic</i> , 0, , .	0.4	0
3500	Pencil graphite as electrode platform for free chlorine sensors and energy storage devices. <i>PLoS ONE</i> , 2021, 16, e0248142.	1.1	10
3501	Preparation and Characterization of Graphene from Refined Benzene Extracted from Low-Rank Coal: Based on the CVD Technology. <i>Molecules</i> , 2021, 26, 1900.	1.7	7
3502	Carbon nanosheets derived from reconstructed lignin for potassium and sodium storage with low voltage hysteresis. <i>Nano Research</i> , 2021, 14, 4664-4673.	5.8	24
3503	Effect of coking and propylene adsorption on enhanced stability for Co ²⁺ -catalyzed propane dehydrogenation. <i>Journal of Catalysis</i> , 2021, 395, 105-116.	3.1	34
3504	Stacked graphene with nanoscale wrinkles supports osteogenic differentiation of human adipose-derived stromal cells. <i>2D Materials</i> , 2021, 8, 025034.	2.0	1
3505	Seeded Growth of Ultrathin Carbon Films Directly onto Silicon Substrates. <i>ACS Omega</i> , 2021, 6, 8829-8836.	1.6	4
3506	Large transport gap modulation in graphene via electric-field-controlled reversible hydrogenation. <i>Nature Electronics</i> , 2021, 4, 254-260.	13.1	19
3507	MWCNTs/PEDOT: PSS Composite as Guiding Layer on Screen-Printed Carbon Electrode for Linear Range Lactate Detection. <i>Journal of the Electrochemical Society</i> , 2021, 168, 037507.	1.3	8
3508	Toward the perfect membrane material for environmental x-ray photoelectron spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 234001.	1.3	6
3509	Carbon Fibers Derived from Oleic Acid-Functionalized Lignin via Thermostabilization Accelerated by UV Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5204-5216.	3.2	10
3510	Raman spectroscopic study of artificially twisted and non-twisted trilayer graphene. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	3
3511	Investigation of the usability of extreme temperature changes in pristine graphene production. <i>FlatChem</i> , 2021, 26, 100223.	2.8	4

#	ARTICLE	IF	CITATIONS
3512	Remote epitaxy of GaN via graphene on GaN/sapphire templates. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 205103.	1.3	26
3513	Optimization of Glutathione Adhesion Process to Modified Graphene Surfaces. <i>Nanomaterials</i> , 2021, 11, 756.	1.9	2
3514	Improving the flexibility of graphene nanosheets films by using aramid nanofiber framework. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 142, 106265.	3.8	17
3515	Facile preparation of hydrogenated graphene by hydrothermal methods and the investigation of its ferromagnetism. <i>Chinese Chemical Letters</i> , 2021, 32, 3596-3600.	4.8	7
3516	Carbide-Derived Carbons: WAXS and Raman Spectra for Detailed Structural Analysis. <i>Journal of Carbon Research</i> , 2021, 7, 29.	1.4	10
3517	One-step preparation of gold nanoparticles - exfoliated graphene composite by gamma irradiation at low doses for photothermal therapy applications. <i>Materials Characterization</i> , 2021, 173, 110944.	1.9	3
3518	Paraffin wax assisted chemical vapor deposited graphene transfer method. <i>Thin Solid Films</i> , 2021, 721, 138556.	0.8	7
3519	Stress induced carbon fiber orientation for enhanced thermal conductivity of epoxy composites. <i>Composites Part B: Engineering</i> , 2021, 208, 108599.	5.9	76
3520	Reduction of Electrochemically Exfoliated Graphene Films for High-Performance Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15827-15836.	4.0	27
3521	Synthesize and Characterization of a Novel Nano Graphene Oxide Sulfolene derive. <i>Egyptian Journal of Chemistry</i> , 2021, .	0.1	0
3522	The Parameters of the Field Emission Model and the Fabrication of Zinc Oxide Nanorod Arrays/Graphene Film. <i>Frontiers in Physics</i> , 2021, 8, .	1.0	1
3523	Oxygen-Assisted Trimming Growth of Ultrahigh Vertical Graphene Films in a PECVD Process for Superior Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12400-12407.	4.0	12
3524	Adsorptive Anodic Stripping Voltammetric Determination of Atropine in Urine Sample. <i>Journal of the Electrochemical Society</i> , 2021, 168, 037512.	1.3	11
3525	An Intelligent Fire-Protection Coating Based on Ammonium Polyphosphate/Epoxy Composites and Laser-Induced Graphene. <i>Polymers</i> , 2021, 13, 984.	2.0	4
3526	Growth and electrical properties of n-type monolayer sulfur-doped graphene film in air. <i>Journal of Alloys and Compounds</i> , 2021, 860, 158462.	2.8	4
3527	Strategy for Designing a Cell Scaffold to Enable Wireless Electrical Stimulation for Enhanced Neuronal Differentiation of Stem Cells. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100027.	3.9	17
3528	Carbon Fiber Reinforced Polymer Composites Doped with Graphene Oxide in Light of Spectroscopic Studies. <i>Materials</i> , 2021, 14, 1835.	1.3	13
3529	Synthesis and characterizations of graphene/Sm doped BiFeO3 composites photoanode for efficient photo-electrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 15550-15560.	3.8	22

#	ARTICLE	IF	CITATIONS
3530	New Insight into the Characterization of Graphene Oxide and Reduced Graphene Oxide Monolayer Flakes on Si-Based Substrates by Optical Microscopy and Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7791-7798.	1.5	31
3531	Electrical Tuning of Optical Properties of Quantum Dot-Graphene Hybrid Devices: Interplay of Charge and Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8314-8322.	1.5	4
3532	Effects of Surface Engineering of Copper Catalyst on the CVD Growth of Boron-Doped Graphene with a Solid Carbon and Boron Source. <i>Coatings</i> , 2021, 11, 523.	1.2	1
3533	Engineering the edge-terminations and defect-density to enhance the electrochemical capacitance performance of vertical graphene nanosheets. <i>Applied Surface Science</i> , 2021, 545, 149045.	3.1	17
3534	Surface enhanced Raman scattering of crystal violet. , 2021, , .		1
3535	Low-temperature growth of graphene nanoplatelets by hot-wire chemical vapour deposition. <i>Surface and Coatings Technology</i> , 2021, 411, 126995.	2.2	8
3536	Preparation of graphene on SiC by laser-accelerated pulsed ion beams*. <i>Chinese Physics B</i> , 2021, 30, 116106.	0.7	3
3538	Enhanced tribological properties of aligned graphene-epoxy composites. <i>Friction</i> , 2022, 10, 854-865.	3.4	18
3539	A scalable electron beam irradiation platform applied for allotropic carbon transformation. <i>Carbon</i> , 2021, 174, 567-580.	5.4	6
3540	Internal diameter HVOAF thermal spray of carbon nanotubes reinforced WC-Co composite coatings. <i>Materials and Design</i> , 2021, 202, 109566.	3.3	15
3541	Hydrothermal growth of ZnO/GO hybrid as an efficient electrode material for supercapacitor applications. <i>Scripta Materialia</i> , 2021, 195, 113708.	2.6	16
3542	Converting plastic waste pyrolysis ash into flash graphene. <i>Carbon</i> , 2021, 174, 430-438.	5.4	62
3543	Influence of defect density on the gas sensing properties of multi-layered graphene grown by chemical vapor deposition. <i>Carbon Trends</i> , 2021, 3, 100024.	1.4	7
3544	Phononics of Graphene Interfaced with Flowing Ionic Fluid: An Avenue for High Spatial Resolution Flow Sensor Applications. <i>ACS Nano</i> , 2021, 15, 6998-7005.	7.3	10
3545	Substitutional boron doping of graphene using diborane in CVD. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 128, 114629.	1.3	7
3546	High-Resolution Laser-Induced Graphene from Photoresist. <i>ACS Nano</i> , 2021, 15, 8976-8983.	7.3	43
3547	Preparation and Mechanical Properties of Layered Cu/Gr Composite Film. <i>Coatings</i> , 2021, 11, 502.	1.2	3
3548	The liquid exfoliation of graphene in polar solvents. <i>Applied Surface Science</i> , 2021, 546, 149046.	3.1	36

#	ARTICLE	IF	CITATIONS
3549	Synthesis of graphene and recovery of lithium from lithiated graphite of spent Li-ion battery. Waste Management, 2021, 124, 283-292.	3.7	38
3550	Graphene-based SERS for sensor and catalysis. Applied Spectroscopy Reviews, 2023, 58, 1-38.	3.4	39
3551	One step electrochemical exfoliation of natural graphite flakes into graphene oxide for polybenzimidazole composite membranes giving enhanced performance in high temperature fuel cells. Journal of Power Sources, 2021, 491, 229550.	4.0	24
3552	Dimension-dependent thermal conductivity of graphene nanoribbons on silicon carbide. European Physical Journal Plus, 2021, 136, 1.	1.2	6
3553	Study of Pulse Formation in an EDFL Under a Large Dispersion Variation Hybridly Mode-Locked by Graphene and Nonlinear Polarization Rotation. IEEE Photonics Journal, 2021, 13, 1-14.	1.0	13
3554	Surface-tailored graphene channels. Npj 2D Materials and Applications, 2021, 5, .	3.9	12
3555	Facile fabrication for a stable interface in 2D materials/graphene van der Waals heterostructure. Applied Physics Express, 2021, 14, 055004.	1.1	1
3556	Reducing metal/graphene contact resistance via N, N-dimethylacetamide-assisted clean fabrication process. Nanotechnology, 2021, 32, 315201.	1.3	3
3557	Carbon under pressure. Physics Reports, 2021, 909, 1-73.	10.3	64
3558	Multi-dimensional ordered mesoporous carbon/silica@Ni composite with hierarchical nanostructure for strong and broadband microwave absorption. Carbon, 2021, 176, 209-218.	5.4	48
3559	Synthesis of graphene nanosheets by the electrical explosion of graphite powder confined in a tube. Ceramics International, 2021, 47, 21934-21942.	2.3	15
3560	Raman spectra and infrared intensities of graphene-like clusters in compared to epitaxial graphene on SiC. Indian Journal of Physics, 0, , 1.	0.9	0
3561	Can a Procedure for the Growth of Single-layer Graphene on Copper be used in Different Chemical Vapor Deposition Reactors?. Chemistry - an Asian Journal, 2021, 16, 1466-1474.	1.7	5
3562	Boron doped graphene synthesis using pulsed laser deposition and its electrochemical characterization. Diamond and Related Materials, 2021, 115, 108382.	1.8	7
3563	Fluorescent Cdots(N)-Silica composites: Direct synthesis and application as electrochemical sensor of fenitrothion pesticide. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 267, 115084.	1.7	17
3564	3D field confinement in the near-field interaction between graphene and Si/SiGe axially heterostructured NWs. Applied Physics Letters, 2021, 118, 211104.	1.5	0
3565	The differences of physicochemical characteristics of graphene-like nanomaterials directly grown on copper foil and quartz substrate in chemical vapor deposition (CVD). Journal of Physics: Conference Series, 2021, 1912, 012028.	0.3	0
3566	Gas Cluster Ion Beam Cleaning of CVD-Grown Graphene for Use in Electronic Device Fabrication. ACS Applied Nano Materials, 2021, 4, 5187-5197.	2.4	5

#	ARTICLE	IF	CITATIONS
3567	New perspectives on Graphene/Graphene oxide based polymer nanocomposites for corrosion applications: The relevance of the Graphene/Polymer barrier coatings. <i>Progress in Organic Coatings</i> , 2021, 154, 106215.	1.9	65
3568	Expanded and nano-structured carbonaceous graphite for high performance anisotropic fuel cell polymer composites. <i>Composites Science and Technology</i> , 2021, 207, 108654.	3.8	18
3569	Polydopamine Films with 2D-like Layered Structure and High Mechanical Resilience. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23113-23120.	4.0	44
3570	Raman spectroscopy as an evaluation tool of the wear of graphite lubricants in brake pads. <i>Lubrication Science</i> , 2021, 33, 279-289.	0.9	4
3571	The role of copper on the restoration of graphene oxide by chemical vapor deposition. <i>Materials Research Express</i> , 2021, 8, 055601.	0.8	0
3572	Facilely synthesized N-doped graphene sheets and its ferromagnetic origin. <i>Chinese Chemical Letters</i> , 2021, 32, 3841-3846.	4.8	9
3573	Hierarchical Porous Graphene Bubbles as Host Materials for Advanced Lithium Sulfur Battery Cathode. <i>Frontiers in Chemistry</i> , 2021, 9, 653476.	1.8	8
3574	Charge carrier modulation in dual-gated graphene field effect transistor using honey as polar organic gate dielectric. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	3
3575	First- and second-order Raman spectra of carbonaceous material through successive contact and regional metamorphic events (Ryoke belt, SW Japan). <i>Lithos</i> , 2021, 388-389, 106029.	0.6	6
3576	Twisted graphene in graphite: Impact on surface potential and chemical stability. <i>Carbon</i> , 2021, 176, 431-439.	5.4	10
3577	Preparation of graphite-like biochars derived from straw and newspaper based on ball-milling and TEMPO-mediated oxidation and their supersorption performances to imidacloprid and sulfadiazine. <i>Chemical Engineering Journal</i> , 2021, 411, 128502.	6.6	37
3578	In-situ growth of few-layer graphene on ZnO with intimate interfacial contact for enhanced photocatalytic CO ₂ reduction activity. <i>Chemical Engineering Journal</i> , 2021, 411, 128501.	6.6	99
3579	Mechanically and chemically robust molybdenum carbide-graphene hybrid conductors. <i>Composites Part B: Engineering</i> , 2021, 215, 108684.	5.9	2
3580	Hollow hexagonal NiSe ₂ anchored onto reduced graphene oxide as efficient electrocatalysts for hydrogen evolution in wide-pH range. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 20524-20533.	3.8	11
3581	Structure of Coal-Derived Metal-Supported Few-Layer Graphene Composite Materials Synthesized Using a Microwave-Assisted Catalytic Graphitization Process. <i>Nanomaterials</i> , 2021, 11, 1672.	1.9	8
3582	Characterization and separation resistance of an in-situ 2D nanocarbon/calcium aluminate composite synthesized via a combustion method. <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 1038-1045.	1.0	3
3583	Recent Progress on CVD Growth of Graphene from a Liquid Carbon Precursor. <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 2021, 17, 262-273.	0.4	2
3584	Electric field analysis, polarization, excitation wavelength dependence, and novel applications of tip-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1997-2017.	1.2	7

#	ARTICLE	IF	CITATIONS
3585	Graphene wrapped NiSe ₂ nanocomposite-based counter electrode for dye-sensitized solar cells (DSSCs). <i>Diamond and Related Materials</i> , 2021, 116, 108396.	1.8	13
3586	Raman spectroscopy and correlative Raman technology excel as an optimal stage for carbon-based electrode materials in electrochemical energy storage. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2119-2130.	1.2	15
3587	Controlling physical characteristics of DNA and DNA-CTMA thin films by embedding with graphene oxide and riboflavin. <i>Journal Physics D: Applied Physics</i> , 0, , .	1.3	4
3588	Synthesis of large-area rhombohedral few-layer graphene by chemical vapor deposition on copper. <i>Carbon</i> , 2021, 177, 282-290.	5.4	22
3589	Growth and Characterisation Studies of Eu ₃ O ₄ Thin Films Grown on Si/SiO ₂ and Graphene. <i>Nanomaterials</i> , 2021, 11, 1598.	1.9	3
3590	Effect of copper pretreatment on optical and electrical properties of camphor-based graphene by chemical vapour deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 8397-8408.	1.1	2
3591	Vitreous Carbon, Geometry and Topology: A Hollistic Approach. <i>Nanomaterials</i> , 2021, 11, 1694.	1.9	17
3592	One-Minute Synthesis via Electroless Reduction of Amorphous Phosphorus-Doped Graphene for Oxygen Reduction Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 5388-5391.	2.5	9
3593	Synthesis of Phosphorus Doped Graphenes via the Yucelâ€™s Method as the Positive Electrode of a Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060504.	1.3	23
3594	High-pressure induced exfoliation for regulating the morphology of graphene in supercritical CO ₂ system. <i>Carbon</i> , 2021, 178, 211-222.	5.4	8
3595	Bulk Production of Any Ratio ¹² C: ¹³ C Turbostratic Flash Graphene and Its Unusual Spectroscopic Characteristics. <i>ACS Nano</i> , 2021, 15, 10542-10552.	7.3	17
3596	COVID-19 Spike Protein Induced Phononic Modification in Antibody-Coupled Graphene for Viral Detection Application. <i>ACS Nano</i> , 2021, 15, 11743-11752.	7.3	48
3597	The corrosion resistance mechanisms of the cr-coated SiC in molten Na ₂ SO ₄ salt: Strengthened boundaries and protective scales. <i>Corrosion Science</i> , 2021, 185, 109421.	3.0	9
3598	Room temperature acetone sensing performance of Pt/Sb ₂ O ₃ impregnated Fe ₂ O ₃ thin film: Noninvasive diabetes detection. <i>Microchemical Journal</i> , 2021, 165, 106111.	2.3	14
3600	Defect-Free Single-Layer Graphene by 10 s Microwave Solid Exfoliation and Its Application for Catalytic Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28600-28609.	4.0	17
3601	Controllable synthesized diamond/CNWs film as a novel nanocarbon electrode with wide potential window and enhanced S/B ratio for electrochemical sensing. <i>Applied Surface Science</i> , 2021, 551, 149418.	3.1	12
3602	Temperature dependent Raman scattering of directly grown twisted bilayer graphene film using LPCVD method. <i>Carbon</i> , 2021, 177, 366-376.	5.4	7
3603	Mechanical and corrosion properties of graphene nanoplateletâ€™ reinforced Mgâ€™Zr and Mgâ€™Zrâ€™Zn matrix nanocomposites for biomedical applications. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 458-477.	5.5	33

#	ARTICLE	IF	CITATIONS
3604	Enhancement of the mechanical properties of graphene nanoplatelet (GNP) reinforced nickel matrix nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 817, 141324.	2.6	22
3605	Strain-tuning of the electronic, optical, and vibrational properties of two-dimensional crystals. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	67
3606	Environmentally Friendly Graphene Inks for Touch Screen Sensors. <i>Advanced Functional Materials</i> , 2021, 31, 2103287.	7.8	33
3607	Carbon fibre electrodes for ultra long cycle life pseudocapacitors by engineering the nano-structure of vertical graphene and manganese dioxides. <i>Carbon</i> , 2021, 177, 260-270.	5.4	19
3608	Graphene production by cracking. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200293.	1.6	5
3609	Facile Fabrication of Robust and Reusable PDMS Supported Graphene Dry Electrodes for Wearable Electrocardiogram Monitoring. <i>Advanced Materials Technologies</i> , 2021, 6, 2100262.	3.0	32
3610	Polymer-wrapped reduced graphene oxide/nickel cobalt ferrite nanocomposites as tertiary hybrid supercapacitors: insights from experiment and simulation. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 291-301.	1.5	7
3611	Carbonization mechanisms of polyimide: Methodology to analyze carbon materials with nitrogen, oxygen, pentagons, and heptagons. <i>Carbon</i> , 2021, 178, 58-80.	5.4	77
3612	Transfer-free graphene synthesis by nickel catalyst dewetting using rapid thermal annealing. <i>Applied Surface Science</i> , 2021, 555, 149492.	3.1	10
3613	Highly-doped p-type few-layer graphene on UID off-axis homoepitaxial 4H-SiC. <i>Current Applied Physics</i> , 2021, 27, 17-24.	1.1	5
3614	Weakened interlayer interaction of incommensurate graphene as a key factor for superior lithium intercalation. <i>Journal of Materials Research</i> , 2021, 36, 2872-2880.	1.2	3
3615	Coating Properties of Single and Multi-Layer Graphene Oxide on a Polystyrene Surface. <i>Korean Journal of Materials Research</i> , 2021, 31, 420-426.	0.1	1
3616	Doping and plasmonic Raman enhancement in hybrid single walled carbon nanotubes films with embedded gold nanoparticles. <i>Carbon</i> , 2021, 179, 531-540.	5.4	7
3617	Effects of GNP on the mechanical properties and sliding wear of WC-10wt%Co cemented carbide. <i>Ceramics International</i> , 2021, 47, 18020-18029.	2.3	18
3618	Modification of interface and electronic transport in van der Waals heterojunctions by UV/O ₃ . <i>Nanotechnology</i> , 2021, 32, 415703.	1.3	2
3619	Multiple-excitation study of the double-resonance Raman bands in rhombohedral graphite. <i>Carbon</i> , 2021, 179, 683-691.	5.4	11
3620	Novel Thermally Reduced Graphene Oxide Microsupercapacitor Fabricated via Mask-Free AxiDraw Direct Writing. <i>Nanomaterials</i> , 2021, 11, 1909.	1.9	10
3621	Plasma-Enhanced Atomic Layer Deposition of Al ₂ O ₃ on Graphene Using Monolayer hBN as Interfacial Layer. <i>Advanced Materials Technologies</i> , 2021, 6, 2100489.	3.0	7

#	ARTICLE	IF	CITATIONS
3622	Graphene as a piezo-resistive coating to enable strain monitoring in glass fiber composites. <i>Composites Science and Technology</i> , 2021, 211, 108842.	3.8	25
3623	Preventing colour fading in artworks with graphene veils. <i>Nature Nanotechnology</i> , 2021, 16, 1004-1010.	15.6	22
3624	Excitonâ€“Photonics: From Fundamental Science to Applications. <i>ACS Nano</i> , 2021, 15, 12628-12654.	7.3	47
3625	Development of an aptamer-based SPR-biosensor for the determination of kanamycin residues in foods. <i>Analytica Chimica Acta</i> , 2021, 1169, 338631.	2.6	32
3626	Preparation and Carbonization of Glucose and Pyromellitic Dianhydride Crosslinked Polymers. <i>Journal of Carbon Research</i> , 2021, 7, 56.	1.4	0
3627	Monolayer and Bilayer Graphene on Ru(0001): Layer-Specific and MoirÃ©-Site-Dependent Phonon Excitations. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6889-6894.	2.1	1
3628	Nitrogen-enriched carbon powder prepared by ball-milling of graphene oxide with melamine: an efficient electrocatalyst for oxygen reduction reaction. <i>Mendeleev Communications</i> , 2021, 31, 529-531.	0.6	5
3629	Ammonia modified graphene oxide â€“ Gold nanoparticles composite as a substrate for surface enhanced Raman spectroscopy. <i>Applied Surface Science</i> , 2021, 554, 149060.	3.1	33
3630	Enhancement of photoresponse in Bi ₂ Se ₃ /graphene heterostructures by effective electronâ€“hole separation through internal band bending. <i>Applied Surface Science</i> , 2021, 554, 149623.	3.1	8
3631	Laserâ€“Induced Graphene Assisting Selfâ€“Conversion Reaction for Sulfurâ€“Free Aqueous Cuâ€“S Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2103893.	7.8	27
3632	Influence of doping level on the electrocatalytic properties for oxygen reduction reaction of N-doped reduced graphene oxide. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 26040-26052.	3.8	18
3633	Tuning photo-response and electronic behavior of graphene quantum dots synthesized via ion irradiation. <i>Physica B: Condensed Matter</i> , 2021, 613, 412978.	1.3	6
3635	Strong yet tough graphene/graphene oxide hybrid films. <i>Carbon</i> , 2021, 179, 469-476.	5.4	17
3636	Temperature effects on the vibrational properties of the Cs ₂ SnX ₆ â€“defectâ€“ perovskites (X = I, Br, Cl). <i>Materials Chemistry and Physics</i> , 2021, 267, 124679.	2.0	9
3637	A Simplified Method for Patterning Graphene on Dielectric Layers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37510-37516.	4.0	0
3638	Carbon Lattice Structures in Nitrogen-Doped Reduced Graphene Oxide: Implications for Carbon-Based Electrical Conductivity. <i>ACS Applied Nano Materials</i> , 2021, 4, 7897-7904.	2.4	14
3639	Sulfur-doping effects on the supercapacitive behavior of porous spherical graphene electrode derived from layered double hydroxide template. <i>Applied Surface Science</i> , 2021, 558, 149867.	3.1	19
3640	Impact of nitrogen doping on the band structure and the charge carrier scattering in monolayer graphene. <i>Physical Review Materials</i> , 2021, 5, .	0.9	3

#	ARTICLE	IF	CITATIONS
3641	Eco-friendly protocol for zinc-doped amorphous carbon-based film construction over steel surface using nature-inspired phytochemicals: Coupled experimental and classical atomic/molecular and electronic-level theoretical explorations. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105487.	3.3	19
3642	Finding a facile way to exfoliate graphite electrochemically for energy storage device application. <i>MRS Advances</i> , 2021, 6, 594-598.	0.5	2
3643	3D-printing in forensic electrochemistry: Atropine determination in beverages using an additively manufactured graphene-poly(lactic acid) electrode. <i>Microchemical Journal</i> , 2021, 167, 106324.	2.3	26
3644	Graphene-Based Electrodes for Silicon Heterojunction Solar Cell Technology. <i>Materials</i> , 2021, 14, 4833.	1.3	10
3645	Polypyrrole functionalized Cobalt oxide Graphene (COPYGO) nanocomposite for the efficient removal of dyes and heavy metal pollutants from aqueous effluents. <i>Journal of Hazardous Materials</i> , 2021, 416, 125929.	6.5	56
3646	Quantitative Study of Residual Strain and Geometrically Necessary Dislocation Density Using HR-EBSD Method. <i>Experimental Mechanics</i> , 2021, 61, 1281-1290.	1.1	7
3647	Synthesis and Characterization of Nitrogen-Doped Graphene Nanowalls by Plasma-Enhanced Chemical Vapor Deposition for High Voltage Supercapacitors: Effects of Carbon Sources. <i>Journal of the Electrochemical Society</i> , 2021, 168, 080505.	1.3	5
3648	A novel strategy to achieve 2V symmetric supercapacitor using B, N doped rGO as an electrode material in seawater in salt based hydrous electrolyte. <i>Electrochimica Acta</i> , 2021, 388, 138571.	2.6	10
3649	High-concentration graphene dispersions prepared via exfoliation of graphite in PVA/H ₂ O green solvent system using high-shear forces. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	9
3650	Resonance Raman enhancement by the intralayer and interlayer electron-phonon processes in twisted bilayer graphene. <i>Scientific Reports</i> , 2021, 11, 17206.	1.6	7
3651	Enhanced response of sensor on serotonin using nickel-reduced graphene oxide by atomic layer deposition. <i>Bioelectrochemistry</i> , 2021, 140, 107820.	2.4	10
3652	Vertically-aligned carbon nanotube at low pressure by cold-wall thermal CVD using a two-phase deposition step. <i>Carbon Trends</i> , 2021, 5, 100087.	1.4	6
3653	CO ₂ Metallothermal Reduction to Graphene: The Influence of Zn. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	1.3	4
3654	Multifunctional oil-produced reduced graphene oxide-Silver oxide composites with photocatalytic, antioxidant, and antibacterial activities. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 294-305.	5.0	34
3655	Activated Graphene Nanoplatelets Decorated with Carbon Nitrides for Efficient Electrocatalytic Oxygen Reduction Reaction. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100104.	2.8	11
3656	Ultralong and Millimeter-Thick Graphene Oxide Supercapacitors with High Volumetric Capacitance. <i>ACS Applied Energy Materials</i> , 2021, 4, 8059-8069.	2.5	13
3657	Consolidated Co- and Fe-based Fischer-Tropsch catalysts supported on jellyfish-like graphene nanoflake framework. <i>Catalysis Today</i> , 2021, , .	2.2	4
3658	Ultrathin Lubricant-Infused Vertical Graphene Nanoscaffolds for High-Performance Dropwise Condensation. <i>ACS Nano</i> , 2021, 15, 14305-14315.	7.3	23

#	ARTICLE	IF	CITATIONS
3659	Chemical Modification of Nanographenes and Their Functions. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2021, 79, 743-754.	0.0	0
3660	Ultrafast dynamics of charge transfer in CVD grown MoS ₂ –graphene heterostructure. Applied Physics Letters, 2021, 119, .	1.5	6
3661	Revealing the Real Role of Nickel Decorated Nitrogen-Doped Carbon Catalysts for Electrochemical Reduction of CO ₂ to CO. Advanced Energy Materials, 2021, 11, 2101477.	10.2	63
3662	Boosting Effect of Nitrogen and Phosphorous Co-doped Three-Dimensional Graphene Architecture: Highly Selective Electrocatalysts for Carbon Dioxide Electroreduction to Formate. Topics in Catalysis, 2022, 65, 656-667.	1.3	32
3663	Bottom-Up Synthesized Nanoporous Graphene Transistors. Advanced Functional Materials, 2021, 31, 2103798.	7.8	15
3664	Raman tensor of graphite: Symmetry of G, D and D ₂ phonons. Science China Materials, 2022, 65, 268-272.	3.5	2
3665	Factors Influencing the Electrocatalytic Properties of Graphene Oxide – Gold Nanoparticles Hybrid System. ChemElectroChem, 2021, 8, 3080-3088.	1.7	2
3666	Carbon nanotube/graphene nanocomposites built via surfactant-mediated colloid assembly as metal-free catalysts for the oxygen reduction reaction. Journal of Materials Science, 2021, 56, 19512-19527.	1.7	6
3667	Enhanced Thermopower of Saturated Molecules by Noncovalent Anchor-Induced Electron Doping of Single-Layer Graphene Electrode. Advanced Materials, 2021, 33, e2103177.	11.1	17
3668	Investigation of Graphene Derivatives on Electrical Properties of Alkali Activated Slag Composites. Materials, 2021, 14, 4374.	1.3	5
3669	A facile method for coal to graphene oxide and its application to a biosensor. Carbon, 2021, 181, 408-420.	5.4	34
3670	A submicron Si@C core-shell intertwined with carbon nanowires and graphene nanosheet as a high-performance anode material for lithium ion battery. Energy Storage Materials, 2021, 39, 1-10.	9.5	72
3671	Graphene-Based Nanocomposites: Synthesis, Mechanical Properties, and Characterizations. Polymers, 2021, 13, 2869.	2.0	79
3672	Reliable Fabrication of Graphene Nanostructure Based on e-Beam Irradiation of PMMA/Copper Composite Structure. Materials, 2021, 14, 4634.	1.3	2
3673	Carbon-based neural electrodes: promises and challenges. Journal of Neural Engineering, 2021, 18, 041007.	1.8	29
3674	Angstrom-Scale Spectroscopic Visualization of Interfacial Interactions in an Organic/Borophene Vertical Heterostructure. Journal of the American Chemical Society, 2021, 143, 15624-15634.	6.6	29
3675	Advanced Engineering for Cathode in Lithium-Oxygen Batteries: Flexible 3D Hierarchical Porous Architecture Design and Its Functional Modification. Advanced Functional Materials, 2021, 31, 2105664.	7.8	14
3676	Low Toxicological Impact of Commercial Pristine Multi-Walled Carbon Nanotubes on the Yeast Saccharomyces cerevisiae. Nanomaterials, 2021, 11, 2272.	1.9	1

#	ARTICLE	IF	CITATIONS
3677	Low frequency coherent Raman spectroscopy. <i>JPhys Photonics</i> , 2021, 3, 042004.	2.2	7
3678	A Comprehensive Review on Raman Spectroscopy Applications. <i>Chemosensors</i> , 2021, 9, 262.	1.8	96
3679	Measurement of Residual Stress in Silicon Carbide Fibers of Tubular Composites Using Raman Spectroscopy. <i>Acta Materialia</i> , 2021, 217, 117164.	3.8	28
3680	Characterizations of Carbon Nanotubes and Graphene. <i>Springer Series in Materials Science</i> , 2022, , 65-90.	0.4	0
3681	Manipulating the self-assembly behavior of graphene nanosheets via adenine-functionalized biodegradable polymers. <i>Applied Surface Science</i> , 2022, 572, 151437.	3.1	6
3682	E-beam direct synthesis of macroscopic thick 3D porous graphene films. <i>Carbon</i> , 2021, 182, 393-403.	5.4	17
3683	Novel Correlations between Spectroscopic and Morphological Properties of Activated Carbons from Waste Coffee Grounds. <i>Processes</i> , 2021, 9, 1637.	1.3	7
3684	Optoelectronic synapses using vertically aligned graphene/diamond heterojunctions. <i>Carbon</i> , 2021, 182, 669-676.	5.4	13
3685	Bias-modulated van der Waals heterojunction photodetector of graphene nanosheets embedded carbon film/n-Si. <i>Thin Solid Films</i> , 2021, 734, 138834.	0.8	0
3686	A novel titania/graphene composite applied in reinforcing microstructural and mechanical properties of alkali-activated slag. <i>Journal of Building Engineering</i> , 2021, 41, 102386.	1.6	13
3687	Sensing the quantized reactivity of graphene. <i>Analytica Chimica Acta</i> , 2021, 1177, 338735.	2.6	2
3688	Microplasma-Engineered Ag/GONR-Based Nanocomposites for Selective and Label-Free SERS-Sensitive Detection of Dopamine. <i>ACS Applied Nano Materials</i> , 2021, 4, 10360-10369.	2.4	7
3689	Few layer graphene/silver nanocomposite based flexible and resistive liquefied petroleum gas sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 23889-23899.	1.1	2
3690	Effect of Microwave Treatment in a High Pressure Microwave Reactor on Graphene Oxide Reduction Process—TEM, XRD, Raman, IR and Surface Electron Spectroscopic Studies. <i>Materials</i> , 2021, 14, 5728.	1.3	7
3691	Width Dependent Elastic Properties of Graphene Nanoribbons. <i>Materials</i> , 2021, 14, 5042.	1.3	5
3692	Ascorbic acid-assisted defect healing and stack ordering of graphene films towards high power thermal dispersion. <i>Carbon</i> , 2021, 182, 799-805.	5.4	13
3693	Electromagnetic microwave absorption properties of high entropy spinel ferrite ((MnNiCuZn) _{1-x} CoxFe ₂ O ₄)/graphene nanocomposites. <i>Journal of Materials Research and Technology</i> , 2021, 14, 1099-1111.	2.6	42
3694	A Heat Transfer Model for Graphene Deposition on Ni and Cu Foils in a Roll-to-Roll Plasma Chemical Vapor Deposition System. <i>Journal of Heat Transfer</i> , 2021, 143, .	1.2	2

#	ARTICLE	IF	CITATIONS
3695	Tailoring the graphene oxide chemical structure and morphology as a key to polypropylene nanocomposite performance. <i>Polymer Composites</i> , 0, , .	2.3	6
3696	Highly effective gating of graphene on GaN. <i>Applied Surface Science</i> , 2021, 560, 149939.	3.1	3
3697	Layer exchange synthesis of multilayer graphene. <i>Nanotechnology</i> , 2021, 32, 472005.	1.3	8
3698	Wicker-like SiC@graphene multidimensional nanostructures and their robust stable super-hydrophobic property against harsh conditions for self-cleaning application. <i>Materials Characterization</i> , 2021, 179, 111389.	1.9	5
3699	Integration of graphene with GZO as TCO layer and its impact on solar cell performance. <i>Renewable Energy</i> , 2021, , .	4.3	11
3700	Optical anisotropy of laser-induced graphene films. <i>Optics and Laser Technology</i> , 2021, 141, 107143.	2.2	11
3701	Fabrication of fanlike L-shaped graphene nanostructures with enhanced thermal/electrochemical properties via laser irradiation. <i>Carbon</i> , 2021, 182, 691-699.	5.4	16
3702	Open-atmosphere flame synthesis of monolayer graphene. <i>Carbon</i> , 2021, 182, 307-315.	5.4	5
3703	Copper acetate-facilitated transfer-free growth of high-quality graphene for hydrovoltaic generators. <i>National Science Review</i> , 2022, 9, .	4.6	8
3704	Ambient energy dispersion and long-term stabilisation of large graphene sheets from graphite using a surface energy matched ionic liquid. <i>Journal of Ionic Liquids</i> , 2021, 1, 100001.	1.0	6
3705	Unravelling the optimization of few-layer graphene crystallinity and electrical conductivity in ceramic composites by Raman spectroscopy. <i>Journal of the European Ceramic Society</i> , 2021, 41, 290-298.	2.8	19
3706	Impact of the exfoliated graphite on magnetic and microwave properties of the hexaferrite-based composites. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160397.	2.8	19
3707	Structure, magnetic, and microwave absorption properties of (MnNiCu) _{0.9-1-x} CoxZn0.1Fe2O4/graphene composite powders. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160337.	2.8	6
3708	Effects of buffer gas on N-doped graphene in a non-thermal plasma process. <i>Diamond and Related Materials</i> , 2021, 118, 108548.	1.8	5
3709	Supercapacitor electrode with high charge density based on boron-doped porous carbon derived from covalent organic frameworks. <i>Carbon</i> , 2021, 184, 418-425.	5.4	38
3710	Pseudocapacitive behaviour of iron oxides supported on carbon nanofibers as a composite electrode material for aqueous-based supercapacitors. <i>Journal of Energy Storage</i> , 2021, 42, 103052.	3.9	17
3711	Carbon nanotube modified laser-induced graphene electrode for hydrogen peroxide sensing. <i>Materials Letters</i> , 2021, 300, 130106.	1.3	20
3712	Graphene-like coated steel tube via biased hollow cathode discharges. <i>Vacuum</i> , 2021, 192, 110431.	1.6	1

#	ARTICLE	IF	CITATIONS
3713	Inherent strains in chemical-vapor-deposited bilayer graphene on Cu. Carbon, 2021, 184, 109-114.	5.4	5
3714	Superior carbon nanotube stability by molecular filling:a single-chirality study at extreme pressures. Carbon, 2021, 183, 884-892.	5.4	7
3715	Formation of graphene nanostructures using laser induced vaporization of entrapped water. Carbon, 2021, 183, 84-92.	5.4	6
3716	Long-term environmental stability of nitrogen-healed black phosphorus. Applied Surface Science, 2021, 564, 150450.	3.1	7
3717	A Nickel/Palladium/Ruthenium-Graphene based nanocatalyst for selective catalytic hydrogenation of vegetable oils. Industrial Crops and Products, 2021, 170, 113815.	2.5	9
3718	Dual-functional 3D multi-wall carbon nanotubes/graphene/silicone rubber elastomer: Thermal management and electromagnetic interference shielding. Carbon, 2021, 183, 216-224.	5.4	53
3719	Metal-free Covalent Triazine Framework Prepared from 2,4,6-Tricyano-1,3,5-triazine through Open-system and Liquid-phase Synthesis. Chemistry Letters, 2021, 50, 1773-1777.	0.7	10
3720	In-situ graphene platelets formation and its suppression during reactive spark plasma sintering of boron carbide/titanium diboride composites. Journal of the European Ceramic Society, 2021, 41, 6281-6289.	2.8	11
3721	Measuring quantum conductance and capacitance of graphene using impedance-derived capacitance spectroscopy. Carbon, 2021, 184, 821-827.	5.4	16
3722	Sonoelectrochemical exfoliation of graphene in various electrolytic environments and their structural and electrochemical properties. Carbon, 2021, 184, 266-276.	5.4	22
3723	Temperature-dependent site selection of boron doping in chemically derived graphene. Carbon, 2021, 184, 253-265.	5.4	5
3724	Combined extrusion-printed and laser-induced graphene enabled self-sensing composites with a strategic roadmap toward optimization of piezoresistivity. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106553.	3.8	5
3725	Dynamic confocal Raman spectroscopy of flowing blood in bionic blood vessel. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 259, 119890.	2.0	3
3726	In situ kinetic studies of CVD graphene growth by reflection spectroscopy. Chemical Engineering Journal, 2021, 421, 129434.	6.6	10
3727	Mechanical properties of graphene nanoplatelets-reinforced concrete prepared with different dispersion techniques. Construction and Building Materials, 2021, 303, 124472.	3.2	37
3728	Forced resonance vibration analysis in advanced polymeric nanocomposite plate surrounded by an elastic medium. Composite Structures, 2021, 275, 114389.	3.1	3
3729	Exploring graphene and graphene/nanoparticles as fillers to enhance atomic oxygen corrosion resistance of polyimide films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127398.	2.3	9
3730	A DFT investigation of lithium adsorption on graphenes as a potential anode material in lithium-ion batteries. Journal of Molecular Graphics and Modelling, 2021, 108, 107998.	1.3	11

#	ARTICLE	IF	CITATIONS
3731	Hydrophobic-to-hydrophilic affinity change of sub-monolayer water molecules at water-graphene interfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127393.	2.3	13
3732	Cleaner production of tamarind fruit shell into bio-mass derived porous 3D-activated carbon nanosheets by CVD technique for supercapacitor applications. <i>Chemosphere</i> , 2021, 282, 131033.	4.2	36
3733	Energetic bombardment and defect generation during magnetron-sputter-deposition of metal layers on graphene. <i>Applied Surface Science</i> , 2021, 566, 150661.	3.1	8
3734	Delamination of multilayer graphene stacks from its substrate through wrinkle formation under high pressures. <i>Carbon</i> , 2021, 185, 242-251.	5.4	2
3735	Modulating visible-near-infrared reflectivity in ultrathin graphite by reversible Li-ion intercalation. <i>Optical Materials</i> , 2021, 121, 111517.	1.7	6
3736	Bulk-scale synthesis of randomly stacked graphene with high crystallinity. <i>Carbon</i> , 2021, 185, 368-375.	5.4	7
3737	Catalytic hydrogenation of organic dyes by Ag nanoparticles on reduced graphene oxide. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 103, 124-135.	2.9	20
3738	Synthesis of scalable adlayer-free monolayer graphene film on Cu ₈₀ Ni ₂₀ foil. <i>Materials Letters</i> , 2021, 303, 130505.	1.3	5
3739	A novel approach to prepare highly oxidized graphene oxide: structural and electrochemical investigations. <i>Applied Surface Science</i> , 2021, 567, 150883.	3.1	17
3740	Effects of graphene nanoplatelets and hexagonal boron nitride on spark plasma sintered (Zr,Nb)B ₂ solid solutions. <i>Journal of Alloys and Compounds</i> , 2021, 884, 161110.	2.8	6
3741	Very-few-layer graphene obtained from facile two-step shear exfoliation in aqueous solution. <i>Chemical Engineering Science</i> , 2021, 245, 116848.	1.9	10
3742	Heteroatoms-doped hierarchical porous carbons: Multifunctional materials for effective methylene blue removal and cryogenic hydrogen storage. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127554.	2.3	33
3743	Microstructure, mechanical and corrosion properties of hot-pressed graphene nanoplatelets-reinforced Mg matrix nanocomposites for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161379.	2.8	14
3744	Can reduced graphene oxide look like few-layer pristine graphene?. <i>Diamond and Related Materials</i> , 2021, 120, 108616.	1.8	6
3745	High energy Na-Ion capacitor employing graphitic carbon fibers from waste rubber with diglyme-based electrolyte. <i>Chemical Engineering Journal</i> , 2021, 426, 130892.	6.6	11
3746	Nanoporous polymer-derived activated carbon for hydrogen adsorption and electrochemical energy storage. <i>Chemical Engineering Journal</i> , 2022, 427, 131730.	6.6	38
3747	Carbon welding on graphene skeleton for phase change composites with high thermal conductivity for solar-to-heat conversion. <i>Chemical Engineering Journal</i> , 2022, 427, 131665.	6.6	46
3748	Adsorption desulfurization performance of PdO/SiO ₂ @graphene oxide hybrid aerogel: Influence of graphene oxide. <i>Journal of Hazardous Materials</i> , 2022, 421, 126680.	6.5	27

#	ARTICLE	IF	CITATIONS
3749	Metal-rich hyperaccumulator-derived biochar as an efficient persulfate activator: Role of intrinsic metals (Fe, Mn and Zn) in regulating characteristics, performance and reaction mechanisms. Journal of Hazardous Materials, 2022, 424, 127225.	6.5	22
3750	Bimetallic Ni-Zn site anchored in siliceous zeolite framework for synergistically boosting propane dehydrogenation. Fuel, 2022, 307, 121790.	3.4	37
3751	Magnetophonon resonance on the phonon frequency difference in quasi-free-standing graphene. Physical Review B, 2021, 103, .	1.1	0
3752	Observation of D band splitting in vertically aligned graphene nanowalls and their evolution with laser power during Raman spectroscopy. Journal of Nanoparticle Research, 2021, 23, 1.	0.8	5
3753	Novel Triaxial Raman Scanning Platform for Evaluating Integrity of Graphite Electrodes in Li-Ion Batteries. IEEE Access, 2021, 9, 81895-81901.	2.6	3
3754	The role of oxygen in a carbon source (castor oil versus paraffin oil) in the synthesis of carbon nano-onions. Nanotechnology, 2021, 32, 135603.	1.3	3
3755	Anti-Friction and Anti-Wear Surfactant-Assisted Nano-Carbons Stable Formulations for Easy Industrialization. Tribology Online, 2021, 16, 1-15.	0.2	3
3756	Raman Spectroscopy of Twisted Bilayer Graphene. Journal of Carbon Research, 2021, 7, 10.	1.4	9
3757	Recent advances and prospects in reduced graphene oxide-based photodetectors. Journal of Materials Chemistry C, 2021, 9, 8129-8157.	2.7	22
3758	Room temperature conductance switching in a molecular iron(ⁱⁱⁱ) spin crossover junction. Chemical Science, 2021, 12, 2381-2388.	3.7	33
3759	Adhesion Between MXenes and Other 2D Materials. ACS Applied Materials & Interfaces, 2021, 13, 4682-4691.	4.0	39
3760	The Raman band shift of suspended graphene impacted by the substrate edge and helium ion irradiation. Nano Express, 2021, 2, 010001.	1.2	5
3761	A novel electrochemical aflatoxin B1 immunosensor based on gold nanoparticle-decorated porous graphene nanoribbon and Ag nanocube-incorporated MoS ₂ nanosheets. New Journal of Chemistry, 2021, 45, 11222-11233.	1.4	106
3762	Covalent organic functionalization of graphene nanosheets and reduced graphene oxide via 1,3-dipolar cycloaddition of azomethine ylide. Nanoscale Advances, 2021, 3, 5841-5852.	2.2	11
3763	Investigation of Nitrogen-Doping Influence on the Electrocatalytic Activity of Graphene in Alkaline Oxygen Reduction Reaction. Materials Research, 2021, 24, .	0.6	4
3764	An economically sustainable bifunctional Ni@C catalyst in a solar-to-hydrogen device employing a CIGS submodule. Journal of Materials Chemistry A, 2021, 9, 23828-23840.	5.2	7
3765	Studying 2D materials with advanced Raman spectroscopy: CARS, SRS and TERS. Physical Chemistry Chemical Physics, 2021, 23, 23428-23444.	1.3	26
3766	Comparison of CVD-grown and exfoliated graphene for biosensing applications. AIP Conference Proceedings, 2021, , .	0.3	5

#	ARTICLE	IF	CITATIONS
3767	Sacrificial ZnO nanorods drive N and O dual-doped carbon towards trifunctional electrocatalysts for Zn-air batteries and self-powered water splitting devices. <i>Catalysis Science and Technology</i> , 2021, 11, 4149-4161.	2.1	7
3768	Deuterium Adsorption on Free-Standing Graphene. <i>Nanomaterials</i> , 2021, 11, 130.	1.9	14
3769	Structural Quality of Graphene Oxide Nanosheets on the Basis of Defect Ratio: A Raman Study. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 423-439.	0.3	3
3770	Hexagonal Boron Nitride-Graphene Heterostructures with Enhanced Interfacial Thermal Conductance for Thermal Management Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 1951-1958.	2.4	9
3771	Modulating thermal conductance across the metal/graphene/SiO ₂ interface with ion irradiation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22760-22767.	1.3	4
3773	Graphene/Strontium Titanate: Approaching Single Crystal-Like Charge Transport in Polycrystalline Oxide Perovskite Nanocomposites through Grain Boundary Engineering. <i>Advanced Functional Materials</i> , 2020, 30, 1910079.	7.8	37
3774	Hydrosoluble Graphene/Polyvinyl Alcohol Membranous Composites with Negative Permittivity Behavior. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900709.	1.7	59
3775	Introduction to Raman Spectroscopy of Chemically Functionalized CVD Graphene. , 2020, , 1-17.		1
3776	Insights into Vibrational and Electronic Properties of MoS ₂ Using Raman, Photoluminescence, and Transport Studies. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014, , 155-215.	0.4	9
3777	Intrinsic Doping Dependence of Raman 2D Mode in Graphene: Signatures of Electron-Electron Interaction. <i>Springer Theses</i> , 2016, , 9-18.	0.0	6
3778	Axial Deformation of Monolayer Graphene under Tension and Compression. <i>Carbon Nanostructures</i> , 2012, , 87-97.	0.1	2
3779	Ellipsometry and Correlation Measurements. , 2013, , 669-703.		1
3780	Structural Characterization. <i>SpringerBriefs in Physics</i> , 2015, , 15-29.	0.2	5
3781	Gas Sensing Using Monolayer MoS ₂ . <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2019, , 71-95.	0.5	1
3782	Graphene Oxide: Synthesis and Characterization. <i>Advanced Structured Materials</i> , 2017, , 1-28.	0.3	3
3783	Enhanced Electrocatalytic Activity and Durability of PtRu Nanoparticles Decorated on rGO Material for Ethanol Oxidation Reaction. <i>Carbon Nanostructures</i> , 2019, , 389-398.	0.1	6
3784	An accurate, high-speed, portable bifunctional electrical detector for COVID-19. <i>Science China Materials</i> , 2021, 64, 739-747.	3.5	29
3785	Janus-like asymmetrically oxidized graphene: Facile synthesis and distinct liquid crystal alignment at the oil/water interface. <i>Carbon</i> , 2020, 161, 316-322.	5.4	11

#	ARTICLE	IF	CITATIONS
3786	Restoration of the graphitic structure by defect repair during the thermal reduction of graphene oxide. <i>Carbon</i> , 2020, 166, 74-90.	5.4	99
3787	Nanoparticles incorporated graphene-based durable cotton fabrics. <i>Carbon</i> , 2020, 166, 148-163.	5.4	71
3788	Modified potentiometric titration method to distinguish and quantify oxygenated functional groups on carbon materials by pKa and chemical reactivity. <i>Carbon</i> , 2020, 166, 436-445.	5.4	23
3789	Plasma Enhanced Chemical Vapor Deposition synthesis of graphene-like structures from plasma state of CO ₂ gas. <i>Carbon</i> , 2020, 167, 132-139.	5.4	14
3790	Engineering high-defect densities across vertically-aligned graphene nanosheets to induce photocatalytic reactivity. <i>Carbon</i> , 2020, 168, 32-41.	5.4	22
3791	Effects of graphite microstructure evolution on the anisotropic thermal conductivity of expanded graphite/paraffin phase change materials and their thermal energy storage performance. <i>International Journal of Heat and Mass Transfer</i> , 2020, 155, 119853.	2.5	64
3792	N-doped bamboo-like carbon nanotubes loading Co as ideal electrode material towards superior catalysis performance. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8703-8714.	3.8	21
3793	In-situ ionothermal precipitation of well-dispersed ZnO nanoparticles onto 2-dimension neat graphene sheets with excellent photocatalytic activity. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104030.	3.3	12
3794	A brand-new bimetallic copper-lithium HEDP complex of fast ion migration as a promising anode for lithium ion batteries. <i>Journal of Molecular Structure</i> , 2020, 1214, 128223.	1.8	18
3795	Transient absorption spectroscopy as a promising optical tool for the quality evaluation of graphene layers deposited by microwave plasma. <i>Surface and Coatings Technology</i> , 2020, 395, 125887.	2.2	7
3797	Raman Spectroscopy as a Versatile Tool for Investigating Thermochemical Processing of Coal, Biomass, and Wastes: Recent Advances and Future Perspectives. <i>Energy & Fuels</i> , 2021, 35, 2870-2913.	2.5	48
3798	Using Carbon Laser Patterning to Produce Flexible, Metal-Free Humidity Sensors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 4146-4154.	2.0	9
3799	Direct Observation of Incommensurate-Commensurate Transition in Graphene-hBN Heterostructures via Optical Second Harmonic Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27758-27764.	4.0	10
3800	Bridging Covalently Functionalized Black Phosphorus on Graphene for High-Performance Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36849-36856.	4.0	129
3801	Fe ₃ O ₄ Nanoparticles as Surfactant Carriers for Enhanced Oil Recovery and Scale Prevention. <i>ACS Applied Nano Materials</i> , 2020, 3, 5762-5772.	2.4	34
3802	A Statistical Approach to Raman Analysis of Graphene-Related Materials: Implications for Quality Control. <i>ACS Applied Nano Materials</i> , 2020, 3, 11229-11239.	2.4	20
3803	Observation of Time-Reversal Invariant Helical Edge-Modes in Bilayer Graphene/WSe ₂ Heterostructure. <i>ACS Nano</i> , 2021, 15, 916-922.	7.3	13
3804	CHAPTER 14. Graphene-Based Biosensors for Food Analysis. <i>Food Chemistry, Function and Analysis</i> , 2016, , 327-353.	0.1	1

#	ARTICLE	IF	CITATIONS
3805	Smart electrochromic supercapacitors based on highly stable transparent conductive graphene/CuS network electrodes. RSC Advances, 2017, 7, 29088-29095.	1.7	35
3806	A low-cost and Li-rich organic coating on a Li ₄ Ti ₅ O ₁₂ anode material enabling Li-ion battery cycling at subzero temperatures. Materials Advances, 2020, 1, 854-872.	2.6	7
3807	Nano-gap between a gold tip and nanorod for polarization dependent surface enhanced Raman scattering. Applied Physics Letters, 2016, 109, 233103.	1.5	11
3808	Corrosion behaviour of an epoxy paint reinforced with carbon nanoparticles. Corrosion Engineering Science and Technology, 2020, 55, 603-608.	0.7	9
3809	Coupling of short DNAs with reduced graphene oxide for electronic and sensing applications. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 526-532.	1.0	3
3810	Epitaxial graphene growth on FIB patterned 3C-SiC nanostructures on Si (111): reducing milling damage. Nanotechnology, 2017, 28, 345602.	1.3	9
3811	Scalable low-temperature synthesis of two-dimensional materials beyond graphene. JPhys Materials, 2020, 4, 012001.	1.8	29
3812	Self-organized and self-assembled TiO ₂ nanosheets and nanobowls on TiO ₂ nanocavities by electrochemical anodization and their properties. Nano Express, 2020, 1, 010054.	1.2	11
3813	Quantifying the influence of graphene film nanostructure on the macroscopic electrical conductivity. Nano Express, 2020, 1, 020035.	1.2	8
3814	State of the art: synthesis and characterization of functionalized graphene nanomaterials. Nano Express, 2020, 1, 022002.	1.2	10
3816	Synthesis and characterization of graphene derived from rice husks. Malaysian Journal of Fundamental and Applied Sciences, 2019, 15, 516-521.	0.4	25
3817	Air-stable alucone thin films deposited by molecular layer deposition using a 4-mercaptophenol organic reactant. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, 022411.	0.9	9
3818	SEM and Raman studies of CNT films on porous Si. Proceedings of SPIE, 2017, , .	0.8	1
3819	Laser reduced graphene oxide-based interdigitated electrode for sensor applications. , 2019, , .		4
3820	Flexible and stretchable optoelectronic devices using graphene. , 2019, , .		1
3821	Tunable Etching of CVD Graphene for Transfer Printing of Nanoparticles Driven by Desorption of Contaminants with Low Temperature Annealing. ECS Journal of Solid State Science and Technology, 2020, 9, 093006.	0.9	2
3822	Silicon Oxide Contamination of Graphene Sheets Synthesized on Copper Substrates via Chemical Vapor Deposition. Advanced Science, Engineering and Medicine, 2014, 6, 1070-1075.	0.3	17
3823	Direct Synthesis of Graphene Dendrites on SiO ₂ /Si Substrates by Chemical Vapor Deposition. Nanoscale Research Letters, 2020, 15, 16.	3.1	7

#	ARTICLE	IF	CITATIONS
3825	Photocatalytic Degradation of Methyl Orange by H ₂ O ₂ Cooperated with Graphene Oxide Under Visible Light Irradiation. <i>DEStech Transactions on Environment Energy and Earth Science</i> , 2018, , .	0.0	2
3826	Graphene Mode-locked Cr:ZnS Laser with 44 fs Pulse Duration. , 2013, , .		2
3827	Graphene Mode-locked Cr:ZnS Chirped-pulse Oscillator. , 2013, , .		2
3828	Stimulated Brillouin scattering in dispersed graphene. <i>Optics Express</i> , 2018, 26, 34346.	1.7	7
3829	Fs-laser-written thulium waveguide lasers Q-switched by graphene and MoS ₂ . <i>Optics Express</i> , 2019, 27, 8745.	1.7	20
3830	Temperature compensated fiber optic anemometer based on graphene-coated elliptical core micro-fiber Bragg grating. <i>Optics Express</i> , 2019, 27, 34011.	1.7	19
3831	Influence of the graphene layer on the strong coupling in the hybrid Tamm-plasmon polariton mode. <i>Optics Express</i> , 2020, 28, 10308.	1.7	13
3832	Rigorous prediction of Raman intensity from multi-layer films. <i>Optics Express</i> , 2020, 28, 35272.	1.7	11
3833	Real-time fiber-optic anemometer based on a laser-heated few-layer graphene in an aligned graded-index fiber. <i>Optics Letters</i> , 2017, 42, 2703.	1.7	17
3834	Enhancement mechanism of the saturable absorption effect in reduced graphene oxide decorated with silver nanoparticles. <i>Optical Materials Express</i> , 2020, 10, 884.	1.6	8
3835	Micro-structuring, ablation, and defect generation in graphene with femtosecond pulses. <i>OSA Continuum</i> , 2019, 2, 2925.	1.8	10
3836	Comparative Studies on Three Kinds of Reductants Applicable for the Reduction of Graphene Oxide. <i>Applied Chemistry for Engineering</i> , 2015, 26, 99-103.	0.2	4
3837	Graphene films synthesized by chemical vapor deposition with ethanol. <i>Transactions of the Materials Research Society of Japan</i> , 2011, 36, 359-362.	0.2	4
3838	Graphene layers fabricated from the Ni/a-SiC bilayer precursor. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2013, 16, 322-330.	0.3	2
3839	The growth of weakly coupled graphene sheets from silicon carbide powder. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2014, 17, 301-307.	0.3	2
3840	Properties of Graphene Flakes Obtained by Treating Graphite with Ultrasound. <i>Ukrainian Journal of Physics</i> , 2017, 62, 432-440.	0.1	4
3841	Growth Conditions of Graphene Grown in Chemical Vapour Deposition (CVD). <i>Sains Malaysiana</i> , 2017, 46, 1033-1038.	0.3	9
3842	SYNTHESIS OF GRAPHENE VIA CHEMICAL VAPOUR DEPOSITION ON COPPER SUBSTRATES WITH DIFFERENT THICKNESSES. <i>Anadolu University Journal of Sciences & Technology</i> , 0, , 1-1.	0.2	2

#	ARTICLE	IF	CITATIONS
3843	Improving Power Conversion Efficiency of P3HT/PCBM based Organic Solar Cells by Optimizing Graphene Doping Concentration and Annealing Temperature. International Journal of Electrochemical Science, 0, , 5819-5828.	0.5	8
3844	Graphene and Graphene Oxide Applications for SERS Sensing and Imaging. Current Medicinal Chemistry, 2019, 26, 6878-6895.	1.2	35
3845	Electrical, Electronic and Optical Characterization of Multilayer Graphene Films for Transparent Electrodes. Current Nanoscience, 2013, 9, 521-524.	0.7	6
3846	Polyaniline In Situ Grafted to Graphene Sheets. Kimika, 2014, 25, 23-35.	0.4	2
3847	Processing and characterization of graphene nano-platelet (GNP) reinforced aluminum matrix composites. Materialpruefung/Materials Testing, 2016, 58, 946-952.	0.8	17
3848	Crack path and fracture surface modifications in cement composites. Frattura Ed Integrita Strutturale, 2016, , .	0.5	8
3849	Î ² -Cyclodextrin-Immobilized Ni/Graphene Electrode for Electrochemical Enantio-recognition of Phenylalanine. Materials, 2020, 13, 777.	1.3	10
3850	Improving the Performance of Zn-Air Batteries with N-Doped Electroexfoliated Graphene. Materials, 2020, 13, 2115.	1.3	13
3851	Highly Aligned Polymeric Nanowire Etch-Mask Lithography Enabling the Integration of Graphene Nanoribbon Transistors. Nanomaterials, 2021, 11, 33.	1.9	5
3852	Water Dispersible Few-Layer Graphene Stabilized by a Novel Pyrene Derivative at Micromolar Concentration. Nanomaterials, 2018, 8, 675.	1.9	9
3853	Plasma-Based Graphene Functionalization in Glow Discharge. Graphene, 2015, 04, 1-6.	0.3	12
3854	Heteroatom Doped Multi-Layered Graphene Material for Hydrogen Storage Application. Graphene, 2016, 05, 39-50.	0.3	30
3855	Raman Spectra in Irradiated Graphene: Line Broadening, Effects of Aging and Annealing. Graphene, 2020, 09, 13-28.	0.3	4
3856	Electron Emission of Graphene-Diamond Hybrid Films Using Paraffin Wax as Diamond Seeding Source. World Journal of Nano Science and Engineering, 2012, 02, 126-133.	0.3	3
3857	Size and Density of Graphene Domains Grown with Different Annealing Times. Bulletin of the Korean Chemical Society, 2013, 34, 3312-3316.	1.0	7
3858	Graphene Doping by Ammonia Plasma Surface Treatment. Journal of the Korean Institute of Surface Engineering, 2015, 48, 163-168.	0.1	3
3859	Improving dispersion of multi-walled carbon nanotubes and graphene using a common non-covalent modifier. Carbon Letters, 2016, 20, 53-61.	3.3	8
3860	Toward Charge Neutralization of CVD Graphene. Applied Science and Convergence Technology, 2015, 24, 268-272.	0.3	2

#	ARTICLE	IF	CITATIONS
3861	Controlled Deposition of Iridium Oxide Nanoparticles on Graphene. <i>Electrochemistry</i> , 2020, 88, 392-396.	0.6	2
3862	The second-order combination Raman modes of bilayer graphene in the range of 1800-2150 cm ⁻¹ . <i>Wuli Xuebao/Acta Physica Sinica</i> , 2014, 63, 147802.	0.2	4
3863	Phonon angular momentum and chiral phonons. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 076302.	0.2	3
3864	Chemical Vapor Deposition of Nanocarbon on Electroless NiB Catalyst Using Ethanol Precursor. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 05EF02.	0.8	1
3865	Synthesis of Nitrogen-Doped Graphene by Plasma-Enhanced Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 055101.	0.8	17
3866	Epitaxy of Graphene on 3C-SiC(111) Thin Films on Microfabricated Si(111) Substrates. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FD02.	0.8	6
3867	Improvement in Film Quality of Epitaxial Graphene on SiC(111)/Si(111) by SiH ₄ Pretreatment. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FD10.	0.8	4
3868	Effects of Purity on the Mechanical Properties of Single-Walled Carbon Nanotubes-Polymer Nanocomposites. <i>British Journal of Applied Science & Technology</i> , 2013, 3, 884-897.	0.2	4
3869	A Study of the Correlation between the Oxidation Degree and Thickness of Graphene Oxides. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3870	Polarized Raman spectroscopy in low-symmetry 2D materials: angle-resolved experiments and complex number tensor elements. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 27103-27123.	1.3	14
3871	Fabry-perot cavity array based on-chip waveguide spectrometer. , 2021, , .		0
3872	Effect of Nitrogen Doping on the Optical Bandgap and Electrical Conductivity of Nitrogen-Doped Reduced Graphene Oxide. <i>Molecules</i> , 2021, 26, 6424.	1.7	21
3873	Large-scale Syntheses of 2D Materials: Flash Joule Heating and Other Methods. <i>Advanced Materials</i> , 2022, 34, e2106970.	11.1	66
3874	Graphene mitigated fracture and interfacial delamination of silicon film anodes through modulating the stress generation and development. <i>Nanotechnology</i> , 2022, 33, 025402.	1.3	2
3875	Synthesis of SBA 15 graphene oxide composite membrane using phenol-formaldehyde resin pore modifier for CO ₂ separation. <i>Journal of the American Ceramic Society</i> , 2022, 105, 913-928.	1.9	4
3876	An Axially Continuous Graphene-Copper Wire for High-Power Transmission: Thermoelectrical Characterization and Mechanisms. <i>Advanced Materials</i> , 2021, 33, e2104208.	11.1	11
3877	Forbidden and Second-Order Phonons in Raman Spectra of Single and Few-Layer MoS ₂ Close to C Exciton Resonance. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23904-23910.	1.5	13
3878	Graphene@Metal Sulfide/Oxide Nanocomposites as Novel Fenton-Like Catalysts for 4-Nitrophenol Degradation. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 4915-4928.	1.0	6

#	ARTICLE	IF	CITATIONS
3879	One-pot modified "grafting-welding" preparation of graphene/ polyimide carbon films for superior thermal management. <i>New Carbon Materials</i> , 2021, 36, 949-957.	2.9	3
3880	Understanding the Impact of Sulfur Poisoning on the Methane-Reforming Activity of a Solid Oxide Fuel Cell Anode. <i>ACS Catalysis</i> , 2021, 11, 13556-13566.	5.5	15
3881	Effect of Oxygen Functional Groups in Reduced Graphene Oxide-Coated Silk Electronic Textiles for Enhancement of NO ₂ Gas-Sensing Performance. <i>ACS Omega</i> , 2021, 6, 27080-27088.	1.6	13
3882	Substrate Dependent Charge Transfer Kinetics at the Solid/Liquid Interface of Carbon-Based Electrodes with Potential Application for Organic Na-Ion Batteries. <i>Israel Journal of Chemistry</i> , 2022, 62, .	1.0	4
3883	Laser direct write of heteroatom-doped graphene on molecularly controlled polyimides for electrochemical biosensors with nanomolar sensitivity. <i>Carbon</i> , 2022, 188, 209-219.	5.4	20
3884	Nano-Physical Characterization of Chemical Vapor Deposition-Grown Monolayer Graphene for High Performance Electrode: Raman, Surface-Enhanced Raman Spectroscopy, and Electrostatic Force Microscopy Studies. <i>Nanomaterials</i> , 2021, 11, 2839.	1.9	6
3885	The evolution of properties with deposition time of vertical graphene nanosheets produced by microwave plasma-enhanced chemical vapor deposition. <i>Surfaces and Interfaces</i> , 2021, 27, 101529.	1.5	2
3886	Toward clean and crackless polymer-assisted transfer of CVD-grown graphene and its recent advances in GFET-based biosensors. <i>Materials Today Chemistry</i> , 2021, 22, 100578.	1.7	9
3887	High-value products from ex-situ catalytic pyrolysis of polypropylene waste using iron-based catalysts: the influence of support materials. <i>Waste Management</i> , 2021, 136, 47-56.	3.7	33
3888	Growth and characterization of graphene on SiO ₂ /Si substrate. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2012, 61, 037302.	0.2	7
3889	Synthesis of Graphene Using Thermal Chemical Vapor Deposition and Application as a Grid Membrane for Transmission Electron Microscope Observation. <i>Korean Journal of Materials Research</i> , 2012, 22, 130-135.	0.1	0
3890	Graphene Growth from Spin-Coated Polymers without a Gas. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FD01.	0.8	1
3891	HOMOGENEOUS COATING OF HYDROXYAPATITE ON MULTI-WALL CARBON NANOTUBE IMMERSSED IN CALCIUM PHOSPHATE SOLUTION BY MICROWAVE HEATING. <i>Phosphorus Research Bulletin</i> , 2013, 28, 51-57.	0.1	0
3892	Morphology and Friction Characterization of CVD Grown Graphene on Polycrystalline Nickel. <i>Lecture Notes in Mechanical Engineering</i> , 2014, , 195-204.	0.3	0
3893	Heterographenes. , 2014, , 1-15.		0
3894	A Study of the Graphene Formation on Silicon Carbide-on-Insulator Substrates. <i>Journal of the Vacuum Society of Japan</i> , 2014, 57, 144-146.	0.3	0
3896	Introduction to Carbon Materials. , 2015, , 3-14.		2
3897	Device Architecture and Biosensing Applications for Attractive One- and Two-Dimensional Nanostructures. , 2015, , 41-70.		1

#	ARTICLE	IF	CITATIONS
3898	Projection of Sciences Onto Textile and Fashion: Nano-Technology and Chargeable Fabric Example. Tekstil Ve Muhendis, 2015, 22, 21-30.	0.3	0
3900	Observaci3n de capas de grafeno mediante contraste 3ptico y dispersi3n Raman. Mundo Nano Revista Interdisciplinaria En Nanociencia Y NanotecnologAa, 2015, 6, .	0.1	0
3902	Direct Growth of Graphene on Insulating Substrate by Laminated (Au/Ni) Catalyst Layer. Applied Science and Convergence Technology, 2015, 24, 117-124.	0.3	1
3905	Phonon Energy Spectra and Stationary Elastic Waves in Single-Walled Carbon Nanotubes and Graphite Bulk Crystals. Ukrainian Journal of Physics, 2015, 60, 925-931.	0.1	1
3907	Improving the properties of a graphene resonator. Tanso, 2016, 2016, 191-198.	0.1	0
3909	Graphene and Carbon Dots in Mesoporous Materials. , 2016, , 1-30.		0
3910	KONFERENCIJA ZA NOVINARE KAO SPECIJALNI DOGAÄAJ. Primus, 2016, 1, .	0.0	0
3912	Photocatalytic Dye Decomposition Effect of Binary Copper (I) Selenide-graphene Nanocomposites Synthesized with Facile Microwave-assisted Technique. Applied Chemistry for Engineering, 2016, 27, 483-489.	0.2	0
3913	Tunable Order Parameters in Nickelate Heterostructures. Springer Theses, 2017, , 69-107.	0.0	0
3914	Effect of Raman Scattering Based on the Number of Graphene Layers. , 2018, , .		0
3915	Graphene and Carbon Dots in Mesoporous Materials. , 2018, , 2339-2368.		0
3916	Investigation of the Mechanical and Thermal Properties of LFR PA66 with Graphene Coating on Fibre Surface. International Polymer Processing, 2018, 33, 286-291.	0.3	0
3917	Energy band and Hall resistivity, longitudinal resistivity and Shubnikov-de Haas oscillation in graphenes (II). Tanso, 2018, 2018, 60-79.	0.1	1
3918	Ultrafast carrier dynamics in atomically thin two-dimensional crystals. , 2018, , .		1
3919	Facile Synthesis and Characterization of Multi-Layer Graphene Growth on Co-Ni Oxide/Al2O3 Substrate Using Chemical Vapour Deposition. Bulletin of Chemical Reaction Engineering and Catalysis, 2018, 13, 341-354.	0.5	1
3920	Nanostructure analysis in PAN-based carbon fibers focused on amorphous carbon. Tanso, 2018, 2018, 185-196.	0.1	1
3921	Laser direct writing using nanomaterials and device applications towards IoT technology. , 2018, , .		1
3922	Graphene infrared electromagnetic interference shielding filter on ZnS and As40Se60 substrates. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
3923	Spectroscopic investigation of CVD graphene. , 2018, , .		1
3924	Graphene and Graphene Oxide as Nanofiller for Polymer Blends. Carbon Nanostructures, 2019, , 231-257.	0.1	1
3925	Carbon Graphite Obtained of Zinc-Carbon Exhausted Batteries Applied as Electrode in Electrochemical Sensors. Revista Virtual De Quimica, 2019, 11, 275-296.	0.1	0
3926	A Study on Residual Powder Removing Technique of Multi-Layered Graphene Based on Graphene One-Step Transfer Process. Journal of Korean Powder Metallurgy Institute, 2019, 26, 11-15.	0.2	1
3927	Electrically tunable, sustainable, and erasable broadband light absorption in graphene sandwiched in Al ₂ O ₃ oxides. Optical Materials Express, 2019, 9, 1095.	1.6	1
3928	Explanations of the possibility of optical monitoring of CrO ₂ anion adsorption on carbon nanostructures by theoretical calculations of variable spectra. Energy and Automation, 2019, , 82-95.	0.2	0
3930	A NEW APPROACH TO THE USE OF TIN OXIDE FILMS FOR RENEWABLE ENERGY SOURCES. Bulletin of Kyiv Polytechnic Institute Series Instrument Making, 2019, .	0.0	0
3931	Material and Heterostructure Interface Characterization. Springer Theses, 2020, , 123-139.	0.0	0
3932	Reduction of graphene oxide by nanofocused ultrafast surface plasmon pulses. OSA Continuum, 2020, 3, 2441.	1.8	0
3933	Specifics of Thermal Transport in Graphene Composites: Effect of Lateral Dimensions of Graphene Fillers. ACS Applied Materials & Interfaces, 2021, 13, 53073-53082.	4.0	26
3934	The Dual Functions of Defect-Rich Carbon Nanotubes as Both Conductive Matrix and Efficient Mediator for Li ₂ S Batteries. Small, 2021, 17, e2103535.	5.2	23
3935	Voltammetric Determination of Tramadol Using a Hierarchical Graphene Oxide Nanoplatelets Modified Electrode. Journal of the Electrochemical Society, 2021, 168, 117512.	1.3	10
3936	Photo-induced synthesis of ternary Pt/rGO/COF photocatalyst with Pt nanoparticles precisely anchored on rGO for efficient visible-light-driven H ₂ evolution. Journal of Colloid and Interface Science, 2022, 608, 2613-2622.	5.0	16
3937	Solid State Chemistry: Computational Chemical Analysis for Materials Science. RSC Theoretical and Computational Chemistry Series, 2020, , 287-334.	0.7	0
3938	Real-space Raman spectroscopy of graphene isotope superlattices. Physical Review B, 2020, 102, .	1.1	3
3939	Synergic Effects of the Nanopore Size and Surface Charge on the Ion Selectivity of Graphene Membranes. Journal of Physical Chemistry C, 2021, 125, 507-514.	1.5	11
3940	Mapping graphene layer number at few-micron-scale spatial resolution over large areas using laser scanning. 2D Materials, 2021, 8, 025001.	2.0	3
3941	Fabrication of carbon nanowalls by radio frequency magnetron sputtering of graphite target in argon plasma. Journal of Physics: Conference Series, 2020, 1697, 012108.	0.3	0

#	ARTICLE	IF	CITATIONS
3942	Natural Rubber/Graphene Nanocomposites and Their Applications. <i>Composites Science and Technology</i> , 2021, , 203-220.	0.4	0
3944	Extremely high surface area of activated carbon originated from sugarcane bagasse. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 909, 012018.	0.3	15
3946	Developing the processing stages of carbon fiber composite paper as efficient materials for energy conversion, storage, and conservation. , 2022, , 399-440.		1
3947	Strain control in graphene on GaN nanowires: Towards pseudomagnetic field engineering. <i>Carbon</i> , 2022, 186, 128-140.	5.4	1
3948	Switching Operation with Graphene-on-MoS ₂ Heterostructures. <i>Springer Theses</i> , 2020, , 157-170.	0.0	1
3949	Resonant Multi-phonon Raman scattering of black phosphorus. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 167803.	0.2	2
3950	Improvement Properties of Polypropylene by Graphene Oxide Incorporation. <i>Minerals, Metals and Materials Series</i> , 2020, , 581-589.	0.3	2
3952	Production of Reduced Graphene Oxide (rGO) from Battery Waste: Green and Sustainable Synthesis and Reduction. <i>Nanotechnology in the Life Sciences</i> , 2020, , 329-358.	0.4	0
3953	Preparation of three-dimensional graphene foam with controllable defects by closed-environment chemical vapor deposition method and composite electrode electrochemical performance. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 148101.	0.2	0
3954	Carbon material Raman spectroscopy metamorphic thermometer and its application in reconstruction and evolution of orogenic belt thermal structure. <i>Acta Petrologica Sinica</i> , 2020, 36, 526-540.	0.3	2
3955	Experimental Techniques, Instruments, and Cryostat. <i>Springer Theses</i> , 2020, , 79-121.	0.0	0
3956	Synthesis of photonic crystal fiber based on graphene directly grown on air-hole by chemical vapor deposition. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 194202.	0.2	2
3957	Effects of carbon doping on structure and magnetocaloric properties of Mn _{1.25} Fe _{0.7} P _{0.5} Si _{0.5} alloys. <i>International Journal of Materials Research</i> , 2021, 112, 872-879.	0.1	0
3958	Ion-Selective Membrane-Coated Grapheneâ€“Hexagonal Boron Nitride Heterostructures for Field-Effect Ion Sensing. <i>ACS Omega</i> , 2021, 6, 30281-30291.	1.6	5
3959	Graphene Flake Self-Assembly Enhancement via Stretchable Platforms and External Mechanical Stimuli. <i>ACS Omega</i> , 2021, 6, 30607-30617.	1.6	2
3960	Synthesis of Graphene and fabrication of Aluminium-Grp nanocomposites: A review. <i>Materials Today: Proceedings</i> , 2022, 50, 2436-2442.	0.9	2
3961	In-situ growth of CNTs in silica powder by polymer pyrolysis chemical vapor deposition and their separation resistances. <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 1516-1523.	1.0	1
3962	Ultrafast Nonvolatile Ionic Liquids-Based Supercapacitors with Al Foam-Enhanced Carbon Electrode. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53904-53914.	4.0	4

#	ARTICLE	IF	CITATIONS
3963	Electrochemical synthesis and property characterisation of graphene oxide using water as electrolyte. <i>Chemical Physics Letters</i> , 2022, 786, 139206.	1.2	6
3964	Synthesis of graphene oxide reinforced ZK60 magnesium matrix composite with high ductility via powder thixoforming. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 830, 142307.	2.6	16
3965	Flexible and self-standing polyimide/lignin-derived carbon nanofibers for high-performance supercapacitor electrode material applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 275, 115530.	1.7	10
3966	Fabrication of amorphous molybdenum sulfide/nitrogen-doped reduced graphene oxide nanocomposites with a tailored composition and hydrogen evolution activity via plasma treatment. <i>Carbon</i> , 2022, 187, 386-395.	5.4	13
3967	One pot synthesis of Fe_2O_3 /turbostratic carbon composites and their photocatalytic activity under sunlight. <i>Carbon Trends</i> , 2021, 5, 100130.	1.4	3
3968	Preparation and tribological behaviors of plasma sprayed NiAl-Cu/graphite nanosheets composite coating. <i>Tribology International</i> , 2022, 167, 107360.	3.0	7
3969	Chemical vapor deposition synthesis of high-quality Ni ₃ C/GNPs composite material: Effect of growth time on the yield, morphology and adsorption behavior of metal ions. <i>Chemical Papers</i> , 2022, 76, 1579-1592.	1.0	0
3970	Ultralight, Ultraflexible, Anisotropic, Highly Thermally Conductive Graphene Aerogel Films. <i>Molecules</i> , 2021, 26, 6867.	1.7	7
3971	Multilayer Conductive Hybrid Nanosheets as Versatile Hybridization Matrices for Optimizing the Defect Structure, Structural Ordering, and Energy Functionality of Nanostructured Materials. <i>Advanced Science</i> , 2022, 9, e2103042.	5.6	19
3972	Graphene-Lined Porous Gelatin Glycidyl Methacrylate Hydrogels: Implications for Tissue Engineering. <i>ACS Applied Nano Materials</i> , 2021, 4, 12650-12662.	2.4	5
3973	Portable Flow Injection Amperometric Sensor Consisting of Pd Nanochains, Graphene Nanoflakes, and WS ₂ Nanosheets for Formaldehyde Detection. <i>ACS Applied Nano Materials</i> , 2021, 4, 12429-12441.	2.4	13
3974	Graphene/Naphthalene Sulfonate Composite Films with High Electrical and Thermal Conductivities for Energy Storage and Thermal Management in Nanoscale Electronic Devices. <i>ACS Applied Nano Materials</i> , 0, , .	2.4	5
3975	Small Reduced Graphene Oxides for Highly Efficient Oxygen Reduction Catalysts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12300.	1.8	6
3976	Sb ₂ S ₃ -based conversion-alloying dual mechanism anode for potassium-ion batteries. <i>IScience</i> , 2021, 24, 103494.	1.9	20
3977	Microstructural Analysis of Novel Pre-ceramic Paper-Derived SiCf/SiC Composites. <i>Materials</i> , 2021, 14, 6737.	1.3	3
3978	Graphene-Based Biosensors with High Sensitivity for Detection of Ovarian Cancer Cells. <i>Molecules</i> , 2021, 26, 7265.	1.7	4
3979	Hybrid Metal-Dielectric-Metal Sandwiches for SERS Applications. <i>Nanomaterials</i> , 2021, 11, 3205.	1.9	8
3980	Laser-Induced Graphene Heater Pad for De-Icing. <i>Nanomaterials</i> , 2021, 11, 3093.	1.9	10

#	ARTICLE	IF	CITATIONS
3981	Microscopical Quantification of Ion-Induced Nanodefects in Monolayer MoS ₂ Based on Differential Reflectance. <i>Advanced Materials Interfaces</i> , 2022, 9, 2101612.	1.9	2
3982	Preparation and Evaluation of the Polyethylene Film Deposited With a Multilayer Graphene Membrane for Tensile Properties. <i>Applied Composite Materials</i> , 0, , 1.	1.3	0
3983	Ageing-resistant zirconia/graphene-based nanostructures composites for use as biomaterials. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1784-1795.	2.8	9
3984	Reliability of spin-to-charge conversion measurements in graphene-based lateral spin valves. <i>2D Materials</i> , 2022, 9, 015024.	2.0	12
3985	The helicity of Raman scattered light: principles and applications in two-dimensional materials. <i>Science China Chemistry</i> , 2022, 65, 269-283.	4.2	12
3986	Three-dimensional porous reduced graphene oxide decorated with carbon quantum dots and platinum nanoparticles for highly selective determination of azo dye compound tartrazine. <i>Food and Chemical Toxicology</i> , 2021, 158, 112698.	1.8	110
3987	Photo-induced Janus effect of graphene oxide films. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100259.	1.3	0
3988	Highly sensitive label-free detection of analytes at different scales using uniform graphene-nanopyramids hybrid SERS system. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131205.	4.0	10
3989	Extra-Low Dosage Graphene Oxide Cementitious Nanocomposites: A Nano- to Macroscale Approach. <i>Nanomaterials</i> , 2021, 11, 3278.	1.9	10
3990	Zinc-Based Metal-Organic Frameworks for High-Performance Supercapacitor Electrodes: Mechanism Underlying Pore Generation. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	7
3991	Role of the Optical-Acoustic Phonon Interaction in the Ultrafast Cooling Process of CVD Graphene. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27283-27289.	1.5	5
3992	Chromium catalysts supported on carbon nanotubes and graphene nanoflakes for CO ₂ -assisted oxidative dehydrogenation of propane. <i>Applied Surface Science</i> , 2022, 578, 152099.	3.1	12
3993	Effects of thermal treatments on the hydrophobicity and anticorrosion properties of as-grown graphene coatings. <i>RSC Advances</i> , 2021, 11, 36354-36359.	1.7	5
3994	Silanization of nanographene platelets improves interaction with the dentin bonding resin matrix and enhances interfacial bond integrity to dentin. <i>Biomaterials Science</i> , 2021, 9, 8335-8346.	2.6	1
3995	A Green and Efficient Method for Preparing Graphene Using CO ₂ @Mg In-Situ Reaction and its Application in High-Performance Lithium-Ion Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3997	A study on interfacial behaviors of epoxy/graphene oxide derived from pitch-based graphite fibers. <i>Nanotechnology Reviews</i> , 2021, 10, 1827-1837.	2.6	13
3998	Hybrid Graphene-Perovskite Quantum Dot Photodetectors With Solar-Blind UV and Visible Light Response. <i>IEEE Photonics Technology Letters</i> , 2022, 34, 101-104.	1.3	4
3999	Identification of Ammonia and Phosphine Gas Using Graphene Nanosensor with Machine Learning Techniques. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
4000	Computational investigations of Dienes defect- and vacancy-induced changes in the electronic and vibrational properties of carbon fiber structural units. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 27385-27396.	1.3	3
4001	High-Resolution R2R-Compatible Printing of Carbon Nanotube Conductive Patterns Enabled by Cellulose Nanocrystals. <i>ACS Applied Nano Materials</i> , 2022, 5, 1574-1587.	2.4	4
4002	Thermoacoustics and Temperature Distribution on the Surface of a Polymer-Graphene Composite. <i>International Journal of Thermophysics</i> , 2022, 43, 1.	1.0	1
4003	Macro-micro-nano multistage toughening in nano-laminated graphene ceramic composites. <i>Materials Today Physics</i> , 2022, 22, 100595.	2.9	9
4004	Dual-wavelength mode-locked fiber laser based on graphene materials. <i>European Physical Journal: Special Topics</i> , 2022, 231, 643-649.	1.2	7
4005	Bidirectional Modulation of Neuronal Cells Electrical and Mechanical Properties Through Pristine and Functionalized Graphene Substrates. <i>Frontiers in Neuroscience</i> , 2021, 15, 811348.	1.4	3
4006	Role of low-dimensional carbon nanostructures in hybrid material as anticorrosive coating. <i>Progress in Organic Coatings</i> , 2022, 163, 106682.	1.9	0
4007	Structural damage in graphene oxide coatings onto Nb substrates upon laser irradiation. <i>Surface and Coatings Technology</i> , 2022, 431, 128013.	2.2	3
4008	Comparative investigation of the properties of graphene nanoplatelet reinforced titanium diboride and niobium diboride ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022, 103, 105761.	1.7	1
4009	Graphene-based hybrid electrical-electrochemical point-of-care device for serologic COVID-19 diagnosis. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113866.	5.3	18
4010	The performance and durability of high-temperature proton exchange membrane fuel cells enhanced by single-layer graphene. <i>Nano Energy</i> , 2022, 93, 106829.	8.2	25
4011	In-situ food spoilage monitoring using a wireless chemical receptor-conjugated graphene electronic nose. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113908.	5.3	27
4012	Few layered graphene wrapped Sn4P3 with high initial coulombic efficiency and cyclic stability for reversible Li+ storage. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163198.	2.8	4
4013	3D arrangement of epitaxial graphene conformally grown on porousified crystalline SiC. <i>Carbon</i> , 2022, 189, 210-218.	5.4	3
4014	A study of the correlation between the oxidation degree and thickness of graphene oxides. <i>Carbon</i> , 2022, 189, 579-585.	5.4	26
4015	Photocatalytic Degradation of Congo Red Dye via Multi-Walled Carbon Nanotubes Modified CuO and ZnO Nanoparticles under Visible Light Irradiation. <i>Egyptian Journal of Chemistry</i> , 2020, .	0.1	0
4017	Silicon-Graphene Heterojunction Waveguide Photodetector with a 3dB-bandwidth of >14 GHz. , 2021, , .		1
4018	High Throughput Investigation of an Emergent and Naturally Abundant 2D Material: Clinocllore. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1

#	ARTICLE	IF	CITATIONS
4019	The effect of liquid crystalline graphene oxide compared with non-liquid crystalline graphene oxide on the rheological properties of polyacrylonitrile solution. High Temperature Materials and Processes, 2021, 40, 428-438.	0.6	1
4020	Development of Graphene-Doped TiO ₂ -Nanotube Array-Based MIM-Structured Sensors and Its Application for Methanol Sensing at Room Temperature. , 2021, 5, .		0
4021	Preparation of Liposomal Raloxifene-Graphene Nanosheet and Evaluation of Its <i>In Vitro</i> Anticancer Effects. Dose-Response, 2022, 20, 155932582110639.	0.7	1
4022	Characterization of nanomaterial used in nanobioremediation. , 2022, , 57-83.		12
4023	Electrospun PEO/rGO Scaffolds: The Influence of the Concentration of rGO on Overall Properties and Cytotoxicity. International Journal of Molecular Sciences, 2022, 23, 988.	1.8	9
4024	Functionalization and exfoliation of graphite with low temperature pulse plasma in distilled water. Physical Chemistry Chemical Physics, 2022, , .	1.3	3
4025	Controllable direct growth and patterning of graphene based transparent and conductive films on insulating substrates via Cu nanoparticles assisted-catalysis method. Diamond and Related Materials, 2022, 123, 108868.	1.8	2
4026	Simultaneous microwave-assisted reduction and B/N co-doping of graphene oxide for selective recognition of VOCs. Journal of Materials Chemistry C, 2022, 10, 3307-3317.	2.7	5
4027	Localized Spectroelectrochemical Identification of Basal Plane and Defect-Related Charge-Transfer Processes in Graphene. Journal of Physical Chemistry Letters, 2022, 13, 642-648.	2.1	8
4028	Machine Learning Guided Synthesis of Flash Graphene. Advanced Materials, 2022, 34, e2106506.	11.1	39
4029	Highly Thermal Conductive Graphite Films Derived from the Graphitization of Chemically Imidized Polyimide Films. Nanomaterials, 2022, 12, 367.	1.9	3
4030	Cashew Apple Extract: A Novel, Potential Green Reducing Agent for the Synthesis of Reduced Graphene Oxide. Journal of Nano Research, 0, 71, 57-70.	0.8	4
4031	Introducing Grapheneâ€“Indium Oxide Electrochemical Sensor for Detecting Ethanol in Aqueous Samples with CCD-RSM Optimization. Chemosensors, 2022, 10, 42.	1.8	11
4032	Stretching Graphene to 3.3% Strain Using Formvar-Reinforced Flexible Substrate. Experimental Mechanics, 2022, 62, 761-767.	1.1	9
4033	Intrinsic-trap-regulating growth of clean graphene on high-entropy alloy substrate. Nano Research, 2022, 15, 4717-4723.	5.8	3
4034	Vertical graphene on flexible substrate, overcoming limits of crack-based resistive strain sensors. Npj Flexible Electronics, 2022, 6, .	5.1	22
4035	Preparation and mechanism of Cu/GO/Cu laminated composite foils with improved thermal conductivity and mechanical property by architectural design. Journal of Alloys and Compounds, 2022, 904, 164085.	2.8	7
4036	Raman spectra of twisted bilayer graphene close to the magic angle. 2D Materials, 2022, 9, 025007.	2.0	12

#	ARTICLE	IF	CITATIONS
4037	From single-layer graphene to HOPG: Universal functionalization strategy with perfluoropolyether for the graphene family materials. <i>Diamond and Related Materials</i> , 2022, 122, 108810.	1.8	0
4038	Ferromagnetic properties of iron-porphyrin-like structurally deformed graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 139, 115165.	1.3	1
4039	Enhanced thermoelectric performance of PbSe-graphene nanocomposite manufactured with acoustic cavitation induced defects. <i>Nano Energy</i> , 2022, 94, 106943.	8.2	11
4040	0.4 millimeters vertically aligned carbon nanotubes from a cold wall CVD system at low pressure – Temperature analysis. <i>Carbon Trends</i> , 2022, 7, 100155.	1.4	2
4041	Porous reduced graphene oxide/NiCo ₂ S ₄ composite for supercapacitor and hydrogen evolution reaction. <i>Materials Letters</i> , 2022, 313, 131765.	1.3	9
4042	Phonon anharmonicities in 7-armchair graphene nanoribbons. <i>Carbon</i> , 2022, 190, 312-318.	5.4	11
4043	In situ laser synthesis of Pt nanoparticles embedded in graphene films for wearable strain sensors with ultra-high sensitivity and stability. <i>Carbon</i> , 2022, 190, 245-254.	5.4	43
4044	Fabrication of multilayer Graphene-coated Copper nanoparticles for application as a thermal interface material. <i>Applied Surface Science</i> , 2022, 583, 152488.	3.1	7
4045	A green and efficient method for preparing graphene using CO ₂ @Mg in-situ reaction and its application in high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 902, 163700.	2.8	10
4046	Ultrathin, transparent, flexible, and dual-side white light-responsive two-dimensional molybdenum disulfide quantum disk light-emitting diodes. <i>Materials Today Nano</i> , 2022, 18, 100173.	2.3	6
4047	Oxygen-mediated selection of Cu crystallographic orientation for growth of single-crystalline graphene. <i>Applied Surface Science</i> , 2022, 584, 152585.	3.1	1
4048	ZnO Nanosheets-Decorated ERGO Layers: An Efficient Electrochemical Sensor for Non-Enzymatic Uric Acid Detection. <i>IEEE Sensors Journal</i> , 2022, 22, 5555-5561.	2.4	20
4049	Effect of Chemical Treatment and Thermal Annealing in N ₂ Atmosphere on Copper Foil Surface for Graphene Growth by Direct-Liquid-Injection Chemical Vapor Deposition Process. <i>Journal of Physics: Conference Series</i> , 2022, 2175, 012001.	0.3	0
4050	Photochemical Synthesis and Spectroscopy of Covalent PAH Dimers. <i>Journal of Physical Chemistry A</i> , 2022, , .	1.1	1
4051	Self-assembly of polyoxometalate clusters into two-dimensional clusterphene structures featuring hexagonal pores. <i>Nature Chemistry</i> , 2022, 14, 433-440.	6.6	72
4052	Regulation of Neural Differentiation of ADMSCs using Graphene-Mediated Wireless-Localized Electrical Signals Driven by Electromagnetic Induction. <i>Advanced Science</i> , 2022, 9, e2104424.	5.6	19
4053	Biomass derived P-doped activated carbon as nanostructured mesoporous adsorbent for chromium(VI) pollutants with pronounced functional efficiency and recyclability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 641, 128553.	2.3	16
4054	Laser-induced graphene coated hollow-core fiber for humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131530.	4.0	7

#	ARTICLE	IF	CITATIONS
4055	Modelling and Characterisation of Residual Stress of SiC-Ti ₃ C ₂ T _x MXene Composites Sintered via Spark Plasma Sintering Method. <i>Materials</i> , 2022, 15, 1175.	1.3	1
4056	Cheap, Large-Scale, and High-Performance Graphite-Based Flexible Thermoelectric Materials and Devices with Supernormal Industry Feasibility. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8066-8075.	4.0	16
4057	Efficient removal of lead ions from aqueous solution by graphene oxide modified polyethersulfone adsorptive mixed matrix membrane. <i>Environmental Research</i> , 2022, 210, 112924.	3.7	15
4058	Microstructure Evolution of Graphene and the Corresponding Effect on the Mechanical/Electrical Properties of Graphene/Cu Composite during Rolling Treatment. <i>Materials</i> , 2022, 15, 1218.	1.3	3
4059	Comparative Evaluation of Graphene Nanostructures in GERS Platforms for Pesticide Detection. <i>ACS Omega</i> , 2022, 7, 5670-5678.	1.6	2
4060	Single-Layer-Graphene-Coated and Gold-Film-Based Surface Plasmon Resonance Prism Coupler Sensor for Immunoglobulin G Detection. <i>Sensors</i> , 2022, 22, 1362.	2.1	14
4061	High-performance supercapacitor electrode based on a layer-by-layer assembled maghemite/magnetite/reduced graphene oxide nanocomposite film. <i>Journal of Electroanalytical Chemistry</i> , 2022, 908, 116123.	1.9	3
4062	Interactions between multi-walled carbon nanotubes and plankton as detected by Raman spectroscopy. <i>Chemosphere</i> , 2022, 295, 133889.	4.2	5
4063	Ballistic heat conduction characteristics of graphene nanoribbons. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 139, 115146.	1.3	2
4064	High yield M-BTC type MOFs as precursors to prepare N-doped carbon as peroxydisulfate activator for removing sulfamethazine: The formation mechanism of surface-bound SO ₄ ²⁻ on Co-N _x site. <i>Chemosphere</i> , 2022, 295, 133946.	4.2	25
4065	Probing the Energy Conversion Pathways between Light, Carriers, and Lattice in Real Time with Attosecond Core-Level Spectroscopy. <i>Physical Review X</i> , 2021, 11, .	2.8	10
4066	Flexible Impedimetric Electronic Nose for High-Accurate Determination of Individual Volatile Organic Compounds by Tuning the Graphene Sensitive Properties. <i>Chemosensors</i> , 2021, 9, 360.	1.8	13
4067	Graphene-Based Nanomaterials for Biomedical Imaging. <i>Advances in Experimental Medicine and Biology</i> , 2022, 1351, 125-148.	0.8	7
4068	Graphene/Rh-Doped SnO ₂ Nanocomposites Synthesized by Electrochemical Exfoliation and Flame Spray Pyrolysis for H ₂ s Sensing. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4069	Human Epidermis/Touch Receptor Inspired Pressure Sensors Based on Graphene Oxide/Multi-Walled Carbon Nanotubes Composites with Wavy Microstructures for Wearable Textile Electronics. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4070	Facile in-situ synthesis of reduced graphene oxide/TiO ₂ nanocomposite: a promising material for the degradation of methyl orange. <i>Inorganic and Nano-Metal Chemistry</i> , 2023, 53, 167-177.	0.9	5
4071	Dual role of N-doped graphene film as a cathode material for anodic organic oxidation and persulfate production and as a planar carbocatalyst for non-electrochemical persulfate activation. <i>Environmental Science: Nano</i> , 2022, 9, 1662-1674.	2.2	4
4072	Graphene Supercapacitor Electrode of Liquid Hydrocarbons using CVD Process. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
4073	Distinctive conductivity improvement by embedding Cu nanoparticles in the carbon shell of submicron Si@C anode materials for LIBs. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2306-2313.	2.5	5
4074	Tolerated Reduction Protocol of Graphene for High Performance Emi Shielding Materials. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4075	Highly selective detection of ethanol in biological fluids and alcoholic drinks using indium ethylenediamine functionalized graphene. <i>Sensors & Diagnostics</i> , 2022, 1, 566-578.	1.9	9
4076	Highly efficient photocatalytic degradation of the emerging pollutant ciprofloxacin <i>via</i> the rational design of a magnetic interfacial junction of mangosteen peel waste-derived 3D graphene hybrid material. <i>Environmental Science: Nano</i> , 2022, 9, 1298-1314.	2.2	16
4077	High Yield M-Btc Type Mofs as Precursors to Prepare N-Doped Carbon as Peroxymonosulfate Activator for Removing Sulfamethazine: The Formation Mechanism of Surface-Bound So ₄ ²⁻ on Co-Nx Site. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4078	Synthesis and Characterization of Free-Standing Boron Carbon Nitride Nanosheets (Bcnns) in Inductively Coupled Plasma. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4079	Hierarchical soot nanoparticle self-assemblies for enhanced performance as sodium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9059-9066.	5.2	8
4080	Nanoscale Mechanics of Metal-Coated Graphene Nanocomposite Powders. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4081	Chiral phonons and pseudoangular momentum in nonsymmorphic systems. <i>Physical Review Research</i> , 2022, 4, .	1.3	17
4082	MOVPE Growth of GaN via Graphene Layers on GaN/Sapphire Templates. <i>Nanomaterials</i> , 2022, 12, 785.	1.9	10
4083	Identifying the Origin of Defect-Induced Raman Mode in WS ₂ Monolayers via Density Functional Perturbation Theory. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4182-4187.	1.5	4
4084	Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy for Probing Riboflavin on Graphene. <i>Materials</i> , 2022, 15, 1636.	1.3	5
4085	Improving the corrosion resistance and osteogenic differentiation of ZK60 magnesium alloys by hydroxyapatite/graphene/graphene oxide composite coating. <i>Ceramics International</i> , 2022, 48, 16131-16141.	2.3	9
4086	Graphene Growth on Electroformed Copper Substrates by Atmospheric Pressure CVD. <i>Materials</i> , 2022, 15, 1572.	1.3	4
4087	Electrochemical Behavior of Symmetric Electrical Double-Layer Capacitors and Pseudocapacitors and Identification of Transport Anomalies in the Interconnected Ionic and Electronic Phases Using the Impedance Technique. <i>Nanomaterials</i> , 2022, 12, 676.	1.9	7
4088	Correlative Raman Imaging and Scanning Electron Microscopy: The Role of Single Ga Islands in Surface-Enhanced Raman Spectroscopy of Graphene. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4508-4514.	1.5	2
4089	Thermal Exfoliated Graphite/Chitosan Modified Glassy Carbon Electrode for Cu(II) Ion Sensing. <i>Current Analytical Chemistry</i> , 2022, 18, .	0.6	0
4090	Poly(Thionine)-Modified Screen-Printed Electrodes for CA 19-9 Detection and Its Properties in Raman Spectroscopy. <i>Chemosensors</i> , 2022, 10, 92.	1.8	5

#	ARTICLE	IF	CITATIONS
4091	Multilevel resistive switching in graphene oxide-multiferroic thin-film-based bilayer RRAM device by interfacial oxygen vacancy engineering. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	6
4092	Interlayer Coulomb interaction in twisted bilayer graphene nanofragments characterized by the vibrational mode of $G_{r/s} + G_{s/r}$ band. <i>Applied Physics Letters</i> , 2022, 120, 083103.	1.5	5
4093	Quantitative Estimation of p- and n-Doping Effects on Electrophysical and Optical Properties of CVD Graphene. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4620-4629.	1.5	0
4094	A Rapid Graphene Sensor Platform for the Detection of Viral Proteins in Low Volume Samples. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	1.7	2
4095	Integrated Strain Sensors with Stretchable Vertical Graphene Networks for Non-invasive Physiological Assessment. <i>ACS Applied Electronic Materials</i> , 2022, 4, 964-973.	2.0	8
4096	Impact of Degree of Graphitization, Surface Properties and Particle Size Distribution on Electrochemical Performance of Carbon Anodes for Potassium-Ion Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	9
4097	Enhanced thermoelectric properties of 2H-MoS ₂ thin film by tuning post sulfurization temperature. <i>Ceramics International</i> , 2022, 48, 18944-18948.	2.3	7
4098	Evolution of Nanostructured Carbon Coatings Quality via RT-CVD and Their Tribological Behavior on Nodular Cast Iron. <i>Metals</i> , 2022, 12, 517.	1.0	1
4099	2D Heterostructures for Highly Efficient Photodetectors: From Advanced Synthesis to Characterizations, Mechanisms, and Device Applications. <i>Advanced Photonics Research</i> , 2022, 3, .	1.7	13
4100	Extraordinarily high hydrogen-evolution-reaction activity of corrugated graphene nanosheets derived from biomass rice husks. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 40317-40326.	3.8	21
4101	Efficient CdS quantum dot sensitized solar cells based on electrochemically reduced graphene oxide (ERGO)/ZnO nanowall photoanodes and MoS ₂ , WS ₂ , CuS cascaded counter electrodes. <i>Solar Energy</i> , 2022, 234, 348-359.	2.9	9
4102	Machine Learning-Enabled Smart Gas Sensing Platform for Identification of Industrial Gases. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	18
4103	Fast-Charging Halide-Based All-Solid-State Batteries by Manipulation of Current Collector Interface. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	20
4104	Ultrafast Growth of Highly Conductive Graphene Films by a Single Subsecond Pulse of Microwave. <i>ACS Nano</i> , 2022, 16, 6676-6686.	7.3	3
4105	Rectifying Effect in a High-Performance Ballistic Diode Bridge Based on Encapsulated Graphene with a Unique Design. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1518-1524.	2.0	2
4106	Using Scalable Graphene via Press-and-Peel: A Robust and Storable Tape. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14513-14519.	4.0	1
4107	Effective Tuning of the Performance of Conductive Silicon Compound by Few-Layered Graphene Additives. <i>Nanomaterials</i> , 2022, 12, 907.	1.9	0
4108	Nitrogen-rich biomass derived three-dimensional porous structure captures FeNi metal nanospheres: An effective electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 12487-12499.	3.8	10

#	ARTICLE	IF	CITATIONS
4109	Synthesis and characterization of ZnO NRs with spray coated GO for enhanced photocatalytic activity. <i>Ceramics International</i> , 2022, 48, 18238-18245.	2.3	17
4110	Neighboring Effects on the Selective Bifunctionalization of Graphene Oxide for Nanocatalytic Organophosphate Neutralization. <i>ACS Applied Nano Materials</i> , 2022, 5, 6001-6012.	2.4	5
4111	Dramatic n-Type Doping of Monolayer Graphene with Ferroelectric LiNbO ₃ Crystals and Bilayer Two-Dimensional Electron Gases. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4534-4541.	1.5	1
4112	Principal Component Analysis as a Tool for Electrochemical Characterization of Modified Electrodes: A Case Study. <i>Journal of the Electrochemical Society</i> , 0, , .	1.3	1
4113	Investigation of a Highly Sensitive Surface-Enhanced Raman Scattering Substrate Formed by a Three-Dimensional/Two-Dimensional Graphene/Germanium Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14764-14773.	4.0	3
4115	Proximity enhanced magnetism at NiFe ₂ O ₄ /Graphene interface. <i>AIP Advances</i> , 2022, 12, .	0.6	3
4116	Comprehensive Study of the Resistance of Pencil-Stroke Graphite on Paper Electrodes. <i>The Physics Educator</i> , 2022, 04, .	0.1	1
4118	Stability of Phenyl Copolymer-Graphene Oxide Composites in High-Alkali and/or -Calcium Environments: Implications for Strengthening and Toughening Cement-Based Materials. <i>ACS Applied Nano Materials</i> , 2022, 5, 4038-4047.	2.4	4
4119	Functionalization of Graphene by π - π Stacking with C ₆₀ /C ₇₀ /Sc ₃ N@C ₈₀ Fullerene Derivatives for Supercapacitor Electrode Materials. <i>Journal of Carbon Research</i> , 2022, 8, 17.	1.4	4
4120	Gap Opening in Double-Sided Highly Hydrogenated Free-Standing Graphene. <i>Nano Letters</i> , 2022, 22, 2971-2977.	4.5	9
4121	Graphene Oxide Tribofilms Enhance the Scratch Resistance of Silica Glasses. <i>ACS Applied Nano Materials</i> , 2022, 5, 4812-4822.	2.4	4
4122	Green Synthesis of Laser-Induced Graphene with Copper Oxide Nanoparticles for Deicing Based on Photo-Electrothermal Effect. <i>Nanomaterials</i> , 2022, 12, 960.	1.9	3
4123	Ag-decorated novel h-VO ₃ nanostructures for sustainable applications. <i>Ceramics International</i> , 2022, , .	2.3	4
4124	Schottky barrier height modulation and photoconductivity in a vertical graphene/ReSe ₂ vdW p-n heterojunction barristor. <i>Journal of Materials Research and Technology</i> , 2022, 17, 2796-2806.	2.6	7
4125	Modified UNet++ with attention gate for graphene identification by optical microscopy. <i>Carbon</i> , 2022, 195, 246-252.	5.4	10
4126	Spectral and Structural Properties of High-Quality Reduced Graphene Oxide Produced via a Simple Approach Using Tetraethylenepentamine. <i>Nanomaterials</i> , 2022, 12, 1240.	1.9	6
4127	Picosecond energy transfer in a transition metal dichalcogenide-graphene heterostructure revealed by transient Raman spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119726119.	3.3	16
4128	Photo-Electrochemical Reduction of CO ₂ to Methanol on Quaternary Chalcogenide Loaded Graphene-TiO ₂ Ternary Nanocomposite Fabricated via Pechini Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 2910-2927.	1.9	6

#	ARTICLE	IF	CITATIONS
4129	New Structural Insights into Densely Assembled Reduced Graphene Oxide Membranes. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	27
4130	Nanostructured P-doped activated carbon with improved mesoporous texture derived from biomass for enhanced adsorption of industrial cationic dye contaminants. <i>Materials Chemistry and Physics</i> , 2022, 282, 125881.	2.0	16
4131	Biocompatible rapid few-layers-graphene synthesis in aqueous lignin solutions. <i>Carbon Trends</i> , 2022, 7, 100169.	1.4	2
4132	Graphene-oxide interface for optoelectronic synapse application. <i>Scientific Reports</i> , 2022, 12, 5880.	1.6	11
4133	Co ₃ O ₄ /LaCoO ₃ nanocomposites derived from MOFs as anodes for high-performance lithium-ion batteries. <i>Inorganic Chemistry Communication</i> , 2022, 140, 109447.	1.8	10
4134	Tribological properties and self-lubrication mechanism of in-situ grown graphene reinforced nickel matrix composites in ambient air. <i>Wear</i> , 2022, 496-497, 204308.	1.5	9
4135	Electrochemical sensor based on metal-free materials composed of graphene and graphene oxide for sensitive detection of cadmium ions in water. <i>Materials Chemistry and Physics</i> , 2022, 284, 126064.	2.0	18
4136	Synthesis and characterization of chemical vapour deposited pyrolytic graphite. <i>Thin Solid Films</i> , 2022, 749, 139180.	0.8	10
4137	Surface characteristic and wear resistance of S960 high-strength steel after shot peening combing with ultrasonic sprayed graphene oxide coating. <i>Journal of Materials Research and Technology</i> , 2022, 18, 978-989.	2.6	17
4138	Retention of graphene oxide and reduced graphene oxide in porous media: Diffusion-attachment, interception-attachment and straining. <i>Journal of Hazardous Materials</i> , 2022, 431, 128635.	6.5	16
4139	Tailoring the synergy between polyaniline and reduced graphene oxide using organic acid dopant, pTSA for enhanced performance as electrode material for supercapacitor applications. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 165, 110673.	1.9	5
4140	New analytical strategies Amplified with 2D carbon nanomaterials for electrochemical sensing of food pollutants in water and soils sources. <i>Chemosphere</i> , 2022, 296, 133974.	4.2	10
4141	Nitrogen-doped carbon nanosheets homogeneously embedded with Co nanoparticles via biostructure confinement as highly efficient microwave absorbers. <i>Applied Surface Science</i> , 2022, 590, 153119.	3.1	11
4142	Amine functionalized carbon quantum dots from paper precursors for selective binding and fluorescent labelling applications. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 730-744.	5.0	27
4143	A flexible free-standing FeF ₃ /reduced graphene oxide film as cathode for advanced lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2022, 909, 164702.	2.8	17
4144	A new modification strategy for improving the electrochemical performance of high-nickel cathode material: V ₂ O ₅ particles anchored on rGO sheets as a dual coating layer. <i>Applied Surface Science</i> , 2022, 589, 152878.	3.1	8
4145	Batch and continuous study of one-step sustainable green graphene sand hybrid synthesized from Date-syrup for remediation of contaminated groundwater. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 8777-8796.	3.4	10
4146	Green approach for the synthesis of graphene glass hybrid as a reactive barrier for remediation of groundwater contaminated with lead and tetracycline. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022, 18, 100685.	1.7	0

#	ARTICLE	IF	CITATIONS
4147	Effect of Electrolytic Medium on the Electrochemical Reduction of Graphene Oxide on Si(111) as Probed by XPS. <i>Nanomaterials</i> , 2022, 12, 43.	1.9	11
4148	Secondary Exfoliation of Electrolytic Graphene Oxide by Ultrasound Assisted Microwave Technique. <i>Nanomaterials</i> , 2022, 12, 68.	1.9	4
4149	Nano- and Microstructured Copper/Copper Oxide Composites on Laser-Induced Carbon for Enzyme-Free Glucose Sensors. <i>ACS Applied Nano Materials</i> , 2021, 4, 13747-13760.	2.4	27
4151	The effect of nitrogen species on the catalytic properties of N-doped graphene. <i>Scientific Reports</i> , 2021, 11, 23970.	1.6	12
4152	Photothermally Enhanced Photoresponse of Bismuth Halide Perovskite by Phonon Scattering. <i>ACS Applied Electronic Materials</i> , 2022, 4, 217-224.	2.0	2
4153	Green synthesis of carbon nanomaterials from sugarcane bagasse using bio-silica supported bimetallic nickel-based catalysts. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2022, 30, 767-776.	1.0	2
4154	Fabrication of Hierarchical Lignin-Based Carbon through Direct High-Temperature Pyrolysis and Its Electrochemical Application. <i>ACS Omega</i> , 2021, 6, 34129-34136.	1.6	7
4155	Synthesis of turbostratic nanoscale graphene via chamber detonation of oxygen/acetylene mixtures. <i>Nano Select</i> , 2022, 3, 1054-1068.	1.9	10
4156	Waste Face Surgical Mask Transformation into Crude Oil and Nanostructured Electrocatalysts for Fuel Cells and Electrolyzers. <i>ChemSusChem</i> , 2022, 15, .	3.6	26
4157	Non-invasive on-skin sensors for brain machine interfaces with epitaxial graphene. <i>Journal of Neural Engineering</i> , 2021, 18, 066035.	1.8	12
4158	Facile Synthesis Sandwich-Structured Ge/NrGO Nanocomposite as Anodes for High-Performance Lithium-Ion Batteries. <i>Crystals</i> , 2021, 11, 1582.	1.0	4
4160	Electrochemical Formation of a Covalent-Ionic Stage-1 Graphite Intercalation Compound with Trifluoroacetic Acid. <i>Chemistry of Materials</i> , 2022, 34, 217-231.	3.2	6
4161	Study on the Evolution of Graphene Defects and the Mechanical and Thermal Properties of GNPs/Cu during CVD Repair Process. <i>Materials</i> , 2022, 15, 130.	1.3	0
4162	Structural Investigation of the Synthesized Few-Layer Graphene from Coal under Microwave. <i>Nanomaterials</i> , 2022, 12, 57.	1.9	8
4163	SYNTHESIS AND CHARACTERIZATION OF GRAPHENE SHEETS DECORATED WITH CARBON BLACK BY DIRECT PYROLYSIS OF A MOLASSES-CARBON BLACK MIXTURE AS A POTENTIAL VERSATILE FILLER FOR RUBBER. <i>Rubber Chemistry and Technology</i> , 2021, , .	0.6	1
4164	Graphene-reinforced cement composites for smart infrastructure systems. , 2022, , 79-114.		1
4165	Characterizing Raman modes and gas sensing features of functionalized tetragonal graphyne quantum dots: A first principles study. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 167, 110737.	1.9	3
4166	Li ₂ TiO ₃ -MWCNT nanocomposite electrodes for determination of dopamine in electrochemical sensing platform. <i>Sensors and Actuators A: Physical</i> , 2022, 341, 113555.	2.0	10

#	ARTICLE	IF	CITATIONS
4167	Epoxy/hybrid graphene-copper nanocomposite materials with enhanced thermal conductivity. Journal of Applied Polymer Science, 2022, 139, .	1.3	4
4168	Beyond Skin Pressure Sensing: 3D Printed Laminated Graphene Pressure Sensing Material Combines Extremely Low Detection Limits with Wide Detection Range. Advanced Functional Materials, 2022, 32, .	7.8	54
4169	Atomic layer-by-layer etching of graphene directly grown on SrTiO ₃ substrates for high-yield remote epitaxy and lift-off. APL Materials, 2022, 10, .	2.2	12
4170	Small-Molecule Additive for Improving Polyethylene-Derived Carbon Fiber Fabrication. Fibers and Polymers, 2022, 23, 1510-1514.	1.1	1
4171	Lotus-Like Water Repellency of Gas-Phase-Synthesized Graphene. , 2022, 4, 995-1002.		3
4177	Novel synthesis of multicomponent porous nano-hybrid composite, theoretical investigation using DFT and dye adsorption applications: disposing of waste with waste. Environmental Science and Pollution Research, 2023, 30, 8928-8955.	2.7	36
4178	Graphene-Based Bioelectronics. , 2022, , 129-145.		1
4179	Ether-based electrolytes for sodium ion batteries. Chemical Society Reviews, 2022, 51, 4484-4536.	18.7	187
4180	Simultaneous determination of cadmium($\langle \text{scp} \rangle$), lead($\langle \text{scp} \rangle$), copper($\langle \text{scp} \rangle$) and mercury($\langle \text{scp} \rangle$) using an electrode modified by N/S co-doped graphene. New Journal of Chemistry, 2022, 46, 10618-10627.	1.4	5
4181	Microstructure-property relationships in composites of 8YSZ ceramics and in situ graphitized nanocellulose. Journal of the European Ceramic Society, 2022, 42, 4594-4606.	2.8	1
4182	Recent Advances in SnSe Nanostructures beyond Thermoelectricity. Advanced Functional Materials, 2022, 32, .	7.8	28
4183	Atomic Threshold Switch Based on All-2D Material Heterostructures with Excellent Control Over Filament Growth and Volatility. Advanced Functional Materials, 2022, 32, .	7.8	7
4184	Sensitive Transfer-Free Wafer-Scale Graphene Microphones. ACS Applied Materials & Interfaces, 2022, 14, 21705-21712.	4.0	18
4185	Advanced Dual-Ion Batteries with High-Capacity Negative Electrodes Incorporating Black Phosphorus. Advanced Science, 2022, , 2201116.	5.6	11
4186	Enhanced performance of supercapacitors based on rotationally stacked CVD graphene. Journal of Applied Physics, 2022, 131, .	1.1	2
4187	Fabrication of monodisperse polyacrylonitrile hollow microspheres containing transition metals and low-temperature catalytic graphitization. Journal of Polymer Research, 2022, 29, .	1.2	1
4188	AlGaN nanowire deep ultraviolet light emitting diodes with graphene electrode. Applied Physics Letters, 2022, 120, .	1.5	4
4189	International interlaboratory comparison of Raman spectroscopic analysis of CVD-grown graphene. 2D Materials, 2022, 9, 035010.	2.0	7

#	ARTICLE	IF	CITATIONS
4190	Improved Functionality of Poly(3,4-Ethylenedioxythiophene):Poly(Styrenesulfonate)/HeptaCoordinated Organotin Complex Films via Graphene Applied to Organic Solar Cell Fabrications. <i>Frontiers in Materials</i> , 2022, 9, .	1.2	3
4191	Fluorinated Polybenzimidazole as a Novel Precursor for Carbon Molecular Sieve Membranes with Enhanced Gas Separation Properties. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 6587-6599.	1.8	5
4192	Electromagnetic Interference Shielding by Reduced Graphene Oxide Foils. <i>ACS Applied Nano Materials</i> , 2022, 5, 6792-6800.	2.4	13
4193	Synthesis of graphene from food and agricultural wastes in ubon ratchathani province, thailand. , 2022, 11, 244465.		2
4194	Carbon Dots Synthesized from Cinchona Pubescens Vahl. An Efficient Antibacterial Nanomaterial and Bacterial Detector.. <i>ChemistrySelect</i> , 2022, 7, .	0.7	1
4195	Nonequilibrium Phonon Thermal Resistance at MoS ₂ /Oxide and Graphene/Oxide Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22372-22380.	4.0	14
4196	Single-layer graphene as a transparent electrode for electrogenerated chemiluminescence biosensing. <i>Electrochemistry Communications</i> , 2022, 138, 107290.	2.3	2
4197	Edge engineering in chemically active two-dimensional materials. <i>Nano Research</i> , 2022, 15, 9890-9905.	5.8	7
4198	Effects of Coal Rank and Macerals on the Structure Characteristics of Coal-Based Graphene Materials from Anthracite in Qinshui Coalfield. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 588.	0.8	3
4199	Interaction of Silver Nanoparticles with Bilayer Graphene: A Raman Study. <i>Brazilian Journal of Physics</i> , 2022, 52, .	0.7	1
4200	Battery Powder as a Source of Novel Graphene Nanocarbons. <i>Physica Status Solidi (B): Basic Research</i> , 0, , .	0.7	0
4201	Twisted double ABC-stacked trilayer graphene with weak interlayer coupling. <i>Physical Review B</i> , 2022, 105, .	1.1	2
4202	In-situ grown nano silver iodide-graphene oxide-cotton hybrid filter material for dynamic visible light response photocatalysis. <i>Separation and Purification Technology</i> , 2022, 295, 121192.	3.9	3
4203	Photocatalytic degradation of tetracycline based on the highly reactive interface between graphene nanopore and TiO ₂ nanoparticles. <i>Microporous and Mesoporous Materials</i> , 2022, 338, 111958.	2.2	12
4204	Design of new, efficient, and suitable electrode material through interconnection of ZIF-67 by polyaniline nanotube on graphene flakes for supercapacitors. <i>Journal of Power Sources</i> , 2022, 538, 231588.	4.0	15
4205	Changes in electronic structure of graphene by adsorption of low melamine coverages. <i>Surface Science</i> , 2022, 723, 122120.	0.8	2
4206	Graphene/Rh-doped SnO ₂ nanocomposites synthesized by electrochemical exfoliation and flame spray pyrolysis for H ₂ S sensing. <i>Journal of Alloys and Compounds</i> , 2022, 916, 165431.	2.8	7
4207	Free-Standing, Interwoven Tubular Graphene Mesh-Supported Binary AuPt Nanocatalysts: An Innovative and High-Performance Anode Methanol Oxidation Catalyst. <i>Nanomaterials</i> , 2022, 12, 1689.	1.9	2

#	ARTICLE	IF	CITATIONS
4208	Extensible and self-recoverable proteinaceous materials derived from scallop byssal thread. <i>Nature Communications</i> , 2022, 13, 2731.	5.8	8
4209	A method of improving the dispersion of graphene nanoplatelets in cellulose acetate based composite. <i>Polymers and Polymer Composites</i> , 2022, 30, 096739112211034.	1.0	0
4210	Designing kinetics of graphene composited multiscale porous carbon for advancing energy storage performance of supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 112, 430-439.	2.9	5
4211	Direct-laser-conversion of Kevlar textile to laser-induced-graphene for realizing fast and flexible fabric strain sensors. <i>CIRP Annals - Manufacturing Technology</i> , 2022, , .	1.7	4
4212	Laser-Induced Graphene Papers with Tunable Microstructures as Antibacterial Agents. <i>ACS Applied Nano Materials</i> , 2022, 5, 6841-6851.	2.4	5
4213	Silicon doped graphene as high cycle performance anode for lithium-ion batteries. <i>Carbon</i> , 2022, 196, 633-638.	5.4	22
4214	Graphitization vs Tribo-Oxidation Governing Friction Behaviors of Doped Graphene Nanocrystalline Carbon Films. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4215	Multifunctional Rgo-Based Films with "Brick-Slurry" Structure: High-Efficiency Electromagnetic Shielding Performance, High Strength and Excellent Environmental Adaptability. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4216	In Situ Constructed Multilayer Graphene Structure Enabling Improved Supercapacitive Charge Storage. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4217	Improvement of electromagnetic interference properties of 3D few-layer graphene composite by means of freeze-drying. <i>Ceramics International</i> , 2022, 48, 26107-26115.	2.3	2
4218	Large Enhancement in Thermal Conductivity of Solvent-Cast Expanded Graphite/Polyetherimide Composites. <i>Nanomaterials</i> , 2022, 12, 1877.	1.9	8
4219	Strong Second Harmonic Generation from Bilayer Graphene with Symmetry Breaking by Redox-Governed Charge Doping. <i>Nano Letters</i> , 2022, 22, 4287-4293.	4.5	10
4220	High-Quality Monolayer Reduced Graphene Oxide Films via Combined Chemical Reduction and Ethanol-Assisted Defect Restoration. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	5
4221	Interlayer-enhanced room temperature in-plane magnetoresistance in graphene nano-crystalline carbon (GNC) film/SiO ₂ /p-Si heterostructures. <i>Applied Physics Letters</i> , 2022, 120, 212402.	1.5	0
4222	Controlling and Monitoring Crack Propagation in Monolayer Graphene Single Crystals. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	4
4223	Study on high-pressure behaviour of spherical carbon black nanoparticles with core-shell structure. <i>Carbon Letters</i> , 2022, 32, 1337-1344.	3.3	5
4224	Laminated Cu-GO-Cu composite foils with improved mechanical and thermal properties by alternating DC electro-deposition and electrophoresis. <i>Journal of Materials Research and Technology</i> , 2022, 19, 1724-1739.	2.6	5
4225	Raman Scattering Measurement of Suspended Graphene under Extreme Strain Induced by Nanoindentation. <i>Advanced Materials</i> , 2022, 34, .	11.1	12

#	ARTICLE	IF	CITATIONS
4226	Extremely High Photovoltage (3.16 V) Achieved in Vacuum-Ultraviolet-Oriented van der Waals Photovoltaics. ACS Photonics, 2022, 9, 2101-2108.	3.2	12
4227	A Graphene-Coated Thermal Conductive Separator to Eliminate the Dendrite-Induced Local Hotspots for Stable Lithium Cycling. Advanced Energy Materials, 2022, 12, .	10.2	42
4228	Demonstration of Molecular Tunneling Junctions Based on Vertically Stacked Graphene Heterostructures. Crystals, 2022, 12, 787.	1.0	3
4229	Raman spectroscopy as a probe for the electronic structure of graphene at electrified interfaces. Current Opinion in Electrochemistry, 2022, 35, 101066.	2.5	5
4230	Two-Dimensional Layered Heterostructures of Nanoporous Carbons Using Reduced Graphene Oxide and Metal-Organic Frameworks. Chemistry of Materials, 2022, 34, 4946-4954.	3.2	24
4231	Removal mechanism of SiC/SiC composites by underwater femtosecond laser ablation. Journal of the European Ceramic Society, 2022, 42, 5380-5390.	2.8	20
4232	Direct Wafer-Scale CVD Graphene Growth under Platinum Thin-Films. Materials, 2022, 15, 3723.	1.3	3
4233	Irradiation resistance of preceramic paper-derived SiCf/SiC laminated composites. Journal of Materials Science, 2022, 57, 10153-10166.	1.7	4
4234	Graphite-Mediated Microwave-Exfoliated Graphene Fluoride as Supercapacitor Electrodes. Nanomaterials, 2022, 12, 1796.	1.9	2
4235	Fragmented graphene synthesized on a dielectric substrate for THz applications. Nanotechnology, 2022, 33, 395703.	1.3	2
4236	A Cu nanoparticles-assisted catalysis method enables controllably direct growth of graphene transparent conductive films on SiO ₂ nanospheres antireflection layer. European Journal of Inorganic Chemistry, 0, , .	1.0	0
4237	Rapid Oxidation Synthesis of Hollow Cupric Oxide-Decorated rGO with High Performance and Kinetically Enhanced Lithium Storage. Energy & Fuels, 0, , .	2.5	1
4238	Raman Spectroscopy of Janus MoSSe Monolayer Polymorph Modifications Using Density Functional Theory. Materials, 2022, 15, 3988.	1.3	6
4239	Design and synthesis of highly efficient nitrogen-doped carbon nano-onions for asymmetric supercapacitors. Journal of Alloys and Compounds, 2022, 918, 165609.	2.8	12
4240	Facile electrochemical detection of morpholine in boiler water with carbon nanostructures: a comparative study of graphene and carbon nanotubes. Bulletin of Materials Science, 2022, 45, .	0.8	2
4241	Effect of topological non-hexagonal rings and Stone Wale defects on the vibrational response of single and multi-layer ion irradiated graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2022, , 115329.	1.3	1
4242	Tin oxide/reduced graphene oxide hybrid as a hole blocking layer for improving 2D/3D hetrostructured perovskite-based photovoltaics. Surfaces and Interfaces, 2022, 31, 102092.	1.5	5
4244	Graphene-based polymer composites for photocatalytic applications. , 2022, , 377-432.		1

#	ARTICLE	IF	CITATIONS
4245	Microemulsions for the covalent patterning of graphene. <i>Chemical Communications</i> , 2022, 58, 7813-7816.	2.2	1
4246	Quantification and removal of carbonaceous impurities in a surfactant-assisted carbon nanotube dispersion and its implication on electronic properties. <i>Nanoscale Advances</i> , 2022, 4, 3537-3548.	2.2	3
4247	Electro-Modulation and Surface Photovoltage Spectroscopy with Semi-Transparent Graphene Electrodes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4248	Study on preparation and electrochemical properties of nano-diamond/vertical graphene composite three-dimensional electrodes. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, , .	0.2	0
4249	Elemental Carbon Concentration as the Main Factor in Gas-Phase Graphene Synthesis: Quantitative Fourier-Transform Infrared Spectroscopy Study. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4250	In-plane optical phonon modes of current-carrying graphene. <i>Physical Review B</i> , 2022, 105, , .	1.1	2
4251	Chemical Vapour Deposition Grapheneâ€“PMMA Nanolaminates for Flexible Gas Barrier. <i>Membranes</i> , 2022, 12, 611.	1.4	3
4252	Accelerated Ultrafast Magnetization Dynamics at Graphene/CoGd Interfaces. <i>ACS Nano</i> , 2022, 16, 9620-9630.	7.3	2
4253	Multiplexed Monitoring of Neurochemicals via Electrografting-Enabled Site-Selective Functionalization of Aptamers on Field-Effect Transistors. <i>Analytical Chemistry</i> , 2022, 94, 8605-8617.	3.2	21
4254	Conductive Hydrogel Conduits with Growth Factor Gradients for Peripheral Nerve Repair in Diabetics with Nonâ€“Suture Tape. <i>Advanced Healthcare Materials</i> , 2022, 11, , .	3.9	19
4255	Reforming of model biogas using Ni/CeO ₂ /Î³-Al ₂ O ₃ monolith catalyst. <i>Materials Today: Proceedings</i> , 2023, 72, 134-139.	0.9	4
4256	Achievement of excellent hydrogen sorption through swift hydrogen transport in 1:2Mg(NH ₂) ₂ â€“LiH catalyzed by Li ₄ BH ₄ (NH ₂) ₃ and carbon nanostructures. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 23679-23693.	3.8	6
4257	Synthesis of reduced graphene oxide and a study on its electrochemical performance for supercapacitor applications. <i>Materials Today: Proceedings</i> , 2022, 68, 335-340.	0.9	1
4258	Pyrolic Nâ€“Stabilized Monovalent Ni Single-Atom Electrocatalyst for Efficient CO ₂ Reduction: Identifying the Role of Pyrolicâ€“N and Synergistic Electrocatalysis. <i>Advanced Functional Materials</i> , 2022, 32, , .	7.8	40
4259	Twist-Induced New Phonon Scattering Pathways in Bilayer Graphene Probed by Helicity-Resolved Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10487-10493.	1.5	3
4260	Mechanochemical Synthesis of Nitrogen-Doped and Sulfur-Doped Multilayer Graphene for Use in Bifunctional Oxygen Electrodes. <i>Journal of the Electrochemical Society</i> , 2022, 169, 064515.	1.3	0
4261	Ultrasonic-Assisted Synthesis of Nanosized Graphite Obtained from Biomass and Its Assembly in Polyaniline-Composite Material for Energy Storage. <i>Energy & Fuels</i> , 2022, 36, 7130-7139.	2.5	3
4262	Sustainable supercapacitor electrodes based on preagglomerated carbon onions and a green binder. <i>Carbon</i> , 2022, 197, 555-562.	5.4	16

#	ARTICLE	IF	CITATIONS
4263	New Method for Producing Carbon Sphere from Waste Tyre (NEWCSWT). Waste and Biomass Valorization, 2022, 13, 4951-4962.	1.8	2
4264	Graphene thin film microextraction and nanoparticle enhancement for fast LIBS metal trace analysis in liquids. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 194, 106471.	1.5	8
4265	Eco-friendly, non-toxic and super adsorbent hydrogels based on graphene. Materials Chemistry and Physics, 2022, 288, 126408.	2.0	4
4266	Hot carriers assisted mixed-dimensional graphene/MoS ₂ /p-GaN light emitting diode. Carbon, 2022, 197, 192-199.	5.4	9
4267	Fabrication of multilayer film with graphene oxide of different surface charge through electrospray deposition. Applied Surface Science, 2022, 599, 153977.	3.1	13
4268	High throughput investigation of an emergent and naturally abundant 2D material: Clinochlore. Applied Surface Science, 2022, 599, 153959.	3.1	8
4269	Solar-assisted all-solid supercapacitors using composite nanostructures of ZnO nanowires with GO and rGO. Journal of Materials Chemistry C, 2022, 10, 10748-10758.	2.7	18
4270	Manufacturable biosensors based on graphene films. , 2022, , 243-307.		0
4271	Scalable Production of Electrochemically Exfoliated Graphene by an Extensible Electrochemical Reactor with Encapsulated Anode and Dual Cathodes. SSRN Electronic Journal, 0, , .	0.4	0
4272	Coking Can Enhance Product Yields in the Dry Reforming of Methane. ACS Catalysis, 2022, 12, 8352-8362.	5.5	34
4273	Graphite to graphene conversion via modified electrochemical exfoliation method. MRS Advances, 2022, 7, 746-750.	0.5	1
4274	Hydrogen and CNT Production by Methane Cracking Using Ni ²⁺ -Cu and Co ²⁺ -Cu Catalysts Supported on Argan-Derived Carbon. ChemEngineering, 2022, 6, 47.	1.0	5
4275	Chiral phonons entangled with multiple Hall effects and unified convention for pseudoangular momentum in two-dimensional materials. Physical Review B, 2022, 105, .	1.1	4
4276	Toward strategical bottom-up synthesis of carbon materials with exceptionally high pyridinic-nitrogen content: Development of screening techniques. Carbon, 2022, 198, 411-434.	5.4	15
4277	Polarization Raman spectra of graphene nanoribbons. Chinese Physics B, 0, , .	0.7	0
4278	Pressure Tunable van Hove Singularities of Twisted Bilayer Graphene. Nano Letters, 2022, 22, 5841-5848.	4.5	4
4279	Lithium Insertion into Graphitic Carbon Observed via Operando Kerr-Gated Raman Spectroscopy Enables High State of Charge Diagnostics. ACS Energy Letters, 2022, 7, 2611-2618.	8.8	5
4280	Three-dimensional self-folding assembly of multi-layer graphene at the interface with a polymeric film. AIP Advances, 2022, 12, 075002.	0.6	1

#	ARTICLE	IF	CITATIONS
4281	Temperature-Dependent Properties of Graphene on SiC Substrates for Triboelectric Nanogenerators. <i>Frontiers in Materials</i> , 0, 9, .	1.2	1
4282	Directly integrated mixed-dimensional van der Waals graphene/perovskite heterojunction for fast photodetection. <i>Informa Mater</i> , 2022, 4, .	8.5	18
4283	Graphene electronic tattoos 2.0 with enhanced performance, breathability and robustness. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	3.9	14
4284	Glucose measurement via Raman spectroscopy of graphene: Principles and operation. <i>Nano Research</i> , 2022, 15, 8697-8704.	5.8	6
4285	Structural properties of grain boundary in graphene grown on germanium substrates with different orientations. <i>Applied Physics Letters</i> , 2022, 121, 011901.	1.5	1
4286	In situ constructed multilayer graphene structure enabling improved supercapacitive charge storage. <i>Electrochimica Acta</i> , 2022, 426, 140827.	2.6	4
4287	Graphitization vs tribo-oxidation governing friction behaviors of doped graphene nanocrystalline carbon films. <i>Carbon</i> , 2022, 197, 435-443.	5.4	7
4288	Role of Surface Adsorbates on the Photoresponse of (MO)CVD-Grown Graphene-MoS ₂ Heterostructure Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 35184-35193.	4.0	7
4289	Mechanical Reinforcement in Nylon 6 Nanocomposite Fiber Incorporated with Dopamine Reduced Graphene Oxide. <i>Materials</i> , 2022, 15, 5095.	1.3	4
4290	Interfacial chemical vapor deposition of wrinkle-free bilayer graphene on dielectric substrates. <i>Applied Surface Science</i> , 2022, 602, 154367.	3.1	3
4291	Edge Modes of MoS ₂ via Indirect Double Resonant Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 0, , .	1.5	1
4292	Plasma jet printing induced high-capacity graphite anodes for sustainable recycling of lithium-ion batteries. <i>Carbon</i> , 2022, 198, 401-410.	5.4	13
4293	Cost effective, metal free reduced graphene oxide sheet for high performance electrochemical capacitor application. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 284, 115852.	1.7	4
4294	Effect of Staged Methane Flow on Graphene Quality of Low-Pressure Chemical Vapor Deposition. <i>Key Engineering Materials</i> , 0, 927, 138-142.	0.4	1
4295	Homogeneous Spatial Distribution of Deuterium Chemisorbed on Free-Standing Graphene. <i>Nanomaterials</i> , 2022, 12, 2613.	1.9	4
4296	Nanoporous Carbon Electrodes Derived from Coffee Side Streams for Supercapacitors in Aqueous Electrolytes. <i>Nanomaterials</i> , 2022, 12, 2647.	1.9	4
4297	Review on conventional preparation, properties of graphene and growth of graphene from fruit wastes. <i>Brazilian Journal of Chemical Engineering</i> , 2023, 40, 343-358.	0.7	1
4298	Optimizing the structure and molecular weight of polymers for graphene dispersants. <i>Polymer Journal</i> , 2022, 54, 1377-1381.	1.3	1

#	ARTICLE	IF	CITATIONS
4299	Optimizing PMMA solutions to suppress contamination in the transfer of CVD graphene for batch production. <i>Beilstein Journal of Nanotechnology</i> , 0, 13, 796-806.	1.5	5
4300	Highly Sensitive Electrochemical Detection of Azithromycin with Graphene-Modified Electrode. <i>Sensors</i> , 2022, 22, 6181.	2.1	3
4301	Raman scattering with infrared excitation resonant with the MoSe_2 indirect band gap. <i>Physical Review B</i> , 2022, 106, .		
4302	A Machine Learning-Enhanced Simultaneous and Multimodal Sensor Based on Moist Electric Powered Graphene Oxide. <i>Advanced Materials</i> , 2022, 34, .	11.1	28
4303	Stacked Laser-Induced Graphene Joule Heaters for Desalination and Water Recycling. <i>ACS Applied Nano Materials</i> , 2022, 5, 10991-11002.	2.4	14
4304	A review of top-down and bottom-up synthesis methods for the production of graphene, graphene oxide and reduced graphene oxide. <i>Journal of Materials Science</i> , 2022, 57, 14543-14578.	1.7	35
4305	Electrophoretic Deposition of graphene coating as a corrosion inhibitor for copper in NaCl solution. <i>Results in Surfaces and Interfaces</i> , 2022, 8, 100077.	1.0	2
4306	Carbon-Shielded Single-Atom Alloy Material Family for Multi-Functional Electrocatalysis. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	20
4307	Open-Bandgap Graphene-Based Field-Effect Transistor Using Oligo(phenyleneethynylene) Interfacial Chemistry. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	6
4308	Synthesis and Characterization of Silver and Graphene Nanocomposites and Their Antimicrobial and Photocatalytic Potentials. <i>Molecules</i> , 2022, 27, 5184.	1.7	14
4309	Gate-Tunable Helical Currents in Commensurate Topological Insulator/Graphene Heterostructures. <i>ACS Nano</i> , 2022, 16, 12338-12344.	7.3	1
4310	Trapping lithium polysulfides within the cathode by doping MnO ₂ nanorods into an exfoliated graphite/sulfur composite for lithium-sulfur batteries. <i>Carbon Letters</i> , 0, , .	3.3	3
4311	Carbon Nanodots from an In Silico Perspective. <i>Chemical Reviews</i> , 2022, 122, 13709-13799.	23.0	45
4312	Infrared and Raman spectroscopic analysis of functionalized graphene. , 2023, 2, .		1
4313	Open-Bandgap Graphene-Based Field-Effect Transistor Using Oligo(phenyleneethynylene) Interfacial Chemistry. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	7
4314	Tailoring the electrochemical performance of PEDOT : PSS via incorporation of spray dryer processed graphene oxide. <i>International Journal of Energy Research</i> , 2022, 46, 18711-18726.	2.2	6
4315	Study on the microstructure of the symbiosis of coal-based graphene and coal-based graphene quantum dots: preparation and characterization. <i>Nanotechnology</i> , 2022, 33, 455702.	1.3	1
4316	Time-evolved doping of graphene on an oxidized polycrystalline Cu surface. <i>Carbon</i> , 2022, 199, 279-287.	5.4	1

#	ARTICLE	IF	CITATIONS
4317	Microstructure graphitization evolution and multi-scale, multi-mechanism synergistic enhancement of ultra-high strength carbon-graphite materials. <i>Diamond and Related Materials</i> , 2022, 128, 109271.	1.8	1
4318	Multifunctional RGO-based films with "brick-slurry" structure: High-efficiency electromagnetic shielding performance, high strength and excellent environmental adaptability. <i>Carbon</i> , 2022, 200, 156-165.	5.4	14
4319	Performance of graphene/P-InP Schottky diode enhanced by silver nanoparticles. <i>Sensors and Actuators A: Physical</i> , 2022, 346, 113862.	2.0	1
4320	Surfactant assisted exfoliation of high purity graphene in aqueous solution as a nanofluid using kitchen blender: Influence on dispersion, thermal conductivity and rheological properties. <i>Advanced Powder Technology</i> , 2022, 33, 103767.	2.0	2
4321	Shear exfoliated few-layer graphene and cellulose nanocrystal composite as biocompatible anode with efficient charge transfer. <i>Carbon Trends</i> , 2022, 9, 100210.	1.4	5
4322	In-situ polymerization of eco-friendly waterborne polyurethane/polydopamine-coated graphene oxide composites towards enhanced mechanical properties and UV resistance. <i>Journal of Cleaner Production</i> , 2022, 373, 133942.	4.6	12
4323	Laser-induced graphene based visible and near-infrared radiation detector. <i>Optical Materials</i> , 2022, 133, 112957.	1.7	3
4324	Graphene nanoplatelets reinforced NiCu composite manufactured by laser melting deposition. <i>Journal of Alloys and Compounds</i> , 2022, 929, 167261.	2.8	2
4325	Thermal transport in turbostratic multilayer graphene. <i>Carbon</i> , 2023, 201, 120-128.	5.4	10
4326	Small-sized Ni nanoparticles embedded nickel phyllosilicate as a metal-acid bifunctional zeolite catalyst for cooperatively boosting CO ₂ -CH ₄ reforming. <i>Fuel</i> , 2023, 331, 125957.	3.4	19
4327	Tuning electrical coupling in bilayer graphene. <i>Carbon</i> , 2023, 201, 529-534.	5.4	1
4328	Attractive curves: the role of deformations in adhesion and friction on graphene. <i>Nanoscale Advances</i> , 2022, 4, 4175-4184.	2.2	2
4329	Magnetic Carbon Nanocomposites Via the Graphitization of Glucose and Their Induction Heating. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
4330	Incorporation of Al ₂ O ₃ , GO, and Al ₂ O ₃ @GO nanoparticles into water-borne epoxy coatings: abrasion and corrosion resistance. <i>RSC Advances</i> , 2022, 12, 24804-24820.	1.7	6
4331	A novel Si@C structure interwoven with Si composite nanowires catalyzed by Cu nano particles and its performances as an anode for LIBs. <i>Sustainable Energy and Fuels</i> , 2022, 6, 4991-4999.	2.5	3
4332	Monolayer and bilayer graphene. , 2024, , 602-622.		0
4333	Ion accumulation-induced capacitance elevation in a microporous graphene-based supercapacitor. <i>RSC Advances</i> , 2022, 12, 27082-27093.	1.7	10
4334	Chitosan-based oxygen-doped activated carbon/graphene composite for flexible supercapacitors. <i>RSC Advances</i> , 2022, 12, 25807-25814.	1.7	8

#	ARTICLE	IF	CITATIONS
4335	Growth of turbostratic stacked graphene using waste ferric chloride solution as a feedstock. RSC Advances, 2022, 12, 25048-25053.	1.7	3
4336	From 0D to 2D: N-doped carbon nanosheets for detection of alcohol-based chemical vapours. RSC Advances, 2022, 12, 21440-21451.	1.7	4
4337	Property-Structure Relationship on the Mechanics of Carbon Nanotube Yarns. Materials Science Forum, 0, 1069, 69-75.	0.3	0
4338	Flash Nitrogen-Doped Graphene for High-Rate Supercapacitors. , 2022, 4, 1863-1871.		23
4339	Highlighting the Implantation of Metal Particles into Hollow Cavity Yeast-Based Carbon for Improved Electrochemical Performance of Lithium-Sulfur Batteries. Catalysts, 2022, 12, 951.	1.6	3
4340	A Novel Sustainable Process for Multilayer Graphene Synthesis Using CO ₂ from Ambient Air. Materials, 2022, 15, 5894.	1.3	1
4341	Steering the Topological Defects in Amorphous Laser-Induced Graphene for Direct Nitrate-to-Ammonia Electroreduction. ACS Catalysis, 2022, 12, 11639-11650.	5.5	33
4342	Fabrication of multi-layer graphene by repeated transfer. AIP Advances, 2022, 12, 095110.	0.6	0
4343	Graphene Chemo-Phononics for Biosensor Applications: An Interfacial Raman Transducer. Advanced Materials Interfaces, 2022, 9, .	1.9	2
4344	Towards ballistic transport CVD graphene by controlled removal of polymer residues. Nanotechnology, 2022, 33, 495704.	1.3	0
4345	Identification of Graphene Dispersion Agents through Molecular Fingerprints. ACS Nano, 2022, 16, 16109-16117.	7.3	2
4346	In Situ Measurements of Strain Evolution in Graphene/Boron Nitride Heterostructures Using a Non-Destructive Raman Spectroscopy Approach. Nanomaterials, 2022, 12, 3060.	1.9	0
4347	Graphene Absorption Enhanced by Quasi-Bound-State-in-Continuum in Long-Wavelength Plasmonic-Photonic System. Advanced Optical Materials, 2022, 10, .	3.6	4
4348	Synthesis of phosphonated graphene oxide by electrochemical exfoliation to enhance the performance and durability of high-temperature proton exchange membrane fuel cells. Journal of Energy Chemistry, 2023, 76, 448-458.	7.1	10
4349	A Comprehensive Review on Graphene Nanoparticles: Preparation, Properties, and Applications. Sustainability, 2022, 14, 12336.	1.6	10
4350	Enhanced room-temperature reduction of graphene oxide using Al as a supplement in the liquid phase HI. Ceramics International, 2022, 48, 35896-35905.	2.3	1
4351	Carbon dots derived from frankincense soot for ratiometric and colorimetric detection of lead (II). Nanotechnology, 2022, 33, 495706.	1.3	5
4352	Thermo-Mechanical Properties of Carbon Nanotube Yarns With High Energy Dissipation Capabilities. Journal of Engineering Materials and Technology, Transactions of the ASME, 2023, 145, .	0.8	4

#	ARTICLE	IF	CITATIONS
4353	Crecimiento de estructuras de carbono mediante deposición química en fase de vapor a baja presión. Tecnología En Marcha, 0, , .	0.1	0
4354	Toward ultrahigh thermal conductivity graphene films. 2D Materials, 2023, 10, 014002.	2.0	4
4355	Chemical vapor deposited graphene-based quasi-solid-state ultrathin and flexible sodium-ion supercapacitor. Journal of Electrochemical Science and Engineering, 0, , .	1.6	1
4356	Study of seawater effect on the mechanical and thermomechanical properties of hybrid multiwall carbon nanotube/graphene nanoplatelet/glass fiber/epoxy laminates. Polymer Composites, 0, , .	2.3	3
4357	Multi-Interfaces Regulated Polyaniline/Nano-Fe ₃ O ₄ /Graphene Ternary Hybrids for Ultra-Broadband Electromagnetic Absorption. Macromolecular Materials and Engineering, 2022, 307, .	1.7	2
4358	From defects to charge conjugation: a combined approach to analyze sulfur-assisted exfoliation of graphite for its application in a lithium-sulfur battery cathode. Journal of Materials Science: Materials in Electronics, 0, , .	1.1	0
4359	Broad-Spectrum Antibacterial Activity of Synthesized Carbon Nanodots from α -D-Glucose. ACS Applied Bio Materials, 2022, 5, 4860-4872.	2.3	9
4360	Coffee Waste-Derived Nanoporous Carbons for Hydrogen Storage. ACS Applied Energy Materials, 2022, 5, 10915-10926.	2.5	7
4361	Observable consequences of self-irradiation damage in a MIMAS-type MOX nuclear fuel as analyzed by x-ray diffraction, electron microprobe analysis, and Raman imaging. A possible methodological approach. Journal of Applied Physics, 2022, 132, .	1.1	4
4362	Electrochemical exfoliation of graphite from pencil lead to graphene sheets: a feasible and cost-effective strategy to improve ciprofloxacin sensing. Journal of Applied Electrochemistry, 2023, 53, 39-48.	1.5	3
4363	Hexagonal boron nitride as the foaming agent to improve the flexibility of polyimide-derived graphite films with high thermal conductivity. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	0
4364	Influences of Relative Humidity and Dwell Time on Silica/Graphene Adhesion Force of a Cone-Plane Contact. Langmuir, 2022, 38, 12432-12440.	1.6	3
4365	Substrate effect on phonon in graphene layers. Carbon Letters, 0, , .	3.3	1
4366	Bioinspired sandwich-structured pressure sensors based on graphene oxide/hydroxyl functionalized carbon nanotubes/bovine serum albumin nanocomposites for wearable textile electronics. Composites Part A: Applied Science and Manufacturing, 2022, 163, 107240.	3.8	47
4367	Scalable production of electrochemically exfoliated graphene by an extensible electrochemical reactor with encapsulated anode and dual cathodes. Applied Surface Science, 2023, 608, 155211.	3.1	3
4368	Study on the effect of graphene/Fe ₃ O ₄ film on friction and wear performance under water lubrication. Diamond and Related Materials, 2022, 130, 109429.	1.8	2
4369	Experimental Observation of ABCB Stacked Tetralayer Graphene. ACS Nano, 2022, 16, 16617-16623.	7.3	13
4370	Effects of electrophoretic deposited graphene coating thickness on the corrosion and wear behaviors of commercially pure titanium. Surface and Coatings Technology, 2022, 450, 128946.	2.2	6

#	ARTICLE	IF	CITATIONS
4371	Nanoscale electrical characterization of graphene-based materials by atomic force microscopy. <i>Journal of Materials Research</i> , 2022, 37, 3319-3339.	1.2	3
4372	Activated carbon derived from fennel flower waste as high-efficient sustainable materials for improving cycle stability and capacitance performance of electroactive nanocomposite of conductive polymer. <i>Journal of Energy Storage</i> , 2022, 55, 105793.	3.9	6
4373	Temperature as a key parameter for graphene sono-exfoliation in water. <i>Ultrasonics Sonochemistry</i> , 2022, 90, 106187.	3.8	6
4374	Liquid phase high shear exfoliated few-layered graphene for highly sensitive ascorbic acid electrochemical sensors. <i>Materials Advances</i> , 2022, 3, 9019-9029.	2.6	2
4375	Parametric investigation on laser interaction with polyimide for graphene synthesis towards flexible devices. <i>Journal Physics D: Applied Physics</i> , 2023, 56, 015305.	1.3	2
4376	Biocompatible Parylene-C Laser-Induced Graphene Electrodes for Microsupercapacitor Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 46427-46438.	4.0	14
4377	Biochar-derived activated carbons: a comprehensive assessment of kinetic and isotherm modeling for adsorptive removal of methylene blue dye contaminants. <i>International Journal of Environmental Science and Technology</i> , 2023, 20, 10325-10344.	1.8	2
4378	Recent development of graphene-based composite for multifunctional applications: energy, environmental and biomedical sciences. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2024, 49, 72-140.	6.8	15
4379	Vertical Graphene-Based Biosensor for Tumor Cell Dielectric Signature Evaluation. <i>Micromachines</i> , 2022, 13, 1671.	1.4	5
4380	Influence of Graphene Sheets on Compaction and Sintering Properties of Nano-Zirconia Ceramics. <i>Materials</i> , 2022, 15, 7342.	1.3	1
4381	Effect of ball milling time on microstructure and mechanical properties of graphene nanoplates and TiBw reinforced Ti-6Al-4V alloy composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 861, 144240.	2.6	14
4382	Highly Dispersed NiO Clusters Induced Electron Delocalization of Ni ₂ Ni ₃ C Catalysts for Enhanced CO ₂ Electroreduction. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	25
4383	Production and characterization of spark plasma sintered (Ti,Nb)B ₂ solid solutions with graphene nanoplatelets and hexagonal boron nitride. <i>Ceramics International</i> , 2023, 49, 5582-5594.	2.3	0
4384	Plasma Functionalized CNT/Cyanate Ester Nanocomposites for Aerospace Structural Applications. <i>ChemistrySelect</i> , 2022, 7, .	0.7	3
4385	Nanographene laser-pyrolyzed paper electrodes for the impedimetric detection of d-glucose via a molecularly imprinted polymer. <i>Monatshefte für Chemie</i> , 2022, 153, 1129-1135.	0.9	1
4386	Laser-Induced Graphene from SU-8 Photoresist: Toward Functional Micromolding. , 2023, 1, 222-228.		4
4387	Nanoscale mechanics of metal-coated graphene nanocomposite powders. <i>Materials Today Communications</i> , 2022, 33, 104731.	0.9	1
4388	Single process of pulsed wire discharge for defect healing and reduction of graphene oxide. <i>Carbon</i> , 2023, 201, 1184-1192.	5.4	3

#	ARTICLE	IF	CITATIONS
4389	Optimization of multilayer graphene-based gas sensors by ultraviolet photoactivation. Applied Surface Science, 2023, 610, 155393.	3.1	8
4390	Highly Sensitive MoS ₂ Photodetector Based on Charge Integration and Field-Coupled Effect. IEEE Transactions on Electron Devices, 2022, 69, 6884-6889.	1.6	2
4391	Localized Surface Plasmon Coupling Nanorods With Graphene as a Transparent Conductive Electrode for Micro Light-Emitting Diodes. IEEE Electron Device Letters, 2022, 43, 2133-2136.	2.2	1
4392	Optical saturable absorption of conformal graphene directly synthesized on nonlinear device surfaces. Applied Surface Science, 2023, 611, 155641.	3.1	3
4393	Synthesis and analysis of flakes graphene oxide. , 2022, 14, 107-114.		13
4394	Transfer-Free CVD Growth of High-Quality Wafer-Scale Graphene at 300 Å°C for Device Mass Fabrication. ACS Applied Materials & Interfaces, 2022, 14, 53174-53182.	4.0	4
4395	Few-Layer Graphene as an Efficient Buffer for GaN/AlN Epitaxy on a SiO ₂ /Si Substrate: A Joint Experimental and Theoretical Study. Applied Sciences (Switzerland), 2022, 12, 11516.	1.3	1
4396	Thickness Dependency of Battery Anode Properties in Multilayer Graphene. ACS Applied Materials & Interfaces, 2022, 14, 54670-54675.	4.0	0
4397	Characterization strategy for graphene oxide and molybdenum disulfide: Proceedings based on the ISO/TS 21356-1:2021 standard. FlatChem, 2022, 36, 100448.	2.8	3
4398	Elemental carbon and hydrogen concentrations as the main factors in gas-phase graphene synthesis: Quantitative fourier-transform infrared spectroscopy study. Carbon, 2023, 202, 47-60.	5.4	2
4399	Stacking order reduction in multilayer graphene by inserting nanospacers. Journal of Applied Physics, 2022, 132, 174305.	1.1	2
4400	Highly thermal conductive graphene/carbon nanotubes films with controllable thickness as thermal management materials. Ceramics International, 2023, 49, 8847-8855.	2.3	6
4401	Using polycyclic aromatic hydrocarbons for graphene growth on Cu(111) under ultra-high vacuum. Applied Physics Letters, 2022, 121, .	1.5	2
4402	Functionalized graphene modified styrene-divinylbenzene copolymer as a superhydrophobic catalyst carrier for hydrogen-water liquid phase catalytic exchange. International Journal of Hydrogen Energy, 2023, 48, 3520-3533.	3.8	3
4403	Impact of the Density and Oxygen Concentration of Initial Amorphous Carbon on Layer Exchange of Multilayer Graphene. Crystal Growth and Design, 2022, 22, 7564-7568.	1.4	0
4404	Fabrication of free standing graphene oxide membranes for efficient adsorptive removal of cationic dyes. Journal of Molecular Liquids, 2022, 368, 120787.	2.3	1
4405	Fabrication of high-performance symmetric supercapacitor of graphene electrodes by tuning their electrochemical properties. Journal of Energy Storage, 2022, 56, 105919.	3.9	7
4406	Unveiling the role of surface functional groups for the design of nickel manganese/reduced graphene oxide based composite electrode material for high performance asymmetric supercapacitor. Journal of Energy Storage, 2022, 56, 105994.	3.9	1

#	ARTICLE	IF	CITATIONS
4407	Nondestructive thickness determination of polymers based on optical contrast of graphene. Applied Nanoscience (Switzerland), 0, , .	1.6	0
4408	The surfactants mediated electropolymerized poly(aniline) (PANI)-reduced graphene oxide (rGO) composite counter electrode for dye-sensitized solar cell. Journal of Physics and Chemistry of Solids, 2023, 173, 111121.	1.9	5
4409	Characterization and optimization of 3D-printed, flexible vibration strain sensors with triply periodic minimal surfaces. Additive Manufacturing, 2023, 61, 103274.	1.7	1
4410	Conversion of novel tannery sludge-derived biochar/TiO ₂ nanocomposite for efficient removal of Cr (VI) under UV light: photocatalytic performance and mechanism insight. Environmental Science and Pollution Research, 0, , .	2.7	5
4411	Biomimetic synthesis of iron oxide nanoparticles from Bacillus megaterium to be used in hyperthermia therapy. AMB Express, 2022, 12, .	1.4	7
4412	Highly enhanced thermal conductance across metal/graphene/SiO ₂ interface by ion bombardment. International Communications in Heat and Mass Transfer, 2023, 140, 106560.	2.9	1
4413	Weathering resistance (UV-shielding) improvement of a polyurethane automotive clear-coating applying metal-organic framework (MOF) modified GO nano-flakes (GO-ZIF-7). Polymer Degradation and Stability, 2023, 207, 110211.	2.7	7
4414	Suppression of secondary electron emission of oxygen free copper by two-step electrodeposition of rGO/Cu composite coating. Applied Surface Science, 2023, 611, 155789.	3.1	0
4415	Lignin-derived bimetallic platinum group metal-free oxygen reduction reaction electrocatalysts for acid and alkaline fuel cells. Journal of Power Sources, 2023, 556, 232416.	4.0	18
4416	Interfacial damage of bilayer graphene under shear deformation: Theory, experiment, and simulation. Journal of the Mechanics and Physics of Solids, 2023, 171, 105154.	2.3	1
4417	Amino-functionalized graphene oxide membranes for efficient separation of Sr ²⁺ ions. Journal of Water Process Engineering, 2023, 51, 103329.	2.6	2
4418	Bio-inspired adenine-benzoquinone-adenine pillar grafted graphene oxide materials with excellent cycle stability for high energy and power density supercapacitor applications. Journal of Energy Storage, 2023, 58, 106399.	3.9	4
4419	Graphene/polyurethane nanocomposite coatings “Enhancing the mechanical properties and environmental resistance of natural fibers for masonry retrofitting. Composites Part A: Applied Science and Manufacturing, 2023, 166, 107379.	3.8	7
4420	Electro-modulation and surface photovoltage spectroscopy with semi-transparent graphene electrodes. Applied Surface Science, 2023, 613, 156020.	3.1	1
4421	Ti ₃ C ₂ T _x MXene@NiFe layered double hydroxide derived multiple interfacial composites with efficient microwave absorption. Journal of Alloys and Compounds, 2023, 936, 168162.	2.8	21
4422	Use of Raman Spectroscopy to Qualify Carbon Materials. Spectroscopy (Santa Monica), 2022, , 11-15,50.	0.3	5
4423	High Voltage Plasma Convert Coconut Shell Charcoal To Few Layer Wrinkled Graphene (FLwG). , 2022, , .		0
4424	Graphene-enhanced sulfur cathode with high interface stability in Li-S batteries. Journal of Physics: Conference Series, 2022, 2382, 012005.	0.3	0

#	ARTICLE	IF	CITATIONS
4425	Enhanced Acetaminophen Electrochemical Sensing Based on Nitrogen-Doped Graphene. <i>International Journal of Molecular Sciences</i> , 2022, 23, 14866.	1.8	5
4426	Laser-Induced Graphene Enabled Additive Manufacturing of Multifunctional 3D Architectures with Freeform Structures. <i>Advanced Science</i> , 2023, 10, .	5.6	12
4427	Facilely preparing lignin-derived graphene-ferroferic oxide nanocomposites by flash Joule heating method. <i>Research on Chemical Intermediates</i> , 2023, 49, 589-601.	1.3	5
4428	Microstructural Evaluation of Graphene-Reinforced Nickel Matrix Ni-P-Gr Coating on Ti-6Al-4V Alloy by the Electroless Coating Method. <i>Coatings</i> , 2022, 12, 1827.	1.2	2
4429	Electrochemical exfoliation and characterizations of low-defect, large-scale thermally reduced graphene oxide via pencil core. <i>International Journal of Modern Physics B</i> , 2023, 37, .	1.0	1
4430	High-Capacity Rechargeable Li/Cl ₂ Batteries with Graphite Positive Electrodes. <i>Journal of the American Chemical Society</i> , 2022, 144, 22505-22513.	6.6	21
4431	Metal Oxide/Graphene/Metal Sandwich Structure for Efficient Photoelectrochemical Water Oxidation. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	5
4432	All Two-dimensional Integration-Type Optoelectronic Synapse Mimicking Visual Attention Mechanism for Multi-Target Recognition. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	13
4433	Disentangling Light-Induced Charge Transfer, Heating, and Strain Effects in WS ₂ /Graphene Heterostructures. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	0
4434	Chemical vapour deposited graphene-mediated enhanced SERS performance in silver nanostructures. <i>Materials Science and Technology</i> , 2023, 39, 933-940.	0.8	1
4435	Effect of Electron and Proton Irradiation on Structural and Electronic Properties of Carbon Nanowalls. <i>ACS Omega</i> , 2022, 7, 48467-48475.	1.6	3
4436	Microstructures, mechanical and corrosion properties of graphene nanoplatelet-reinforced zinc matrix composites for implant applications. <i>Acta Biomaterialia</i> , 2023, 157, 701-719.	4.1	8
4437	Defect Healing in Graphene via Rapid Thermal Annealing with Polymeric "Nanobandage". <i>Small</i> , 2023, 19, .	5.2	3
4438	Production of Graphene Stably Dispersible in Ethanol by Microwave Reaction. <i>Colloids and Interfaces</i> , 2022, 6, 75.	0.9	0
4439	Electrical and Optoelectrical Dual-Modulation in Perovskite-Based Vertical Field-Effect Transistors. <i>ACS Photonics</i> , 2023, 10, 2280-2289.	3.2	2
4440	Charge to spin conversion in van der Waals metal NbSe ₂ . <i>Applied Physics Letters</i> , 2022, 121, .	1.5	4
4441	Investigation of microstructures and properties of graphene reinforced 20CrMnTi materials. <i>Journal of Physics: Conference Series</i> , 2022, 2383, 012112.	0.3	0
4442	A Novel High-Temperature Pressure Sensor Based on Graphene Coated by Si ₃ N ₄ . <i>IEEE Sensors Journal</i> , 2023, 23, 2008-2013.	2.4	5

#	ARTICLE	IF	CITATIONS
4443	Large enhancement of thermal conductivity of aluminum-reduced graphene oxide composites prepared by a single-step method. Oxford Open Materials Science, 2023, 3, .	0.5	1
4444	Doped graphene characterized via Raman spectroscopy and magneto-transport measurements. Journal of Applied Physics, 2023, 133, 025304.	1.1	1
4445	Probing Defects and Spin-Phonon Coupling in CrSBr via Resonant Raman Scattering. Advanced Functional Materials, 2023, 33, .	7.8	10
4446	Helicity-resolved Raman scattering of MoS2 bulk crystal. Optics Letters, 0, , .	1.7	0
4447	Phonon polarization deformation in graphene induced by substrate coupling strengths. Applied Physics Letters, 2023, 122, 032201.	1.5	1
4448	Spray-coating of graphene nanoplatelets on sisal fibers and its influence on electromechanical behavior of biocomposite laminates. Journal of Reinforced Plastics and Composites, 2024, 43, 3-15.	1.6	3
4449	MXene/Fluoropolymer-Derived Laser-Carbonaceous All-Fibrous Nanohybrid Patch for Soft Wearable Bioelectronics. Advanced Functional Materials, 2023, 33, .	7.8	8
4450	General outlook of the elaboration of nitrogen doped graphenic materials from the reaction between an amino alcohol and metallic sodium. Materials Today Chemistry, 2023, 27, 101343.	1.7	0
4451	N-doped carbon nanotubes with high amount of graphitic nitrogen as an excellent electrocatalyst for water splitting in alkaline solution. Journal of Electroanalytical Chemistry, 2023, 931, 117160.	1.9	3
4452	Multifunctional steel surface through the treatment with graphene and h-BN. Tribology International, 2023, 180, 108264.	3.0	5
4453	Graphene nano-electromechanical mass sensor with high resolution at room temperature. IScience, 2023, 26, 105958.	1.9	6
4454	Fabrication of efficient aluminium/graphene nanosheets (Al-GNP) composite by powder metallurgy for strength applications. Journal of Materials Research and Technology, 2023, 22, 3402-3412.	2.6	15
4455	Calculation of the degree of crystallinity of HDPE/GNPs nanocomposites by using various experimental techniques: a comparative study. Journal of Materials Science, 2023, 58, 1621-1639.	1.7	29
4456	Deterministic organic functionalization of monolayer graphene via high resolution surface engineering. Journal of Materials Chemistry C, 2023, 11, 2630-2639.	2.7	4
4457	Bidirectional photoresponse of graphdiyne/graphene heterojunction detector for optical logic gates. Applied Physics Letters, 2023, 122, .	1.5	1
4458	Identification and quantification of the distributed capacitance and ionic resistance in carbon-based supercapacitors using electrochemical techniques and the analysis of the charge-storage dynamics. Journal of Electroanalytical Chemistry, 2023, 929, 117140.	1.9	1
4459	Development of Tailored Graphene Nanoparticles: Preparation, Sorting and Structure Assessment by Complementary Techniques. Molecules, 2023, 28, 565.	1.7	1
4460	Effects of frequency on ultrasonic nitridation of graphite for preparing of nitrogen-doped graphene. Diamond and Related Materials, 2023, 132, 109686.	1.8	0

#	ARTICLE	IF	CITATIONS
4461	Graphene/Al ₂ O ₃ /InGaAs-based nanostructures for near-infrared photodetectors passivated by InP layer. <i>Optical Materials</i> , 2023, 136, 113408.	1.7	0
4462	Production of graphitic carbons from plant-based SiC/C nanocomposites for Li-ion batteries. <i>Materials Chemistry and Physics</i> , 2023, 296, 127286.	2.0	3
4463	High-performance hybrid graphene-perovskite photodetector based on organic nano carbon source-induced graphene interdigital electrode film on quartz substrate. <i>Carbon</i> , 2023, 204, 547-554.	5.4	4
4464	An eco-friendly solution for liquid phase exfoliation of graphite under optimised ultrasonication conditions. <i>Carbon</i> , 2023, 204, 434-446.	5.4	21
4465	The effect of metal dissolution on carbon production by high-temperature molten salt electrolysis. <i>Journal of CO₂ Utilization</i> , 2023, 69, 102390.	3.3	5
4466	Laser-scribing fabrication of a disposable electrochemical device for forensic detection of crime facilitating drugs in beverage samples. <i>Talanta</i> , 2023, 255, 124214.	2.9	5
4467	Boosting hole migration through oxygen species-functionalized graphene interlayer for organic-based optoelectronic devices with enhanced efficiency and long-term durability. <i>Applied Surface Science</i> , 2023, 615, 156383.	3.1	0
4468	Synthesis of N-Doped Few-Layer Graphene through Shock-Induced Carbon Fixation from CO ₂ . <i>Nanomaterials</i> , 2023, 13, 109.	1.9	0
4469	SiO ₂ Passivated Graphene Saturable Absorber Mirrors for Ultrashort Pulse Generation. <i>Nanomaterials</i> , 2023, 13, 111.	1.9	3
4470	Electron transition manipulation under graphene-mediated plasmonic engineering nanostructure. <i>Nano Research</i> , 2023, 16, 5376-5382.	5.8	0
4471	An On-Chip Microscale Vacuum Chamber with High Sealing Performance Using Graphene as Lateral Feedthrough. <i>Micromachines</i> , 2023, 14, 84.	1.4	0
4472	Polymer Electrolyte/Sulfur Double-Shelled Anisotropic Reduced Graphene Oxide Lamellar Scaffold Enables Stable and High-Loading Cathode for Quasi-Solid-State Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2023, 10, .	5.6	4
4473	Impact of Graphene Monolayer on the Performance of Non-Conventional Silicon Heterojunction Solar Cells with MoO _x Hole-Selective Contact. <i>Materials</i> , 2023, 16, 1223.	1.3	0
4474	Synthesis and Functionalization of Graphene Materials for Biomedical Applications: Recent Advances, Challenges, and Perspectives. <i>Advanced Science</i> , 2023, 10, .	5.6	15
4475	Growth of Low-Defect Nitrogen-Doped Graphene Film Using Condensation-Assisted Chemical Vapor Deposition Method. <i>Materials</i> , 2023, 16, 1120.	1.3	1
4476	Characterization of 2D transition metal dichalcogenides. , 2023, , 97-139.		1
4477	Phosphorus-modified cobalt single-atom catalysts loaded on crosslinked carbon nanosheets for efficient alkaline hydrogen evolution reaction. <i>Nanoscale</i> , 2023, 15, 3550-3559.	2.8	51
4478	Growth of High-Purity and High-Quality Turbostratic Graphene with Different Interlayer Spacings. <i>ACS Omega</i> , 2023, 8, 4010-4018.	1.6	4

#	ARTICLE	IF	CITATIONS
4479	Atomic-scale Molecular Engineering Tailoring Graphene Microlaminates to Tune Multifunctional Antennas. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	54
4480	Optical spectroscopy study of two-dimensional materials. , 2023, , 305-335.		0
4481	Effect of Polar Faces of SiC on the Epitaxial Growth of Graphene: Growth Mechanism and Its Implications for Structural and Electrical Properties. <i>Crystals</i> , 2023, 13, 189.	1.0	2
4482	A novel approach to fabricate layered RGO/Cu composites with excellent mechanical properties. <i>Journal of Alloys and Compounds</i> , 2023, 944, 169101.	2.8	1
4483	Synergistically enhancing the electrical conductivity of carbon fibre reinforced polymers by vertical graphene and silver nanowires. <i>Composites Part A: Applied Science and Manufacturing</i> , 2023, 168, 107463.	3.8	5
4484	Graphene-based nanomaterials for theranostic applications. , 2023, , 83-102.		0
4485	Low-Temperature Direct Growth of Nanocrystalline Multilayer Graphene on Silver with Long-Term Surface Passivation. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 9883-9891.	4.0	1
4486	Stable Graphene Membranes for Selective Ion Transport and Emerging Contaminants Removal in Water. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	2
4487	Reversible Tuning of Surface Properties of Graphene-like Material via Covalently Functionalized Hydrophobic Layer. <i>Crystals</i> , 2023, 13, 635.	1.0	1
4488	Rapid direct growth of graphene on single-crystalline diamond using nickel as catalyst. <i>Thin Solid Films</i> , 2023, 770, 139766.	0.8	3
4489	Microstructure and defect evolution of nuclear graphite under temperature-dependent ion irradiation. <i>Journal of Nuclear Materials</i> , 2023, 577, 154308.	1.3	4
4490	Microstructure and properties of graphene oxide reinforced copper-matrix composite foils fabricated by ultrasonic assisted electrodeposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2023, 872, 144995.	2.6	9
4491	Mechanics of reinforcement in a hybrid graphene and continuous glass fibre reinforced thermoplastic. <i>Composites Science and Technology</i> , 2023, 237, 110001.	3.8	4
4492	Fabrication of Cu-GO layered composites with enhanced thermal conductivity by ultrasonic spraying and electrodeposition. <i>Journal of Materials Research and Technology</i> , 2023, 24, 2442-2457.	2.6	2
4493	A self-disappear-mask for epitaxial lateral overgrowth of GaN films. <i>Journal of Crystal Growth</i> , 2023, 610, 127149.	0.7	1
4494	Nanoarchitectonics of SiC/multilayer graphene composite powders with wave absorbing properties. <i>Journal of Alloys and Compounds</i> , 2023, 947, 169454.	2.8	6
4495	Raman spectroscopy of carbon materials and their composites: Graphene, nanotubes and fibres. <i>Progress in Materials Science</i> , 2023, 135, 101089.	16.0	120
4496	Three-dimensional nitrogen-doped rGO-siloxene nanocomposite anode for Li-ion storage. <i>Applied Surface Science</i> , 2023, 624, 157099.	3.1	4

#	ARTICLE	IF	CITATIONS
4497	A comprehensive study about the influence of pore structures of carbon-based electrode materials on the charge-storage processes of water-in-salt based supercapacitors. <i>Journal of Energy Storage</i> , 2023, 62, 106858.	3.9	2
4498	Enhancement of Raman signal of monolayer graphene films using a single optical microsphere-assisted Raman microscopic technique. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2023, 297, 122736.	2.0	1
4499	Electrochemical behavior of matrix graphite in nitric acid by cyclic voltammetry. <i>Journal of Nuclear Materials</i> , 2023, 581, 154411.	1.3	1
4500	Magnetic carbon nanocomposites via the graphitization of glucose and their induction heating. <i>Journal of Alloys and Compounds</i> , 2023, 953, 170139.	2.8	1
4501	Evolution of the Raman spectra features of defective monolayer graphene in back-gate configuration: Experimental study. <i>Diamond and Related Materials</i> , 2023, 136, 109919.	1.8	1
4502	Thermally expanded graphite polyetherimide composite with superior electrical and thermal conductivity. <i>Materials Chemistry and Physics</i> , 2023, 298, 127404.	2.0	11
4503	Synthesis of Graphite-Encapsulated Ni Micro- and Nanoparticles Using Liquid-Phase Arc Discharge. <i>Energies</i> , 2023, 16, 1450.	1.6	8
4504	Thickness Determination of Ultrathin 2D Materials Empowered by Machine Learning Algorithms. <i>Laser and Photonics Reviews</i> , 2023, 17, .	4.4	3
4505	The Quest for Green Solvents for the Sustainable Production of Nanosheets of Two-Dimensional (2D) Materials, a Key Issue in the Roadmap for the Ecology Transition in the Flatland. <i>Molecules</i> , 2023, 28, 1484.	1.7	7
4506	Thickness-Dependent Raman Scattering from Thin-Film Systems. <i>Journal of Physical Chemistry C</i> , 2023, 127, 2995-3004.	1.5	1
4507	Synergistic Effects of Carbon Nanotube (CNT) and Reduced Graphene Oxide (RGO) on Mechanical and Thermal Properties of ZK61 Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 0, , .	1.5	1
4508	Effect of Laser Parameters on Laser-Induced Graphene Filter Fabrication and Its Performance for Desalination and Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 7899-7910.	4.0	15
4509	Mutual Self-Regulation of d-Electrons of Single Atoms and Adjacent Nanoparticles for Bifunctional Oxygen Electrocatalysis and Rechargeable Zinc-Air Batteries. <i>Nano-Micro Letters</i> , 2023, 15, .	14.4	34
4510	High-quality GaN grown on nitrogen-doped monolayer graphene without an intermediate layer. <i>Science China Materials</i> , 0, , .	3.5	0
4511	Peripherally and non-peripherally carboxylic acid substituted Cu(<i>phthalocyanine</i> /reduced graphene oxide nanohybrids for hydrogen evolution reaction catalysts. <i>Molecular Systems Design and Engineering</i> , 2023, 8, 810-821.	1.7	7
4512	Subnanometric Stacking of Two-Dimensional Nanomaterials: Insights from the Nanotexture Evolution of Dense Reduced Graphene Oxide Membranes. <i>ACS Nano</i> , 2023, 17, 5072-5082.	7.3	7
4513	Synthesis of high-quality graphene by electrochemical anodic and cathodic co-exfoliation method. <i>Chemical Engineering Journal</i> , 2023, 461, 141985.	6.6	4
4514	Predicting the Level of Background Current Noise in Graphene Biosensor through a Non-Covalent Functionalization Process. <i>Crystals</i> , 2023, 13, 359.	1.0	1

#	ARTICLE	IF	CITATIONS
4515	Injectable hybrid hydrogels physically crosslinked based on carrageenan and green graphene for tissue repair. <i>International Journal of Biological Macromolecules</i> , 2023, 235, 123777.	3.6	3
4516	Holey Ti ₃ C ₂ MXene-Derived Anode Enables Boosted Kinetics in Lithium-Ion Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 12161-12170.	4.0	12
4517	Multi-componential metal intercalated graphite hybrids synthesized by co-intercalation polymerization towards high-efficient microwave absorptions. <i>Nano Research</i> , 2023, 16, 6369-6379.	5.8	8
4518	Effects of graphene, alumina, and their hybrid on dynamic mechanical behavior of epoxy-based nanocomposites. <i>Journal of Composite Materials</i> , 2023, 57, 1557-1570.	1.2	2
4519	Quick identification of ABC trilayer graphene at nanoscale resolution via a near-field optical route. <i>Materials Futures</i> , 2023, 2, 015301.	3.1	1
4520	Transfer-free graphene passivation of sub 100Ånm thin Pt and Pt-Cu electrodes for memristive devices. <i>SN Applied Sciences</i> , 2023, 5, .	1.5	0
4521	Iron Nanoparticles to Catalyze Graphitization of Cellulose for Energy Storage Applications. <i>ACS Applied Nano Materials</i> , 2023, 6, 3549-3559.	2.4	4
4522	Aging impact on morphological and electrochemical performance of MoSe ₂ composite for supercapacitor application. <i>Ceramics International</i> , 2023, 49, 18281-18295.	2.3	8
4523	Plasmon-Enhanced Raman Scattering by Multilayered Graphene at the Micro- and Nanoscale: SERS and TERS Analysis. <i>Journal of Physical Chemistry C</i> , 2023, 127, 5013-5020.	1.5	2
4524	Preceramic Polymers Grafted to SiO ₂ Nanoparticles via Metal Coordination Pyrolyzing with High Ceramic Yields: Implications for Aerospace Propulsion and Biomedical Coatings. <i>ACS Applied Nano Materials</i> , 2023, 6, 3661-3674.	2.4	5
4525	A review of fibrous graphite materials: graphite whiskers, columnar carbons with a cone-shaped top, and needle- and rods-like polyhedral crystals. <i>New Carbon Materials</i> , 2023, 38, 18-35.	2.9	5
4526	Uniformly stable hydroxylated cobalt(II) silicate species embedded within silicalite-1 zeolite for boosting propane dehydrogenation. <i>Microporous and Mesoporous Materials</i> , 2023, 352, 112516.	2.2	5
4527	Optical film-thinning of graphene epitaxially grown on 4H-SiC(0001): robustness of monolayer-graphene against the photoexcitation. <i>Journal of Physics Condensed Matter</i> , 2023, 35, 195401.	0.7	0
4528	Determination of the effect of hydrogen peroxide on the structure of graphene produced by electrochemical method. <i>Journal of Solid State Electrochemistry</i> , 2023, 27, 1203-1211.	1.2	2
4529	Disorder-tuned conductivity in amorphous monolayer carbon. <i>Nature</i> , 2023, 615, 56-61.	13.7	24
4530	High-Performance Wafer-Scale Transfer-Free Graphene Microphones. , 2023, , .		0
4531	Near IR Bandgap Semiconducting 2D Conjugated Metal-Organic Framework with Rhombic Lattice and High Mobility. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	7
4532	Near IR-bandgap semiconducting 2D conjugated metal-organic framework with rhombic lattice and high mobility. <i>Angewandte Chemie</i> , 0, , .	1.6	0

#	ARTICLE	IF	CITATIONS
4533	Novel techniques for characterising graphene nanoplatelets using Raman spectroscopy and machine learning. <i>2D Materials</i> , 2023, 10, 025018.	2.0	2
4534	Novel Mg ²⁺ and Ga ³⁺ doped ZnO/Li ⁺ doped Graphene Oxide Transparent Electrode/Electron ⁻ Transporting Layer Combinations for High ⁻ Performance Thin ⁻ Film Solar Cells. <i>Small</i> , 2023, 19, .	5.2	1
4535	Vertical graphene on rice-husk-derived SiC/C composite for highly selective photocatalytic CO ₂ reduction into CO. <i>Carbon</i> , 2023, 207, 36-48.	5.4	17
4537	Graphene Nanogap Interdigitated Asymmetric Electrodes for Photodetection. <i>Chemosensors</i> , 2023, 11, 181.	1.8	1
4538	Raman spectroscopic characterizations of graphene on oxide substrates for remote epitaxy. <i>Journal of Applied Physics</i> , 2023, 133, .	1.1	1
4539	Interfacial Degradation and Pattern Evolution of Exfoliated Graphene by Cyclic Mechanical Loading. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	0
4540	Study on Adhesion Force of Graphene under Cylinder ⁻ Plane Contact. <i>Lubricants</i> , 2023, 11, 126.	1.2	0
4541	Direct CVD Growth of Transferable 3D Graphene for Sensitive and Flexible SERS Sensor. <i>Nanomaterials</i> , 2023, 13, 1029.	1.9	1
4542	Synergistic effect between graphene nanoplatelets and carbon black to improve the thermal and mechanical properties of natural rubber nanocomposites. <i>Polymer-Plastics Technology and Materials</i> , 2022, 61, 1578-1592.	0.6	0
4543	Noninvasive Sensors for Brain ⁻ Machine Interfaces Based on Micropatterned Epitaxial Graphene. <i>ACS Applied Nano Materials</i> , 2023, 6, 5440-5447.	2.4	6
4544	Evolution of particle size and morphology in plasma synthesis of few-layer graphene and soot. <i>Combustion and Flame</i> , 2023, 258, 112713.	2.8	7
4545	Characteristics of Epoxy Composites Containing Carbon Nanotubes/Graphene Mixtures. <i>Polymers</i> , 2023, 15, 1476.	2.0	3
4546	Ultrashort pulse generation in erbium-doped fiber lasers in South America: a historical review. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2023, 40, C148.	0.9	1
4547	Mg ²⁺ B ⁻ Reduced Graphene Oxide Nanocomposites with Negligible Incubation Time for Hydrogen Release. <i>Advanced Sustainable Systems</i> , 2023, 7, .	2.7	0
4548	Terahertz Cross-Correlation Spectroscopy and Imaging of Large-Area Graphene. <i>Sensors</i> , 2023, 23, 3297.	2.1	6
4549	Litchi ⁻ derived platinum group metal ⁻ free electrocatalysts for oxygen reduction reaction and hydrogen evolution reaction in alkaline media. <i>SusMat</i> , 2023, 3, 248-262.	7.8	8
4550	Second Harmonic Generation in van der Waals Heterostructure of Centrosymmetric ReS ₂ and Graphene. <i>Advanced Optical Materials</i> , 2023, 11, .	3.6	4
4551	Direct Growth of Patterned Vertical Graphene Using Thermal Stress Mismatch between Barrier Layer and Substrate. <i>Nanomaterials</i> , 2023, 13, 1242.	1.9	1

#	ARTICLE	IF	CITATIONS
4552	Vertical-Graphene-Assisted Chemical Vapor Deposition for Fast Growth of Macroscaled Graphene Grains. <i>Journal of Physical Chemistry C</i> , 2023, 127, 6991-6997.	1.5	1
4553	Formation of Periodic Surface Structures by Multipulse Femtosecond Laser Processing of Au-Coated Ni in Various Fluids. , 2023, 1, 1263-1276.		3
4554	Intrinsic Properties of GO/RGO Bilayer Electrodes Dictate Their Inter-/Intralayer Intractability to Modulate Their Capacitance Performance. <i>ACS Omega</i> , 2023, 8, 14013-14024.	1.6	2
4555	Reduced graphene oxide-mediated magnetoelectric effect drives neural differentiation of mesenchymal stem cells. <i>Science China Materials</i> , 2023, 66, 2504-2512.	3.5	1
4556	A review on recent advances in fabricating freestanding single-crystalline complex-oxide membranes and its applications. <i>Physica Scripta</i> , 2023, 98, 052002.	1.2	7
4557	Thermally induced mechanical strain of graphene on copper and other substrates. <i>Journal of Physics and Chemistry of Solids</i> , 2023, 179, 111371.	1.9	2
4559	Detecting nanoparticles by "listening". <i>Frontiers of Physics</i> , 2023, 18, .	2.4	1
4560	Nanoprocessing of Self-Suspended Monolayer Graphene and Defect Formation by Femtosecond-Laser Irradiation. <i>Nano Letters</i> , 2023, 23, 4893-4900.	4.5	4
4567	Synthesis and Applications of Graphene and Its Nanocomposites. <i>Composites Science and Technology</i> , 2023, , 39-87.	0.4	0
4573	Carbon-based nanomaterials for nervous tissue engineering. , 2023, , 59-124.		0
4597	Laser-Induced Graphene as Electrode Material in Proton-Exchange Membrane Fuel Cells. , 0, , .		0
4635	Analyzing Fundamental Properties of Two-Dimensional Materials by Raman Spectroscopy from Microscale to Nanoscale. <i>Analytical Chemistry</i> , 2023, 95, 10821-10838.	3.2	3
4663	Organic-Inorganic Hybrid Nanomaterials in Biosensing Applications. , 2023, , 363-382.		0
4667	Towards bubble-free, centimeter-sized bilayer graphene enabled by backside lamination. <i>Journal of Materials Chemistry C</i> , 2023, 11, 11814-11821.	2.7	0
4690	Toxicity, Stability, Recycling, and Risk Assessments. <i>Carbon Nanostructures</i> , 2023, , 427-441.	0.1	0
4749	A simple route to functionalized porous carbon foams from carbon nanodots for metal-free pseudocapacitors. <i>Materials Horizons</i> , 2024, 11, 688-699.	6.4	0
4816	Kirigami-enabled stretchable laser-induced graphene heaters for wearable thermotherapy. <i>Materials Horizons</i> , 0, , .	6.4	0
4840	Carbon-based nanomaterials and nanocomposites synthesis, characterization, properties and applications: A review. , 2024, , .		0

#	ARTICLE	IF	CITATIONS
---	---------	----	-----------