Chemical analysis of graphene oxide films after heat an photoelectron and Micro-Raman spectroscopy

Carbon

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Citation Report

#	Article	IF	Citations
14	Effect of Water Vapor on Electrical Properties of Individual Reduced Graphene Oxide Sheets. Journal of Physical Chemistry C, 2008, 112, 20264-20268.	3.1	321
15	Evolution of Electrical, Chemical, and Structural Properties of Transparent and Conducting Chemically Derived Graphene Thin Films. Advanced Functional Materials, 2009, 19, 2577-2583.	14.9	1,603
16	Liquidâ€Phase Exfoliation of Nanotubes and Graphene. Advanced Functional Materials, 2009, 19, 3680-3695.	14.9	588
17	Facile, noncovalent decoration of graphene oxide sheets with nanocrystals. Nano Research, 2009, 2, 192-200.	10.4	145
18	Polyaniline electrochromic devices with transparent graphene electrodes. Electrochimica Acta, 2009, 55, 491-497.	5.2	244
19	Colloidal Suspensions of Highly Reduced Graphene Oxide in a Wide Variety of Organic Solvents. Nano Letters, 2009, 9, 1593-1597.	9.1	1,502
20	Transforming Carbon Nanotube Devices into Nanoribbon Devices. Journal of the American Chemical Society, 2009, 131, 13460-13463.	13.7	90
21	Transparent self-assembled films of reduced graphene oxide platelets. Applied Physics Letters, 2009, 95, .	3.3	171
22	High throughput exfoliation of graphene oxide from expanded graphite with assistance of strong oxidant in modified Hummers method. Journal of Physics: Conference Series, 2009, 188, 012051.	0.4	66
23	An electrical method for the measurement of the thermal and electrical conductivity of reduced graphene oxide nanostructures. Nanotechnology, 2009, 20, 405704.	2.6	128
24	Synthesis and Characterization of Titaniaâˆ'Graphene Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 19812-19823.	3.1	372
25	Real-Time Study of Grapheneâ€™s Phase Transition in Polymer Matrices. Nano Letters, 2009, 9, 2129-2132.	9.1	49
26	Reduced graphene oxide for room-temperature gas sensors. Nanotechnology, 2009, 20, 445502.	2.6	652
27	Gas detection using low-temperature reduced graphene oxide sheets. Applied Physics Letters, 2009, 94, .	3.3	346
28	Oxidation states of graphene: Insights from computational spectroscopy. Journal of Chemical Physics, 2009, 131, 244505.	3.0	88
29	Reduction Kinetics of Graphene Oxide Determined by Electrical Transport Measurements and Temperature Programmed Desorption. Journal of Physical Chemistry C, 2009, 113, 18480-18486.	3.1	207
30	Direct Synthesis and Structural Analysis of Nitrogen-Doped Carbon Nanofibers. Langmuir, 2009, 25, 8268-8273.	3.5	57
31	Photocatalytic Reduction of Graphene Oxide Nanosheets on TiO₂ Thin Film for Photoinactivation of Bacteria in Solar Light Irradiation. Journal of Physical Chemistry C, 2009, 113, 20214-20220.	3.1	887

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32	Electrochemical Reduction of Oriented Graphene Oxide Films: An in Situ Raman Spectroelectrochemical Study. Journal of Physical Chemistry C, 2009, 113, 7985-7989.	3.1	546
33	Surface Modification of Graphene Nanosheets with Gold Nanoparticles: The Role of Oxygen Moieties at Graphene Surface on Gold Nucleation and Growth. Chemistry of Materials, 2009, 21, 4796-4802.	6.7	838
34	Toward Ubiquitous Environmental Gas Sensorsâ€"Capitalizing on the Promise of Graphene. Environmental Science & Technology, 2010, 44, 1167-1176.	10.0	266
35	Reduced graphene oxide by chemical graphitization. Nature Communications, 2010, 1, 73.	12.8	1,868
36	Reduction of Graphene Oxide via Bacterial Respiration. ACS Nano, 2010, 4, 4852-4856.	14.6	539
37	Toxicity of Graphene and Graphene Oxide Nanowalls Against Bacteria. ACS Nano, 2010, 4, 5731-5736.	14.6	2,223
38	Thin Film Fabrication and Simultaneous Anodic Reduction of Deposited Graphene Oxide Platelets by Electrophoretic Deposition. Journal of Physical Chemistry Letters, 2010, 1, 1259-1263.	4.6	436
39	Hydrazine and Thermal Reduction of Graphene Oxide: Reaction Mechanisms, Product Structures, and Reaction Design. Journal of Physical Chemistry C, 2010, 114, 832-842.	3.1	1,002
40	Graphene Nanomesh by ZnO Nanorod Photocatalysts. ACS Nano, 2010, 4, 4174-4180.	14.6	675
41	Graphene/Polymer Nanocomposites. Macromolecules, 2010, 43, 6515-6530.	4.8	2,979
42	Nitrogen-Doped Graphene and Its Application in Electrochemical Biosensing. ACS Nano, 2010, 4, 1790-1798.	14.6	1,977
43	Simple Photoreduction of Graphene Oxide Nanosheet under Mild Conditions. ACS Applied Materials & Interfaces, 2010, 2, 3461-3466.	8.0	212
44	Palladium nanoparticle-graphene hybrids as active catalysts for the Suzuki reaction. Nano Research, 2010, 3, 429-437.	10.4	280
45	Microwave synthesis of large few-layer graphene sheets in aqueous solution of ammonia. Nano Research, 2010, 3, 126-137.	10.4	123
46	Gold nanoparticlesâ€"graphene hybrids as active catalysts for Suzuki reaction. Materials Research Bulletin, 2010, 45, 1413-1418.	5.2	143
47	Comparative Studies on Electrocatalytic Activities of Chemically Reduced Graphene Oxide and Electrochemically Reduced Graphene Oxide Noncovalently Functionalized with Poly(methylene blue). Electroanalysis, 2010, 22, 2862-2870.	2.9	18
48	Blue Photoluminescence from Chemically Derived Graphene Oxide. Advanced Materials, 2010, 22, 505-509.	21.0	1,824
49	Conjugatedâ€Polymerâ€Functionalized Graphene Oxide: Synthesis and Nonvolatile Rewritable Memory Effect. Advanced Materials, 2010, 22, 1731-1735.	21.0	400

#	Article	IF	Citations
50	Biocompatible, Robust Freeâ€Standing Paper Composed of a TWEEN/Graphene Composite. Advanced Materials, 2010, 22, 1736-1740.	21.0	363
51	Chemically Derived Graphene Oxide: Towards Largeâ€Area Thinâ€Film Electronics and Optoelectronics. Advanced Materials, 2010, 22, 2392-2415.	21.0	2,018
52	Specific Protein Detection Using Thermally Reduced Graphene Oxide Sheet Decorated with Gold Nanoparticleâ€Antibody Conjugates. Advanced Materials, 2010, 22, 3521-3526.	21.0	444
53	Electric Current Induced Reduction of Graphene Oxide and Its Application as Gap Electrodes in Organic Photoswitching Devices. Advanced Materials, 2010, 22, 5008-5012.	21.0	88
55	Carbon Nanomaterials in Biosensors: Should You Use Nanotubes or Graphene?. Angewandte Chemie - International Edition, 2010, 49, 2114-2138.	13.8	1,301
56	Using graphene nano-flakes as electrodes to remove ferric ions by capacitive deionization. Separation and Purification Technology, 2010, 75, 8-14.	7.9	174
57	Rapid microwave-assisted synthesis of graphene nanosheet/Co3O4 composite for supercapacitors. Electrochimica Acta, 2010, 55, 6973-6978.	5.2	462
58	Highly sensitive and selective detection of NO2 using epitaxial graphene on 6H-SiC. Sensors and Actuators B: Chemical, 2010, 150, 301-307.	7.8	141
59	The effect of heat treatment on formation of graphene thin films from graphene oxide nanosheets. Carbon, 2010, 48, 509-519.	10.3	507
60	Fast and simple fabrication of a large transparent chemically-converted graphene film by spray-coating. Carbon, 2010, 48, 1945-1951.	10.3	302
61	Microwave assisted exfoliation and reduction of graphite oxide for ultracapacitors. Carbon, 2010, 48, 2118-2122.	10.3	775
62	Graphene nanoribbons produced by the oxidative unzipping of single-wall carbon nanotubes. Carbon, 2010, 48, 2596-2602.	10.3	119
63	Preparation of graphene nanowalls by a simple microwave-based method. Carbon, 2010, 48, 3993-4000.	10.3	61
64	Graphite oxide as a precursor for the synthesis of disordered graphenes using the aerosol-through-plasma method. Carbon, 2010, 48, 4081-4089.	10.3	55
65	Highly-efficient fabrication of nanoscrolls from functionalized graphene oxide by Langmuirâ€"Blodgett method. Carbon, 2010, 48, 4475-4482.	10.3	88
66	Formation of highly stable dispersions of silane-functionalized reduced graphene oxide. Chemical Physics Letters, 2010, 501, 68-74.	2.6	216
67	Graphene supported electrocatalysts for methanol oxidation. Electrochemistry Communications, 2010, 12, 129-131.	4.7	199
68	Quantum dots sensitized graphene: In situ growth and application in photoelectrochemical cells. Electrochemistry Communications, 2010, 12, 483-487.	4.7	118

#	Article	IF	Citations
69	Microstructure effects on the electrochemical corrosion of carbon materials and carbon-supported Pt catalysts. Electrochimica Acta, 2010, 55, 8453-8460.	5.2	50
70	Poly(Nâ€vinylcarbazole) chemically modified graphene oxide. Journal of Polymer Science Part A, 2010, 48, 2642-2649.	2.3	88
71	Fluorographene: A Twoâ€Dimensional Counterpart of Teflon. Small, 2010, 6, 2877-2884.	10.0	1,146
72	Highâ€Concentration Solvent Exfoliation of Graphene. Small, 2010, 6, 864-871.	10.0	908
73	Graphene oxide as a chemically tunable platform for optical applications. Nature Chemistry, 2010, 2, 1015-1024.	13.6	2,966
74	Preparation and Evaluation of Graphite Oxide Reduced at 220 Â°C. Chemistry of Materials, 2010, 22, 5625-5629.	6.7	198
75	Honeycomb Carbon: A Review of Graphene. Chemical Reviews, 2010, 110, 132-145.	47.7	6,210
76	Monodisperse Chemically Modified Graphene Obtained by Density Gradient Ultracentrifugal Rate Separation. ACS Nano, 2010, 4, 3381-3389.	14.6	193
77	A roadmap to high quality chemically prepared graphene. Journal Physics D: Applied Physics, 2010, 43, 374015.	2.8	57
78	Tribology Study of Reduced Graphene Oxide Sheets on Silicon Substrate Synthesized via Covalent Assembly. Langmuir, 2010, 26, 15830-15836.	3.5	290
79	Highly sensitive and selective NO. , 2010, , .		4
80	Measurement of Multicomponent Solubility Parameters for Graphene Facilitates Solvent Discovery. Langmuir, 2010, 26, 3208-3213.	3.5	566
81	Exfoliation of Graphite Oxide in Propylene Carbonate and Thermal Reduction of the Resulting Graphene Oxide Platelets. ACS Nano, 2010, 4, 1227-1233.	14.6	663
82	Solvent-Assisted Thermal Reduction of Graphite Oxide. Journal of Physical Chemistry C, 2010, 114, 14819-14825.	3.1	264
83	A One-Step, Solvothermal Reduction Method for Producing Reduced Graphene Oxide Dispersions in Organic Solvents. ACS Nano, 2010, 4, 3845-3852.	14.6	565
84	High-Concentration, Surfactant-Stabilized Graphene Dispersions. ACS Nano, 2010, 4, 3155-3162.	14.6	911
85	Ultrafast, dry microwave synthesis of graphene sheets. Journal of Materials Chemistry, 2010, 20, 4781.	6.7	128
86	Are There Fundamental Limitations on the Sheet Resistance and Transmittance of Thin Graphene Films?. ACS Nano, 2010, 4, 2713-2720.	14.6	511

#	Article	IF	Citations
87	Pillaring Chemically Exfoliated Graphene Oxide with Carbon Nanotubes for Photocatalytic Degradation of Dyes under Visible Light Irradiation. ACS Nano, 2010, 4, 7030-7036.	14.6	243
88	Hollow graphene oxide spheres self-assembled by W/O emulsion. Journal of Materials Chemistry, 2010, 20, 4867.	6.7	172
89	Photodegradation of Graphene Oxide Sheets by TiO₂ Nanoparticles after a Photocatalytic Reduction. Journal of Physical Chemistry C, 2010, 114, 12955-12959.	3.1	393
90	Kinetic Study of the Graphite Oxide Reduction: Combined Structural and Gravimetric Experiments under Isothermal and Nonisothermal Conditions. Journal of Physical Chemistry C, 2010, 114, 21645-21651.	3.1	52
91	Position dependent photodetector from large area reduced graphene oxide thin films. Applied Physics Letters, 2010, 96, .	3.3	177
92	High yield fabrication of chemically reduced graphene oxide field effect transistors by dielectrophoresis. Nanotechnology, 2010, 21, 165202.	2.6	112
93	Graphene/Polyaniline Nanocomposite for Hydrogen Sensing. Journal of Physical Chemistry C, 2010, 114, 16168-16173.	3.1	425
94	Self-assembled lithium manganese oxide nanoparticles on carbon nanotube or graphene as high-performance cathode material for lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 17297.	6.7	62
95	Schottky diode via dielectrophoretic assembly of reduced graphene oxide sheets between dissimilar metal contacts. New Journal of Physics, 2011, 13, 035021.	2.9	32
96	High-Performance Transparent Conductive Films Using Rheologically Derived Reduced Graphene Oxide. ACS Nano, 2011, 5, 870-878.	14.6	84
97	Fabrication of a large scale transparent conducting film using transformed few-layered graphene nanoribbons obtained from unzipping of single wall carbon nanotubes. Journal of Materials Chemistry, 2011, 21, 15655.	6.7	11
98	Facile one-step transfer process of graphene. Nanotechnology, 2011, 22, 225606.	2.6	14
99	Characteristics of Raman spectra for graphene oxide from ab initio simulations. Journal of Chemical Physics, 2011, 135, 184503.	3.0	47
100	Photocatalytically Reduced Graphite Oxide Electrode for Electrochemical Capacitors. Journal of Physical Chemistry C, 2011, 115, 20689-20695.	3.1	34
101	Intrinsic Capacitance and Redox Activity of Functionalized Graphene Sheets. Journal of Physical Chemistry C, 2011, 115, 20326-20334.	3.1	47
102	Making silicananoparticle-covered graphene oxide nanohybrids as general building blocks for large-area superhydrophilic coatings. Nanoscale, 2011, 3, 519-528.	5.6	229
103	Facile Preparation of Nitrogen-Doped Few-Layer Graphene via Supercritical Reaction. ACS Applied Materials & Interfaces, 2011, 3, 2259-2264.	8.0	75
104	Flexible Holey Graphene Paper Electrodes with Enhanced Rate Capability for Energy Storage Applications. ACS Nano, 2011, 5, 8739-8749.	14.6	478

#	Article	IF	Citations
105	Graphene Oxide: Synthesis, Characterization, Electronic Structure, and Applications. Nanoscience and Technology, 2011, , 435-464.	1.5	2
106	Self-Assembly of Octadecyltrichlorosilane on Graphene Oxide and the Tribological Performances of the Resultant Film. Journal of Physical Chemistry C, 2011, 115, 10080-10086.	3.1	85
107	Graphene Oxides Dispersing and Hosting Graphene Sheets for Unique Nanocomposite Materials. ACS Nano, 2011, 5, 3052-3058.	14.6	87
108	Temperature dependence of graphene oxide reduced by hydrazine hydrate. Nanotechnology, 2011, 22, 055705.	2.6	578
109	In situ synthesis of poly(ethylene terephthalate)/graphene composites using a catalyst supported on graphite oxide. Journal of Materials Chemistry, 2011, 21, 3931.	6.7	43
110	Laser Patterning of Epitaxial Graphene for Schottky Junction Photodetectors. ACS Nano, 2011, 5, 5969-5975.	14.6	63
111	Experimental study of graphitic nanoribbon films for ammonia sensing. Journal of Applied Physics, 2011, 109, .	2.5	45
112	Electrochemical growth of vertically aligned ZnO nanorod arrays on oxidized bi-layer graphene electrode. CrystEngComm, 2011, 13, 6036.	2.6	30
113	Scanning Tunneling Microscopy and X-ray Photoelectron Spectroscopy Studies of Graphene Films Prepared by Sonication-Assisted Dispersion. ACS Nano, 2011, 5, 6102-6108.	14.6	56
114	Melatonin as a powerful bio-antioxidant for reduction of graphene oxide. Journal of Materials Chemistry, 2011, 21, 10907.	6.7	255
115	Supercapacitors based on self-assembled graphene organogel. Physical Chemistry Chemical Physics, 2011, 13, 17249.	2.8	123
116	The Role of Oxygen during Thermal Reduction of Graphene Oxide Studied by Infrared Absorption Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 19761-19781.	3.1	776
117	Facile synthesis of reduced graphene oxide in supercritical alcohols and its lithium storage capacity. Green Chemistry, 2011, 13, 2714.	9.0	75
118	Polypyrrole Coated Thermally Exfoliated Graphite Nanoplatelets and the Effect of Oxygen Surface Groups on the Interaction of Platinum Catalysts with Graphene-Based Nanocomposites. Industrial & Engineering Chemistry Research, 2011, 50, 12562-12571.	3.7	18
119	Effect of Oxygen Content on Structures of Graphite Oxides. Industrial & Engineering Chemistry Research, 2011, 50, 6132-6137.	3.7	119
120	The ripple's enhancement in graphene sheets by spark plasma sintering. AIP Advances, 2011, 1, 032170.	1.3	2
121	Graphite Oxide and Graphene Nanoribbons Reduction with Hydrogen Iodide. Fullerenes Nanotubes and Carbon Nanostructures, 2011, 19, 461-468.	2.1	31
122	Graphene based new energy materials. Energy and Environmental Science, 2011, 4, 1113.	30.8	1,789

#	Article	IF	Citations
123	Single-layer graphene oxide sheet: a novel substrate for dip-pen nanolithography. Chemical Communications, 2011, 47, 10070.	4.1	16
124	Wrapping Bacteria by Graphene Nanosheets for Isolation from Environment, Reactivation by Sonication, and Inactivation by Near-Infrared Irradiation. Journal of Physical Chemistry B, 2011, 115, 6279-6288.	2.6	578
125	Synthesis and properties of monolayer graphene oxyfluoride. Journal of Materials Chemistry, 2011, 21, 18730.	6.7	50
126	A rapid, one-step, variable-valence metal ion assisted reduction method for graphene oxide. Nanotechnology, 2011, 22, 405602.	2.6	31
127	Optical Bifunctionality of Europium-Complexed Luminescent Graphene Nanosheets. Nano Letters, 2011, 11, 5227-5233.	9.1	88
128	Probing the Thermal Deoxygenation of Graphene Oxide Using High-Resolution In Situ X-ray-Based Spectroscopies. Journal of Physical Chemistry C, 2011, 115, 17009-17019.	3.1	1,271
129	Nanoscale Lithography on Monolayer Graphene Using Hydrogenation and Oxidation. ACS Nano, 2011, 5, 6417-6424.	14.6	138
130	Magneto-Controlled Graphene Immunosensing Platform for Simultaneous Multiplexed Electrochemical Immunoassay Using Distinguishable Signal Tags. Analytical Chemistry, 2011, 83, 5407-5414.	6.5	230
131	Anchoring Ceria Nanoparticles on Reduced Graphene Oxide and Their Electronic Transport Properties. Journal of Physical Chemistry C, 2011, 115, 24494-24500.	3.1	125
132	Polyacrylate-coated graphene-oxide and graphene solution via chemical route for various biological application. Diamond and Related Materials, 2011, 20, 449-453.	3.9	32
133	Forming mechanism of nitrogen doped graphene prepared by thermal solid-state reaction of graphite oxide and urea. Applied Surface Science, 2011, 258, 1704-1710.	6.1	128
134	Graphene oxide windows for in situ environmental cell photoelectron spectroscopy. Nature Nanotechnology, 2011, 6, 651-657.	31.5	197
135	Surfactant-intercalated, chemically reduced graphene oxide for high performance supercapacitor electrodes. Journal of Materials Chemistry, 2011, 21, 7302.	6.7	262
136	Vertical alignment of reduced graphene oxide/Fe-oxide hybrids using the magneto-evaporation method. Chemical Communications, 2011, 47, 5211.	4.1	11
137	Comparative protein profile of human hepatoma HepG2 cells treated with graphene and single-walled carbon nanotubes: An iTRAQ-coupled 2D LCâ€"MS/MS proteome analysis. Toxicology Letters, 2011, 207, 213-221.	0.8	76
138	High-performance self-assembled graphene hydrogels prepared by chemical reduction of graphene oxide. New Carbon Materials, 2011, 26, 9-15.	6.1	283
139	Comparison of GO, GO/MWCNTs composite and MWCNTs as potential electrode materials for supercapacitors. Energy and Environmental Science, 2011, 4, 1855.	30.8	414
140	Intercalation of mesoporous carbon spheres between reduced graphene oxide sheets for preparing high-rate supercapacitor electrodes. Energy and Environmental Science, 2011, 4, 1866.	30.8	420

#	Article	IF	Citations
141	Silicon nanowire arrays-induced graphene oxide reduction under UV irradiation. Nanoscale, 2011, 3, 4662.	5.6	71
142	Evaluation Criteria for Reduced Graphene Oxide. Journal of Physical Chemistry C, 2011, 115, 11327-11335.	3.1	451
143	Sodium deoxycholate functionalized graphene and its composites with polyvinyl alcohol. Journal Physics D: Applied Physics, 2011, 44, 445302.	2.8	14
144	Hydrolysable tannin as environmentally friendly reducer and stabilizer for graphene oxide. Green Chemistry, 2011, 13, 1655.	9.0	235
145	Partially oxidized graphene as a precursor to graphene. Journal of Materials Chemistry, 2011, 21, 11217.	6.7	76
146	Reduction of a Single Layer Graphene Oxide Film on Pt(111). Applied Physics Express, 2011, 4, 025102.	2.4	15
147	Layered compounds based on perforated graphene. Journal of Structural Chemistry, 2011, 52, 903-909.	1.0	11
148	Revisiting the effects of organic solvents on the thermal reduction of graphite oxide. Thermochimica Acta, 2011, 526, 65-71.	2.7	10
149	In-situ formation of grapheneâ€"lead oxide composite and its use in trace arsenic detection. Sensors and Actuators B: Chemical, 2011, 160, 306-311.	7.8	82
150	Thermal conductivity and structure of non-covalent functionalized graphene/epoxy composites. Carbon, 2011, 49, 5107-5116.	10.3	656
151	Understanding the Enhancement in Photoelectrochemical Properties of Photocatalytically Prepared TiO₂-Reduced Graphene Oxide Composite. Journal of Physical Chemistry C, 2011, 115, 6004-6009.	3.1	403
152	Electrical and Structural Feature of Monolayer Graphene Produced by Pulse Current Unzipping and Microwave Exfoliation of Carbon Nanotubes. Chemistry of Materials, 2011, 23, 940-944.	6.7	22
153	A new reducing agent to prepare single-layer, high-quality reduced graphene oxide for device applications. Nanoscale, 2011, 3, 2849.	5.6	99
154	Thickness Control of Graphene Overlayer via Layer-by-Layer Growth on Graphene Templates by Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2011, 50, 06GE04.	1.5	12
155	Fast Synthesis of Graphene Sheets with Good Thermal Stability by Microwave Irradiation. Chemistry - an Asian Journal, 2011, 6, 1151-1154.	3.3	19
156	Dual Path Mechanism in the Thermal Reduction of Graphene Oxide. Journal of the American Chemical Society, 2011, 133, 17315-17321.	13.7	426
157	Graphene counter electrodes for dye-sensitized solar cells prepared by electrophoretic deposition. Journal of Materials Chemistry, 2011, 21, 7548.	6.7	243
158	Controlling graphite oxide bandgap width by reduction in hydrogen. Technical Physics Letters, 2011, 37, 942-945.	0.7	16

#	Article	IF	Citations
159	Direct exfoliation of graphene in methanesulfonic acid and facile synthesis of graphene/polybenzimidazole nanocomposites. Journal of Materials Chemistry, 2011, 21, 505-512.	6.7	79
160	Controlled Growth of Multilayer, Few-Layer, and Single-Layer Graphene on Metal Substrates. Journal of Physical Chemistry C, 2011, 115, 5232-5238.	3.1	119
161	Toward Practical Gas Sensing with Highly Reduced Graphene Oxide: A New Signal Processing Method To Circumvent Run-to-Run and Device-to-Device Variations. ACS Nano, 2011, 5, 1154-1164.	14.6	353
162	Noncovalent wrapping of chemically modified graphene with Ï€-conjugated disk-like molecules. Colloid and Polymer Science, 2011, 289, 925-932.	2.1	37
163	A facile one-step synthesis of TiO2/graphene composites for photodegradation of methyl orange. Nano Research, 2011, 4, 274-283.	10.4	176
164	Growth of carbon nanowalls at atmospheric pressure for one-step gas sensor fabrication. Nanoscale Research Letters, 2011, 6, 202.	5.7	123
165	Growing poly(Nâ€vinylcarbazole) from the surface of graphene oxide via RAFT polymerization. Journal of Polymer Science Part A, 2011, 49, 2043-2050.	2.3	76
166	Spontaneous Formation of Liquid Crystals in Ultralarge Graphene Oxide Dispersions. Advanced Functional Materials, 2011, 21, 2978-2988.	14.9	362
167	Graphene and Related Materials in Electrochemical Sensing. Electroanalysis, 2011, 23, 803-826.	2.9	256
169	The Real Graphene Oxide Revealed: Stripping the Oxidative Debris from the Grapheneâ€like Sheets. Angewandte Chemie - International Edition, 2011, 50, 3173-3177.	13.8	569
170	Charmâ€Braceletâ€Type Poly(Nâ€vinylcarbazole) Functionalized with Reduced Graphene Oxide for Broadband Optical Limiting. Chemistry - A European Journal, 2011, 17, 780-785.	3.3	68
171	Chemie des Graphens. Chemie in Unserer Zeit, 2011, 45, 240-249.	0.1	7
172	Photocatalytic reduction of graphene oxides hybridized by ZnO nanoparticles in ethanol. Carbon, 2011, 49, 11-18.	10.3	355
173	Graphene oxide nanoplatelets as excellent electrochemical active materials for VO2+/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>VO</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</ and V2+/V3+ redox couples for a vanadium redox flow battery. Carbon, 2011, 49, 693-700.	10.3	234
174	Distribution and biocompatibility studies of graphene oxide in mice after intravenous administration. Carbon, 2011, 49, 986-995.	10.3	625
175	Multi-walled carbon nanotubes used as an electrode reaction catalyst for /VO2+ for a vanadium redox flow battery. Carbon, 2011, 49, 3463-3470.	10.3	260
176	Oxygen migration on the graphene surface. 2. Thermochemistry of basal-plane diffusion (hopping). Carbon, 2011, 49, 4226-4238.	10.3	78
177	Radiofrequency plasma assisted exfoliation and reduction of large-area graphene oxide platelets produced by a mechanical transfer process. Chemical Physics Letters, 2011, 508, 285-288.	2.6	18

#	Article	IF	Citations
178	Hydrogen detection using platinum coated graphene grown on SiC. Sensors and Actuators B: Chemical, 2011, 157, 500-503.	7.8	98
179	Layer-by-layer growth of graphene layers on graphene substrates by chemical vapor deposition. Thin Solid Films, 2011, 519, 6447-6452.	1.8	53
180	Solution-chemistry approach to graphene nanostructures. Journal of Materials Chemistry, 2011, 21, 3295.	6.7	64
181	Electric field assisted thermal annealing reorganization of graphene oxide/polystyrene latex films. EXPRESS Polymer Letters, 2011, 5, 819-824.	2.1	5
182	Ultra-thin graphene edges at the nanowire tips: a cascade cold cathode with two-stage field amplification. Nanotechnology, 2011, 22, 505703.	2.6	45
183	Configuration Dependency of Attached Epoxy Groups on Graphene Oxide Reduction: A Molecular Dynamics Simulation. Japanese Journal of Applied Physics, 2012, 51, 06FD14.	1.5	0
184	Graphene Oxide: Theoretical Perspectives. , 2012, , 69-84.		6
185	Enhancement of laser action in ZnO nanorods assisted by surface plasmon resonance of reduced graphene oxide nanoflakes. Optics Express, 2012, 20, A799.	3.4	26
186	Direct laser-enabled graphene oxideâ€“Reduced graphene oxide layered structures with micropatterning. Journal of Applied Physics, 2012, 112, 064309.	2.5	39
187	Effect of in-situ oxygen on the electronic properties of graphene grown by carbon molecular beam epitaxy. Applied Physics Letters, 2012, 100, .	3.3	3
188	Efros-Shklovskii variable-range hopping in reduced graphene oxide sheets of varying carbon<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi><mml:msup><mml:mi>p</mml:mi><mml:mn>2</mml:mn></mml:msup></mml:mro Physical Review B, 2012, 86, .	3.2	170
189	SELF-ASSEMBLY FABRICATION OF GRAPHENE-BASED MATERIALS WITH OPTICALâ€“ELECTRONIC, TRANSIENT OPTICAL AND ELECTROCHEMICAL PROPERTIES. International Journal of Nanoscience, 2012, 11, 1240032.	0.7	4
190	X-ray diffraction characterization of polymer intercalated graphite oxide. Powder Diffraction, 2012, 27, 104-107.	0.2	80
191	Precise control of single- and bi-layer graphene growths on epitaxial Ni(111) thin film. Journal of Applied Physics, 2012, 111, 064324.	2.5	21
192	Thiourea Dioxide as a Green Reductant for the Mass Production of Solution-Based Graphene. Bulletin of the Chemical Society of Japan, 2012, 85, 1339-1344.	3.2	22
193	Recent developments on graphene and graphene oxide based solid state gas sensors. Sensors and Actuators B: Chemical, 2012, 173, 1-21.	7.8	631
194	Solution-Processed Graphite Membrane from Reassembled Graphene Oxide. Chemistry of Materials, 2012, 24, 594-599.	6.7	85
195	Ultraviolet-visible spectroscopy of graphene oxides. AIP Advances, 2012, 2, .	1.3	281

#	Article	IF	Citations
196	Functionalized Graphene for High Performance Lithium Ion Capacitors. ChemSusChem, 2012, 5, 2328-2333.	6.8	115
197	Enhanced photocatalytic activity of ZnOâ€“graphene nanocomposites prepared by microwave synthesis. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	74
198	Novel blue light emitting graphene oxide nanosheets fabricated by surface functionalization. Journal of Materials Chemistry, 2012, 22, 2929-2934.	6.7	94
199	Engineering graphene/carbon nanotube hybrid for direct electron transfer of glucose oxidase and glucose biosensor. Journal of Applied Electrochemistry, 2012, 42, 875-881.	2.9	45
200	Bottom-up synthesis of large-scale graphene oxide nanosheets. Journal of Materials Chemistry, 2012, 22, 5676.	6.7	242
201	Preparation of polymer decorated graphene oxide by Î³-ray induced graft polymerization. Nanoscale, 2012, 4, 1742.	5.6	89
202	Fabrication of Highly-Aligned, Conductive, and Strong Graphene Papers Using Ultralarge Graphene Oxide Sheets. ACS Nano, 2012, 6, 10708-10719.	14.6	344
203	Electrical annealing and temperature dependent transversal conduction in multilayer reduced graphene oxide films for solid-state molecular devices. Physical Chemistry Chemical Physics, 2012, 14, 14277.	2.8	15
204	Laser assisted green synthesis of free standing reduced graphene oxides at the waterâ€“air interface. Nanotechnology, 2012, 23, 505601.	2.6	35
205	Fabrication and Tribological Investigation of a Novel Hydrophobic Polydopamine/Graphene Oxide Multilayer Film. Tribology Letters, 2012, 48, 407-415.	2.6	37
206	Visibleâ€Light Photocatalytic Hydrogen Generation by Using Dyeâ€Sensitized Graphene Oxide as a Photocatalyst. Chemistry - A European Journal, 2012, 18, 16774-16783.	3.3	65
207	Perforation of graphite in boiling mineral acid. Physica Status Solidi (B): Basic Research, 2012, 249, 2620-2624.	1.5	16
208	The influence of Al(OH)3-coated graphene oxide on improved thermal conductivity and maintained electrical resistivity of Al2O3/epoxy composites. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	51
209	Novel graphene/polyaniline nanocomposites and its photocatalytic activity toward the degradation of rose Bengal dye. Chemical Engineering Journal, 2012, 210, 220-228.	12.7	164
210	High-Performance Nanopapers Based on Benzenesulfonic Functionalized Graphenes. ACS Nano, 2012, 6, 10178-10185.	14.6	71
211	Immobilization of Coâ€“Al Layered Double Hydroxides on Graphene Oxide Nanosheets: Growth Mechanism and Supercapacitor Studies. ACS Applied Materials & Interfaces, 2012, 4, 2242-2249.	8.0	186
212	Tunable uptake of poly(ethylene oxide) by graphite-oxide-based materials. Carbon, 2012, 50, 5232-5241.	10.3	22
213	Low-temperature plasma-assisted preparation of graphene supported palladium nanoparticles with high hydrodesulfurization activity. Journal of Materials Chemistry, 2012, 22, 14363.	6.7	61

#	Article	IF	Citations
214	Tetrachloroperylene diimide functionalized reduced graphene oxide sheets and their Iâ€"V behavior by current sensing atomic force microscopy. Journal of Materials Chemistry, 2012, 22, 18839.	6.7	11
215	Thermally modulated multilayered graphene oxide for hydrogen storage. Physical Chemistry Chemical Physics, 2012, 14, 1480-1484.	2.8	67
216	Microorganism mediated synthesis of reduced graphene oxide films. Journal of Physics: Conference Series, 2012, 352, 012011.	0.4	17
217	Plasma-Assisted Reduction of Graphene Oxide at Low Temperature and Atmospheric Pressure for Flexible Conductor Applications. Journal of Physical Chemistry Letters, 2012, 3, 772-777.	4.6	122
218	Ecological Approach to Graphene Oxide Reinforced Poly (methyl methacrylate) Nanocomposites. ACS Applied Materials & Interfaces, 2012, 4, 3596-3601.	8.0	80
219	Highly Fluorescent Graphene Oxide-Poly(vinyl alcohol) Hybrid: An Effective Material for Specific Au³⁺ Ion Sensors. ACS Applied Materials & Interfaces, 2012, 4, 5576-5582.	8.0	136
220	Sonochemical assisted synthesis of a novel TiO2/graphene composite for solar energy conversion. Synthetic Metals, 2012, 162, 827-833.	3.9	31
221	Graphene Oxide: Preparation, Functionalization, and Electrochemical Applications. Chemical Reviews, 2012, 112, 6027-6053.	47.7	3,024
222	Effect of HNO3 functionalization on large scale graphene for enhanced tri-iodide reduction in dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 20490.	6.7	103
223	Enhanced fluorescent intensity of graphene oxideâ€"methyl cellulose hybrid in acidic medium: Sensing of nitro-aromatics. Journal of Materials Chemistry, 2012, 22, 8139.	6.7	62
224	Functionalized Multilayered Graphene Platform for Urea Sensor. ACS Nano, 2012, 6, 168-175.	14.6	154
225	Reconstruction of the carbon sp²network in graphene oxide by low-temperature reaction with CO. Journal of Materials Chemistry, 2012, 22, 51-56.	6.7	26
226	Tailored graphene materials by chemical reduction of graphene oxides of different atomic structure. RSC Advances, 2012, 2, 9643.	3.6	51
227	Reduced graphene oxideâ€"titanate hybrids: Morphologic evolution by alkali-solvothermal treatment and applications in water purification. Applied Surface Science, 2012, 258, 4551-4557.	6.1	56
228	Synthesis, characterization and optical property of graphene oxide films. Applied Surface Science, 2012, 258, 5056-5060.	6.1	40
229	Hydrothermal preparation of ZnO-reduced graphene oxide hybrid with high performance in photocatalytic degradation. Applied Surface Science, 2012, 258, 6204-6211.	6.1	261
230	Oxidation behavior of multiwall carbon nanotubes with different diameters and morphology. Applied Surface Science, 2012, 258, 6272-6280.	6.1	124
231	Graphite oxideâ€"TiO2 nanocomposite and its efficient visible-light-driven photocatalytic hydrogen production. Journal of Alloys and Compounds, 2012, 516, 85-90.	5.5	80

#	Article	IF	Citations
232	One-pot photochemical synthesis of ultrathin Au nanocrystals on co-reduced graphene oxide and its application. Journal of Colloid and Interface Science, 2012, 383, 140-147.	9.4	26
233	Preparation, mechanical and thermal properties of functionalized graphene/polyimide nanocomposites. Composites Part A: Applied Science and Manufacturing, 2012, 43, 1537-1545.	7.6	159
234	Localized Deoxygenation and Direct Patterning of Graphene Oxide Films by Focused Ion Beams. Langmuir, 2012, 28, 14815-14821.	3.5	30
235	Graphene: An Emerging Electronic Material. Advanced Materials, 2012, 24, 5782-5825.	21.0	718
236	Atomic Dopants Involved in the Structural Evolution of Thermally Graphitized Graphene. Chemistry - A European Journal, 2012, 18, 13466-13472.	3.3	20
237	Growth of zeolite crystals with graphene oxide nanosheets. Chemical Communications, 2012, 48, 2249.	4.1	38
238	Graphene and Its Synthesis. , 2012, , 415-438.		10
239	Investigation of the dependence of the chemical states of the graphene surface on N2 plasma treatment. Journal of the Korean Physical Society, 2012, 60, 933-936.	0.7	5
240	Patterning and Electronic Tuning of Laser Scribed Graphene for Flexible All-Carbon Devices. ACS Nano, 2012, 6, 1395-1403.	14.6	341
241	Optical Turn-On Sensor Based on Graphene Oxide for Selective Detection of <scp>d</scp>-Glucosamine. Analytical Chemistry, 2012, 84, 5641-5644.	6.5	47
242	Facile, mild and fast thermal-decomposition reduction of graphene oxide in air and its application in high-performance lithium batteries. Chemical Communications, 2012, 48, 976-978.	4.1	240
243	Chemoselective Photodeoxidization of Graphene Oxide Using Sterically Hindered Amines as Catalyst: Synthesis and Applications. ACS Nano, 2012, 6, 3027-3033.	14.6	82
244	The decoration of TiO2/reduced graphene oxide by Pd and Pt nanoparticles for hydrogen gas sensing. International Journal of Hydrogen Energy, 2012, 37, 15423-15432.	7.1	130
245	A glucose biosensor based on TiO2â€"Graphene composite. Biosensors and Bioelectronics, 2012, 38, 184-188.	10.1	197
246	High conductive ethylene vinyl acetate composites filled with reduced graphene oxide and polyaniline. Composites Part A: Applied Science and Manufacturing, 2012, 43, 2183-2188.	7.6	41
247	Overall performance of natural rubber/graphene nanocomposites. Composites Science and Technology, 2012, 73, 40-46.	7.8	195
248	Graphene electrochemical responses sense surroundings. Electrochimica Acta, 2012, 81, 49-57.	5.2	25
249	Graphene sheets/cobalt nanocomposites as low-cost/high-performance catalysts for hydrogen generation. Materials Chemistry and Physics, 2012, 135, 826-831.	4.0	53

#	Article	IF	Citations
250	Electrodeposited Ni(OH)2 nanoflakes on graphite nanosheets prepared by plasma-enhanced chemical vapor deposition for supercapacitor electrode. New Journal of Chemistry, 2012, 36, 1902.	2.8	58
251	Site-dependent catalytic activity of graphene oxides towards oxidative dehydrogenation of propane. Physical Chemistry Chemical Physics, 2012, 14, 16558.	2.8	51
252	Synergistic toughening of composite fibres by self-alignment of reduced graphene oxide and carbon nanotubes. Nature Communications, 2012, 3, 650.	12.8	354
253	Photochemical Engineering of Graphene Oxide Nanosheets. Journal of Physical Chemistry C, 2012, 116, 19822-19827.	3.1	122
254	Mechanical properties of graphene oxides. Nanoscale, 2012, 4, 5910.	5.6	239
255	Temperature-dependent electrical property transition of graphene oxide paper. Nanotechnology, 2012, 23, 455705.	2.6	96
256	Mesoporous Carbon/Zirconia Composites: A Potential Route to Chemically Functionalized Electrically-Conductive Mesoporous Materials. Langmuir, 2012, 28, 3259-3270.	3.5	13
257	Chemistry and physics of a single atomic layer: strategies and challenges for functionalization of graphene and graphene-based materials. Chemical Society Reviews, 2012, 41, 97-114.	38.1	487
258	Redox chemistry between graphene oxide and mercaptan. Journal of Materials Chemistry, 2012, 22, 18564.	6.7	22
259	Three-dimensional graphene nanosheet encrusted carbon micropillar arrays for electrochemical sensing. Nanoscale, 2012, 4, 3673.	5.6	52
260	A novel and simple approach for the synthesis of Fe3O4-graphene composite. Korean Journal of Chemical Engineering, 2012, 29, 989-993.	2.7	12
261	Charge separation and ultraviolet photovoltaic conversion of ZnO quantum dots conjugated with graphene nanoshells. Nano Research, 2012, 5, 747-761.	10.4	40
262	The formation of a peroxoantimonate thin film coating on graphene oxide (GO) and the influence of the GO on its transformation to antimony oxides and elemental antimony. Carbon, 2012, 50, 5463-5471.	10.3	43
263	Reduced graphene oxide produced by rapid-heating reduction and its use in carbon-based field-effect transistors. Journal of Applied Physics, 2012, 112, 033701.	2.5	5
264	Facile Photochemical Synthesis of Graphene-Pt Nanoparticle Composite for Counter Electrode in Dye Sensitized Solar Cell. ACS Applied Materials & Interfaces, 2012, 4, 3447-3452.	8.0	85
265	Wettability and its influence on graphene nansoheets as electrode material for capacitive deionization. Chemical Physics Letters, 2012, 548, 23-28.	2.6	110
266	Large-area high-throughput synthesis of monolayer graphene sheet by Hot Filament Thermal Chemical Vapor Deposition. Scientific Reports, 2012, 2, 682.	3.3	138
267	Fe-Anchored Graphene Oxide: A Low-Cost and Easily Accessible Catalyst for Low-Temperature CO Oxidation. Journal of Physical Chemistry C, 2012, 116, 2507-2514.	3.1	189

#	Article	IF	Citations
268	Chemical Approaches toward Grapheneâ€Based Nanomaterials and their Applications in Energyâ€Related Areas. Small, 2012, 8, 630-646.	10.0	368
269	Polynorbornene dicarboximide/amine functionalized graphene hybrids for potential oxygen barrier films. Journal of Polymer Science Part A, 2012, 50, 1611-1621.	2.3	44
270	Highâ€Efficiency and Roomâ€Temperature Reduction of Graphene Oxide: A Facile Green Approach Towards Flexible Graphene Films. Small, 2012, 8, 1180-1184.	10.0	36
271	Nitrogen-Doped Graphene Nanosheets as Metal-Free Catalysts for Aerobic Selective Oxidation of Benzylic Alcohols. ACS Catalysis, 2012, 2, 622-631.	11.2	384
272	Assembly and benign step-by-step post-treatment of oppositely charged reduced graphene oxides for transparent conductive thin films with multiple applications. Nanoscale, 2012, 4, 3558.	5.6	45
273	Characterization of graphite oxide after heat treatment. New Journal of Chemistry, 2012, 36, 1373.	2.8	52
274	Radiation induced reduction: an effective and clean route to synthesize functionalized graphene. Journal of Materials Chemistry, 2012, 22, 7775.	6.7	163
275	Chemical Approaches to Produce Graphene Oxide and Related Materials. , 2012, , 205-234.		5
276	Facile preparation of nitrogen-doped graphene as a metal-free catalyst for oxygen reduction reaction. Physical Chemistry Chemical Physics, 2012, 14, 3381.	2.8	261
277	Room-temperature metastability of multilayer graphene oxide films. Nature Materials, 2012, 11, 544-549.	27.5	512
278	Template-free synthesis of large anisotropic gold nanostructures on reduced graphene oxide. Nanoscale, 2012, 4, 3055.	5.6	28
279	Fabrication of electric papers of graphene nanosheet shelled cellulose fibres by dispersion and infiltration as flexible electrodes for energy storage. Nanoscale, 2012, 4, 3248.	5.6	145
280	Graphene-based transparent flexible electrodes for polymer solar cells. Journal of Materials Chemistry, 2012, 22, 24254.	6.7	103
281	Chemically modified graphene oxides as a hole transport layer in organic solar cells. Chemical Communications, 2012, 48, 8078.	4.1	105
282	Electrodynamically Sprayed Thin Films of Aqueous Dispersible Graphene Nanosheets: Highly Efficient Cathodes for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 3500-3507.	8.0	85
283	Synthesis of Nitrogen-Doped Graphene via Thermal Annealing Graphene with Urea. Chinese Journal of Chemical Physics, 2012, 25, 325-329.	1.3	28
284	Anchored palladium nanoparticles onto single walled carbon nanotubes: Efficient recyclable catalyst for N-containing heterocycles. RSC Advances, 2012, 2, 7523.	3.6	59
285	Noble metal (Pd, Ru, Rh, Pt, Au, Ag) doped graphene hybrids for electrocatalysis. Nanoscale, 2012, 4, 5002.	5.6	214

#	Article	IF	Citations
286	Reduction of Graphite Oxide with a Grignard Reagent for Facile In Situ Preparation of Electrically Conductive Polyolefin/Graphene Nanocomposites. Macromolecular Chemistry and Physics, 2012, 213, 720-728.	2.2	32
287	Graphene oxide and its reduction: modeling and experimental progress. RSC Advances, 2012, 2, 2643.	3.6	463
288	Atomic Oxygen on Graphite: Chemical Characterization and Thermal Reduction. Journal of Physical Chemistry C, 2012, 116, 9900-9908.	3.1	145
289	Constructing sacrificial bonds and hidden lengths for ductile graphene/polyurethane elastomers with improved strength and toughness. Journal of Materials Chemistry, 2012, 22, 12479.	6.7	151
290	Nanoporous nitrogen doped carbon modified graphene as electrocatalyst for oxygen reduction reaction. Journal of Materials Chemistry, 2012, 22, 12810.	6.7	138
291	Graphene Functionalisation with a Conjugated Poly(fluorene) by Click Coupling: Striking Electronic Properties in Solution. Chemistry - A European Journal, 2012, 18, 4965-4973.	3.3	75
292	Efficient reduction of graphene oxide catalyzed by copper. Physical Chemistry Chemical Physics, 2012, 14, 3083.	2.8	12
293	A facile strategy to prepare functionalized graphene via intercalation, grafting and self-exfoliation of graphite oxide. Journal of Materials Chemistry, 2012, 22, 13460.	6.7	54
294	Synthesis of a porous birnessite manganese dioxide hierarchical structure using thermally reduced graphene oxide paper as a sacrificing template for supercapacitor application. New Journal of Chemistry, 2012, 36, 1490.	2.8	45
295	Transforming collagen wastes into doped nanocarbons for sustainable energy applications. Green Chemistry, 2012, 14, 1689.	9.0	65
296	Effect of temperature and time on the exfoliation and de-oxygenation of graphite oxide by thermal reduction. Journal of Materials Science, 2012, 47, 5097-5105.	3.7	36
297	Exfoliation and dispersion of graphene in ethanol-water mixtures. Frontiers of Materials Science, 2012, 6, 176-182.	2.2	59
298	A molecular understanding of the gas-phase reduction and doping of graphene oxide. Nano Research, 2012, 5, 361-368.	10.4	16
299	One pot synthesis of RGO/PbS nanocomposite and its near infrared photoresponse study. Applied Physics A: Materials Science and Processing, 2012, 107, 995-1001.	2.3	24
300	The preparation of graphene hybrid films decorated with poly[2-methoxy-5-(2â€²-ethyl-hexyloxy)-1,4-phenylene vinylene] particles prepared by non-solvent induced precipitation. Carbon, 2012, 50, 216-224.	10.3	28
301	The effect of the parent graphite on the structure of graphene oxide. Carbon, 2012, 50, 275-282.	10.3	188
302	Annealing a graphene oxide film to produce a free standing high conductive graphene film. Carbon, 2012, 50, 659-667.	10.3	287
303	Thermally reduced graphite oxide as positive electrode in Vanadium Redox Flow Batteries. Carbon, 2012, 50, 828-834.	10.3	129

#	Article	IF	Citations
304	Flexible conductive graphene paper obtained by direct and gentle annealing of graphene oxide paper. Carbon, 2012, 50, 835-844.	10.3	204
305	Visible light driven photodynamic anticancer activity of graphene oxide/TiO2 hybrid. Carbon, 2012, 50, 994-1004.	10.3	144
306	The reduction of graphene oxide. Carbon, 2012, 50, 3210-3228.	10.3	4,247
307	Amorphous structural models for graphene oxides. Carbon, 2012, 50, 1690-1698.	10.3	114
308	Escherichia coli bacteria reduce graphene oxide to bactericidal graphene in a self-limiting manner. Carbon, 2012, 50, 1853-1860.	10.3	497
309	Synthesis of few-layer graphene over gold nanoclusters supported on MgO. Carbon, 2012, 50, 2252-2263.	10.3	25
310	Graphene nanosheets reduced by a multi-step process as high-performance electrode material for capacitive deionisation. Carbon, 2012, 50, 2315-2321.	10.3	146
311	Highly responsive hydrogen gas sensing by partially reduced graphite oxide thin films at room temperature. Carbon, 2012, 50, 4061-4067.	10.3	71
312	Combustion synthesis of graphene oxideâ€“TiO2 hybrid materials for photodegradation of methyl orange. Carbon, 2012, 50, 4093-4101.	10.3	218
313	Preparation and characterization of graphene and Ni-decorated graphene using flower petals as the precursor material. Carbon, 2012, 50, 4123-4129.	10.3	64
314	Advanced nanostructured photocatalysts based on reduced graphene oxideâ€“TiO2 composites for degradation of diphenhydramine pharmaceutical and methyl orange dye. Applied Catalysis B: Environmental, 2012, 123-124, 241-256.	20.2	270
315	Nanocrystal manganese oxide (Mn3O4, MnO) anchored on graphite nanosheet with improved electrochemical Li-storage properties. Electrochimica Acta, 2012, 66, 271-278.	5.2	125
316	The synthesis, characterization and electrochemical properties of Multi-Wall Carbon Nanotube-induced vanadium oxide nanosheet composite as a novel cathode material for lithium ion batteries. Electrochimica Acta, 2012, 74, 32-38.	5.2	60
317	Cyanate ester resin/graphene nanocomposite: Curing dynamics and network formation. European Polymer Journal, 2012, 48, 1034-1041.	5.4	67
318	Directed nanoparticle reduction on graphene. Materials Today, 2012, 15, 118-125.	14.2	34
319	An investigation of the electrical transport properties of graphene-oxide thin films. Materials Chemistry and Physics, 2012, 132, 29-33.	4.0	203
320	The synthesis and properties of ZnOâ€“graphene nano hybrid for photodegradation of organic pollutant in water. Materials Chemistry and Physics, 2012, 132, 673-681.	4.0	222
321	The effects of functionalized graphene nanosheets on the thermal and mechanical properties of epoxy composites for anisotropic conductive adhesives (ACAs). Microelectronics Reliability, 2012, 52, 595-602.	1.7	97

#	Article	IF	Citations
322	Synthesis of ZnO and Au tethered ZnO pyramid-like microflower for photocatalytic degradation of orange II. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 190-196.	3.5	36
323	Spectroscopic study of plasma-facing graphite tiles modified by electron and proton irradiation. Nuclear Instruments & Methods in Physics Research B, 2012, 274, 145-147.	1.4	8
324	Gas sensor based on p-phenylenediamine reduced graphene oxide. Sensors and Actuators B: Chemical, 2012, 163, 107-114.	7.8	223
325	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.	1.8	76
326	High yield graphene and few-layer graphene synthesis assisted by microwaves. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1009-1011.	2.7	7
327	Chemical functionalization of graphene and its applications. Progress in Materials Science, 2012, 57, 1061-1105.	32.8	1,612
328	Preparation and characterization of graphene oxide/poly(vinyl alcohol) composite nanofibers via electrospinning. Journal of Applied Polymer Science, 2013, 127, 3026-3032.	2.6	108
329	Graphene-based surface modification on layered Li-rich cathode for high-performance Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 9954.	10.3	163
330	Self-assembly to monolayer graphene film with high electrical conductivity. Journal of Energy Chemistry, 2013, 22, 52-57.	12.9	18
331	Raman study on defective graphene: Effect of the excitation energy, type, and amount of defects. Physical Review B, 2013, 88, .	3.2	279
332	Probing Voltage Drop Variations in Graphene with Photoelectron Spectroscopy. Analytical Chemistry, 2013, 85, 4172-4177.	6.5	15
333	Raman studies of chemically and thermally reduced graphene oxide. AIP Conference Proceedings, 2013, , .	0.4	23
334	Highâ€Performance NO₂ Sensors Based on Chemically Modified Graphene. Advanced Materials, 2013, 25, 766-771.	21.0	404
335	Facile method for the environmentally friendly fabrication of reduced graphene oxide films assisted by a metal substrate and saline solution. RSC Advances, 2013, 3, 14286.	3.6	3
336	Reduced Graphene Oxide: Control of Water Miscibility, Conductivity, and Defects by Photocatalysis. ChemCatChem, 2013, 5, 3060-3067.	3.7	22
337	One-pot synthesis of gold nanoparticle/molybdenum cluster/graphene oxide nanocomposite and its photocatalytic activity. Applied Catalysis B: Environmental, 2013, 130-131, 270-276.	20.2	78
338	Post-fabrication, in situ laser reduction of graphene oxide devices. Applied Physics Letters, 2013, 102, .	3.3	76
339	Evolution of the band-gap and optical properties of graphene oxide with controllable reduction level. Carbon, 2013, 62, 157-164.	10.3	170

#	Article	IF	Citations
340	Electrical and spectroscopic investigations on the reduction mechanism of graphene oxide. Carbon, 2013, 55, 126-132.	10.3	48
341	Nitrogen doped graphene nanosheet supported platinum nanoparticles as high performance electrochemical homocysteine biosensors. Journal of Materials Chemistry B, 2013, 1, 4655.	5.8	58
342	Enhancement of electrocatalytic activity for oxygen reduction reaction in alkaline and acid media from electrospun nitrogen-doped carbon nanofibers by surface modification. RSC Advances, 2013, 3, 15655.	3.6	32
343	Balancing Light Absorptivity and Carrier Conductivity of Graphene Quantum Dots for High-Efficiency Bulk Heterojunction Solar Cells. ACS Nano, 2013, 7, 7207-7212.	14.6	171
344	Hydrothermal Deoxygenation of Graphene Oxide: Chemical and Structural Evolution. Chemistry - an Asian Journal, 2013, 8, 2070-2078.	3.3	55
345	Graphene materials with different structures prepared from the same graphite by the Hummers and Brodie methods. Carbon, 2013, 65, 156-164.	10.3	345
346	Polyphenols attached graphene nanosheets for high efficiency NIR mediated photodestruction of cancer cells. Materials Science and Engineering C, 2013, 33, 1498-1505.	7.3	64
347	The production of activated carbon from cation exchange resin for high-performance supercapacitor. Journal of Solid State Electrochemistry, 2013, 17, 1749-1758.	2.5	21
348	One pot synthesis of a highly water-dispersible hybrid glucose carbides and reduced graphene oxide material with superior electrical capacitance. Journal of Materials Science, 2013, 48, 8277-8286.	3.7	8
349	Photoinduced Charge Transfer within Polyaniline-Encapsulated Quantum Dots Decorated on Graphene. ACS Applied Materials & Interfaces, 2013, 5, 8105-8110.	8.0	36
350	Chemical and electrochemical study of fabrics coated with reduced graphene oxide. Applied Surface Science, 2013, 279, 46-54.	6.1	75
351	Grapheneâ€"platinum nanohybrid as a robust and low-cost counter electrode for dye-sensitized solar cells. Nanoscale, 2013, 5, 12237.	5.6	76
352	Graphene oxide nanoplatelets composite membrane with hydrophilic and antifouling properties for wastewater treatment. Journal of Membrane Science, 2013, 448, 223-230.	8.2	522
355	Enhanced photoluminescence from zinc oxide by plasmonic resonance of reduced graphene oxide. Journal of Applied Physics, 2013, 114, 074903.	2.5	18
356	Nanotribological Properties of Fluorinated, Hydrogenated, and Oxidized Graphenes. Tribology Letters, 2013, 50, 137-144.	2.6	123
357	Solution-based production of graphene nano-platelets containing extremely low amounts of heteroatoms. Solid State Sciences, 2013, 25, 1-5.	3.2	9
358	Photocatalytic reduction of GO/ZnO to achieve GNRs for optoelectronic applications. Journal Physics D: Applied Physics, 2013, 46, 385101.	2.8	12
359	Effect of the state of distribution of supported Pt nanoparticles on effective Pt utilization in polymer electrolyte fuel cells. Physical Chemistry Chemical Physics, 2013, 15, 11236.	2.8	99

#	Article	IF	Citations
360	The Preparation of Hierarchical Flowerlike NiO/Reduced Graphene Oxide Composites for High Performance Supercapacitor Applications. Energy & Fuels, 2013, 27, 6304-6310.	5.1	111
361	Electrophoretic deposition of reduced graphene oxide nanosheets on TiO2 nanotube arrays for dye-sensitized solar cells. Electrochimica Acta, 2013, 111, 216-222.	5.2	61
362	Supercritical alcohols as solvents and reducing agents for the synthesis of reduced graphene oxide. Carbon, 2013, 64, 207-218.	10.3	86
363	Efficient surfactant-free and chemical reductant-free solvothermal deoxidation of solution-processable sub-stoichiometric graphene oxide. Journal of Materials Chemistry C, 2013, 1, 7246.	5.5	3
364	TiO2-graphene oxide nanocomposite as advanced photocatalytic materials. Chemistry Central Journal, 2013, 7, 41.	2.6	215
365	Electrical and mechanical properties of graphene oxide on flexible substrate. Journal of Physics and Chemistry of Solids, 2013, 74, 1783-1793.	4.0	39
366	Structural Evolution of Reduced Graphene Oxide of Varying Carbon sp² Fractions Investigated via Coulomb Blockade Transport. Journal of Physical Chemistry C, 2013, 117, 26776-26782.	3.1	30
367	Sulfuric Acid Intercalated Graphite Oxide for Graphene Preparation. Scientific Reports, 2013, 3, 3439.	3.3	98
368	The dual role of Znâ€"acid medium for one-step rapid synthesis of M@rGO (M = Au, Pt, Pd and Ag) hybrid nanostructures at room temperature. Chemical Communications, 2013, 49, 8949.	4.1	45
369	Revealing the ultrafast process behind the photoreduction of graphene oxide. Nature Communications, 2013, 4, 2560.	12.8	132
370	Structural Instability of Transferred Graphene Grown by Chemical Vapor Deposition against Heating. Journal of Physical Chemistry C, 2013, 117, 22123-22130.	3.1	22
371	A highly ordered cubic mesoporous silica/graphene nanocomposite. Nanoscale, 2013, 5, 9604.	5.6	32
372	Thermal Reduction of Graphene Oxide in Organic Solvents for Producing Colloidal Suspensions of Reduced Graphene Oxide Sheets. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 901-915.	2.1	3
373	Analysis of heat-treated graphite oxide by X-ray photoelectron spectroscopy. Journal of Materials Science, 2013, 48, 8171-8198.	3.7	147
374	Chemisorption of thermal reduced graphene oxide nano-layer film on TNTZ surface and its tribological behavior. Surface and Coatings Technology, 2013, 232, 331-339.	4.8	34
375	Multiwalled carbon nanotubesâ€"V2O5 integrated composite with nanosized architecture as a cathode material for high performance lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 15459.	10.3	67
376	Evidence for Nonradiative Energy Transfer in Graphene-Oxide-Based Hybrid Structures. Journal of Physical Chemistry C, 2013, 117, 25298-25304.	3.1	19
377	Dispersion Stability of Functionalized Graphene in Aqueous Sodium Dodecyl Sulfate Solutions. Langmuir, 2013, 29, 14831-14838.	3.5	83

#	Article	IF	Citations
378	Formation of graphene on SiC by chemical vapor deposition with liquid sources. Surface and Coatings Technology, 2013, 231, 189-192.	4.8	10
379	Work function engineering of single layer graphene by irradiation-induced defects. Applied Physics Letters, 2013, 103, .	3.3	113
380	A bifunctional approach for the preparation of graphene and ionic liquid-based hybrid gels. Journal of Materials Chemistry A, 2013, 1, 43-48.	10.3	32
381	Reduced graphene oxide with a highly restored Ï€-conjugated structure for inkjet printing and its use in all-carbon transistors. Nano Research, 2013, 6, 842-852.	10.4	68
382	Large-area graphene-based thin films using rapid reduction of graphene-oxide. , 2013, , .		1
383	Properties of magnetron-sputtered moisture barrier layer on transparent polyimide/graphene nanocomposite film. Thin Solid Films, 2013, 544, 324-330.	1.8	37
384	Transparent polyimide nanocomposites with improved moisture barrier using graphene. Polymer International, 2013, 62, 1302-1309.	3.1	45
385	Towards low temperature thermal exfoliation of graphite oxide for graphene production. Carbon, 2013, 62, 11-24.	10.3	132
386	Self healing of defected graphene. Applied Physics Letters, 2013, 102, .	3.3	105
387	Preparation and electrical conductivity of novel vanadate borate glass system containing graphene oxide. Journal of Non-Crystalline Solids, 2013, 376, 117-125.	3.1	31
388	Stepwise Reduction of Immobilized Monolayer Graphene Oxides. Chemistry of Materials, 2013, 25, 4839-4848.	6.7	12
389	The effect of degree of reduction on the electrical properties of functionalized graphene sheets. Applied Physics Letters, 2013, 102, .	3.3	110
390	A green reduction of graphene oxide via starch-based materials. RSC Advances, 2013, 3, 21466.	3.6	62
391	Preparation of reduced graphene oxide by infrared irradiation induced photothermal reduction. Nanoscale, 2013, 5, 9040.	5.6	73
392	Sodium Humate Functionalized Graphene and Its Unique Reinforcement Effects for Rubber. Industrial & Engineering Chemistry Research, 2013, 52, 14592-14600.	3.7	40
393	Graphite oxide-based graphene materials as positive electrodes in vanadium redox flow batteries. Journal of Power Sources, 2013, 241, 349-354.	7.8	57
394	Thermally reduced graphite and graphene oxides in VRFBs. Nano Energy, 2013, 2, 1322-1328.	16.0	37
395	Hydrogen-Terminated Graphene by Laser Vaporization-Controlled Condensation of Graphite Oxide. Observation of Hydrogen-Capped Carbon Chains C_nH^{â€“}, C_nH⁺, and C_nH₂⁺ (n) Tj ETQq1 1 0.784314 rgBT	3.1	8

#	Article	IF	Citations
396	Graphene oxide decorated diatom silica particles as new nano-hybrids: towards smart natural drug microcarriers. Journal of Materials Chemistry B, 2013, 1, 6302.	5.8	92
397	Origin of the Chemical and Kinetic Stability of Graphene Oxide. Scientific Reports, 2013, 3, 2484.	3.3	163
398	Size-dependent nanographene oxide as a platform for efficient carboplatin release. Journal of Materials Chemistry B, 2013, 1, 6107.	5.8	24
399	Microbial oxidation of dispersed graphite by nitrifying bacteria 2011.2. Nanoscale, 2013, 5, 8982.	5.6	13
400	Instantaneous reduction of graphene oxide at room temperature. RSC Advances, 2013, 3, 12621.	3.6	34
401	Surface plasmon resonance induced reduction of high quality Ag/graphene composite at water/toluene phase for reduction of H2O2. Applied Surface Science, 2013, 265, 578-584.	6.1	18
402	Critical temperatures in the synthesis of graphene-like materials by thermal exfoliationâ€"reduction of graphite oxide. Carbon, 2013, 52, 476-485.	10.3	236
403	Characterisation Techniques. , 2013, , 229-332.		8
404	Oxidative pit formation in pristine, hydrogenated and dehydrogenated graphene. Applied Surface Science, 2013, 264, 853-863.	6.1	8
405	A study of the electrical properties of graphene-incorporated direct-patternable ZnO thin films. Thin Solid Films, 2013, 529, 234-237.	1.8	8
406	Biocompatibility of microbially reduced graphene oxide in primary mouse embryonic fibroblast cells. Colloids and Surfaces B: Biointerfaces, 2013, 105, 58-66.	5.0	73
407	Graphene-related nanomaterials: tuning properties by functionalization. Nanoscale, 2013, 5, 4541.	5.6	614
408	Reduction of graphene oxide with substituted borohydrides. Journal of Materials Chemistry A, 2013, 1, 1892-1898.	10.3	127
409	Semiconducting graphene: converting graphene from semimetal to semiconductor. Nanoscale, 2013, 5, 1353.	5.6	158
410	Reduction of graphite oxide to graphene with laser irradiation. Carbon, 2013, 52, 574-582.	10.3	155
411	Electrolyte-induced precipitation of graphene oxide in its aqueous solution. Journal of Colloid and Interface Science, 2013, 391, 21-27.	9.4	53
412	Recent advances in the efficient reduction of graphene oxide and its application as energy storage electrode materials. Nanoscale, 2013, 5, 52-71.	5.6	432
413	Inkjet printed acrylic formulations based on UV-reduced graphene oxide nanocomposites. Journal of Materials Science, 2013, 48, 1249-1255.	3.7	69

#	Article	IF	Citations
414	Graphite oxide platelets functionalized by poly(ionic liquid) brushes and their chemical reduction. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	9
415	Effect of pH-induced chemical modification of hydrothermally reduced graphene oxide on supercapacitor performance. Journal of Power Sources, 2013, 233, 313-319.	7.8	180
416	Binding of atomic oxygen on graphene from small epoxy clusters to a fully oxidized surface. Carbon, 2013, 54, 482-488.	10.3	50
417	Cobalt and nitrogen-cofunctionalized graphene as a durable non-precious metal catalyst with enhanced ORR activity,. Journal of Materials Chemistry A, 2013, 1, 3593.	10.3	169
418	Hydrothermal synthesis of coral-like Au/ZnO catalyst and photocatalytic degradation of Orange II dye. Materials Research Bulletin, 2013, 48, 2375-2382.	5.2	52
419	Synthesis of Fe0.3Co0.7/rGO nanoparticles as a high performance catalyst for the hydrolytic dehydrogenation of ammonia borane. International Journal of Hydrogen Energy, 2013, 38, 7291-7297.	7.1	30
420	Spectrum analysis of the reduction degree of two-step reduced graphene oxide (GO) and the polymer/r-GO composites. Materials Chemistry and Physics, 2013, 143, 240-246.	4.0	15
421	Nano/micro tribological behaviors of a self-assembled graphene oxide nanolayer on Ti/titanium alloy substrates. Applied Surface Science, 2013, 285, 937-944.	6.1	50
422	A novel method to control atomic defects in graphene sheets, by selective surface reactions. Applied Surface Science, 2013, 283, 566-570.	6.1	9
423	The influence of wrinkling in reduced graphene oxide on their adsorption and catalytic properties. Carbon, 2013, 60, 157-168.	10.3	90
424	Salting-out as a scalable, in-series purification method of graphene oxides from microsheets to quantum dots. Carbon, 2013, 63, 45-53.	10.3	22
425	A novel conducting copolymer: Investigation of its matrix properties for cholesterol biosensor applications. Sensors and Actuators B: Chemical, 2013, 182, 322-329.	7.8	28
426	Generation of B-Doped Graphene Nanoplatelets Using a Solution Process and Their Supercapacitor Applications. ACS Nano, 2013, 7, 19-26.	14.6	532
427	One-Step Electrophoretic Deposition of Reduced Graphene Oxide and Ni(OH)₂ Composite Films for Controlled Syntheses Supercapacitor Electrodes. Journal of Physical Chemistry B, 2013, 117, 1616-1627.	2.6	195
428	Carbon nanotube growth at 420Â°C using nickel/carbon composite thin films as catalyst supports. Diamond and Related Materials, 2013, 34, 76-83.	3.9	20
429	Reduced graphene oxide with superior cycling stability and rate capability for sodium storage. Carbon, 2013, 57, 202-208.	10.3	491
430	Role of graphene defects in corrosion of graphene-coated Cu(111) surface. Applied Physics Letters, 2013, 102, .	3.3	79
431	Adsorption of hexavalent chromium from aqueous solutions by graphene modified with cetyltrimethylammonium bromide. Journal of Colloid and Interface Science, 2013, 394, 183-191.	9.4	257

#	Article	IF	Citations
432	Graphene: Promises, Facts, Opportunities, and Challenges in Nanomedicine. Chemical Reviews, 2013, 113, 3407-3424.	47.7	643
433	Towards full repair of defects in reduced graphene oxide films by two-step graphitization. Nano Research, 2013, 6, 216-233.	10.4	199
434	Achieving concentrated graphene dispersions in water/acetone mixtures by the strategy of tailoring Hansen solubility parameters. Journal Physics D: Applied Physics, 2013, 46, 025301.	2.8	133
435	Gas sensors using carbon nanomaterials: A review. Sensors and Actuators B: Chemical, 2013, 179, 32-45.	7.8	549
436	Oxygenated Functional Group Density on Graphene Oxide: Its Effect on Cell Toxicity. Particle and Particle Systems Characterization, 2013, 30, 148-157.	2.3	173
437	Fabrication of High-Surface-Area Graphene/Polyaniline Nanocomposites and Their Application in Supercapacitors. ACS Applied Materials & Interfaces, 2013, 5, 2685-2691.	8.0	309
438	A low-temperature method to produce highly reduced graphene oxide. Nature Communications, 2013, 4, 1539.	12.8	436
439	Electrochemical anodic oxidation of nitrogen doped carbon nanowall films: X-ray photoelectron and Micro-Raman spectroscopy study. Applied Surface Science, 2013, 273, 49-57.	6.1	44
440	Scaleable ultra-thin and high power density graphene electrochemical capacitor electrodes manufactured by aqueous exfoliation and spray deposition. Carbon, 2013, 52, 337-346.	10.3	47
441	Nitrogen-Doped Partially Reduced Graphene Oxide Rewritable Nonvolatile Memory. ACS Nano, 2013, 7, 3607-3615.	14.6	67
442	Selfâ€Organized Graphene Nanosheets with Corrugated, Ordered Tip Structures for Highâ€Performance Flexible Field Emission. Small, 2013, 9, 2182-2188.	10.0	17
443	Binding SnO₂ Nanocrystals in Nitrogenâ€Doped Graphene Sheets as Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2013, 25, 2152-2157.	21.0	1,089
444	Functional Graphenic Materials Via a Johnsonâ^'Claisen Rearrangement. Advanced Functional Materials, 2013, 23, 1873-1882.	14.9	59
445	A Method for Fabricating an Ultrathin Multilayer Film Composed of Poly(pâ€phenylenevinylene) and Reduced Graphene Oxide on a Plastic Substrate for Flexible Optoelectronic Applications. Advanced Functional Materials, 2013, 23, 4657-4666.	14.9	9
446	Noncovalent Functionalization of Graphene Attaching [6,6]-Phenyl-C61-butyric Acid Methyl Ester (PCBM) and Application as Electron Extraction Layer of Polymer Solar Cells. ACS Nano, 2013, 7, 4070-4081.	14.6	144
447	Graphene oxide-encapsulated carbon nanotube hybrids for high dielectric performance nanocomposites with enhanced energy storage density. Nanoscale, 2013, 5, 3847.	5.6	182
448	Electrochemical reduction of graphene oxide films in aqueous and organic solutions. Electrochimica Acta, 2013, 89, 84-89.	5.2	122
449	Graphene in lithium ion battery cathode materials: A review. Journal of Power Sources, 2013, 240, 66-79.	7.8	534

#	Article	IF	Citations
450	Palladium Nanoparticleâ€"Graphene Catalysts for Asymmetric Hydrogenation. Catalysis Letters, 2013, 143, 539-546.	2.6	37
451	Chemical Structure of Oxidized Multilayer Epitaxial Graphene: A Density Functional Theory Study. Journal of Physical Chemistry C, 2013, 117, 6267-6274.	3.1	20
452	High quality graphene sheets from graphene oxide by hot-pressing. Carbon, 2013, 54, 143-148.	10.3	82
453	Largeâ€Scale Production of Nanographene Sheets with a Controlled Mesoporous Architecture as Highâ€Performance Electrochemical Electrode Materials. ChemSusChem, 2013, 6, 1084-1090.	6.8	49
454	Covalently Bonded Chitosan on Graphene Oxide via Redox Reaction. Materials, 2013, 6, 911-926.	2.9	89
455	The extended growth of graphene oxide flakes using ethanol CVD. Nanoscale, 2013, 5, 2945.	5.6	31
456	Preparation and application of thionin-bridged grapheneâ€"gold nanoparticle nanohybrids. Journal of Materials Chemistry B, 2013, 1, 1432.	5.8	31
457	Enhanced conductivity of reduced graphene oxide decorated with aluminium oxide nanoparticles by oxygen annealing. Nanoscale, 2013, 5, 5725.	5.6	15
458	Direct Exfoliation of Graphite to Graphene in Aqueous Media with Diazaperopyrenium Dications. Advanced Materials, 2013, 25, 2740-2745.	21.0	84
459	Graphene Nanoelectrodes: Fabrication and Size-Dependent Electrochemistry. Journal of the American Chemical Society, 2013, 135, 10073-10080.	13.7	89
460	Preparation and characteristics of graphene oxide and its thin films. Surface and Coatings Technology, 2013, 231, 487-491.	4.8	44
461	Mesoporous carbon nitride synthesized by nanocasting with urea/formaldehyde and metal-free catalytic oxidation of cyclic olefins. Catalysis Today, 2013, 204, 156-163.	4.4	46
462	Vulcanization kinetics of graphene/natural rubber nanocomposites. Polymer, 2013, 54, 3314-3323.	3.8	166
463	Electrophoretic deposition of graphene oxide as a corrosion inhibitor for sintered NdFeB. Applied Surface Science, 2013, 279, 416-423.	6.1	120
464	CoCO3 submicrocube/graphene composites with high lithium storage capability. Nano Energy, 2013, 2, 276-282.	16.0	263
465	Epoxy nanocomposites filled with thermotropic liquid crystalline epoxy grafted graphene oxide. RSC Advances, 2013, 3, 8915.	3.6	57
466	A Switch of the Oxidation State of Graphene Oxide on a Surface Plasmon Resonance Chip. ACS Applied Materials & Interfaces, 2013, 5, 2096-2103.	8.0	43
467	Highly Stable Grapheneâ€Based Multilayer Films Immobilized via Covalent Bonds and Their Applications in Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2013, 23, 2422-2435.	14.9	56

#	Article	IF	Citations
468	A route towards superhydrophobic graphene surfaces: surface-treated reduced graphene oxide spheres. Journal of Materials Chemistry A, 2013, 1, 7312.	10.3	85
469	Hydrogen Kinetics on Scalable Graphene Growth by Atmospheric Pressure Chemical Vapor Deposition with Acetylene. Journal of Physical Chemistry C, 2013, 117, 14348-14353.	3.1	72
470	Adsorption of Sodium Dodecyl Sulfate on Functionalized Graphene Measured by Conductometric Titration. Journal of Physical Chemistry B, 2013, 117, 7950-7958.	2.6	49
471	Reversible CO₂adsorption by an activated nitrogen doped graphene/polyaniline material. Nanotechnology, 2013, 24, 235703.	2.6	75
472	Reduced Graphene Oxideâ€Functionalized High Electron Mobility Transistors for Novel Recognition Pattern Labelâ€Free DNA Sensors. Small, 2013, 9, 4045-4050.	10.0	36
473	Solvothermal One-Step Synthesis of Niâ€“Al Layered Double Hydroxide/Carbon Nanotube/Reduced Graphene Oxide Sheet Ternary Nanocomposite with Ultrahigh Capacitance for Supercapacitors. ACS Applied Materials & Interfaces, 2013, 5, 5443-5454.	8.0	246
474	Using hydroxylamine as a reducer to prepare N-doped graphene hydrogels used in high-performance energy storage. Journal of Power Sources, 2013, 238, 492-500.	7.8	102
475	Reduced Graphite Oxide/Nano Sn: A Superior Composite Anode Material for Rechargeable Lithiumâ€Ion Batteries. ChemSusChem, 2013, 6, 898-904.	6.8	33
476	Exploring the Origin of Blue and Ultraviolet Fluorescence in Graphene Oxide. Journal of Physical Chemistry Letters, 2013, 4, 2035-2040.	4.6	63
477	CO gas sensing properties of direct-patternable TiO2 thin films containing multi-wall carbon nanotubes. Thin Solid Films, 2013, 529, 89-93.	1.8	21
478	Improved photovoltaic performance of dye sensitized solar cell using ZnOâ€“graphene nano-composites. Journal of Alloys and Compounds, 2013, 578, 257-260.	5.5	46
479	A green and facile one-pot synthesis of Agâ€“ZnO/RGO nanocomposite with effective photocatalytic activity for removal of organic pollutants. Ceramics International, 2013, 39, 5083-5091.	4.8	117
480	Two-phase hydrothermal synthesis of TiO2â€“graphene hybrids with improved photocatalytic activity. Journal of Alloys and Compounds, 2013, 572, 199-204.	5.5	61
481	Functionalized Graphene as an Ultrathin Seed Layer for the Atomic Layer Deposition of Conformal High-k Dielectrics on Graphene. ACS Applied Materials & Interfaces, 2013, 5, 11515-11519.	8.0	31
482	High quality reduced graphene oxide through repairing with multi-layered graphene ball nanostructures. Scientific Reports, 2013, 3, 3251.	3.3	76
483	Mechanical properties and instabilities of ordered graphene oxide C6O monolayers. RSC Advances, 2013, 3, 24337.	3.6	38
484	Interfacial Stress Transfer in Graphene Oxide Nanocomposites. ACS Applied Materials & Interfaces, 2013, 5, 456-463.	8.0	144
485	Field-effect transistors based on single graphene oxide nanoribbon from longitude-unzipped carbon nanotubes. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	7

#	Article	IF	Citations
486	Reflectance response of optical fiber sensor coated with graphene oxide towards ethanol. , 2013, , .		0
487	One-Pot Microbial Method to Synthesize Dual-Doped Graphene and Its Use as High-Performance Electrocatalyst. Scientific Reports, 2013, 3, 3499.	3.3	53
488	Graphene oxide-based drug delivery vehicles: functionalization, characterization, and cytotoxicity evaluation. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	73
489	The modification of graphene with alcohols and its use in shape memory polyurethane composites. Polymer International, 2013, 62, 54-63.	3.1	36
490	Enhanced thermal conductivity and dimensional stability of flexible polyimide nanocomposite film by addition of functionalized graphene oxide. Polymer International, 2013, 62, 827-835.	3.1	91
491	Atomic Covalent Functionalization of Graphene. Accounts of Chemical Research, 2013, 46, 77-86.	15.6	209
492	Broadband photoresponse and rectification of novel graphene oxide/n-Si heterojunctions. Optics Express, 2013, 21, 26034.	3.4	43
493	Fabrication and characterisation of graphene oxide-epoxy nanocomposite. , 2013, , .		5
494	Facile Synthesis of Graphene Nanosheets and their Anode Electrochemical Performances in Lithium Ion Batteries. Advanced Materials Research, 2013, 800, 522-525.	0.3	0
495	Characterization of local charge distribution of polyethylene terephthalate film and influence as a graphene substrate. Applied Physics Letters, 2013, 103, 033107.	3.3	6
496	Fabrication and its Transient Optical Properties of Graphene Thin Films. Materials Science Forum, 0, 743-744, 892-902.	0.3	2
497	Graphene Growth and Carbon Diffusion Process during Vacuum Heating on Cu(111)/Al₂O₃Substrates. Japanese Journal of Applied Physics, 2013, 52, 110122.	1.5	19
498	Synthesis of High Quality Graphene Films by Atmospheric Pressure CVD and their Application in Laser Q-Switching. Advanced Materials Research, 0, 747, 514-517.	0.3	1
499	Polyolefins: 50 years after Ziegler and Natta II. Advances in Polymer Science, 2013, , .	0.8	23
500	Carbon monoxide-induced reduction and healing of graphene oxide. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	2.1	17
501	Polyolefin Nanocomposites and Hybrid Catalysts. Advances in Polymer Science, 2013, , 279-309.	0.8	17
502	Characterization of graphene oxide reduced through chemical and biological processes. Journal of Physics: Conference Series, 2013, 433, 012001.	0.4	22
503	Synthesis and characterization of graphite nanoplatelets. Journal of Physics: Conference Series, 2013, 433, 012003.	0.4	2

#	Article	IF	Citations
504	Characterization of X-ray irradiated graphene oxide coatings using X-ray diffraction, X-ray photoelectron spectroscopy, and atomic force microscopy. Powder Diffraction, 2013, 28, 68-71.	0.2	66
505	Analysis of Reduced Graphene Oxides by X-ray Photoelectron Spectroscopy and Electrochemical Capacitance. Chemistry Letters, 2013, 42, 924-926.	1.3	103
506	Proton Conductivity of Graphene Oxide Hybrids with Covalently Functionalized Alkylamines. Chemistry Letters, 2013, 42, 1412-1414.	1.3	28
507	In situ Raman spectroelectrochemistry of graphene oxide. Physica Status Solidi (B): Basic Research, 2013, 250, 2662-2667.	1.5	26
508	Fast and low-temperature reduction of graphene oxide films using ammonia plasma. AIP Advances, 2013, 3, .	1.3	35
509	Temperature and pH effect on reduction of graphene oxides in aqueous solution. Materials Research Express, 2014, 1, 035605.	1.6	11
510	Graphene oxide-gadolinium (III) oxide nanoparticle composite: a novel MR contrast agent with high longitudinal and transverse relaxivity. Materials Research Express, 2014, 1, 045008.	1.6	5
511	Complete coverage of reduced graphene oxide on silicon dioxide substrates. Chinese Physics B, 2014, 23, 088104.	1.4	3
512	The effect of surface reactions of O, O₃and N on film properties during the growth of silica-like films. Journal Physics D: Applied Physics, 2014, 47, 224005.	2.8	2
513	Synergistic Interactions between Activated Carbon Fabrics and Toxic Hexavalent Chromium. ECS Journal of Solid State Science and Technology, 2014, 3, M1-M9.	1.8	27
515	The effect of varying carboxylic-group content in reduced graphene oxides on the anticorrosive properties of PMMA/reduced graphene oxide composites. EXPRESS Polymer Letters, 2014, 8, 908-919.	2.1	40
516	Advanced anticorrosive coatings prepared from electroactive polyimide/graphene nanocomposites with synergistic effects of redox catalytic capability and gas barrier properties. EXPRESS Polymer Letters, 2014, 8, 243-255.	2.1	79
517	Surface plasmon enhanced photoluminescence of ZnO nanorods by capping reduced graphene oxide sheets. Optics Express, 2014, 22, 11436.	3.4	51
518	Tunable optical properties of graphene oxide by tailoring the oxygen functionalities using infrared irradiation. Nanotechnology, 2014, 25, 495704.	2.6	77
519	Effect of H2 Reduction Temperature on the Properties of Reduced Graphene Oxide and Copper Matrix Composites. Acta Metallurgica Sinica (English Letters), 2014, 27, 924-929.	2.9	13
520	Micro x-ray photoemission and Raman spectroscopic studies on bandgap tuning of graphene oxide achieved by solid state ionics device. Applied Physics Letters, 2014, 105, 183101.	3.3	23
521	Effect of nitrogen doping on wetting and photoactive properties of laser processed zinc oxide-graphene oxide nanocomposite layers. Journal of Applied Physics, 2014, 116, .	2.5	14
522	Modulating AÎ²_{33â€“42} Peptide Assembly by Graphene Oxide. Chemistry - A European Journal, 2014, 20, 7236-7240.	3.3	69

#	Article	IF	Citations
523	Graphene Oxides Prepared by Hummersâ€™, Hofmannâ€™s, and Staudenmaierâ€™s Methods: Dramatic Influences on Heavyâ€Metalâ€Ion Adsorption. ChemPhysChem, 2014, 15, 2922-2929.	2.1	68
524	Electrical and thermal conductivities of reduced graphene oxide/polystyrene composites. Applied Physics Letters, 2014, 104, .	3.3	103
525	Vacancy filling effect of graphene on photoluminescence behavior of ZnO/graphene nanocomposite. Physica Status Solidi - Rapid Research Letters, 2014, 8, 836-840.	2.4	9
526	Simultaneous Laserâ€Induced Reduction and Nitrogen Doping of Graphene Oxide in Titanium Oxide/Graphene Oxide Composites. Journal of the American Ceramic Society, 2014, 97, 2718-2724.	3.8	22
527	Graphene oxide hole transport layers for large area, high efficiency organic solar cells. Applied Physics Letters, 2014, 105, .	3.3	53
528	Physical study of roomâ€temperatureâ€cured epoxy/thermally reduced graphene oxides with various contents of oxygenâ€containing groups. Polymer International, 2014, 63, 1765-1770.	3.1	19
529	Controlled oxidation level of reduced graphene oxides and its effect on thermoelectric properties. Macromolecular Research, 2014, 22, 1104-1108.	2.4	51
530	Enhancement of the thermal conductivity of polymer composites with Ag-graphene hybrids as fillers. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2142-2149.	1.8	27
531	Reduced graphene oxide coated optical fiber for methanol and ethanol vapor detection at room temperature. Proceedings of SPIE, 2014, , .	0.8	7
532	In situ chemical synthesis of SnO₂/reduced graphene oxide nanocomposites as anode materials for lithium-ion batteries. Journal of Materials Research, 2014, 29, 617-624.	2.6	17
533	Large-scale graphene-based composite films for flexible transparent electrodes fabricated by electrospray deposition. Materials Research Express, 2014, 1, 046404.	1.6	2
534	Reductive patterning of graphene oxide by vacuumâ€“ultraviolet irradiation in high vacuum. Applied Physics Express, 2014, 7, 075101.	2.4	12
535	Defective Graphene Foam: A Platinum Catalyst Support for PEMFCs. Journal of the Electrochemical Society, 2014, 161, F838-F844.	2.9	42
536	The Preparation of Graphene Oxide and Its Derivatives and Their Application in Bio-Tribological Systems. Lubricants, 2014, 2, 137-161.	2.9	136
537	Porous graphene supported Pt catalysts for proton exchange membrane fuel cells. Electrochimica Acta, 2014, 132, 356-363.	5.2	61
538	Pyrolytic carbon from graphite oxide as a negative electrode of sodium-ion battery. Journal of Power Sources, 2014, 263, 158-162.	7.8	41
539	Hydrothermal synthesis and potential applicability of rhombohedral siderite as a high-capacity anode material for lithium ion batteries. Journal of Power Sources, 2014, 253, 251-255.	7.8	49
540	Electrochemical determination of xanthine oxidase inhibitor drug in urate lowering therapy using graphene nanosheets modified electrode. Electrochimica Acta, 2014, 117, 360-366.	5.2	16

#	Article	IF	Citations
541	Graphene oxide-assisted production of carbon nitrides using a solution process and their photocatalytic activity. Carbon, 2014, 66, 119-125.	10.3	49
542	Synthesis of boron and nitrogen co-doped graphene nano-platelets using a two-step solution process and catalytic properties for oxygen reduction reaction. Solid State Sciences, 2014, 33, 1-5.	3.2	23
543	Influence of graphite size on the synthesis and reduction of graphite oxides. Current Applied Physics, 2014, 14, S74-S79.	2.4	21
544	Actuation triggered exfoliation of graphene oxide at low temperature for electrochemical capacitor applications. Carbon, 2014, 68, 748-754.	10.3	47
545	Designing Si/porous-C composite with buffering voids as high capacity anode for lithium-ion batteries. Electrochimica Acta, 2014, 125, 206-217.	5.2	74
546	Superparamagnetic zinc ferrite spinelâ€"graphene nanostructures for fast wastewater purification. Carbon, 2014, 69, 230-238.	10.3	208
547	Ï€â€Conjugated Molecules Crosslinked Grapheneâ€Based Ultrathin Films and Their Tunable Performances in Organic Nanoelectronics. Advanced Functional Materials, 2014, 24, 543-554.	14.9	26
548	Grapheneviasonication assisted liquid-phase exfoliation. Chemical Society Reviews, 2014, 43, 381-398.	38.1	976
549	Electrochemically â€œWritingâ€•Graphene from Graphene Oxide. Small, 2014, 10, 3555-3559.	10.0	27
550	Simultaneous synthesis and patterning of graphene electrodes by reactive inkjet printing. Carbon, 2014, 66, 172-177.	10.3	39
551	Room-temperature cured hydrophobic epoxy/graphene composites as corrosion inhibitor for cold-rolled steel. Carbon, 2014, 66, 144-153.	10.3	313
552	Decoration of surface-carboxylated graphene oxide with luminescent Sm3+-complexes. Journal of Materials Science, 2014, 49, 2672-2679.	3.7	29
553	Far-infrared reduced graphene oxide as high performance electrodes for supercapacitors. Carbon, 2014, 75, 201-208.	10.3	32
554	Solidâ€State Supercapacitor Based on Activated Carbon Cloths Exhibits Excellent Rate Capability. Advanced Materials, 2014, 26, 2676-2682.	21.0	660
555	Enhancement of the mechanical properties of grapheneâ€"copper composites with grapheneâ€"nickel hybrids. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 599, 247-254.	5.6	241
556	Anisotropic Etching of Graphite Flakes with Water Vapor to Produce Armchairâ€Edged Graphene. Small, 2014, 10, 2809-2814.	10.0	23
557	Sodium functionalized graphene oxide coated titanium plates for improved corrosion resistance and cell viability. Applied Surface Science, 2014, 293, 124-131.	6.1	30
558	A practical carbon dioxide gas sensor using room-temperature hydrogen plasma reduced graphene oxide. Sensors and Actuators B: Chemical, 2014, 193, 692-700.	7.8	248

#	Article	IF	Citations
559	Water-soluble highly fluorinated graphite oxide. RSC Advances, 2014, 4, 1378-1387.	3.6	69
560	Structural Diversity of Bulky Graphene Materials. Small, 2014, 10, 2200-2214.	10.0	41
561	Three-dimensional magnetic graphene oxide foam/Fe3O4 nanocomposite as an efficient absorbent for Cr(VI) removal. Journal of Materials Science, 2014, 49, 4236-4245.	3.7	155
562	Adsorption of soluble oil from water to graphene. Environmental Science and Pollution Research, 2014, 21, 6495-6505.	5.3	17
563	Functionalized graphene sheets coordinating metal cations. Carbon, 2014, 75, 81-94.	10.3	57
564	Graphene as an Electron Shuttle for Silver Deoxidation: Removing a Key Barrier to Plasmonics and Metamaterials for SERS in the Visible. Advanced Functional Materials, 2014, 24, 1864-1878.	14.9	85
565	Graphene oxide-based transparent conductive films. Progress in Materials Science, 2014, 64, 200-247.	32.8	263
566	Functionalized graphene grown by oxidative dehydrogenation chemistry. Carbon, 2014, 71, 11-19.	10.3	7
567	Synthesis of grapheneâ€“carbon sphere hybrid aerogel with silver nanoparticles and its catalytic and adsorption applications. Chemical Engineering Journal, 2014, 244, 160-167.	12.7	100
568	Highly Active Bidirectional Electron Transfer by a Selfâ€Assembled Electroactive Reducedâ€Grapheneâ€Oxideâ€Hybridized Biofilm. Angewandte Chemie - International Edition, 2014, 53, 4480-4483.	13.8	296
569	One-pot synthesis of Ag-iron oxide/reduced graphene oxide nanocomposite via hydrothermal treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 446, 102-108.	4.7	47
570	Influence of long-chain alkylamine-modified graphene oxide on the crystallization, mechanical and electrical properties of isotactic polypropylene nanocomposites. Chemical Engineering Journal, 2014, 244, 552-560.	12.7	138
571	Graphene production via electrochemical reduction of graphene oxide: Synthesis and characterisation. Chemical Engineering Journal, 2014, 251, 422-434.	12.7	477
572	Synthesis of Pt nanoparticles on electrochemically reduced graphene oxide by potentiostatic and alternate current methods. Materials Characterization, 2014, 89, 56-68.	4.4	20
573	Electron spectroscopy of the main allotropes of carbon. Surface and Interface Analysis, 2014, 46, 966-969.	1.8	53
574	Pulsed laser irradiation for environment friendly reduction of graphene oxide suspensions. Applied Surface Science, 2014, 301, 183-188.	6.1	79
575	Synthesis, characterization and cytotoxicity of phosphorylcholine oligomer grafted graphene oxide. Carbon, 2014, 71, 166-175.	10.3	31
576	Carbon as catalyst and support for electrochemical energy conversion. Carbon, 2014, 75, 5-42.	10.3	443

#	Article	IF	Citations
577	Quantitative evaluation of electrophoretic deposition kinetics of graphene oxide. Carbon, 2014, 67, 656-661.	10.3	65
578	High-stability quartz crystal microbalance ammonia sensor utilizing graphene oxide isolation layer. Sensors and Actuators B: Chemical, 2014, 196, 183-188.	7.8	45
579	Synthesized Magnetic Manganese Ferrite Nanoparticles on Activated Carbon for Sulfamethoxazole Removal. Clean - Soil, Air, Water, 2014, 42, 1199-1207.	1.1	48
580	Investigation of the Thermal Stability of the Carbon Framework of Graphene Oxide. Chemistry - A European Journal, 2014, 20, 984-989.	3.3	49
581	25th Anniversary Article: Labelâ€Free Electrical Biodetection Using Carbon Nanostructures. Advanced Materials, 2014, 26, 1154-1175.	21.0	80
582	Proton selective ionic graphene-based membrane for high concentration direct methanol fuel cells. Journal of Membrane Science, 2014, 467, 217-225.	8.2	74
583	Capacitive behaviour of thermally reduced graphene oxide in a novel ionic liquid containing di-cationic charge. Synthetic Metals, 2014, 193, 110-116.	3.9	24
584	Synthesis and electrochemical properties of conducting polyaniline/graphene hybrids by click chemistry. RSC Advances, 2014, 4, 23936-23942.	3.6	13
585	Gate-Tunable Photoemission from Graphene Transistors. Nano Letters, 2014, 14, 2837-2842.	9.1	32
586	Workâ€Functionâ€Tunable Chlorinated Graphene Oxide as an Anode Interface Layer in Highâ€Efficiency Polymer Solar Cells. Advanced Energy Materials, 2014, 4, 1400591.	19.5	85
587	Role of oxygen functionalities on the synthesis of photocatalytically active grapheneâ€“TiO2 composites. Applied Catalysis B: Environmental, 2014, 158-159, 329-340.	20.2	117
588	Oxygenâ€Free Highly Conductive Graphene Papers. Advanced Functional Materials, 2014, 24, 4878-4885.	14.9	42
589	Pdâ€“WO3/reduced graphene oxide hierarchical nanostructures as efficient hydrogen gas sensors. International Journal of Hydrogen Energy, 2014, 39, 8169-8179.	7.1	163
590	Single stage electrochemical exfoliation method for the production of few-layer graphene via intercalation of tetraalkylammonium cations. Carbon, 2014, 66, 340-350.	10.3	215
591	PdCu nanoparticles supported on graphene: an efficient and recyclable catalyst for reduction of nitroarenes. Tetrahedron, 2014, 70, 6100-6105.	1.9	87
592	Selective Detection of Acetone and Hydrogen Sulfide for the Diagnosis of Diabetes and Halitosis Using SnO₂ Nanofibers Functionalized with Reduced Graphene Oxide Nanosheets. ACS Applied Materials & Interfaces, 2014, 6, 2588-2597.	8.0	347
593	Amplified impedimetric aptasensor based on gold nanoparticles covalently bound graphene sheet for the picomolar detection of ochratoxin A. Analytica Chimica Acta, 2014, 806, 128-135.	5.4	115
594	Macroporous polymer nanocomposites synthesised from high internal phase emulsion templates stabilised by reduced graphene oxide. Polymer, 2014, 55, 395-402.	3.8	39

#	Article	IF	Citations
595	Facile and novel electrochemical preparation of a grapheneâ€"transition metal oxide nanocomposite for ultrasensitive electrochemical sensing of acetaminophen and phenacetin. Nanoscale, 2014, 6, 207-214.	5.6	94
596	Synthesis of three-dimensional graphene oxide foam for the removal of heavy metal ions. Chemical Physics Letters, 2014, 593, 122-127.	2.6	94
597	Work Function Modulation and Thermal Stability of Reduced Graphene Oxide Gate Electrodes in MOS Devices. ACS Applied Materials & Interfaces, 2014, 6, 786-794.	8.0	38
598	Moderately reduced graphene oxide as hole transport layer in polymer solar cells via thermal assisted spray process. Applied Surface Science, 2014, 296, 140-146.	6.1	42
599	Effect of dry oxidation on the energy gap and chemical composition of CVD graphene on nickel. Applied Surface Science, 2014, 293, 1-11.	6.1	25
600	Gold nanoparticle decorated reduced graphene oxide sheets with high catalytic activity for Ullmann homocoupling. RSC Advances, 2014, 4, 5243.	3.6	75
601	Swarming carbon dots for folic acid mediated delivery of doxorubicin and biological imaging. Journal of Materials Chemistry B, 2014, 2, 698-705.	5.8	191
602	Density control of carbon nanowalls grown by CH4/H2 plasma and their electrical properties. Carbon, 2014, 68, 380-388.	10.3	64
603	Highly transparent and conducting graphene-embedded ZnO films with enhanced photoluminescence fabricated by aerosol synthesis. Nanotechnology, 2014, 25, 085701.	2.6	9
604	Production of monolayer, trilayer, and multi-layer graphene sheets by a re-expansion and exfoliation method. Journal of Materials Science, 2014, 49, 2315-2323.	3.7	15
605	One-pot hydrothermal synthesis of reduced graphene oxide/Ni(OH)2 films on nickel foam for high performance supercapacitors. Electrochimica Acta, 2014, 115, 155-164.	5.2	187
606	Aqueous-Phase Oxidation of Epitaxial Graphene on the Silicon Face of SiC(0001). Journal of Physical Chemistry C, 2014, 118, 1014-1020.	3.1	14
607	Room temperature reduction of multilayer graphene oxide film on a copper substrate: Penetration and participation of copper phase in redox reactions. Carbon, 2014, 69, 563-570.	10.3	25
608	Tunable self-discharge process of carbon nanotube based supercapacitors. Nano Energy, 2014, 4, 14-22.	16.0	120
609	Nano ZnO@reduced graphene oxide composite for high performance supercapacitor: Green synthesis in supercritical fluid. Electrochimica Acta, 2014, 120, 65-72.	5.2	148
610	TiO2/graphene nanocomposites from the direct reduction of graphene oxide by metal evaporation. Carbon, 2014, 68, 319-329.	10.3	30
611	CdS nanoparticle sensitized titanium dioxide decorated graphene for enhancing visible light induced photoanode. Applied Surface Science, 2014, 320, 772-779.	6.1	39
612	Controlled electrochemical growth of Co(OH)‹sub›2‹/sub›flakes on 3D multilayered graphene foam for high performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 19075-19083.	10.3	117

#	Article	IF	Citations
613	Concomitant Thionation and Reduction of Graphene Oxide Through Solid/Gas Metathetical Sulfidation Reactions at High Temperatures. Phosphorus, Sulfur and Silicon and the Related Elements, 2014, 189, 721-737.	1.6	11
614	A facile green synthesis of reduced graphene oxide by using pollen grains of Peltophorum pterocarpum and study of its electrochemical behavior. RSC Advances, 2014, 4, 56910-56917.	3.6	28
615	Mechanical behavior related to various bonding states in amorphous Siâ€“Câ€“N hard films. Surface and Coatings Technology, 2014, 258, 353-358.	4.8	20
616	In Situ Reduction of Graphene Oxide in an Epoxy Resin Thermally Cured with Amine. Macromolecular Materials and Engineering, 2014, 299, 757-763.	3.6	13
617	Preparation of graphene oxide/epoxy nanocomposites with significantly improved mechanical properties. Journal of Applied Physics, 2014, 116, .	2.5	147
618	Tuning the grade of graphene: Gamma ray irradiation of free-standing graphene oxide films in gaseous phase. Applied Surface Science, 2014, 322, 126-135.	6.1	46
619	Graphitic Petal Microâ€Supercapacitor Electrodes for Ultraâ€High Power Density. Energy Technology, 2014, 2, 897-905.	3.8	45
620	Biosynthesis approach to nitrogen doped graphene by denitrifying bacteria CFMI-1. RSC Advances, 2014, 4, 40292-40295.	3.6	6
621	Formation and catalytic activity of Pt supported on oxidized graphene for the CO oxidation reaction. Physical Chemistry Chemical Physics, 2014, 16, 7887-7895.	2.8	75
622	Hydrogen spillover at sub-2 nm Pt nanoparticles by electrochemical hydrogen loading. Journal of Materials Chemistry A, 2014, 2, 3954.	10.3	42
623	Rapid synthesis of a flower-like ZnO/rGO/Ag micro/nano-composite with enhanced photocatalytic performance by a one-step microwave method. RSC Advances, 2014, 4, 60300-60305.	3.6	26
624	Origin of the enhanced visible-light photocatalytic activity of CNT modified g-C3N4 for H2 production. Physical Chemistry Chemical Physics, 2014, 16, 8106.	2.8	160
625	Post-heating effects on the physical and electrochemical capacitive properties of reduced graphene oxide paper. Journal of Materials Chemistry A, 2014, 2, 5077.	10.3	44
626	Synergistic effects of hydrophobicity and gas barrier properties on the anticorrosion property of PMMA nanocomposite coatings embedded with graphene nanosheets. Polymer Chemistry, 2014, 5, 1049-1056.	3.9	127
627	Investigating the interaction of dye molecules with graphene oxide by using a surface plasmon resonance technique. RSC Advances, 2014, 4, 50789-50794.	3.6	18
628	Bi-functional co-sensitization of graphene oxide sheets and Ir nanoparticles on p-type Co₃O₄ nanofibers for selective acetone detection. Journal of Materials Chemistry B, 2014, 2, 7160-7167.	5.8	70
629	Direct observation of the work function evolution of graphene-two-dimensional metal contacts. Journal of Materials Chemistry C, 2014, 2, 8042-8046.	5.5	21
630	Edge-enriched porous graphene nanoribbons for high energy density supercapacitors. Journal of Materials Chemistry A, 2014, 2, 7484.	10.3	58

#	Article	IF	Citations
631	Simultaneous Sheet Cross-Linking and Deoxygenation in the Graphene Oxide Solâ€"Gel Transition. Journal of Physical Chemistry C, 2014, 118, 28855-28860.	3.1	35
632	Oneâ€Step In Situ Biosynthesis of Graphene Oxideâ€"Bacterial Cellulose Nanocomposite Hydrogels. Macromolecular Rapid Communications, 2014, 35, 1706-1711.	3.9	110
633	Chemical Bonding of Partially Fluorinated Graphene. Journal of Physical Chemistry C, 2014, 118, 26402-26408.	3.1	80
634	Solution-processed anchoring zinc oxide quantum dots on covalently modified graphene oxide. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	3
635	Selective catalytic burning of graphene by SiOxlayer depletion. Nanoscale, 2014, 6, 1474-1479.	5.6	3
636	Harnessing catalysis to enhance scanning probe nanolithography. Nanoscale, 2014, 6, 4998-5007.	5.6	23
638	Toward the enhanced photoactivity and photostability of ZnO nanospheres via intimate surface coating with reduced graphene oxide. Journal of Materials Chemistry A, 2014, 2, 9380.	10.3	204
639	Edge-enriched graphene quantum dots for enhanced photo-luminescence and supercapacitance. Nanoscale, 2014, 6, 11988-11994.	5.6	406
640	Self-assembly of a thin highly reduced graphene oxide film and its high electrocatalytic activity. Nanotechnology, 2014, 25, 405601.	2.6	15
641	Facile Mechanochemical Synthesis of Nano SnO₂/Graphene Composite from Coarse Metallic Sn and Graphite Oxide: An Outstanding Anode Material for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2014, 20, 4055-4063.	3.3	98
642	Mechanically strong high performance layered polypyrrole nano fibre/graphene film for flexible solid state supercapacitor. Carbon, 2014, 79, 554-562.	10.3	109
643	Production of novel FeOOH/reduced graphene oxide hybrids and their performance as oxygen reduction reaction catalysts. Carbon, 2014, 80, 127-134.	10.3	42
645	Defect Evolution in Graphene upon Electrochemical Lithiation. ACS Applied Materials & Interfaces, 2014, 6, 17626-17636.	8.0	30
646	Graphene quantum dots derived from platelet graphite nanofibers by liquid-phase exfoliation. Acta Materialia, 2014, 78, 314-319.	7.9	23
647	Rapid Atmospheric Pressure Plasma Jet Processed Reduced Graphene Oxide Counter Electrodes for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 15105-15112.	8.0	71
648	Palladium Nanoparticles Supported on Vertically Oriented Reduced Graphene Oxide for Methanol Electroâ€Oxidation. ChemSusChem, 2014, 7, 2907-2913.	6.8	40
649	Capillary-Force-Assisted Self-Assembly (CAS) of Highly Ordered and Anisotropic Graphene-Based Thin Films. Journal of Physical Chemistry C, 2014, 118, 259-267.	3.1	22
650	Reflectance response of tapered optical fiber coated with graphene oxide nanostructured thin film for aqueous ethanol sensing. Optics Communications, 2014, 331, 320-324.	2.1	39

#	Article	IF	Citations
651	Dual-Phase Spinel MnCo₂O₄and Spinel MnCo₂O₄/Nanocarbon Hybrids for Electrocatalytic Oxygen Reduction and Evolution. ACS Applied Materials & Interfaces, 2014, 6, 12684-12691.	8.0	322
652	Microstructure and Spectral Characteristics of Graphene Oxide during Reduction. Integrated Ferroelectrics, 2014, 151, 21-30.	0.7	4
653	Investigation of a hydrothermal reduced graphene oxide nano coating on Ti substrate and its nano-tribological behavior. Surface and Coatings Technology, 2014, 254, 298-304.	4.8	45
654	Graphene oxide and reduced graphene oxide studied by the XRD, TEM and electron spectroscopy methods. Journal of Electron Spectroscopy and Related Phenomena, 2014, 195, 145-154.	1.7	1,297
655	Liquid Crystal Size Selection of Large-Size Graphene Oxide for Size-Dependent N-Doping and Oxygen Reduction Catalysis. ACS Nano, 2014, 8, 9073-9080.	14.6	116
656	Transition of gas sensing behavior in non-reduced graphene oxides with thermal annealing. Materials Letters, 2014, 136, 164-167.	2.6	17
657	Thermal conductivity enhancement of epoxy adhesive using graphene sheets as additives. International Journal of Thermal Sciences, 2014, 86, 276-283.	4.9	126
658	Soluble conducting polymer-functionalized graphene oxide for air-operable actuator fabrication. Journal of Materials Chemistry A, 2014, 2, 4788-4794.	10.3	23
659	Cross-Linking with Diamine Monomers To Prepare Composite Graphene Oxide-Framework Membranes with Varying d-Spacing. Chemistry of Materials, 2014, 26, 2983-2990.	6.7	644
660	Chemical Control of Graphene Architecture: Tailoring Shape and Properties. ACS Nano, 2014, 8, 9733-9754.	14.6	107
661	Large-scale solvothermal synthesis of fluorescent carbon nanoparticles. Nanotechnology, 2014, 25, 395601.	2.6	8
662	Tuning TiO₂nanoparticle morphology in grapheneâ€“TiO₂hybrids by graphene surface modification. Nanoscale, 2014, 6, 6710-6719.	5.6	60
663	Green synthesis of silver nanoparticles on nitrogen-doped graphene for hydrogen peroxide detection. Electrochimica Acta, 2014, 146, 646-653.	5.2	115
664	Facile Synthesis of Graphite-Reduced Graphite Oxide Coreâ€“Sheath Fiber via Direct Exfoliation of Carbon Fiber for Supercapacitor Application. ACS Applied Materials & Interfaces, 2014, 6, 9496-9502.	8.0	30
665	A novel Îµ-HNIW-based insensitive high explosive incorporated with reduced graphene oxide. Journal of Thermal Analysis and Calorimetry, 2014, 117, 1187-1199.	3.6	47
666	Graphene/activated carbon supercapacitors with sulfonated-polyetheretherketone as solid-state electrolyte and multifunctional binder. Solid State Sciences, 2014, 37, 80-85.	3.2	29
667	Graphene oxideâ€“aluminium oxyhydroxide interaction and its application for the effective adsorption of fluoride. RSC Advances, 2014, 4, 53711-53721.	3.6	115
668	Large-Area, Conductive and Flexible Reduced Graphene Oxide (RGO) Membrane Fabricated by Electrophoretic Deposition (EPD). ACS Applied Materials & Interfaces, 2014, 6, 1747-1753.	8.0	100

#	Article	IF	Citations
669	Facile synthesis of Ag-reduced graphene oxide hybrids and their application in electromagnetic interference shielding. Applied Physics A: Materials Science and Processing, 2014, 116, 25-32.	2.3	33
670	Real-time monitoring of graphene oxide reduction in acrylic printable composite inks. Applied Physics A: Materials Science and Processing, 2014, 117, 1289-1293.	2.3	9
671	Synthesis and Th(IV) sorption characteristics of functionalised graphene oxide. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 489-496.	1.5	6
672	Performance of open-cell foam of Cuâ€"Ni alloy integrated with graphene as a shield against electromagnetic interference. Materials Letters, 2014, 122, 244-247.	2.6	28
673	Ionâ€Transfer Voltammetry at Carbon Nanofibre Membranes Produced by 500â€‰Â°C Graphitisation/Graphenisation of Electrospun Polyâ€Acrylonitrile. Electroanalysis, 2014, 26, 69-75.	2.9	2
674	Observation of Active Sites for Oxygen Reduction Reaction on Nitrogen-Doped Multilayer Graphene. ACS Nano, 2014, 8, 6856-6862.	14.6	519
675	Nanohybrids from NiCoAl-LDH coupled with carbon for pseudocapacitors: understanding the role of nano-structured carbon. Nanoscale, 2014, 6, 3097-3104.	5.6	176
676	Dielectrophoresis of graphene oxide nanostructures for hydrogen gas sensor at room temperature. Sensors and Actuators B: Chemical, 2014, 194, 296-302.	7.8	68
677	Chemical Reduction of Individual Graphene Oxide Sheets as Revealed by Electrostatic Force Microscopy. Journal of the American Chemical Society, 2014, 136, 6546-6549.	13.7	66
678	Creation of nanopores on graphene planes with MgO template for preparing high-performance supercapacitor electrodes. Nanoscale, 2014, 6, 6577-6584.	5.6	127
679	Grapheneâ€"BODIPY as a photocatalyst in the photocatalyticâ€"biocatalytic coupled system for solar fuel production from CO2. Journal of Materials Chemistry A, 2014, 2, 5068.	10.3	99
680	A simple route to prepare free-standing graphene thin film for high-performance flexible electrode materials. RSC Advances, 2014, 4, 30422.	3.6	6
681	Distribution of Graphene Oxide and TiO2-Graphene Oxide Composite in A549 Cells. Biological Trace Element Research, 2014, 159, 393-398.	3.5	44
682	Enhanced Supercapacitive Performance of Chemically Grown Cobaltâ€"Nickel Hydroxides on Three-Dimensional Graphene Foam Electrodes. ACS Applied Materials & Interfaces, 2014, 6, 2450-2458.	8.0	164
683	Selective extraction of humic acids from an anthropogenic Amazonian dark earth and from a chemically oxidized charcoal. Biology and Fertility of Soils, 2014, 50, 1223-1232.	4.3	75
684	Enhancement of physical properties of electroactive polyimide nanocomposites by addition of graphene nanosheets. Polymer International, 2014, 63, 1011-1017.	3.1	13
685	Single-layer graphene oxide reinforced metal matrix composites by laser sintering: Microstructure and mechanical property enhancement. Acta Materialia, 2014, 80, 183-193.	7.9	158
686	The effect of dispersion status with functionalized graphenes for electric double-layer capacitors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 190, 59-65.	3.5	11

#	Article	IF	Citations
687	Decoration of graphene with nickel nanoparticles: study of the interaction with hydrogen. Journal of Materials Chemistry A, 2014, 2, 1039-1046.	10.3	67
688	Borane-modified graphene-based materials as CO2 adsorbents. Carbon, 2014, 79, 450-456.	10.3	53
689	Harnessing the chemistry of graphene oxide. Chemical Society Reviews, 2014, 43, 5288.	38.1	709
690	â€œButterfly Effectâ€•in CuO/Graphene Composite Nanosheets: A Small Interfacial Adjustment Triggers Big Changes in Electronic Structure and Li-Ion Storage Performance. ACS Applied Materials & Interfaces, 2014, 6, 17236-17244.	8.0	110
691	Self-Assembly of a Monolayer Graphene Oxide Film Based on Surface Modification of Substrates and its Vapor-Phase Reduction. Journal of Physical Chemistry C, 2014, 118, 9009-9017.	3.1	13
692	Flexible Polyimide Films Hybrid with Functionalized Boron Nitride and Graphene Oxide Simultaneously To Improve Thermal Conduction and Dimensional Stability. ACS Applied Materials & Interfaces, 2014, 6, 8639-8645.	8.0	179
693	Photophysical Properties and Singlet Oxygen Generation Efficiencies of Waterâ€Soluble Fullerene Nanoparticles. Photochemistry and Photobiology, 2014, 90, 997-1003.	2.5	29
694	Carborane functionalized graphene oxide, a precursor for conductive self-assembled monolayers. Carbon, 2014, 67, 336-343.	10.3	26
695	Effective reduction of graphene oxide thin films by a fluorinating agent: Diethylaminosulfur trifluoride. Carbon, 2014, 76, 133-140.	10.3	59
696	A facile approach to prepare graphene via solvothermal reduction of graphite oxide. Materials Research Bulletin, 2014, 55, 48-52.	5.2	33
697	On the improvement of photoelectrochemical performance and finite element analysis of reduced graphene oxideâ€"BiVO4 composite electrodes. Journal of Electroanalytical Chemistry, 2014, 716, 8-15.	3.8	40
698	Upgrading non-oxidized carbon nanotubes by thermally decomposed hydrazine. Applied Surface Science, 2014, 305, 46-54.	6.1	9
699	Atomic resolution imaging and spectroscopy of barium atoms and functional groups on graphene oxide. Ultramicroscopy, 2014, 145, 66-73.	1.9	12
700	Nano LiFePO4 in reduced graphene oxide framework for efficient high-rate lithium storage. Journal of Power Sources, 2014, 251, 386-392.	7.8	53
701	Enhanced Symmetric Supercapacitive Performance of Co(OH)2 Nanorods Decorated Conducting Porous Graphene Foam Electrodes. Electrochimica Acta, 2014, 129, 334-342.	5.2	91
702	Graphene oxide modification with graft polymers via nitroxide mediated radical polymerization. Polymer, 2014, 55, 2347-2355.	3.8	43
703	Eco-friendly and simple radiation-based preparation of graphene and its application to organic solar cells. Journal Physics D: Applied Physics, 2014, 47, 015105.	2.8	13
704	Novel graphene-based nanostructures: physicochemical properties and applications. Russian Chemical Reviews, 2014, 83, 251-279.	6.5	49

#	Article	IF	Citations
705	Surfactant-assisted synthesis of reduced graphene oxide/polyaniline composites by gamma irradiation for supercapacitors. Journal of Materials Science, 2014, 49, 5667-5675.	3.7	33
706	Synthesis of Sizeâ€Controlled Ag@Co@Ni/Graphene Coreâ€"Shell Nanoparticles for the Catalytic Hydrolysis of Ammonia Borane. Chemistry - an Asian Journal, 2014, 9, 487-493.	3.3	12
707	Science and Engineering of Graphene Oxide. Particle and Particle Systems Characterization, 2014, 31, 619-638.	2.3	33
708	Plasma functionalization of carbon nanowalls and its effect on attachment of fibroblast-like cells. Journal Physics D: Applied Physics, 2014, 47, 265203.	2.8	43
709	Pdâ€"Co bimetallic nanoparticles supported on graphene as a highly active catalyst for Suzukiâ€"Miyaura and Sonogashira cross-coupling reactions. Tetrahedron, 2014, 70, 5249-5253.	1.9	84
710	A powerful tool for graphene functionalization: Benzophenone mediated UV-grafting. Carbon, 2014, 77, 226-235.	10.3	41
711	Novel graphene papers with sporadic alkyl brushes on the basal plane as a high-capacity flexible anode for lithium ion batteries. Electrochimica Acta, 2014, 135, 478-486.	5.2	13
712	Spectroscopic evaluation of out-of-plane surface vibration bands from surface functionalization of graphite oxide by fluorination. Carbon, 2014, 77, 577-591.	10.3	11
713	Effects of processing and material parameters on synthesis of monolayer ultralarge graphene oxide sheets. Carbon, 2014, 77, 244-254.	10.3	61
714	Fabrication of three-dimensional graphene foam with high electrical conductivity and large adsorption capability. Applied Surface Science, 2014, 311, 808-815.	6.1	72
715	Chemically derived graphene. , 2014, , 50-80.		11
716	Effect of annealing of graphene layer on electrical transport and degradation of Au/graphene/n-type silicon Schottky diodes. Journal of Alloys and Compounds, 2014, 612, 265-272.	5.5	13
717	A highly efficient synthetic process of graphene films with tunable optical properties. Applied Surface Science, 2014, 314, 71-77.	6.1	24
718	Hydrogen-assisted pulsed KrF-laser irradiation for the in situ photoreduction of graphene oxide films. Carbon, 2014, 77, 857-867.	10.3	20
719	The value of mixed conduction for oxygen electroreduction on grapheneâ€"chitosan composites. Carbon, 2014, 73, 234-243.	10.3	14
720	A Highly Sensitive Carbendazim Sensor Based on Electrochemically Reduced Graphene Oxide. Electrochemistry, 2014, 82, 1061-1066.	1.4	10
721	Highly NO₂ sensitive caesium doped graphene oxide conductometric sensors. Beilstein Journal of Nanotechnology, 2014, 5, 1073-1081.	2.8	37
722	Effects of graphite oxide additions on the oxygen reduction reaction activity of a carbon alloy catalyst for a polymer electrolyte fuel cell cathode. Tanso, 2014, 2014, 159-164.	0.1	1

#	Article	IF	Citations
723	Friction and wear properties of graphene oxide/ultrahighâ€molecularâ€weight polyethylene composites under the lubrication of deionized water and normal saline solution. Journal of Applied Polymer Science, 2014, 131, .	2.6	30
724	A Direct Hybridization between Isocharged Nanosheets of Layered Metal Oxide and Graphene through a Surfaceâ€Modification Assembly Process. Chemistry - A European Journal, 2014, 20, 15459-15466.	3.3	10
725	Microbial oxidation of graphite by Acidithiobacillus ferrooxidans CFMI-1. RSC Advances, 2014, 4, 55044-55047.	3.6	25
727	Homogeneous dispersion of high-conductive reduced graphene oxide sheets for polymethylmethacrylate nanocomposites. Powder Diffraction, 2014, 29, 241-247.	0.2	7
728	Photoconductivity from photochemical N-doped graphene oxide thin films. Materials Research Innovations, 2015, 19, S11-S14.	2.3	1
729	Highly Conductive Graphene/Ag Hybrid Fibers for Flexible Fiber-Type Transistors. Scientific Reports, 2015, 5, 16366.	3.3	53
730	Femtosecond laser rapid fabrication of large-area rose-like micropatterns on freestanding flexible graphene films. Scientific Reports, 2015, 5, 17557.	3.3	30
731	Facile Noncovalent Formulation of Organo-soluble Chemically Reduced Graphene Oxide/Semiconducting Polymer Assembly. Chemistry Letters, 2015, 44, 685-687.	1.3	2
732	Sodium Alginate Decorated Carbon Nanotubes-Graphene Composite Aerogel for Heavy Metal Ions Detection. Electrochemistry, 2015, 83, 84-90.	1.4	24
733	Graphene oxide/carbon nanoparticle thin film based IR detector: Surface properties and device characterization. AIP Advances, 2015, 5, .	1.3	30
734	Large Scale Synthesis and Light Emitting Fibers of Tailor-Made Graphene Quantum Dots. Scientific Reports, 2015, 5, 14163.	3.3	48
735	Selective Area Band Engineering of Graphene using Cobalt-Mediated Oxidation. Scientific Reports, 2015, 5, 15380.	3.3	6
736	Tailoring the Composition of Bioâ€oil by Vaporâ€Phase Removal of Organic Acids. ChemSusChem, 2015, 8, 4256-4265.	6.8	16
737	Graphene Oxide Membranes with Tunable Semipermeability in Organic Solvents. Advanced Materials, 2015, 27, 3797-3802.	21.0	192
738	Preparation and properties of acrylonitrileâ€"butadiene rubberâ€"graphene nanocomposites. Journal of Applied Polymer Science, 2015, 132, .	2.6	38
739	Mesomeric Effects of Graphene Modified with Diazonium Salts: Substituent Type and Position Influence its Properties. Chemistry - A European Journal, 2015, 21, 17728-17738.	3.3	26
740	Sensitivity Enhancement in Nickel Hydroxide/3Dâ€Graphene as Enzymeless Glucose Detection. Electroanalysis, 2015, 27, 2363-2370.	2.9	16
741	Structural analysis of carbon materials by X-ray photoelectron spectroscopy using computational chemistry. Tanso, 2015, 2015, 181-189.	0.1	11

#	Article	IF	Citations
742	Miniaturized Supercapacitors: Focused Ion Beam Reduced Graphene Oxide Supercapacitors with Enhanced Performance Metrics. Advanced Energy Materials, 2015, 5, 1500665.	19.5	59
743	Spinel Manganeseâ€"Cobalt Oxide on Carbon Nanotubes as Highly Efficient Catalysts for the Oxygen Reduction Reaction. Energy Technology, 2015, 3, 1183-1189.	3.8	16
744	Graphene reduction dynamics unveiled. 2D Materials, 2015, 2, 031003.	4.4	6
745	Mechanoâ€Chemically Reduced Macroâ€"Mesoporous Hierarchical Graphene for Highâ€Performance Electric Doubleâ€Layer Capacitor Applications. Advanced Electronic Materials, 2015, 1, 1500123.	5.1	1
746	Plasma fluorination of vertically aligned carbon nanotubes: functionalization and thermal stability. Beilstein Journal of Nanotechnology, 2015, 6, 2263-2271.	2.8	20
747	Absorbance response of graphene oxide coated on tapered multimode optical fiber towards liquid ethanol. Journal of the European Optical Society-Rapid Publications, 2015, 10, 15019.	1.9	8
748	Electrochemical Oxidation of the Carbon Support to Synthesize Pt(Cu) and Pt-Ru(Cu) Core-Shell Electrocatalysts for Low-Temperature Fuel Cells. Catalysts, 2015, 5, 815-837.	3.5	16
749	Freestanding rGO-SWNT-STN Composite Film as an Anode for Li Ion Batteries with High Energy and Power Densities. Nanomaterials, 2015, 5, 2380-2390.	4.1	4
750	Polymer composites prepared by low-temperature post-irradiation polymerization of C₂F₄ in the presence of graphene-like material: synthesis and characterization. RSC Advances, 2015, 5, 9865-9874.	3.6	20
751	Self-assembly of thiolated graphene oxide onto a gold surface and in the supramolecular order of discotic liquid crystals. RSC Advances, 2015, 5, 47692-47700.	3.6	21
752	One step to synthesize the nanocomposites of graphene nanosheets and N-doped titania nanoplates with exposed {001} facets for enhanced visible-light photocatalytic activity. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	3
753	Firmly bonded grapheneâ€"silicon nanocomposites as high-performance anode materials for lithium-ion batteries. RSC Advances, 2015, 5, 46173-46180.	3.6	22
754	Energy and dose dependence of proton-irradiation damage in graphene. RSC Advances, 2015, 5, 31861-31865.	3.6	21
755	Green Synthesis for Advanced Materials of Graphene Oxide (GO) with ZnO for Enhanced Photocatalytic Activity at Room Temperature. , 2015, , 115-127.		0
756	Mechanically Stable Thermally Crosslinked Poly(acrylic acid)/Reduced Graphene Oxide Aerogels. ACS Applied Materials & Interfaces, 2015, 7, 6220-6229.	8.0	133
757	Soft nano-wrapping on graphene oxide by using metalâ€"organic network films composed of tannic acid and Fe ions. Physical Chemistry Chemical Physics, 2015, 17, 8609-8613.	2.8	58
758	X-ray photoelectron spectroscopy of reduced graphene oxide prepared by a novel green method. Vacuum, 2015, 119, 159-162.	3.5	39
759	The effect of temperature on thermoelectric properties of n-type Bi₂Te₃ nanowire/graphene layer-by-layer hybrid composites. Dalton Transactions, 2015, 44, 11755-11762.	3.3	33

#	Article	IF	Citations
760	Photocatalytic fabrics based on reduced graphene oxide and TiO2 coatings. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 199, 62-76.	3.5	26
761	Wettability modification of graphene oxide by removal of carboxyl functional groups using non-thermal effects of microwave. Thin Solid Films, 2015, 589, 364-368.	1.8	35
762	Non-covalent functionalization of reduced graphene oxide using sulfanilic acid azocromotrop and its application as a supercapacitor electrode material. Journal of Materials Chemistry A, 2015, 3, 7323-7331.	10.3	125
763	Graphene prepared by thermal reductionâ€"exfoliation of graphite oxide: Effect of raw graphite particle size on the properties of graphite oxide and graphene. Materials Research Bulletin, 2015, 70, 651-657.	5.2	72
764	Investigation on the use of graphene oxide as novel surfactant to stabilize weakly charged graphene nanoplatelets. Nanoscale Research Letters, 2015, 10, 212.	5.7	77
765	Reinforcement of nanostructured reduced graphene oxide: a facile approach to develop high-performance nanocomposite ultrafiltration membranes minimizing the trade-off between flux and selectivity. RSC Advances, 2015, 5, 46801-46816.	3.6	19
766	Nitrogen-doped Graphene-Supported Transition-metals Carbide Electrocatalysts for Oxygen Reduction Reaction. Scientific Reports, 2015, 5, 10389.	3.3	77
767	Surface activation of carbon paper with potassium dichromate lotion and application as a supercapacitor. Applied Surface Science, 2015, 349, 833-838.	6.1	12
768	One-step preparation of nitrogen doped titanium oxide/Au/reduced graphene oxide composite thin films for photocatalytic applications. RSC Advances, 2015, 5, 49771-49779.	3.6	21
769	Graphene based metal and metal oxide nanocomposites: synthesis, properties and their applications. Journal of Materials Chemistry A, 2015, 3, 18753-18808.	10.3	563
770	Interactions between Graphene Oxide and Biomolecules from Surface Chemistry and Spectroscopy. ACS Symposium Series, 2015, , 43-64.	0.5	5
771	Impact of different nanostructures of a PEDOT decorated 3D multilayered graphene foam by chemical methods on supercapacitive performance. RSC Advances, 2015, 5, 107864-107871.	3.6	17
772	Synthesis of mesoporous MCM-41 supported reduced graphene oxide-Fe catalyst for heterogeneous Fenton degradation of phenol. RSC Advances, 2015, 5, 103989-103998.	3.6	18
773	A facile approach for fabrication of mechanically strong graphene/polypyrrole films with large areal capacitance for supercapacitor applications. RSC Advances, 2015, 5, 102643-102651.	3.6	39
774	Carbon nanostructures reduced from graphite oxide as electrode materials for supercapacitors. Modern Electronic Materials, 2015, 1, 1-9.	0.6	10
775	Synthesis of ruthenium@graphene nanomaterials in propylene carbonate as re-usable catalysts for the solvent-free hydrogenation of benzene. Nano Structures Nano Objects, 2015, 2, 28-34.	3.5	33
776	The Raman spectrum of graphene oxide decorated with different metal nanoparticles. Proceedings of SPIE, 2015, , .	0.8	0
777	Characteristics of ultrasonication assisted assembly of gold nanoparticles in hydrazine reduced graphene oxide. RSC Advances, 2015, 5, 107348-107354.	3.6	21

#	Article	IF	Citations
778	Impact of synthesis routes on the chemical, optical, and electrical properties of graphene oxides and its derivatives. Current Applied Physics, 2015, 15, 1435-1444.	2.4	14
779	Excitation wavelength dependent UV fluorescence of dispersed modified graphene oxide: Effect of pH. Journal of Luminescence, 2015, 168, 269-275.	3.1	19
780	Synthesis and Characterization of Ag/Graphene Nano- composite. Rare Metal Materials and Engineering, 2015, 44, 2138-2142.	0.8	12
781	Graphene Oxide: A Fertile Nanosheet for Various Applications. Journal of the Physical Society of Japan, 2015, 84, 121012.	1.6	22
782	Trilayered Film with Excellent Tribological Performance: A Combination of Graphene Oxide and Perfluoropolyethers. Tribology Letters, 2015, 60, 1.	2.6	9
783	Preparation of activated carbon paper through a simple method and application as a supercapacitor. Journal of Materials Science, 2015, 50, 1586-1593.	3.7	24
784	Graphene Oxide Supported Molybdenum Cluster: First Heterogenized Homogeneous Catalyst for the Synthesis of Dimethylcarbonate from CO 2 and Methanol. Chemistry - A European Journal, 2015, 21, 3488-3494.	3.3	39
785	High-intensity ultrasonication as a way to prepare graphene/amorphous iron oxyhydroxide hybrid electrode with high capacity in lithium battery. Ultrasonics Sonochemistry, 2015, 24, 238-246.	8.2	12
786	Effect of ZnO nanoparticles doped graphene on static and dynamic mechanical properties of natural rubber composites. Composites Part A: Applied Science and Manufacturing, 2015, 70, 35-44.	7.6	91
787	Heavily nitrogen doped, graphene supercapacitor from silk cocoon. Electrochimica Acta, 2015, 160, 244-253.	5.2	172
788	Ultrafast Selfâ€Assembly of Graphene Oxideâ€Induced Monolithic NiCoâ€"Carbonate Hydroxide Nanowire Architectures with a Superior Volumetric Capacitance for Supercapacitors. Advanced Functional Materials, 2015, 25, 2109-2116.	14.9	230
789	The improved electrochemical performance of cross-linked 3D graphene nanoribbon monolith electrodes. Nanoscale, 2015, 7, 6504-6509.	5.6	29
790	The microwave adsorption behavior and microwave-assisted heteroatoms doping of graphene-based nano-carbon materials. Scientific Reports, 2014, 4, 5901.	3.3	55
791	Versatile photoluminescence from graphene and its derivatives. Carbon, 2015, 88, 86-112.	10.3	76
792	A simple and flexible route to large-area conductive transparent graphene thin-films. Synthetic Metals, 2015, 201, 67-75.	3.9	14
793	An advanced electrocatalyst with exceptional eletrocatalytic activity via ultrafine Pt-based trimetallic nanoparticles on pristine graphene. Carbon, 2015, 87, 116-127.	10.3	52
794	Facile synthesis of novel graphene sponge for high performance capacitive deionization. Scientific Reports, 2015, 5, 8458.	3.3	174
795	Low temperature combustion synthesis of nitrogen-doped graphene for metal-free catalytic oxidation. Journal of Materials Chemistry A, 2015, 3, 3432-3440.	10.3	194

#	Article	IF	Citations
796	Fluorescent Graphene Oxide via Polymer Grafting: An Efficient Nanocarrier for Both Hydrophilic and Hydrophobic Drugs. ACS Applied Materials & Interfaces, 2015, 7, 3512-3523.	8.0	81
797	Experimental design for optimizing the corrosion resistance of pulse reverse electrodeposited graphene oxide thin film. Journal of Solid State Electrochemistry, 2015, 19, 1367-1380.	2.5	31
798	Thermal Conductivity of Magnetically Aligned Grapheneâ€"Polymer Composites with Fe3O4-Decorated Graphene Nanosheets. Journal of Electronic Materials, 2015, 44, 658-666.	2.2	41
799	Ultrahigh Performance Supercapacitor from Lacey Reduced Graphene Oxide Nanoribbons. ACS Applied Materials & Interfaces, 2015, 7, 3110-3116.	8.0	122
800	Growth and composition of nanostructured and nanoporous cerium oxide thin films on a graphite foil. Nanoscale, 2015, 7, 4038-4047.	5.6	21
801	Transparent conductive reduced graphene oxide thin films produced by spray coating. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1-5.	5.1	27
802	Solution-processable reduced graphene oxide films as broadband terahertz wave impedance matching layers. Journal of Materials Chemistry C, 2015, 3, 2548-2556.	5.5	38
803	A new single/few-layered graphene oxide with a high dielectric constant of 10⁶: contribution of defects and functional groups. RSC Advances, 2015, 5, 14768-14779.	3.6	72
804	Hierarchical Micron-Sized Mesoporous/Macroporous Graphene with Well-Tuned Surface Oxygen Chemistry for High Capacity and Cycling Stability Liâ€"O₂ Battery. ACS Applied Materials & Interfaces, 2015, 7, 3389-3397.	8.0	96
805	Large-Area Preparation of High-Quality and Uniform Three-Dimensional Graphene Networks through Thermal Degradation of Graphene Oxideâ€"Nitrocellulose Composites. ACS Applied Materials & Interfaces, 2015, 7, 1057-1064.	8.0	32
806	Ferrocene-Functionalized Graphene Oxide Nanosheets: Efficient Electronic Communication between Ferrocene Centers across Graphene Nanosheets. Electrochimica Acta, 2015, 156, 267-273.	5.2	30
807	Investigation on the optimization, design and microwave absorption properties of reduced graphene oxide/tetrapod-like ZnO composites. RSC Advances, 2015, 5, 10197-10203.	3.6	70
808	Supercapacitors with graphene oxide separators and reduced graphite oxide electrodes. Journal of Power Sources, 2015, 279, 722-730.	7.8	59
809	CuNiO nanoparticles assembled on graphene as an effective platform for enzyme-free glucose sensing. Analytica Chimica Acta, 2015, 858, 49-54.	5.4	35
810	Particle size effects of sulfonated graphene supported Pt nanoparticles on ethanol electrooxidation. Electrochimica Acta, 2015, 162, 282-289.	5.2	46
811	Design of Experiments for Pulse Reverse Electrodeposition of Graphene Oxide toward Hydrogen Evolution Reaction. ECS Journal of Solid State Science and Technology, 2015, 4, M7-M17.	1.8	16
812	The influence of carbon nanotubes characteristics in their performance as positive electrodes in vanadium redox flow batteries. Sustainable Energy Technologies and Assessments, 2015, 9, 105-110.	2.7	25
813	An Overview of the Latest Grapheneâ€Based Sensors for Glucose Detection: the Effects of Graphene Defects. Electroanalysis, 2015, 27, 16-31.	2.9	91

#	Article	IF	Citations
814	Reduced graphene oxide for Liâ€“air batteries: The effect of oxidation time and reduction conditions for graphene oxide. Carbon, 2015, 85, 233-244.	10.3	78
815	A Metalâ€Free, Freeâ€Standing, Macroporous Graphene@gâ€C₃N₄ Composite Air Electrode for Highâ€Energy Lithium Oxygen Batteries. Small, 2015, 11, 2817-2824.	10.0	157
816	Preparation of new titanium nitride-carbon nanocomposites in supercritical benzene and their oxygen reduction activity in alkaline medium. Electrochimica Acta, 2015, 164, 114-124.	5.2	23
817	Preparation of a reduced graphene oxide hydrogel by Ni ions and its use in a supercapacitor electrode. RSC Advances, 2015, 5, 22753-22758.	3.6	14
818	Single step synthesis of Auâ€“CuO nanoparticles decorated reduced graphene oxide for high performance disposable nonenzymatic glucose sensor. Journal of Electroanalytical Chemistry, 2015, 743, 1-9.	3.8	65
819	Use of silane-functionalized graphene oxide in organic photovoltaic cells and organic light-emitting diodes. Physical Chemistry Chemical Physics, 2015, 17, 9369-9374.	2.8	69
820	The CO gas sensing properties of direct-patternable SnO₂ films containing graphene or Ag nanoparticles. New Journal of Chemistry, 2015, 39, 2256-2260.	2.8	20
821	Electrical and mechanical properties of multiwalled carbon nanotubes-reinforced solderable polymer nanocomposites. Journal of Materials Science: Materials in Electronics, 2015, 26, 1678-1689.	2.2	8
822	Highly Efficient Electronic Sensitization of Non-oxidized Graphene Flakes on Controlled Pore-loaded WO3 Nanofibers for Selective Detection of H2S Molecules. Scientific Reports, 2015, 5, 8067.	3.3	70
823	Graphite oxide Auger-electron diagnostics. Journal of Electron Spectroscopy and Related Phenomena, 2015, 199, 51-55.	1.7	4
824	Growth of nano-textured graphene coatings across highly porous stainless steel supports towards corrosion resistant coatings. Carbon, 2015, 87, 395-408.	10.3	65
825	Nanoporous graphene materials by low-temperature vacuum-assisted thermal process for electrochemical energy storage. Journal of Power Sources, 2015, 284, 146-153.	7.8	42
826	From the Surface Reaction Control to Gas-Diffusion Control: The Synthesis of Hierarchical Porous SnO₂ Microspheres and Their Gas-Sensing Mechanism. Journal of Physical Chemistry C, 2015, 119, 15963-15976.	3.1	66
827	Selective band gap manipulation of graphene oxide by its reduction with mild reagents. Carbon, 2015, 93, 967-973.	10.3	186
828	The influence of dehydration on the interfacial bonding, microstructure and mechanical properties of poly(vinyl alcohol)/graphene oxide nanocomposites. Carbon, 2015, 94, 845-855.	10.3	22
829	Ultrathin graphene oxide nanosheet membranes with various d -spacing assembled using the pressure-assisted filtration method for removing natural organic matter. Desalination, 2015, 371, 78-87.	8.2	123
830	Continuous supercritical solvothermal synthesis of TiO2â€“pristine-graphene hybrid as the enhanced photocatalyst. Journal of Supercritical Fluids, 2015, 103, 115-121.	3.2	12
831	Preparation of Niâ€“Pâ€“GO composite coatings and its mechanical properties. Surface and Coatings Technology, 2015, 272, 25-32.	4.8	65

#	Article	IF	Citations
832	Rechargeable Lithium-Iodine Batteries with Iodine/Nanoporous Carbon Cathode. Nano Letters, 2015, 15, 5982-5987.	9.1	201
833	Flexible binder-free graphene paper cathodes for high-performance Li-O2 batteries. Carbon, 2015, 93, 625-635.	10.3	74
834	Characterization of carbon contamination under ion and hot atom bombardment in a tin-plasma extreme ultraviolet light source. Applied Surface Science, 2015, 353, 708-713.	6.1	97
835	Oxidized graphene as an electrode material for rechargeable metal-ion batteries â€“ a DFT point of view. Electrochimica Acta, 2015, 176, 1092-1099.	5.2	33
836	Facile thermal annealing of graphite oxide in air for graphene with a higher C/O ratio. RSC Advances, 2015, 5, 69854-69860.	3.6	27
837	Non-Contact Local Conductance Mapping of Individual Graphene Oxide Sheets during the Reduction Process. Journal of Physical Chemistry Letters, 2015, 6, 2629-2635.	4.6	7
838	Mechanical degradation of graphene by epoxidation: insights from first-principles calculations. Physical Chemistry Chemical Physics, 2015, 17, 19484-19490.	2.8	25
839	Graphene for Transparent Conductors. , 2015, , .		38
840	Investigation of structure and photocatalytic activity on TiO₂ hybridized with graphene: compared to CNT case. RSC Advances, 2015, 5, 64414-64420.	3.6	10
841	Supramolecular fabrication of polyelectrolyte-modified reduced graphene oxide for NO2 sensing applications. Ceramics International, 2015, 41, 12130-12136.	4.8	19
842	Hexamolybdenum clusters supported on graphene oxide: Visible-light induced photocatalytic reduction of carbon dioxide into methanol. Carbon, 2015, 94, 91-100.	10.3	69
843	Preparation of a graphene-loaded carbon nanofiber composite with enhanced graphitization and conductivity for biosensing applications. RSC Advances, 2015, 5, 30602-30609.	3.6	15
844	Two dimensional polymerization of graphene oxide: Bottom-up approach. Materials Chemistry and Physics, 2015, 163, 172-181.	4.0	1
845	Nanoscale adhesion between Pt nanoparticles and carbon support and its influence on the durability of fuel cells. Current Applied Physics, 2015, 15, S108-S114.	2.4	11
846	Tin Oxide/Graphene Aerogel Nanocomposites Building Superior Rate Capability for Lithium Ion Batteries. Electrochimica Acta, 2015, 176, 610-619.	5.2	40
847	Graphene oxide hole injection layer for high-efficiency polymer light-emitting diodes by using electrophoretic deposition and electrical reduction. Carbon, 2015, 94, 633-640.	10.3	11
848	Efficient Direct Reduction of Graphene Oxide by Silicon Substrate. Scientific Reports, 2015, 5, 12306.	3.3	32
849	Tuning the surface morphology of self-assembled graphene-like thin films through pH variation. Applied Surface Science, 2015, 353, 628-635.	6.1	21

#	Article	IF	Citations
850	A 1-D/2-D hybrid nanostructured manganese cobaltiteâ€“graphene nanocomposite for electrochemical energy storage. RSC Advances, 2015, 5, 65139-65152.	3.6	41
851	Surface complexation modeling of adsorption of Cd(II) on graphene oxides. Journal of Molecular Liquids, 2015, 209, 753-758.	4.9	73
852	Direct Deposition of Uniform High-Îº Dielectrics on Graphene. Scientific Reports, 2014, 4, 6448.	3.3	14
853	A new facile route for synthesizing of graphene oxide using mixture of sulfuricâ€“nitricâ€“phosphoric acids as intercalating agent. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 73, 235-241.	2.7	48
854	Probing patterned defects on graphene using differential interference contrast observation. Applied Physics Letters, 2015, 106, 081901.	3.3	6
855	Graphene oxide-Fe3O4 nanoparticle composite with high transverse proton relaxivity value for magnetic resonance imaging. Journal of Applied Physics, 2015, 117, .	2.5	46
856	Synthesis of Mn3O4-Based Aerogels and Their Lithium-Storage Abilities. Nanoscale Research Letters, 2015, 10, 960.	5.7	13
857	Dielectrophoretic assembly of Pt nanoparticle-reduced graphene oxide nanohybrid for highly-sensitive multiple gas sensor. Sensors and Actuators B: Chemical, 2015, 220, 755-761.	7.8	95
858	Spinel LiMn 2 O 4 nanoparticles dispersed on nitrogen-doped reduced graphene oxide nanosheets as an efficient electrocatalyst for aluminium-air battery. International Journal of Hydrogen Energy, 2015, 40, 9225-9234.	7.1	51
859	The sensitive electrical response of reduced graphene oxideâ€“polymer nanocomposites to large deformation. Composites Part A: Applied Science and Manufacturing, 2015, 75, 46-53.	7.6	12
860	Photoelectric properties of reduced-graphene-oxide film and its photovoltaic application. RSC Advances, 2015, 5, 39630-39634.	3.6	3
861	Evolution of the chemical bonding nature and electrode activity of indium selenide upon the composite formation with graphene nanosheets. Electrochimica Acta, 2015, 170, 48-56.	5.2	5
862	Free-standing molybdenum disulfide/graphene composite paper as a binder- and carbon-free anode for lithium-ion batteries. Journal of Power Sources, 2015, 288, 76-81.	7.8	59
863	Au nanoparticles supported on magnetically separable Fe₂O₃â€“graphene oxide hybrid nanosheets for the catalytic reduction of 4-nitrophenol. RSC Advances, 2015, 5, 7554-7558.	3.6	24
864	Observation of different charge transport regimes and large magnetoresistance in graphene oxide layers. Carbon, 2015, 89, 188-196.	10.3	42
865	Highly dispersed reduced graphene oxide and its hybrid complexes as effective additives for improving thermophysical property of heat transfer fluid. International Journal of Heat and Mass Transfer, 2015, 87, 284-294.	4.8	31
866	In situ growth of capping-free magnetic iron oxide nanoparticles on liquid-phase exfoliated graphene. Nanoscale, 2015, 7, 8995-9003.	5.6	6
867	Toxicology of Graphene Oxide Nanosheets Against Paecilomyces catenlannulatus. Bulletin of Environmental Contamination and Toxicology, 2015, 95, 25-30.	2.7	35

#	Article	IF	Citations
868	In situ random co-polycondensation for preparation of reduced graphene oxide/polyimide nanocomposites with amino-modified and chemically reduced graphene oxide. Journal of Materials Science, 2015, 50, 3860-3874.	3.7	31
869	Controllable growth of graphene dendrite and application to electrochemical capacitors. Journal of Materials Science: Materials in Electronics, 2015, 26, 4337-4343.	2.2	2
870	Graphene-bonded and -encapsulated mesoporous TiO 2 microspheres as a high-performance anode material for lithium ion batteries. Journal of Power Sources, 2015, 287, 334-340.	7.8	45
871	Synthesis of single-walled carbon nanotubes on graphene layers. Chemical Communications, 2015, 51, 8974-8977.	4.1	16
872	Materials for Flexible, Stretchable Electronics: Graphene and 2D Materials. Annual Review of Materials Research, 2015, 45, 63-84.	9.3	341
873	Graphene oxide as a corrosion-inhibitive coating on magnesium alloys. RSC Advances, 2015, 5, 44149-44159.	3.6	54
874	Reduced graphene oxide in the construction of solid-state bromide-selective electrode. Journal of Analytical Chemistry, 2015, 70, 378-383.	0.9	6
876	Conducting Transparent Thin Films Based on Silver Nanowires and Graphene-Oxide Flakes. Journal of the Electrochemical Society, 2015, 162, H419-H421.	2.9	11
877	Enhanced photovoltaic performance of inverted hybrid bulk-heterojunction solar cells using TiO 2 /reduced graphene oxide films as electron transport layers. Journal of Photonics for Energy, 2015, 5, 057408.	1.3	66
878	Applications of graphene and its derivatives as an adsorbent for heavy metal and dye removal: a systematic and comprehensive overview. RSC Advances, 2015, 5, 50392-50420.	3.6	240
879	A study on near-UV blue photoluminescence in graphene oxide prepared by Langmuirâ€"Blodgett method. Applied Surface Science, 2015, 345, 18-23.	6.1	17
880	Efficient anti-corrosive coating of cold-rolled steel in a seawater environment using an oil-based graphene oxide ink. Nanoscale, 2015, 7, 8035-8047.	5.6	70
881	Tunable wide blue photoluminescence with europium decorated graphene. Journal of Materials Chemistry C, 2015, 3, 4030-4038.	5.5	36
882	Cobalt carbonate dumbbells for high-capacity lithium storage: A slight doping of ascorbic acid and an enhancement in electrochemical performances. Journal of Power Sources, 2015, 284, 154-161.	7.8	67
883	Adsorption and Desorption of U(VI) on Functionalized Graphene Oxides: A Combined Experimental and Theoretical Study. Environmental Science & Technology, 2015, 49, 4255-4262.	10.0	473
884	A novel graphene oxide-based fluorescent nanosensor for selective detection of Fe3+ with a wide linear concentration and its application in logic gate. Biosensors and Bioelectronics, 2015, 70, 69-73.	10.1	48
885	Preliminary comparison of different reduction methods of graphene oxide. Bulletin of Materials Science, 2015, 38, 7-12.	1.7	50
886	Liquid phase collagen modified graphene that induces apoptosis. RSC Advances, 2015, 5, 44447-44457.	3.6	16

#	Article	IF	Citations
887	High performance electrochemical capacitors based on MnO₂/activated-carbon-paper. Journal of Materials Chemistry C, 2015, 3, 6166-6171.	5.5	39
888	Synthesis of a graphene oxide/sodium silicate nanocomposite using sodium silicate solution. RSC Advances, 2015, 5, 38742-38747.	3.6	8
889	Note: Rapid reduction of graphene oxide paper by glow discharge plasma. Review of Scientific Instruments, 2015, 86, 056101.	1.3	8
890	High rate SnO2â€"Graphene Dual Aerogel anodes and their kinetics of lithiation and sodiation. Nano Energy, 2015, 15, 369-378.	16.0	129
891	Green synthesis of 3D SnO₂/graphene aerogels and their application in lithium-ion batteries. RSC Advances, 2015, 5, 39746-39751.	3.6	25
892	Adsorption of 17Î²-Estradiol (E₂) and Pb(II) on Fe₃O₄/Graphene Oxide (Fe₃O₄/GO) Nanocomposites. Environmental Engineering Science, 2015, 32, 370-378.	1.6	18
893	Controllable synthesis of activated graphene and its application in supercapacitors. Journal of Materials Chemistry A, 2015, 3, 9543-9549.	10.3	35
894	Graphene oxide electrocatalyst on MnO2 air cathode as an efficient electron pump for enhanced oxygen reduction in alkaline solution. Scientific Reports, 2015, 5, 9108.	3.3	30
895	Role of the crystallite phase of TiO2 in graphene/TiO2 photocatalysis. Journal of Materials Science: Materials in Electronics, 2015, 26, 3357-3363.	2.2	15
896	Graphene and graphitic derivative filled polymer composites as potential sensors. Physical Chemistry Chemical Physics, 2015, 17, 3954-3981.	2.8	98
897	Conducting fabrics of polyester coated with polypyrrole and doped with graphene oxide. Synthetic Metals, 2015, 204, 110-121.	3.9	63
898	Tapered optical fiber coated with graphene based nanomaterials for measurement of ethanol concentrations in water. Optical Review, 2015, 22, 385-392.	2.0	37
899	Remarkably stable high power Li-ion battery anodes based on vertically arranged multilayered-graphene. Electrochimica Acta, 2015, 182, 500-506.	5.2	13
900	Dry efficient cleaning of poly-methyl-methacrylate residues from graphene with high-density H2 and H2-N2 plasmas. Journal of Applied Physics, 2015, 118, .	2.5	65
901	Fabrication and characterization of a polysulfone-graphene oxide nanocomposite membrane for arsenate rejection from water. Journal of Environmental Health Science & Engineering, 2015, 13, 61.	3.0	171
902	Graphene oxide supported sodium stannate lithium ion battery anodes by the peroxide route: low temperature and no waste processing. Journal of Materials Chemistry A, 2015, 3, 20681-20689.	10.3	28
903	Bisphenol A adsorption using reduced graphene oxide prepared by physical and chemical reduction methods. Chemical Engineering Research and Design, 2015, 104, 519-529.	5.6	58
904	Fast One-Pot Synthesis of MoS₂/Crumpled Graphene pâ€"n Nanonjunctions for Enhanced Photoelectrochemical Hydrogen Production. ACS Applied Materials & Interfaces, 2015, 7, 25685-25692.	8.0	63

#	Article	IF	Citations
905	Strongly Anisotropic Thermal Conductivity of Freeâ€Standing Reduced Graphene Oxide Films Annealed at High Temperature. Advanced Functional Materials, 2015, 25, 4664-4672.	14.9	462
906	Curcumin loaded nano graphene oxide reinforced fish scale collagen â€“ a 3D scaffold biomaterial for wound healing applications. RSC Advances, 2015, 5, 98653-98665.	3.6	63
907	Direct writing of graphene patterns and devices on graphene oxide films by inkjet reduction. Nano Research, 2015, 8, 3954-3962.	10.4	37
908	Ultralight carbon nanofoam from naphtalene-mediated hydrothermal sucrose carbonization. Carbon, 2015, 95, 434-441.	10.3	28
909	Si/Ti₂O₃/Reduced Graphene Oxide Nanocomposite Anodes for Lithium-Ion Batteries with Highly Enhanced Cyclic Stability. ACS Applied Materials & Interfaces, 2015, 7, 18483-18490.	8.0	53
910	Reduced graphene oxide coated polydimethylsiloxane film as an optoacoustic transmitter for high pressure and high frequency ultrasound generation. Applied Physics Letters, 2015, 106, 081911.	3.3	20
911	EGaIn Microelectrode for Electrical Characterization of ITO-Based van der Waals Interface and Airborne Molecular Contamination of ITO Surface. Journal of the Electrochemical Society, 2015, 162, H703-H712.	2.9	7
912	Superior Catalytic Activity of Electrochemically Reduced Graphene Oxide Supported Iron Phthalocyanines toward Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2015, 7, 24063-24068.	8.0	64
913	Perovskite-type KTaO₃â€“reduced graphene oxide hybrid with improved visible light photocatalytic activity. RSC Advances, 2015, 5, 91315-91325.	3.6	49
914	In situ controllable synthesis of graphene oxide-based ternary magnetic molecularly imprinted polymer hybrid for efficient enrichment and detection of eight microcystins. Journal of Materials Chemistry A, 2015, 3, 23042-23052.	10.3	25
915	Enhanced visible light photocatalytic activity and hydrogen evolution through novel heterostructure Aglâ€“FGâ€“TiO2 nanocomposites. Journal of Molecular Catalysis A, 2015, 410, 242-252.	4.8	11
916	Remarkable Conversion Between n- and p-Type Reduced Graphene Oxide on Varying the Thermal Annealing Temperature. Chemistry of Materials, 2015, 27, 7362-7369.	6.7	177
917	Nitrogen-doped graphene aerogel-supported spinel CoMn2O4 nanoparticles as an efficient catalyst for oxygen reduction reaction. Journal of Power Sources, 2015, 299, 492-500.	7.8	88
918	Effect of degree of reduction on the anode performance of reduced graphene oxide in Li-ion batteries. RSC Advances, 2015, 5, 86237-86241.	3.6	12
919	Reduced Graphene Oxide-Based Assay for Real-Time Monitoring of Cancer Cell Viability. Nano, 2015, 10, 1550094.	1.0	0
920	Two-step process for programmable removal of oxygen functionalities of graphene oxide: functional, structural and electrical characteristics. RSC Advances, 2015, 5, 95657-95665.	3.6	113
921	Reducing and multiple-element doping of graphene oxide using active screen plasma treatments. Carbon, 2015, 95, 338-346.	10.3	24
922	CeO_x-modified RhNi nanoparticles grown on rGO as highly efficient catalysts for complete hydrogen generation from hydrazine borane and hydrazine. Journal of Materials Chemistry A, 2015, 3, 23520-23529.	10.3	125

#	Article	IF	Citations
923	Nitrogen and fluorine co-doped graphene as a high-performance anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 23095-23105.	10.3	167
924	Theoretical Study of Epoxy Group Adsorption and Diffusion on Pristine, Defected Graphene Sheets. Integrated Ferroelectrics, 2015, 164, 112-121.	0.7	1
925	Synthesis, Structure, and Properties of Graphene and Graphene Oxide. , 2015, , 29-94.		18
926	Nanocharacterization. , 2015, , 117-180.		4
927	Effect of Paecilomyces cateniannulatus on the adsorption of nickel onto graphene oxide. Korean Journal of Chemical Engineering, 2015, 32, 2449-2455.	2.7	6
928	Examining the electrical and chemical properties of reduced graphene oxide with varying annealing temperatures in argon atmosphere. Applied Surface Science, 2015, 356, 719-725.	6.1	18
929	Solâ€"gel based simonkolleite nanopetals with SnO₂ nanoparticles in graphite-like amorphous carbon as an efficient and reusable photocatalyst. RSC Advances, 2015, 5, 75062-75074.	3.6	15
930	Synthesis of Nitrogen-Doped Graphene as Highly Effective Cathode Materials for Li-Ion Hybrid Supercapacitors. Journal of the Electrochemical Society, 2015, 162, A2123-A2130.	2.9	16
931	Solâ€"gel fabrication of a non-laminated graphene oxide membrane for oil/water separation. Journal of Materials Chemistry A, 2015, 3, 19517-19524.	10.3	91
932	Comparative Study of Screen-Printed Electrodes Modified with Graphene Oxides Reduced by a Constant Current. Journal of the Electrochemical Society, 2015, 162, B282-B290.	2.9	17
933	Interfacial Development of Electrophoretically Deposited Graphene Oxide Films on Al Alloys. Journal of the Electrochemical Society, 2015, 162, D3025-D3029.	2.9	4
934	In situ preparation of a SAC-RGO@Ni electrode by electrochemical functionalization of reduced graphene oxide using sulfanilic acid azocromotrop and its application in asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 19461-19468.	10.3	22
935	Thermal deoxygenation causes photoluminescence shift from UV to blue region in lyophilized graphene oxide. RSC Advances, 2015, 5, 74342-74346.	3.6	8
936	Nanoscale reduction of graphene oxide under ambient conditions. Carbon, 2015, 95, 1069-1075.	10.3	38
937	Directed self-assembly of graphene oxide on an electrospun polymer fiber template. Carbon, 2015, 95, 888-894.	10.3	11
938	Layer-by-layer motif hybridization: nanoporous nickel oxide flakes wrapped into graphene oxide sheets toward enhanced oxygen reduction reaction. Chemical Communications, 2015, 51, 16409-16412.	4.1	37
939	Conversion of Natural Tannin to Hydrothermal and Graphene-Like Carbons Studied by Wide-Angle X-ray Scattering. Journal of Physical Chemistry A, 2015, 119, 8692-8701.	2.5	22
940	Waltzing with the Versatile Platform of Graphene to Synthesize Composite Photocatalysts. Chemical Reviews, 2015, 115, 10307-10377.	47.7	1,017

#	Article	IF	Citations
941	The characterization of Co-nanoparticles supported on graphene. RSC Advances, 2015, 5, 75600-75606.	3.6	46
942	Biocomposite Based on Reduced Graphene Oxide Film Modified with Phenothiazone and Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase for Glucose Sensing and Biofuel Cell Applications. Analytical Chemistry, 2015, 87, 9567-9571.	6.5	44
943	Functionalization of graphene with hyperbranched polyglycerol for stable aqueous dispersion. Functional Materials Letters, 2015, 08, 1550068.	1.2	17
944	Electrical conductive behavior of polymer composites prepared with aqueous graphene dispersions. Applied Materials Today, 2015, 1, 88-94.	4.3	31
945	Electron beam irradiation dose dependent physico-chemical and electrochemical properties of reduced graphene oxide for supercapacitor. Electrochimica Acta, 2015, 184, 427-435.	5.2	30
946	Reduced humic acid nanosheets and its uses as nanofiller. Journal of Physics and Chemistry of Solids, 2015, 85, 86-90.	4.0	25
947	A simple visible light photo-assisted method for assembling andÂcuring multilayer GO thin films. Materials Chemistry and Physics, 2015, 165, 125-133.	4.0	4
948	Hydrogen-Enriched Reduced Graphene Oxide with Enhanced Electrochemical Performance in Lithium Ion Batteries. Chemistry of Materials, 2015, 27, 266-275.	6.7	53
949	Fast Response and High Sensitivity ZnO/glass Surface Acoustic Wave Humidity Sensors Using Graphene Oxide Sensing Layer. Scientific Reports, 2014, 4, 7206.	3.3	149
950	Breakdown into nanoscale of graphene oxide: Confined hot spot atomic reduction and fragmentation. Scientific Reports, 2014, 4, 6735.	3.3	105
951	Preparation of water-dispersible porous g-C₃N₄ with improved photocatalytic activity by chemical oxidation. Physical Chemistry Chemical Physics, 2015, 17, 3309-3315.	2.8	260
952	Graphene nanosheets loaded with Pt nanoparticles with enhanced electrochemical performance for sodiumâ€"oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 2568-2571.	10.3	76
953	Rapid reduction of GO by hydrogen spill-over mechanism by in situ generated nanoparticles at room temperature and their catalytic performance towards 4-nitrophenol reduction and ethanol oxidation. Applied Catalysis A: General, 2015, 491, 45-51.	4.3	28
954	A two-dimensional highly ordered mesoporous carbon/graphene nanocomposite for electrochemical double layer capacitors: effects of electrical and ionic conduction pathways. Journal of Materials Chemistry A, 2015, 3, 2314-2322.	10.3	49
955	Surface modification of graphene and graphite by nitrogen plasma: Determination of chemical state alterations and assignments by quantitative X-ray photoelectron spectroscopy. Carbon, 2015, 84, 185-196.	10.3	160
956	Annealing induced electrical conduction and band gap variation in thermally reduced graphene oxide films with different sp2/sp3 fraction. Applied Surface Science, 2015, 326, 236-242.	6.1	41
957	Coreâ€"Shell LiFePO₄/Carbonâ€Coated Reduced Graphene Oxide Hybrids for Highâ€Power Lithiumâ€Ion Battery Cathodes. Chemistry - A European Journal, 2015, 21, 2132-2138.	3.3	44
958	Multi-resistive Reduced Graphene Oxide Diode with Reversible Surface Electrochemical Reaction induced Carrier Control. Scientific Reports, 2014, 4, 5642.	3.3	37

#	Article	IF	Citations
959	Using First-Principles Calculations to Investigate the Effect of Oxidation on Graphene Spectroscopic Properties. Jom, 2015, 67, 375-381.	1.9	5
960	Graphene dip coatings: An effective anticorrosion barrier on aluminum. Applied Surface Science, 2015, 327, 241-245.	6.1	91
961	Enhanced photocatalytic activities of net-like hematite nanoparticle/graphene oxide composite. Journal of Materials Chemistry A, 2015, 3, 1421-1426.	10.3	14
962	A three-dimensional nitrogen-doped graphene structure: a highly efficient carrier of enzymes for biosensors. Nanoscale, 2015, 7, 1290-1295.	5.6	56
963	Self-assembly of ceria/graphene oxide composite films with ultra-long antiwear lifetime under a high applied load. Carbon, 2015, 84, 197-206.	10.3	30
964	Superior Lithiumâ€Ion Storage Properties of Siâ€Based Composite Powders with Unique Si@Carbon@Void@Graphene Configuration. Chemistry - A European Journal, 2015, 21, 2076-2082.	3.3	23
965	3D porous graphene with ultrahigh surface area for microscale capacitive deionization. Nano Energy, 2015, 11, 711-718.	16.0	161
966	Electron spectroscopy of rubber and resin-based composites containing 2D carbon. Thin Solid Films, 2015, 581, 80-85.	1.8	16
967	Characterisation of reduced graphene oxide: Effects of reduction variables on electrical conductivity. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 193, 49-60.	3.5	274
968	Graphene oxide: from fundamentals to applications. Journal of Physics Condensed Matter, 2015, 27, 013002.	1.8	113
969	Production of reduced graphene oxide via hydrothermal reduction in an aqueous sulphuric acid suspension and its electrochemical behaviour. Journal of Solid State Electrochemistry, 2015, 19, 361-380.	2.5	78
970	Preparation of activated carbon paper by modified Hummerâ€™s method and application as vanadium redox battery. Ionics, 2015, 21, 283-287.	2.4	9
971	A review on carbon nanotubes and graphene as fillers in reinforced polymer nanocomposites. Journal of Industrial and Engineering Chemistry, 2015, 21, 11-25.	5.8	1,143
972	Green preparation of reduced graphene oxide for sensing and energy storage applications. Scientific Reports, 2014, 4, 4684.	3.3	433
973	Adsorption isotherms and kinetics of cationic and anionic dyes on three-dimensional reduced graphene oxide macrostructure. Journal of Industrial and Engineering Chemistry, 2015, 21, 1191-1196.	5.8	149
974	Graphene Oxide: Physics and Applications. SpringerBriefs in Physics, 2015, , .	0.7	70
975	CO tolerance of Pt and PtSn intermetallic electrocatalysts on synthetically modified reduced graphene oxide supports. Dalton Transactions, 2015, 44, 977-987.	3.3	9
976	Control of doping by matrix in few-layer graphene/metal oxide composites with highly enhanced electrical conductivity. Carbon, 2015, 81, 83-90.	10.3	39

#	Article	IF	Citations
977	Green synthesis of reduced graphene oxide and its reinforcing effect on natural rubber composites. High Performance Polymers, 2015, 27, 486-496.	1.8	25
978	Chemically modified graphene/PEDOT:PSS nanocomposite films for hydrogen gas sensing. Carbon, 2015, 81, 54-62.	10.3	45
979	Effects of short-side-chain perfluorosulfonic acid ionomers as binders on the performance of low Pt loading fuel cell cathodes. Journal of Power Sources, 2015, 275, 384-391.	7.8	84
980	Combined effects of defects and hydroxyl groups on the electronic transport properties of reduced graphene oxide. Applied Physics A: Materials Science and Processing, 2015, 118, 885-892.	2.3	12
981	Photoreduction of graphene oxide enhanced by sacrificial agents. Journal of Colloid and Interface Science, 2015, 438, 291-295.	9.4	9
982	Bacteriorhodopsin as a superior substitute for hydrazine in chemical reduction of single-layer graphene oxide sheets. Carbon, 2015, 81, 158-166.	10.3	283
983	Hydrothermal synthesis of highly nitrogen-doped few-layer graphene via solidâ€"gas reaction. Materials Research Bulletin, 2015, 61, 252-258.	5.2	15
984	Fullerene-reduced graphene oxide composites obtained by ultrashort laser ablation of fullerite in water. Applied Surface Science, 2015, 336, 67-72.	6.1	9
985	Enhanced photoelectrochemical property of ZnO nanorods array synthesized on reduced graphene oxide for self-powered biosensing application. Biosensors and Bioelectronics, 2015, 64, 499-504.	10.1	133
986	Fabrication of 3D structured ZnO nanorod/reduced graphene oxide hydrogels and their use for photo-enhanced organic dye removal. Journal of Colloid and Interface Science, 2015, 437, 181-186.	9.4	61
987	Scalable production of graphene via wet chemistry: progress and challenges. Materials Today, 2015, 18, 73-78.	14.2	265
988	The Effect of Thermal Reduction on the Photoluminescence and Electronic Structures of Graphene Oxides. Scientific Reports, 2014, 4, 4525.	3.3	106
989	Effect of Graphene Oxide on Bacteria and Peripheral Blood Mononuclear Cells. Journal of Applied Biomaterials and Functional Materials, 2016, 14, 423-430.	1.6	3
991	Synthesis and Applications of Semiconducting Graphene. Journal of Nanomaterials, 2016, 2016, 1-19.	2.7	29
992	Synthesis of Polydopamine Functionalized Reduced Graphene Oxide-Palladium Nanocomposite for Laccase Based Biosensor. Bioinorganic Chemistry and Applications, 2016, 2016, 1-10.	4.1	8
993	An Aqueous Metal-Ion Capacitor with Oxidized Carbon Nanotubes and Metallic Zinc Electrodes. Frontiers in Energy Research, 2016, 4, .	2.3	75
994	Reduced Graphene Oxide/Au Nanocomposite for NO2 Sensing at Low Operating Temperature. Sensors, 2016, 16, 1152.	3.8	39
995	Performance of a Sample Transfer Vessel with a Battery-Driven Ion Pump. Journal of the Vacuum Society of Japan, 2016, 59, 192-195.	0.3	4

#	Article	IF	Citations
996	Fluorophore and protein conjugated Diels-Alder functionalized CVD graphene layers. Optical Materials Express, 2016, 6, 3242.	3.0	8
997	Synthesis and applications of carbon nanomaterials for energy generation and storage. Beilstein Journal of Nanotechnology, 2016, 7, 149-196.	2.8	118
998	Passive Q-switched and Mode-locked Fiber Lasers Using Carbon-based Saturable Absorbers. , 0, , .		7
999	Synthesis and Bioactivity of Reduced Graphene Oxide/Aluminaâ€Noble Metal Nanocomposite Flakes. International Journal of Applied Ceramic Technology, 2016, 13, 856-870.	2.1	12
1000	3D nanostructured inkjet printed graphene via UV-pulsed laser irradiation enables paper-based electronics and electrochemical devices. Nanoscale, 2016, 8, 15870-15879.	5.6	108
1001	Supramolecular Approaches to Graphene: From Selfâ€Assembly to Moleculeâ€Assisted Liquidâ€Phase Exfoliation. Advanced Materials, 2016, 28, 6030-6051.	21.0	154
1002	Structural Characteristics and Properties of a New Graphiticâ€Based Material. Chemistry - A European Journal, 2016, 22, 1452-1460.	3.3	8
1003	Reliable determination of the fewâ€layer graphene oxide thickness using Raman spectroscopy. Journal of Raman Spectroscopy, 2016, 47, 391-394.	2.5	49
1004	Improved performance of supercapacitors constructed with activated carbon papers as electrodes and vanadyl sulfate as redox electrolyte. Ionics, 2016, 22, 1253-1258.	2.4	10
1005	Modification of graphene oxide by laser irradiation: a new route to enhance antibacterial activity. Nanotechnology, 2016, 27, 245704.	2.6	42
1006	A Facile Graphene Nanosheetsâ€based Electrochemical Sensor for Sensitive Detection of Honokiol in Traditional Chinese Medicine. Electroanalysis, 2016, 28, 508-515.	2.9	7
1007	Poly(pâ€phenylene) with Poly(ethylene glycol) Chains and Amino Groups as a Functional Platform for Controlled Drug Release and Radiotherapy. Macromolecular Bioscience, 2016, 16, 730-737.	4.1	10
1008	Novel Heterostructure of CdSe Nanobridge on ZnO Nanorods: Cdâ€Carboxylâ€RGOâ€Assisted Synthesis and Enhanced Photoelectrochemical Efficiency. Advanced Materials Interfaces, 2016, 3, 1500737.	3.7	17
1009	Glass fiber coated with graphene constructed through electrostatic selfâ€assembly and its application in poly(lactic acid) composite. Journal of Applied Polymer Science, 2016, 133, .	2.6	13
1010	Application of Diffusionâ€Driven Layerâ€byâ€Layer Assembly for Fabricating Compact Grapheneâ€Based Supercapacitors. Advanced Materials Interfaces, 2016, 3, 1600260.	3.7	14
1011	Improved synthesis and growth of graphene oxide for field effect transistor biosensors. Biomedical Microdevices, 2016, 18, 61.	2.8	6
1012	Photocatalytic CO2 conversion to methanol by Cu2O/graphene/TNA heterostructure catalyst in a visible-light-driven dual-chamber reactor. Nano Energy, 2016, 27, 320-329.	16.0	121
1013	Accelerated Thermal Decomposition of Graphene Oxide Films in Air via in Situ X-ray Diffraction Analysis. Journal of Physical Chemistry C, 2016, 120, 14984-14990.	3.1	48

#	Article	IF	Citations
1014	Introduction of high nitrogen doped graphene as a new cationic carrier in electromembrane extraction. Electrophoresis, 2016, 37, 1191-1200.	2.4	17
1015	Self-assembly of cucurbit[7]uril on the surface of graphene/gold modified electrode. Nanomaterials and Nanotechnology, 2016, 6, 184798041668244.	3.0	3
1016	Lateral photovoltaic effect in flexible free-standing reduced graphene oxide film for self-powered position-sensitive detection. Scientific Reports, 2016, 6, 33525.	3.3	36
1017	Disentangling the Photocatalytic Hydrogen Evolution Mechanism of One Homogeneous Cobalt-Coordinated Polymer. Journal of Physical Chemistry C, 2016, 120, 28456-28462.	3.1	11
1018	Synthesis, Characterization and Application of ZrCl4-Graphene Composite Supported on Activated Carbon for Efficient Removal of Fluoride to Obtain Drinking Water. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	11
1019	Effect of Concentration of Surfactant on the Exfoliation of Graphite to Graphene in Aqueous Media. Nanomaterials and Nanotechnology, 2016, 6, 14.	3.0	16
1020	Graphene hydrogels with embedded metal nanoparticles as efficient catalysts in 4-nitrophenol reduction and methylene blue decolorization. Polish Journal of Chemical Technology, 2016, 18, 47-55.	0.5	12
1021	Efficient control of ultrafast optical nonlinearity of reduced graphene oxide by infrared reduction. Journal of Applied Physics, 2016, 120, .	2.5	38
1022	Highly disordered silicon-containing carbon from polymethylphenylsiloxane as anode material for lithium-ion batteries: Anomalous behavior in thin layer. Russian Journal of Applied Chemistry, 2016, 89, 1237-1244.	0.5	4
1023	Direct imaging charge distribution in reduced graphene oxide sheets induced by isolated charges. Journal Physics D: Applied Physics, 2016, 49, 415303.	2.8	4
1024	Reduction of hole doping of chemical vapor deposition grown graphene by photoresist selection and thermal treatment. Nanotechnology, 2016, 27, 505205.	2.6	21
1025	Solvent-free one-step covalent functionalization of graphene oxide and nanodiamond with amines. RSC Advances, 2016, 6, 113596-113610.	3.6	34
1026	Silicon nitride and silicon etching by CH3F/O2 and CH3F/CO2 plasma beams. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	2.1	16
1027	An integrated nanocarbonâ€"cellulose membrane for solid-state supercapacitors. Science Bulletin, 2016, 61, 368-377.	9.0	5
1028	Minimizing electrode edge in organic transistors with ultrathin reduced graphene oxide for improving charge injection efficiency. Physical Chemistry Chemical Physics, 2016, 18, 13209-13215.	2.8	12
1029	Porous reduced graphene oxide membrane with enhanced gauge factor. Applied Physics Letters, 2016, 108, .	3.3	8
1030	Metal-enhanced fluorescence of graphene oxide by palladium nanoparticles in the blueâ€"green part of the spectrum. Chinese Physics B, 2016, 25, 118102.	1.4	41
1031	Assessing the temporal stability of surface functional groups introduced by plasma treatments on the outer shells of carbon nanotubes. Scientific Reports, 2016, 6, 31565.	3.3	40

#	Article	IF	Citations
1032	Monolithic three-dimensional graphene frameworks derived from inexpensive graphite paper as advanced anodes for microbial fuel cells. Journal of Materials Chemistry A, 2016, 4, 6342-6349.	10.3	45
1033	Growth of carbon nanotubes on graphene by chemical vapor deposition. New Carbon Materials, 2016, 31, 31-36.	6.1	27
1034	Synthesis, Characterization and Gas Sensing Properties of Graphene Oxide-Multiwalled Carbon Nanotube Composite. Journal of Materials Science and Technology, 2016, 32, 626-632.	10.7	39
1035	Interaction of graphene-related materials with human intestinal cells: an in vitro approach. Nanoscale, 2016, 8, 8749-8760.	5.6	37
1036	Polyethylenimine mediated reduced graphene oxide based flexible paper for supercapacitor. Energy Storage Materials, 2016, 5, 103-110.	18.0	27
1037	Spectroscopic Study of Graphene Oxide Membranes Exposed to Ultraviolet Light. Journal of Physical Chemistry C, 2016, 120, 12559-12567.	3.1	11
1038	Preparation and dielectric properties of polymer composites incorporated with polydopamine@AgNPs coreâ€"satellite particles. RSC Advances, 2016, 6, 34529-34533.	3.6	22
1039	Performance of palladium nanoparticleâ€"graphene composite as an efficient electrode material for electrochemical double layer capacitors. Electrochimica Acta, 2016, 196, 547-557.	5.2	28
1040	Lightweight flexible polyurethane/reduced ultralarge graphene oxide composite foams for electromagnetic interference shielding. RSC Advances, 2016, 6, 27517-27527.	3.6	79
1041	Graphene oxide induced isotactic polypropylene crystallization: role of structural reduction. RSC Advances, 2016, 6, 23930-23941.	3.6	20
1042	Good's buffer derived highly emissive carbon quantum dots: excellent biocompatible anticancer drug carrier. Journal of Materials Chemistry B, 2016, 4, 2412-2420.	5.8	28
1043	Controllably self-assembled graphene-supported Au@Pt bimetallic nanodendrites as superior electrocatalysts for methanol oxidation in direct methanol fuel cells. Journal of Materials Chemistry A, 2016, 4, 7352-7364.	10.3	57
1044	Biomassâ€Derived Hierarchical Nanoporous Carbon with Rich Functional Groups for Directâ€Electronâ€Transferâ€Based Glucose Sensing. ChemElectroChem, 2016, 3, 144-151.	3.4	26
1045	Semi-transparent, conductive thin films of electrochemical exfoliated graphene. RSC Advances, 2016, 6, 39275-39283.	3.6	29
1046	High-concentration dispersions of exfoliated MoS2 sheets stabilized by freeze-dried silk fibroin powder. Nano Research, 2016, 9, 1709-1722.	10.4	31
1047	Atomically thin two-dimensional materials as hole extraction layers in organolead halide perovskite photovoltaic cells. Journal of Power Sources, 2016, 319, 1-8.	7.8	98
1048	Adsorption of pure SO₂ on nanoscaled graphene oxide. RSC Advances, 2016, 6, 36834-36839.	3.6	31
1049	Charge Transport Properties of Improved Reduced-Graphene-Oxide-Based Field-Effect Transistors. IEEE Electron Device Letters, 2016, , 1-1.	3.9	1

#	Article	IF	Citations
1050	Effects of Surface Pretreatment of Glassy Carbon on the Electrochemical Behavior of V(IV)/V(V) Redox Reaction. Journal of the Electrochemical Society, 2016, 163, A1164-A1174.	2.9	37
1051	Facile electrochemical preparation of a composite film of ruthenium dioxide and carboxylated graphene for a high performance supercapacitor. RSC Advances, 2016, 6, 33666-33675.	3.6	17
1052	Magnetic properties of thermally reduced graphene oxide decorated with PtNi nanoparticles. Journal of Alloys and Compounds, 2016, 678, 541-548.	5.5	22
1053	Effective Removal of Heavy Metals from Aqueous Solutions by Graphene Oxideâ€"Zirconium Phosphate (GOâ€"Zr-P) Nanocomposite. Industrial & Engineering Chemistry Research, 2016, 55, 5608-5617.	3.7	111
1054	Copper nanoparticles spaced 3D graphene films for binder-free lithium-storing electrodes. Journal of Materials Chemistry A, 2016, 4, 8466-8477.	10.3	21
1055	Electrical characterization and conductivity optimization of laser reduced graphene oxide on insulator using point-contact methods. RSC Advances, 2016, 6, 46231-46237.	3.6	16
1056	Modulation of Protein Adsorption and Cell Proliferation on Polyethylene Immobilized Graphene Oxide Reinforced HDPE Bionanocomposites. ACS Applied Materials & Interfaces, 2016, 8, 11954-11968.	8.0	30
1057	Electrodeposited reduced-graphene oxide/cobalt oxide electrodes for charge storage applications. Applied Surface Science, 2016, 382, 34-40.	6.1	22
1058	Photo-thermal oxidation of single layer graphene. RSC Advances, 2016, 6, 42545-42553.	3.6	32
1059	Synthesis of RGO/TiO2 nanocomposite flakes and characterization of their unique electrostatic properties using zeta potential measurements. Journal of Alloys and Compounds, 2016, 679, 470-484.	5.5	31
1060	Synthesis of functionalized N-doped graphene DNA hybrid material in a deep eutectic solvent. Green Chemistry, 2016, 18, 4297-4302.	9.0	10
1061	Surface plasmon enhancement of photoluminescence in photo-chemically synthesized graphene quantum dot and Au nanosphere. Nano Research, 2016, 9, 1866-1875.	10.4	28
1062	Mechanical properties of aluminium based metal matrix composites reinforced with graphite nanoplatelets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 16-32.	5.6	106
1063	Emerging investigators series: silica-crosslinked graphene oxide membrane and its unique capability in removing neutral organic molecules from water. Environmental Science: Water Research and Technology, 2016, 2, 717-725.	2.4	21
1064	Optically triggered actuation in chitosan/reduced graphene oxide nanocomposites. Carbohydrate Polymers, 2016, 144, 115-121.	10.2	22
1065	A simple and mild chemical oxidation route to high-purity nano-graphene oxide. Carbon, 2016, 106, 56-63.	10.3	28
1066	Effect of the graphene derived from thermal reduction within matrix on the performance of graphene/poly (methyl methacrylate) composites. Journal of Analytical and Applied Pyrolysis, 2016, 120, 215-221.	5.5	6
1067	Hierarchical porous microspheres of activated carbon with a high surface area from spores for electrochemical double-layer capacitors. Journal of Materials Chemistry A, 2016, 4, 15968-15979.	10.3	80

#	Article	IF	Citations
1068	Synthesis and electrochemical studies of Ta â€“ Graphene nanocomposite film modified platinum electrode. Journal of Electroanalytical Chemistry, 2016, 780, 53-59.	3.8	14
1069	Vanadium (V) reduction reaction on modified glassy carbon electrodes â€“ Role of oxygen functionalities and microstructure. Carbon, 2016, 109, 472-478.	10.3	33
1070	Nitrogen-Doped Carbon Cloth for Supercapacitors Prepared via a Hydrothermal Process. Journal of the Electrochemical Society, 2016, 163, A2428-A2434.	2.9	26
1071	Enhanced Stability of Laminated Graphene Oxide Membranes for Nanofiltration via Interstitial Amide Bonding. ACS Applied Materials & Interfaces, 2016, 8, 27376-27382.	8.0	128
1072	Low-temperature microwave-assisted hydrothermal fabrication of RGO/MnO2â€“CNTs nanoarchitectures and their improved performance in supercapacitors. RSC Advances, 2016, 6, 98010-98017.	3.6	18
1074	Enhancing catalytic performance of activated carbon supported Rh catalyst on heterogeneous hydroformylation of 1-hexene via introducing surface oxygen-containing groups. Applied Catalysis A: General, 2016, 527, 53-59.	4.3	30
1075	Mangifera indica, Ficus religiosa and Polyalthia longifolia leaf extract-assisted green synthesis of graphene for transparent highly conductive film. RSC Advances, 2016, 6, 96355-96366.	3.6	32
1076	Reduction of the graphene oxide films by soft UV irradiation. , 2016, , .		0
1077	Graphene-Karst Cave Flower-like Niâ€“Mn Layered Double Oxides Nanoarrays with Energy Storage Electrode. Electrochimica Acta, 2016, 220, 36-46.	5.2	28
1078	DNA adsorbed on graphene and graphene oxide: Fundamental interactions, desorption and applications. Current Opinion in Colloid and Interface Science, 2016, 26, 41-49.	7.4	224
1079	CoP Nanoparticles in Situ Grown in Three-Dimensional Hierarchical Nanoporous Carbons as Superior Electrocatalysts for Hydrogen Evolution. ACS Applied Materials & Interfaces, 2016, 8, 20720-20729.	8.0	67
1080	Finding optimal HBr reduction of inkjet printed graphene oxide for flexible electronics. Materials Chemistry and Physics, 2016, 181, 409-414.	4.0	9
1081	Influence of sp³â€“sp² Carbon Nanodomains on Metal/Support Interaction, Catalyst Durability, and Catalytic Activity for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 23260-23269.	8.0	95
1082	Effect of pH on the spontaneous synthesis of palladium nanoparticles on reduced graphene oxide. Applied Surface Science, 2016, 389, 911-915.	6.1	21
1083	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.	10.3	46
1084	Physical and chemical mechanisms affecting electrical conductivity in reduced graphene oxide films. Thin Solid Films, 2016, 616, 172-182.	1.8	38
1085	Evaluation of Humic Acid and Tannic Acid Fouling in Graphene Oxide-Coated Ultrafiltration Membranes. ACS Applied Materials & Interfaces, 2016, 8, 22270-22279.	8.0	56
1086	Highly conductive, monolayer and large-area reduced graphene oxide films fabricated by electrical connection at the two-dimensional boundaries between the tiled graphene oxide flakes. Thin Solid Films, 2016, 615, 247-255.	1.8	11

#	Article	IF	Citations
1087	Non-oxidative, controlled exfoliation of graphite in aqueous medium. Nanoscale, 2016, 8, 15702-15711.	5.6	8
1088	Recent Advances in Laser Utilization in the Chemical Modification of Graphene Oxide and Its Applications. Advanced Optical Materials, 2016, 4, 37-65.	7.3	140
1089	Ultrasonic-microwave assisted synthesis of stable reduced graphene oxide modified melamine foam with superhydrophobicity and high oil adsorption capacities. Chemical Engineering Journal, 2016, 306, 504-511.	12.7	184
1090	Sulfonated Graphene Synthesized via a Green Route and Its Capacitive Properties. Chinese Journal of Chemistry, 2016, 34, 98-106.	4.9	7
1091	Beta-FeOOH-supported graphitic carbon nitride as an efficient visible light photocatalyst. Journal of Molecular Catalysis A, 2016, 423, 463-471.	4.8	34
1092	Optical Properties of Graphene and Its Applications under Total Internal Reflection. , 2016, , 687-700.		0
1093	In Situ Analysis of the Liâ€“O2 Battery with Thermally Reduced Graphene Oxide Cathode: Influence of Water Addition. Journal of Physical Chemistry C, 2016, 120, 21211-21217.	3.1	2
1094	A multi-scale model of the oxygen reduction reaction on highly active graphene nanosheets in alkaline conditions. Journal of Power Sources, 2016, 328, 492-502.	7.8	14
1095	Challenges in Liquidâ€Phase Exfoliation, Processing, and Assembly of Pristine Graphene. Advanced Materials, 2016, 28, 8796-8818.	21.0	123
1096	Chitosan derivatives/reduced graphene oxide/alginate beads for small-molecule drug delivery. Materials Science and Engineering C, 2016, 69, 1222-1228.	7.3	80
1097	A series of BiO_xI_y/GO photocatalysts: synthesis, characterization, activity, and mechanism. RSC Advances, 2016, 6, 82743-82758.	3.6	100
1098	Facile and simultaneous synthesis of graphene quantum dots and reduced graphene oxide for bio-imaging and supercapacitor applications. New Journal of Chemistry, 2016, 40, 9111-9124.	2.8	49
1099	In situ formed graphene/ZnO nanostructured composites for low temperature hydrogen sulfide removal from natural gas. RSC Advances, 2016, 6, 81142-81150.	3.6	25
1100	Role of Carbonaceous Fragments on the Functionalization and Electrochemistry of Carbon Materials. ChemElectroChem, 2016, 3, 2138-2145.	3.4	7
1101	Defectiveâ€Activatedâ€Carbonâ€Supported Mnâ€“Co Nanoparticles as a Highly Efficient Electrocatalyst for Oxygen Reduction. Advanced Materials, 2016, 28, 8771-8778.	21.0	175
1102	Transcrystallization at the surface of graphene-modified chitosan fibers. Journal Physics D: Applied Physics, 2016, 49, 265305.	2.8	3
1103	Carbon-Encapsulated Fe Nanoparticles Embedded in Organic Polypyrrole Polymer as a High Performance Microwave Absorber. Journal of Physical Chemistry C, 2016, 120, 28320-28329.	3.1	60
1104	Transformation of Cellulose into Nonionic Surfactants Using a Oneâ€Pot Catalytic Process. ChemSusChem, 2016, 9, 3492-3502.	6.8	18

#	Article	IF	Citations
1105	Grapheneâ€Mimicking 2D Porous Co₃O₄ Nanofoils for Lithium Battery Applications. Advanced Functional Materials, 2016, 26, 7605-7613.	14.9	68
1107	A Novel Grapheneâ€Supported Palladium Catalyst for Suzukiâ€"Miyaura Coupling of Less Reactive Heteroaryl Halides in Water. Bulletin of the Korean Chemical Society, 2016, 37, 1478-1485.	1.9	6
1108	Synergistic influence of graphene oxide and tetraoctylammonium bromide (frozen ionic liquid) for the enhanced adsorption and recovery of palladium from an industrial catalyst. Journal of Environmental Chemical Engineering, 2016, 4, 4287-4298.	6.7	11
1109	Room-temperature fabrication of a three-dimensional reduced-graphene oxide/polypyrrole/hydroxyapatite composite scaffold for bone tissue engineering. RSC Advances, 2016, 6, 92804-92812.	3.6	33
1110	Preparation of a grapheneâ€"silver nanowire hybrid/silicone rubber composite for thermal interface materials. Journal of the Taiwan Institute of Chemical Engineers, 2016, 68, 396-406.	5.3	17
1111	Design of boronic acid-attributed carbon dots on inhibits HIV-1 entry. RSC Advances, 2016, 6, 92996-93002.	3.6	64
1112	A Facile Electrophoretic Deposition Route to the Fe₃O₄/CNTs/rGO Composite Electrode as a Binder-Free Anode for Lithium Ion Battery. ACS Applied Materials & Interfaces, 2016, 8, 26730-26739.	8.0	114
1113	Synthesis and characterisation of poly(3-hexyl thiophene)-grafted graphene oxide sheets by click chemistry. International Journal of Nanotechnology, 2016, 13, 318.	0.2	1
1114	Exploration of thermoplastic polyimide as high temperature adhesive and understanding the interfacial chemistry using XPS, ToF-SIMS and Raman spectroscopy. Materials and Design, 2016, 109, 622-633.	7.0	32
1115	Half and full sodium-ion batteries based on maize with high-loading density and long-cycle life. Nanoscale, 2016, 8, 15497-15504.	5.6	35
1116	A Free-standing Graphene-Polypyrrole Hybrid Paper via Electropolymerization with an Enhanced Areal Capacitance. Electrochimica Acta, 2016, 212, 561-571.	5.2	66
1117	Electrophoretic Deposition of Graphene-Based Materials and Their Energy-Related Applications. , 2016, , 191-204.		1
1118	Graphene Chemiresistors as pH Sensors: Fabrication and Characterization. , 2016, , 327-336.		0
1119	The electrochemical behaviors of tetrahydropalmatine at a nickel nanoparticles/sulfonated graphene sheets modified glassy carbon electrode. RSC Advances, 2016, 6, 71351-71359.	3.6	3
1120	Direct Observation, Molecular Structure, and Location of Oxidation Debris on Graphene Oxide Nanosheets. Environmental Science & Technology, 2016, 50, 8568-8577.	10.0	64
1121	Surface hydroxylation of graphitic carbon nitride: Enhanced visible light photocatalytic activity. Materials Research Bulletin, 2016, 84, 46-56.	5.2	38
1122	Enhancing the resistance against oxidation of polyphenylene sulphide fiber via incorporation of nano TiO2SiO2 and its mechanistic analysis. Polymer Degradation and Stability, 2016, 129, 77-86.	5.8	33
1123	Graphene Oxideâ€Based Sensor for Ultrasensitive Visual Detection of Fluoride. Advanced Science, 2016, 3, 1600217.	11.2	32

#	Article	IF	Citations
1124	Graphene oxide-Laponite hybrid from highly stable aqueous dispersion. Applied Clay Science, 2016, 132-133, 105-113.	5.2	18
1125	Nitrogen Modified Carbon Nano-Materials as Stable Catalysts for Phosgene Synthesis. ACS Catalysis, 2016, 6, 5843-5855.	11.2	36
1126	Fabrication of a flexible and conductive lyocell fabric decorated with graphene nanosheets as a stable electrode material. Carbohydrate Polymers, 2016, 152, 19-25.	10.2	41
1127	Minute-made activated porous carbon from agro-waste for Li-ion battery anode using a low power microwave oven. Electrochimica Acta, 2016, 212, 535-544.	5.2	30
1128	Electrically Controlled Photocatalytic Reduction of Graphene Oxide Sheets by ZnO Nanostructures, Suitable for Tunable Optoelectronic Applications. IEEE Transactions on Electron Devices, 2016, , 1-7.	3.0	0
1129	Bilayered Biofoam for Highly Efficient Solar Steam Generation. Advanced Materials, 2016, 28, 9400-9407.	21.0	457
1130	Green synthesis of holey graphene sheets and their assembly into aerogel with improved ion transport property. Electrochimica Acta, 2016, 212, 171-178.	5.2	44
1131	On the cycling stability of the supercapacitive performance of activated carbon in KOH and H 2 SO 4 electrolytes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 511, 294-302.	4.7	23
1132	Propylene/propane permeation properties of ethyl cellulose (EC) mixed matrix membranes fabricated by incorporation of nanoporous graphene nanosheets. Scientific Reports, 2016, 6, 28509.	3.3	18
1133	Facilitated biological reduction of nitroaromatic compounds by reduced graphene oxide and the role of its surface characteristics. Scientific Reports, 2016, 6, 30082.	3.3	34
1134	Fast Degradation for High Activity: Oxygenâ€•and Nitrogenâ€Functionalised Carbon Nanotubes in Solidâ€Acid Fuelâ€Cell Electrodes. ChemSusChem, 2016, 9, 3298-3306.	6.8	4
1135	La₂O₃Promoted Pd/rGO Electro-catalysts for Formic Acid Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 32581-32590.	8.0	46
1136	Chapter 6 Graphene: A New Star Nanomaterial in Energy and Environment Applications. , 2016, , 273-306.		0
1137	Study on the three dimensional mechanism of graphene oxide nanosheets modified cement. Construction and Building Materials, 2016, 126, 730-739.	7.2	142
1138	A New Raman Metric for the Characterisation of Graphene oxide and its Derivatives. Scientific Reports, 2016, 6, 19491.	3.3	250
1139	Air@rGOâ,¬Fe₃O₄ microspheres with spongy shells: self-assembly and microwave absorption performance. Journal of Materials Chemistry C, 2016, 4, 10518-10528.	5.5	77
1140	Intercalation-assisted longitudinal unzipping of carbon nanotubes for green and scalable synthesis of graphene nanoribbons. Scientific Reports, 2016, 6, 22755.	3.3	82
1141	In situ hydrothermal synthesis of silver nanoparticle based on graphene and their application for electrically conductive adhesive. , 2016, , .		0

#	Article	IF	Citations
1142	The effect of bound rubber on vulcanization kinetics in silica filled silicone rubber. RSC Advances, 2016, 6, 101470-101476.	3.6	22
1143	Graphene in Photocatalysis: A Review. Small, 2016, 12, 6640-6696.	10.0	836
1144	Copper vapor-assisted growth of hexagonal graphene domains on silica islands. Applied Physics Letters, 2016, 109, .	3.3	5
1145	Relationship between microstructure of lamellar graphene sheets and properties of polyimide/graphene nanocomposites film under different imidization stages. Journal of Applied Polymer Science, 2016, 133, .	2.6	6
1146	Strongly Coupled Architectures of Cobalt Phosphide Nanoparticles Assembled on Graphene as Bifunctional Electrocatalysts for Water Splitting. ChemElectroChem, 2016, 3, 719-725.	3.4	82
1147	Production of Metalâ€Free Composites Composed of Graphite Oxide and Oxidized Carbon Nitride Nanodots and Their Enhanced Photocatalytic Performances. Chemistry - A European Journal, 2016, 22, 5142-5145.	3.3	19
1148	Response surface modeling of lead (×€×€) removal by graphene oxide-Fe3O4 nanocomposite using central composite design. Journal of Environmental Health Science & Engineering, 2016, 14, 2.	3.0	41
1149	The role of interlayer adhesion in graphene oxide upon its reinforcement of nanocomposites. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150283.	3.4	23
1150	Graphene Oxide-Assisted Liquid Phase Exfoliation of Graphite into Graphene for Highly Conductive Film and Electromechanical Sensors. ACS Applied Materials & Interfaces, 2016, 8, 16521-16532.	8.0	98
1151	Adsorption Behavior of Silk Fibroin on Amphiphilic Graphene Oxide. ACS Biomaterials Science and Engineering, 2016, 2, 1084-1092.	5.2	36
1152	Electrodeposited gold dendrites at reduced graphene oxide as an electrocatalyst for nitrite and glucose oxidation. Journal of Electroanalytical Chemistry, 2016, 776, 82-92.	3.8	30
1153	Improvement of vertically aligned carbon nanotube membranes: desalination potential, flux enhancement and scale-up. Desalination and Water Treatment, 2016, 57, 28133-28140.	1.0	15
1154	Preparation and characterization of graphene derived from low-temperature and pressure promoted thermal reduction. Composites Part B: Engineering, 2016, 99, 106-111.	12.0	33
1155	Oxygenated monolayer carbon nitride for excellent photocatalytic hydrogen evolution and external quantum efficiency. Nano Energy, 2016, 27, 138-146.	16.0	379
1156	Solvent transfer of graphene oxide for synthesis of tin mono-sulfide graphene composite and application as anode of lithium-ion battery. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 213, 69-82.	3.5	7
1157	Fabrication techniques and applications of flexible graphene-based electronic devices. Journal of Semiconductors, 2016, 37, 041001.	3.7	25
1158	Effects of carbon supports on Pt distribution, ionomer coverage and cathode performance for polymer electrolyte fuel cells. Journal of Power Sources, 2016, 315, 179-191.	7.8	264
1159	The influence of oxygen functional groups on gas-sensing properties of reduced graphene oxide (rGO) at room temperature. RSC Advances, 2016, 6, 52339-52346.	3.6	44

#	Article	IF	Citations
1160	The emergence of quantum capacitance in epitaxial graphene. Journal of Materials Chemistry C, 2016, 4, 5829-5838.	5.5	13
1161	Synthesis of Ni/Graphene Nanocomposite for Hydrogen Storage. ACS Applied Materials & Interfaces, 2016, 8, 15232-15241.	8.0	106
1162	Perspectives of Polystyrene Composite with Fullerene, Carbon Black, Graphene, and Carbon Nanotube: A Review. Polymer-Plastics Technology and Engineering, 2016, 55, 1988-2011.	1.9	33
1163	Magnetic Properties of Nanographene Bilayer. , 2016, , 177-188.		0
1164	Facile enhancement in proton conductivity of sulfonated poly (ether ether ketone) using functionalized graphene oxideâ€"synthesis, characterization, and application towards proton exchange membrane fuel cells. Colloid and Polymer Science, 2016, 294, 1197-1207.	2.1	69
1165	Water-dispersible triethylenetetramine-functionalized graphene: Preparation, characterization and application as an amperometric glucose sensor. Materials Science and Engineering C, 2016, 68, 308-316.	7.3	28
1166	Opening Lids: Modulation of Lipase Immobilization by Graphene Oxides. ACS Catalysis, 2016, 6, 4760-4768.	11.2	139
1167	Modification of grapheneâ€oxide surface in nitrogen and argon glow discharge plasma. Surface and Interface Analysis, 2016, 48, 461-464.	1.8	12
1168	Creating Pores on Graphene Platelets by Lowâ€Temperature KOH Activation for Enhanced Electrochemical Performance. Small, 2016, 12, 2376-2384.	10.0	95
1169	In Situ Processing of Graphene/Leucite Nanocomposite Through Graphene Oxide/Geopolymer. Journal of the American Ceramic Society, 2016, 99, 1164-1173.	3.8	27
1170	Reduced graphene oxide decorated with in-situ growing ZnO nanocrystals: Facile synthesis and enhanced microwave absorption properties. Carbon, 2016, 108, 52-60.	10.3	229
1171	Graphene oxide: strategies for synthesis, reduction and frontier applications. RSC Advances, 2016, 6, 64993-65011.	3.6	428
1172	Change of the short-range scattering in the graphene covered with Bi 2 O 3 clusters. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 78, 79-84.	2.7	2
1173	Deep eutectic solvent promoted one step sustainable conversion of fresh seaweed biomass to functionalized graphene as a potential electrocatalyst. Green Chemistry, 2016, 18, 2819-2826.	9.0	84
1174	Electrochemical aptasensor for lysozyme based on a gold electrode modified with a nanocomposite consisting of reduced graphene oxide, cuprous oxide, and plasma-polymerized propargylamine. Mikrochimica Acta, 2016, 183, 633-642.	5.0	28
1175	Green synthesis of AgNPs/reduced graphene oxide nanocomposites and effect on the electrical performance of electrically conductive adhesives. Journal of Materials Science: Materials in Electronics, 2016, 27, 3540-3548.	2.2	16
1176	Nitrogen-doped graphene nanosheets as metal-free catalysts for dehydrogenation reaction of ethanol. RSC Advances, 2016, 6, 13450-13455.	3.6	25
1177	An electrochemical sensor for determination of tryptophan in the presence of DA based on poly(<scp>l</scp>-methionine)/graphene modified electrode. RSC Advances, 2016, 6, 10662-10669.	3.6	51

#	Article	IF	Citations
1178	Characterization of graphene-on-insulator films formed using plasma based surface chemistry. Carbon, 2016, 99, 212-221.	10.3	8
1179	Preparation of graphene oxide by dry planetary ball milling process from natural graphite. RSC Advances, 2016, 6, 12657-12668.	3.6	109
1180	Functionalization of graphene by atmospheric pressure plasma jet in air or H2O2 environments. Applied Surface Science, 2016, 367, 160-166.	6.1	11
1181	Thermal reduction of graphene oxide mixed with hard carbon and their high performance as lithium ion battery anode. Carbon, 2016, 100, 600-607.	10.3	61
1182	Aerobic selective oxidation of 5-hydroxymethyl-furfural over nitrogen-doped graphene materials with 2,2,6,6-tetramethylpiperidin-oxyl as co-catalyst. Catalysis Science and Technology, 2016, 6, 2377-2386.	4.1	45
1183	Investigation on the Use of Graphene Oxide as Novel Surfactant for Stabilizing Carbon Based Materials. Journal of Dispersion Science and Technology, 2016, 37, 1395-1407.	2.4	17
1184	Moving beyond flexible to stretchable conductive electrodes using metal nanowires and graphenes. Nanoscale, 2016, 8, 1789-1822.	5.6	69
1185	Cokes of different origin as precursors of graphene oxide. Fuel, 2016, 166, 400-403.	6.4	33
1186	Functionalized graphene nanomaterials: new insight into direct exfoliation of graphite with supramolecular polymers. Nanoscale, 2016, 8, 723-728.	5.6	29
1187	Implementing an in-situ carbon network in Si/reduced graphene oxide for high performance lithium-ion battery anodes. Nano Energy, 2016, 19, 187-197.	16.0	148
1188	Electrical and electrochemical properties of graphene modulated through surface functionalization. RSC Advances, 2016, 6, 27404-27415.	3.6	22
1189	Experimental and theoretical studies on competitive adsorption of aromatic compounds on reduced graphene oxides. Journal of Materials Chemistry A, 2016, 4, 5654-5662.	10.3	185
1190	In Situ Monitoring the Molecular Diffusion Process in Graphene Oxide Membranes by ATR-FTIR Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 7451-7456.	3.1	22
1191	Iron oxide/oxyhydroxide decorated graphene oxides for oxygen reduction reaction catalysis: a comparison study. RSC Advances, 2016, 6, 29848-29854.	3.6	38
1192	An integrated nanocarbonâ€“cellulose membrane for solid-state supercapacitors. Science Bulletin, 2016, 61, 368-377.	9.0	4
1193	A graphene oxide-wrapped bipyramidal sulfur@polyaniline coreâ€“shell structure as a cathode for Liâ€“S batteries with enhanced electrochemical performance. Journal of Materials Chemistry A, 2016, 4, 6404-6410.	10.3	98
1194	General one-pot strategy to prepare Agâ€“TiO2 decorated reduced graphene oxide nanocomposites for chemical and biological disinfectant. Journal of Alloys and Compounds, 2016, 671, 51-59.	5.5	103
1195	Molybdenum Disulfide Nanosheets Interconnected Nitrogen-Doped Reduced Graphene Oxide Hydrogel: A High-Performance Heterostructure for Lithium-Ion Batteries. Electrochimica Acta, 2016, 193, 128-136.	5.2	38

#	Article	IF	Citations
1196	Electrochemical sensing of dopamine at the surface of a dopamine grafted graphene oxide/poly(methylene blue) composite modified electrode. RSC Advances, 2016, 6, 19982-19991.	3.6	53
1197	Reconstruction of low-index graphite surfaces. Surface Science, 2016, 649, 60-65.	1.9	15
1198	Inversion of temperatureâ€"resistance relationship by enlarged structural defects in graphene oxide. Carbon, 2016, 102, 81-85.	10.3	16
1199	A facile modification of a polysulphone based anti biofouling anion exchange membrane for microbial fuel cell application. RSC Advances, 2016, 6, 20571-20581.	3.6	24
1200	Self-assembly of mildly reduced graphene oxide monolayer for enhanced Raman scattering. Journal of Solid State Chemistry, 2016, 237, 57-63.	2.9	90
1201	Functionalized C@TiO₂hollow spherical architecture for multifunctional applications. Dalton Transactions, 2016, 45, 5111-5121.	3.3	16
1202	Water-Soluble Phosphated Graphene: Preparation, Characterization, Catalytic Reactivity, and Adsorption Property. Industrial & Engineering Chemistry Research, 2016, 55, 2970-2982.	3.7	42
1203	Graphene Oxide as an Effective Barrier on a Porous Nanofibrous Membrane for Water Treatment. ACS Applied Materials & Interfaces, 2016, 8, 6211-6218.	8.0	311
1204	Biomass derived solvents for the scalable production of single layered graphene from graphite. Chemical Communications, 2016, 52, 9074-9077.	4.1	13
1205	Nano-diamond particles functionalized with single/double-arm amideâ€"thiourea ligands for adsorption of metal ions. Journal of Colloid and Interface Science, 2016, 469, 109-119.	9.4	41
1206	Graphene Containing Composite Coatings as a Protective Coatings against Hydrogen Embrittlement in Quenching & Partitioning High Strength Steel. Journal of the Electrochemical Society, 2016, 163, D160-D166.	2.9	24
1207	Supercapacitive behavior of electrostatic self-assembly reduced graphene oxide/CoAl-layered double hydroxides nanocomposites. Journal of Alloys and Compounds, 2016, 669, 146-155.	5.5	50
1208	Hydrothermally synthesized SnO2-graphene composites for H2 sensing at low operating temperature. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 209, 37-44.	3.5	55
1210	Photochemical reduction of graphene oxide (GO) by femtosecond laser irradiation. , 2016, , .		1
1211	Room-Temperature Intercalation and âˆ¼1000-Fold Chemical Expansion for Scalable Preparation of High-Quality Graphene. Chemistry of Materials, 2016, 28, 2138-2146.	6.7	107
1212	Synthesis, doping and properties of two-dimensional materials. Proceedings of SPIE, 2016, , .	0.8	0
1213	Three dimensional nanocomposite of reduced graphene oxide and hexagonal boron nitride as an efficient metal-free catalyst for oxygen electroreduction. Journal of Materials Chemistry A, 2016, 4, 4506-4515.	10.3	56
1214	A glassy carbon electrode modified with a composite consisting of reduced graphene oxide, zinc oxide and silver nanoparticles in a chitosan matrix for studying the direct electron transfer of glucose oxidase and for enzymatic sensing of glucose. Mikrochimica Acta, 2016, 183, 1625-1632.	5.0	50

#	Article	IF	Citations
1215	A Facile Bulk Production of Processable Partially Reduced Graphene Oxide as Superior Supercapacitor Electrode Material. Electrochimica Acta, 2016, 196, 386-404.	5.2	30
1216	The green reduction of graphene oxide. RSC Advances, 2016, 6, 27807-27828.	3.6	235
1217	Silica-assisted bottom-up synthesis of graphene-like high surface area carbon for highly efficient ultracapacitor and Li-ion hybrid capacitor applications. Journal of Materials Chemistry A, 2016, 4, 5578-5591.	10.3	60
1218	Temperature insensitive PCF interferometer coated with graphene oxide tip sensor. IEEE Photonics Technology Letters, 2016, , 1-1.	2.5	6
1219	Graphene scaffolds in progressive nanotechnology/stem cell-based tissue engineering of the nervous system. Journal of Materials Chemistry B, 2016, 4, 3169-3190.	5.8	174
1220	The observer effect in graphene oxide â€“ How the standard measurements affect the chemical and electronic structure. Carbon, 2016, 103, 235-241.	10.3	22
1221	Recent developments in hybrid iron oxideâ€“noble metal nanocatalysts for organic reactions. Catalysis Today, 2016, 278, 209-226.	4.4	14
1222	Preparation of magnetic Co/graphene sheets composites and investigation on its catalytic activity for H₂ generation. Functional Materials Letters, 2016, 09, 1650009.	1.2	5
1223	Determination of TiO2 nanoparticles in sunscreen using N-doped graphene quantum dots as a fluorescent probe. Mikrochimica Acta, 2016, 183, 781-789.	5.0	28
1224	Synergistic Effects in Nanoengineered HNb₃O₈/Graphene Hybrids with Improved Photocatalytic Conversion Ability of CO₂ into Renewable Fuels. Langmuir, 2016, 32, 254-264.	3.5	37
1225	Facile fabrication of a noble metal-free photocatalyst: TiO2 nanotube arrays covered with reduced graphene oxide. Carbon, 2016, 98, 537-544.	10.3	97
1226	Exciton dynamics in luminescent carbon nanodots: Electronâ€“hole exchange interaction. Nano Research, 2016, 9, 549-559.	10.4	9
1227	The mechanism of direct laser writing of graphene features into graphene oxide films involves photoreduction and thermally assisted structural rearrangement. Carbon, 2016, 99, 423-431.	10.3	139
1228	Effective Noncovalent Functionalization of Poly(ethylene glycol) to Reduced Graphene Oxide Nanosheets through Î³-Radiolysis for Enhanced Lubrication. Journal of Physical Chemistry C, 2016, 120, 2139-2148.	3.1	51
1229	Sulfur Nanogranular Film-Coated Three-Dimensional Graphene Sponge-Based High Power Lithium Sulfur Battery. ACS Applied Materials & Interfaces, 2016, 8, 1984-1991.	8.0	63
1230	Recent developments in the layer-by-layer assembly of polyaniline and carbon nanomaterials for energy storage and sensing applications. From synthetic aspects to structural and functional characterization. Nanoscale, 2016, 8, 9890-9918.	5.6	74
1231	Template-free synthesis of 2D porous ultrathin nonmetal-doped g-C 3 N 4 nanosheets with highly efficient photocatalytic H 2 evolution from water under visible light. Applied Catalysis B: Environmental, 2016, 187, 144-153.	20.2	415
1232	ZnO quantum dots-graphene composites: Formation mechanism and enhanced photocatalytic activity for degradation of methyl orange dye. Journal of Alloys and Compounds, 2016, 663, 738-749.	5.5	84

#	Article	IF	Citations
1233	Reduced graphene oxide deposited carbon fiber reinforced polymer composites for electromagnetic interference shielding. Composites Part A: Applied Science and Manufacturing, 2016, 82, 141-150.	7.6	149
1234	Toward bandgap tunable graphene oxide nanoribbons by plasma-assisted reduction and defect restoration at low temperature. RSC Advances, 2016, 6, 2270-2278.	3.6	16
1236	Chemical bonding-induced rich electronic properties of oxygen adsorbed few-layer graphenes. Physical Chemistry Chemical Physics, 2016, 18, 4000-4007.	2.8	5
1237	Structural analysis of carbon materials by X-ray photoelectron spectroscopy using computational chemistry. Carbon, 2016, 96, 1217.	10.3	0
1238	Recycle and reusable melamine sponge coated by graphene for highly efficient oil-absorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 488, 93-99.	4.7	80
1239	Facile synthesis of rGO/Ag‹sub›3‹/sub›PO‹sub›4‹/sub› by enhanced photocatalytic degradation of an organic dye using a microwave-assisted method. New Journal of Chemistry, 2016, 40, 1330-1335.	2.8	16
1240	The effect of the thermal reduction temperature on the structure and sorption capacity of reduced graphene oxide materials. Applied Surface Science, 2016, 361, 213-220.	6.1	78
1241	Gas barrier performance of graphene/polymer nanocomposites. Carbon, 2016, 98, 313-333.	10.3	514
1242	Hierarchical 3-dimensional nickelâ€“iron nanosheet arrays on carbon fiber paper as a novel electrode for non-enzymatic glucose sensing. Nanoscale, 2016, 8, 843-855.	5.6	88
1243	Literature Review and Research Background. Springer Theses, 2016, , 1-49.	0.1	2
1244	NH 3 gas sensing properties of a gas sensor based on fluorinated graphene oxide. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 490, 104-109.	4.7	83
1245	Free-Standing Graphene Film with High Conductivity by Thermal Reduction of Self-assembled Graphene Oxide Film. Springer Theses, 2016, , 97-110.	0.1	0
1246	Construction of reduced graphene oxide supported molybdenum carbides composite electrode as high-performance anode materials for lithium ion batteries. Materials Research Bulletin, 2016, 73, 459-464.	5.2	40
1247	A facile assembly of 3D robust double network graphene/polyacrylamide architectures via Î³-ray irradiation. Composites Science and Technology, 2016, 123, 276-285.	7.8	53
1248	Theoretical and experimental studies of highly active graphene nanosheets to determine catalytic nitrogen sites responsible for the oxygen reduction reaction in alkaline media. Journal of Materials Chemistry A, 2016, 4, 976-990.	10.3	38
1249	Fabrication of a graphene-based pressure sensor by utilising field emission behavior of carbon nanotubes. Carbon, 2016, 96, 259-267.	10.3	31
1250	Synthesis of the RGO/Al2O3 coreâ€“shell nanocomposite flakes and characterization of their unique electrostatic properties using zeta potential measurements. Applied Surface Science, 2016, 362, 577-594.	6.1	41
1251	Facile Synthesis of Grapheneâ€“Enwrapped Ag‹sub›3‹/sub›PO‹sub›4‹/sub› Composites with Highly Efficient Visible Light Photocatalytic Performance. Nano, 2016, 11, 1650001.	1.0	7

#	Article	IF	Citations
1252	UV-assisted synthesis of reduced graphene oxideâ€"ZnO nanorod composites immobilized on Zn foil with enhanced photocatalytic performance. Research on Chemical Intermediates, 2016, 42, 4479-4496.	2.7	57
1253	Fluorine and sulfur co-doped amorphous carbon films to achieve ultra-low friction under high vacuum. Carbon, 2016, 96, 411-420.	10.3	60
1254	Nano Devices and Circuit Techniques for Low-Energy Applications and Energy Harvesting. KAIST Research Series, 2016, , .	1.5	7
1255	Uniform decoration of silver nanoparticle on exfoliated graphene oxide sheets and its ammonia gas detection. Ceramics International, 2016, 42, 1769-1776.	4.8	38
1256	Graphene and Two-Dimensional Transition Metal Dichalcogenide Materials for Energy-Related Applications. KAIST Research Series, 2016, , 253-291.	1.5	0
1257	l-Cysteine-capped core/shell/shell quantum dotâ€"graphene oxide nanocomposite fluorescence probe for polycyclic aromatic hydrocarbon detection. Talanta, 2016, 146, 780-788.	5.5	33
1258	A simple one-pot in-situ method for the synthesis of aluminum and lanthanum binary oxyhydroxides in chitosan template towards defluoridation of water. Chemical Engineering Journal, 2016, 283, 1081-1089.	12.7	39
1259	TiO2/graphene composite photocatalysts for NOx removal: A comparison of surfactant-stabilized graphene and reduced graphene oxide. Applied Catalysis B: Environmental, 2016, 180, 637-647.	20.2	199
1260	Hierarchical porous microspheres of the Co3O4@graphene with enhanced electrocatalytic performance for electrochemical biosensors. Biosensors and Bioelectronics, 2017, 89, 612-619.	10.1	85
1261	Thermal reduction of graphene-oxide-coated cotton for oil and organic solvent removal. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 216, 10-15.	3.5	32
1262	Synthesis and Characterisation of Reduced Graphene Oxide/Bismuth Composite for Electrodes in Electrochemical Energy Storage Devices. ChemSusChem, 2017, 10, 363-371.	6.8	41
1263	Photoinduced Terahertz Conductivity and Carrier Relaxation in Thermal-Reduced Multilayer Graphene Oxide Films. Journal of Physical Chemistry C, 2017, 121, 2451-2458.	3.1	15
1264	Fabrication and Corrosion Performances of Pure Ni and Ni-Based Coatings Containing Rare Earth Element Ce and Graphene by Reverse Pulse Electrodeposition. Journal of the Electrochemical Society, 2017, 164, D75-D81.	2.9	19
1265	High crystallinity graphene synthesis from graphene oxide. Carbon, 2017, 114, 750.	10.3	5
1266	Microfluidization of Graphite and Formulation of Graphene-Based Conductive Inks. ACS Nano, 2017, 11, 2742-2755.	14.6	257
1267	Improving optical properties of in situ reduced graphene oxide/poly(3-hexylthiophene) composites. Materials Research Express, 2017, 4, 025031.	1.6	14
1268	Effects of sol aging on resistive switching behaviors of HfOx resistive memories. Physica B: Condensed Matter, 2017, 508, 98-103.	2.7	12
1269	Solar mediated reduction of graphene oxide. RSC Advances, 2017, 7, 957-963.	3.6	95

#	Article	IF	Citations
1270	Facile synthesis of P-doped Rh nanoparticles with superior catalytic activity toward dehydrogenation of hydrous hydrazine. International Journal of Hydrogen Energy, 2017, 42, 6137-6143.	7.1	27
1271	Photoelectric properties of graphene oxideâ€"ZnO composite nanosheets vertically grown on substrate. Journal of Alloys and Compounds, 2017, 699, 468-478.	5.5	9
1272	Insights into the Oxidation Mechanism of sp²â€"sp³ Hybrid Carbon Materials: Preparation of a Water-Soluble 2D Porous Conductive Network and Detectable Molecule Separation. Langmuir, 2017, 33, 913-919.	3.5	33
1273	Nano-tribology studies of reduced graphene oxide films in air and in aqueous solutions with different pH values. Journal of Materials Research, 2017, 32, 323-333.	2.6	4
1274	Graphene nanosheets prepared by low-temperature exfoliation and reduction technique toward fabrication of high-performance poly(1-butene)/graphene films. Iranian Polymer Journal (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	4.2	7
1275	Pyrolytic-carbon coating in carbon nanotube foams for better performance in supercapacitors. Journal of Power Sources, 2017, 343, 492-501.	7.8	33
1276	Seriographyâ€Guided Reduction of Graphene Oxide Biopapers for Wearable Sensory Electronics. Advanced Functional Materials, 2017, 27, 1604802.	14.9	51
1277	Aptamer-molecularly imprinted sensor base on electrogenerated chemiluminescence energy transfer for detection of lincomycin. Biosensors and Bioelectronics, 2017, 91, 687-691.	10.1	88
1278	Synthesis of graphene oxide membranes and their behavior in water and isopropanol. Carbon, 2017, 116, 145-153.	10.3	53
1279	Controllable Nanotribological Properties of Graphene Nanosheets. Scientific Reports, 2017, 7, 41891.	3.3	27
1280	Preparation of Reduced Graphene Oxide:ZnO Hybrid Cathode Interlayer Using In Situ Thermal Reduction/Annealing for Interconnecting Nanostructure and Its Effect on Organic Solar Cell. ACS Applied Materials & Interfaces, 2017, 9, 4898-4907.	8.0	45
1281	Highly Sensitive Bendable and Foldable Paper Sensors Based on Reduced Graphene Oxide. ACS Applied Materials & Interfaces, 2017, 9, 4658-4666.	8.0	73
1282	Layered nanofibrillated cellulose hybrid films as flexible lateral heat spreaders: The effect of graphene defect. Carbon, 2017, 115, 338-346.	10.3	65
1283	Effect of processing conditions on the thermal and electrical conductivity of poly (butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 119, 124-132.	7.0	30
1284	Lubrication properties of chemically aged reduced graphene-oxide additives. Surfaces and Interfaces, 2017, 7, 6-13.	3.0	37
1285	Multilevel Ultrafast Flexible Nanoscale Nonvolatile Hybrid Graphene Oxideâ€"Titanium Oxide Memories. ACS Nano, 2017, 11, 3010-3021.	14.6	98
1286	Supramolecular gel-assisted synthesis Co 2 P particles anchored in multielement co-doped graphene as efficient bifunctional electrocatalysts for oxygen reduction and evolution. Electrochimica Acta, 2017, 231, 344-353.	5.2	60
1287	Chemical routes to discharging graphenides. Nanoscale, 2017, 9, 3150-3158.	5.6	17

#	Article	IF	Citations
1288	Tunable H2 binding on alkaline and alkaline earth metals decorated graphene substrates from first-principles calculations. International Journal of Hydrogen Energy, 2017, 42, 10064-10071.	7.1	17
1289	High performance siliconâ€"organic hybrid solar cells via improving conductivity of PEDOT:PSS with reduced graphene oxide. Applied Surface Science, 2017, 407, 398-404.	6.1	51
1290	Flexible freestanding cottonâ€"graphene composites for lithiumâ€ion batteries. Journal of Applied Polymer Science, 2017, 134, .	2.6	6
1291	Graphene oxide film reduction using atomic hydrogen annealing. Thin Solid Films, 2017, 625, 93-99.	1.8	14
1292	Liquid-phase exfoliation (LPE) of graphite towards graphene: An ab initio study. Journal of Molecular Liquids, 2017, 230, 461-472.	4.9	50
1293	Binder-free Li 3 V 2 (PO 4) 3 /C membrane electrode supported on 3D nitrogen-doped carbon fibers for high-performance lithium-ion batteries. Nano Energy, 2017, 34, 111-119.	16.0	85
1294	CNT branching of three-dimensional steam-activated graphene hybrid frameworks for excellent rate and cyclic capabilities to store lithium ions. Carbon, 2017, 116, 500-509.	10.3	27
1295	Oxygen Functionalities Evolution in Thermally Treated Graphene Oxide Featured by EELS and DFT Calculations. Journal of Physical Chemistry C, 2017, 121, 5408-5414.	3.1	40
1296	Different approaches for preparing a novel thiol-functionalized graphene oxide/Fe-Mn and its application for aqueous methylmercury removal. Chemical Engineering Journal, 2017, 319, 229-239.	12.7	119
1297	Seaweed-Derived Nontoxic Functionalized Graphene Sheets as Sustainable Materials for the Efficient Removal of Fluoride from High Fluoride Containing Drinking Water. ACS Sustainable Chemistry and Engineering, 2017, 5, 3488-3498.	6.7	51
1298	Orientation controlled preparation of nanoporous carbon nitride fibers and related composite for gas sensing under ambient conditions. Nano Research, 2017, 10, 1710-1719.	10.4	33
1299	Graphene nanobubbles on TiO₂for in-operando electron spectroscopy of liquid-phase chemistry. Nanoscale, 2017, 9, 4456-4466.	5.6	32
1300	A DFT study of the interplay between dopants and oxygen functional groups over the graphene basal plane â€" implications in energy-related applications. Physical Chemistry Chemical Physics, 2017, 19, 8530-8540.	2.8	56
1301	Metalâ€"Organic Framework Mediated Cobalt/Nitrogenâ€Doped Carbon Hybrids as Efficient and Chemoselective Catalysts for the Hydrogenation of Nitroarenes. ChemCatChem, 2017, 9, 1854-1862.	3.7	83
1302	3D hollow sphere Co3O4/MnO2-CNTs: Its high-performance bi-functional cathode catalysis and application in rechargeable zinc-air battery. Green Energy and Environment, 2017, 2, 316-328.	8.7	50
1303	Unravel the interaction of protoporphyrin IX with reduced graphene oxide by vital spectroscopic techniques. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 178, 86-93.	3.9	11
1304	Strengthening of Ceramic-based Artificial Nacre via Synergistic Interactions of 1D Vanadium Pentoxide and 2D Graphene Oxide Building Blocks. Scientific Reports, 2017, 7, 40999.	3.3	15
1305	Graphene-copper composite with micro-layered grains and ultrahigh strength. Scientific Reports, 2017, 7, 41896.	3.3	94

#	Article	IF	Citations
1306	Three-dimensional hollow porous Co6Mo6C nanoframe as an highly active and durable electrocatalyst for water splitting. Journal of Catalysis, 2017, 347, 63-71.	6.2	39
1307	Tuning the surface chemistry of graphene flakes: new strategies for selective oxidation. RSC Advances, 2017, 7, 14290-14301.	3.6	83
1308	Multivalent Cation Cross-Linking Suppresses Highly Energetic Graphene Oxideâ€™s Flammability. Journal of Physical Chemistry C, 2017, 121, 5829-5835.	3.1	19
1309	Insight into CO₂ Etching Behavior for Efficiently Nanosizing Graphene. Advanced Materials Interfaces, 2017, 4, 1601065.	3.7	10
1310	Impact of Doping on GO: Fast Responseâ€"Recovery Humidity Sensor. ACS Omega, 2017, 2, 842-851.	3.5	70
1311	PDMS/camphor soot composite coating: towards a self-healing and a self-cleaning superhydrophobic surface. RSC Advances, 2017, 7, 15027-15040.	3.6	43
1312	Electrochemical stripping features of graphite and its products characterization. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 79-85.	2.1	4
1313	Photoluminescence-based real-time monitoring of graphene oxide photoreduction: Demonstrations and application to graphene oxide/titanium dioxide composites. Journal of Luminescence, 2017, 188, 129-134.	3.1	4
1314	The direct measurement of the electronic density of states of graphene using metastable induced electron spectroscopy. 2D Materials, 2017, 4, 025068.	4.4	15
1315	Simultaneous Reduction and Functionalization of Graphene Oxide via Ritter Reaction. ACS Applied Materials & Interfaces, 2017, 9, 14265-14272.	8.0	31
1316	Fabrication of reduced graphene oxide micro patterns by vacuum-ultraviolet irradiation: From chemical and structural evolution to improving patterning precision by light collimation. Carbon, 2017, 119, 82-90.	10.3	22
1317	Electrochemical determination of dopamine and acetaminophen using activated graphene-Nafion modified glassy carbon electrode. Journal of Electroanalytical Chemistry, 2017, 794, 221-228.	3.8	89
1318	Structure and electron field emission properties of ion beam reduced graphene oxide sheets. Carbon, 2017, 119, 172-178.	10.3	27
1319	Role of oxygen functional groups in reduced graphene oxide for lubrication. Scientific Reports, 2017, 7, 45030.	3.3	404
1320	One-step hydrothermal treatment to fabricate Bi₂WO₆-reduced graphene oxide nanocomposites for enhanced visible light photoelectrochemical performance. Journal of Materials Chemistry B, 2017, 5, 3718-3727.	5.8	26
1321	Critical influence of reduced graphene oxide mediated binding of M (M = Mg, Mn) with Co ions, chemical stability and charge storability enhancements of spinal-type hierarchical MCo 2 O 4 nanostructures. Electrochimica Acta, 2017, 243, 119-128.	5.2	60
1322	Xenon Flash Lampâ€Induced Ultrafast Multilayer Graphene Growth. Particle and Particle Systems Characterization, 2017, 34, 1600429.	2.3	26
1323	Characterization of PECVD a-C:H:Si:O:Cl films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, 04D103.	2.1	4

#	Article	IF	Citations
1324	Graphene Oxide Nanosheets as An Efficient and Reusable Sorbents for Eosin Yellow Dye Removal from Aqueous Solutions. ChemistrySelect, 2017, 2, 3598-3607.	1.5	24
1325	Amorphous NiP supported on rGO for superior hydrogen generation from hydrolysis of ammonia borane. International Journal of Hydrogen Energy, 2017, 42, 14181-14187.	7.1	94
1326	Structural Studies of Hydrographenes. Accounts of Chemical Research, 2017, 50, 1351-1358.	15.6	10
1327	Carbon nanowalls: A new material for resistive switching memory devices. Carbon, 2017, 120, 54-62.	10.3	42
1328	Microwave absorbing property optimization of starlike ZnO/reduced graphene oxide doped by ZnO nanocrystal composites. Physical Chemistry Chemical Physics, 2017, 19, 14596-14605.	2.8	43
1329	Controllable SERS performance for the flexible paper-like films of reduced graphene oxide. Applied Surface Science, 2017, 419, 373-381.	6.1	40
1330	Hybrid carbon based nanomaterials for electrochemical detection of biomolecules. Progress in Materials Science, 2017, 88, 499-594.	32.8	137
1331	XPS study on the mechanism of starch-hematite surface chemical complexation. Minerals Engineering, 2017, 110, 96-103.	4.3	145
1332	Organofunctional Silane Modification of Aluminum-Doped Zinc Oxide Surfaces as a Route to Stabilization. ACS Applied Materials & Interfaces, 2017, 9, 17620-17628.	8.0	12
1333	Magnetic field controlled graphene oxide-based origami with enhanced surface area and mechanical properties. Nanoscale, 2017, 9, 6991-6997.	5.6	36
1334	Nanoscale Î±-MnS crystallites grown on N-S co-doped rGO as a long-life and high-capacity anode material of Li-ion batteries. Applied Surface Science, 2017, 416, 858-867.	6.1	66
1335	Reduced graphene oxide/Mn 3 O 4 nanocrystals hybrid fiber for flexible all-solid-state supercapacitor with excellent volumetric energy density. Electrochimica Acta, 2017, 242, 10-18.	5.2	71
1336	Ultralow friction of ink-jet printed graphene flakes. Nanoscale, 2017, 9, 7612-7624.	5.6	20
1337	Amorphous CoS nanoparticle/reduced graphene oxide composite as high-performance anode material for sodium-ion batteries. Ceramics International, 2017, 43, 9630-9635.	4.8	37
1338	Electrical properties and oxygen functionalities in ethanol-treated and thermally modified graphene oxide. Journal of Applied Physics, 2017, 121, 155105.	2.5	4
1339	Controlled self-assembly of Ni foam supported poly(ethyleneimine)/reduced graphene oxide three-dimensional composite electrodes with remarkable synergistic effects for efficient oxygen evolution. Journal of Materials Chemistry A, 2017, 5, 1201-1210.	10.3	38
1340	Metal-organic frameworks derived porous core/shellCoP@C polyhedrons anchored on 3D reduced graphene oxide networks as anode for sodium-ion battery. Nano Energy, 2017, 32, 117-124.	16.0	417
1341	One-pot Hydrothermal Synthesis of RGO/FeS Composite on Fe Foil for High Performance Supercapacitors. Electrochimica Acta, 2017, 246, 497-506.	5.2	86

#	Article	IF	Citations
1342	Facet-engineered CeO₂/graphene composites for enhanced NO₂gas-sensing. Journal of Materials Chemistry C, 2017, 5, 6973-6981.	5.5	29
1343	N-Doped graphene/PEDOT composite films as counter electrodes in DSSCs: Unveiling the mechanism of electrocatalytic activity enhancement. Applied Surface Science, 2017, 423, 443-450.	6.1	27
1344	Electrostatics-driven sensing platform: Graphene oxide-probe conjugate for the selective detection of pyrophosphate. Sensors and Actuators B: Chemical, 2017, 252, 706-711.	7.8	7
1345	Construction of SnO2âˆ'Graphene Composite with Half-Supported Cluster Structure as Anode toward Superior Lithium Storage Properties. Scientific Reports, 2017, 7, 3276.	3.3	14
1346	An in situ grown bacterial nanocellulose/graphene oxide composite for flexible supercapacitors. Journal of Materials Chemistry A, 2017, 5, 13976-13982.	10.3	53
1347	Photochemical fabrication of SnO2 dense layers on reduced graphene oxide sheets for application in photocatalytic degradation of p-Nitrophenol. Applied Catalysis B: Environmental, 2017, 215, 8-17.	20.2	77
1348	FeCo-Anchored Reduced Graphene Oxide Framework-Based Soft Composites Containing Carbon Nanotubes as Highly Efficient Microwave Absorbers with Excellent Heat Dissipation Ability. ACS Applied Materials & Interfaces, 2017, 9, 19202-19214.	8.0	132
1349	Interdiffusion Reaction-Assisted Hybridization of Two-Dimensional Metalâ€"Organic Frameworks and Ti₃C₂T_x Nanosheets for Electrocatalytic Oxygen Evolution. ACS Nano, 2017, 11, 5800-5807.	14.6	557
1350	Mixing sequence driven controlled dispersion of graphene oxide in PC/PMMA blend nanocomposite and its effect on thermo-mechanical properties. Current Applied Physics, 2017, 17, 1158-1168.	2.4	37
1351	Ligand-Stabilized ZnO Quantum Dots: Molecular Dynamics and Experimental Study. Australian Journal of Chemistry, 2017, 70, 1110.	0.9	5
1352	Performance of Different Carbon Electrode Materials: Insights into Stability and Degradation under Real Vanadium Redox Flow Battery Operating Conditions. Journal of the Electrochemical Society, 2017, 164, A1608-A1615.	2.9	57
1353	Bioconjugated graphene oxideâ€based Raman probe for selective identification of SKBR3 breast cancer cells. Journal of Raman Spectroscopy, 2017, 48, 1056-1064.	2.5	8
1354	Chemical integration of reduced graphene oxide sheets encapsulated ZnCo2O4 quantum dots achieving excellent capacity storage for lithium-ion batteries. Electrochimica Acta, 2017, 245, 672-684.	5.2	30
1355	Fabrication of coreâ€"shell Ag@pDA@HAp nanoparticles with the ability for controlled release of Ag⁺and superior hemocompatibility. RSC Advances, 2017, 7, 29368-29377.	3.6	33
1356	Experimental review: chemical reduction of graphene oxide (GO) to reduced graphene oxide (rGO) by aqueous chemistry. Nanoscale, 2017, 9, 9562-9571.	5.6	391
1357	Reduced graphene oxide prepared at low temperature thermal treatment as transparent conductors for organic electronic applications. Organic Electronics, 2017, 49, 165-173.	2.6	31
1358	High-performance graphene-based flexible heater for wearable applications. RSC Advances, 2017, 7, 27001-27006.	3.6	91
1359	Conductive graphene coatings synthesized from graphenide solutions. Carbon, 2017, 121, 217-225.	10.3	11

#	Article	IF	Citations
1360	Simultaneous improvement in the flame resistance and thermal conductivity of epoxy/Al₂O₃ composites by incorporating polymeric flame retardant-functionalized graphene. Journal of Materials Chemistry A, 2017, 5, 13544-13556.	10.3	148
1361	Synthesis and Bioactivity of RGO/TiO₂-Noble Metal Nanocomposite Flakes. Journal of Nano Research, 0, 47, 33-48.	0.8	9
1362	Anchoring ceria nanoparticles on graphene oxide and their radical scavenge properties under gamma irradiation environment. Physical Chemistry Chemical Physics, 2017, 19, 16785-16794.	2.8	22
1363	Reduced graphene oxide embedded titanium dioxide nanocomposite as novel photoanode material in natural dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 13678-13689.	2.2	19
1364	Effects of Gibbs free energy of interfacial metal oxide on resistive switching characteristics of solution-processed HfO x films. Physica B: Condensed Matter, 2017, 519, 21-25.	2.7	19
1365	Effective charge-discriminated group separation of metal ions under highly acidic conditions using nanodiamond-pillared graphene oxide membrane. Journal of Materials Chemistry A, 2017, 5, 8051-8061.	10.3	40
1366	Effects of amount of graphene oxide and the times of LightScribe on the performance of all-solid-state flexible graphene-based micro-supercapacitors. Materials Research Express, 2017, 4, 036304.	1.6	19
1367	Coating magnesium hydroxide on surface of carbon microspheres and interface binding with poly (ethylene terephthalate) matrix. Applied Surface Science, 2017, 412, 545-553.	6.1	13
1368	Graphene oxide supported chlorostannate (IV) ionic liquid: BrÃ¸nsted-Lewis acidic combined catalyst for highly efficient Baeyer-Villiger oxidation in water. Molecular Catalysis, 2017, 433, 37-47.	2.0	8
1369	Informing rational design of graphene oxide through surface chemistry manipulations: properties governing electrochemical and biological activities. Green Chemistry, 2017, 19, 2826-2838.	9.0	19
1370	A facile mechanochemical route to a covalently bonded graphitic carbon nitride (g-C₃N₄) and fullerene hybrid toward enhanced visible light photocatalytic hydrogen production. Nanoscale, 2017, 9, 5615-5623.	5.6	89
1371	Role of Oxygen Functionalities in Graphene Oxide Architectural Laminate Subnanometer Spacing and Water Transport. Environmental Science & Technology, 2017, 51, 4280-4288.	10.0	72
1372	One step GO/DTES co-deposition on steels: Electro-induced fabrication and characterization of thickness-controlled coatings. Chemical Engineering Journal, 2017, 320, 588-607.	12.7	14
1373	Spatially Resolved in Situ Reaction Dynamics of Graphene via Optical Microscopy. Journal of the American Chemical Society, 2017, 139, 5836-5841.	13.7	13
1374	Graphene material preparation through thermal treatment of graphite oxide electrochemically synthesized in aqueous sulfuric acid. RSC Advances, 2017, 7, 19904-19911.	3.6	83
1375	Humidity effects on scanning polarization force microscopy imaging. Applied Surface Science, 2017, 412, 497-504.	6.1	7
1376	Incorporating multivalent metal cations into graphene oxide: Towards highly-aqueous-stable free-standing membrane via vacuum filtration with polymeric filters. Materials Today Communications, 2017, 11, 139-146.	1.9	24
1377	Boron Doping of Multiwalled Carbon Nanotubes Significantly Enhances Hole Extraction in Carbon-Based Perovskite Solar Cells. Nano Letters, 2017, 17, 2496-2505.	9.1	184

#	Article	IF	Citations
1378	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. Chemical Reviews, 2017, 117, 6225-6331.	47.7	3,940
1379	Full-cell quinone/hydroquinone supercapacitors based on partially reduced graphite oxide and lignin/PEDOT electrodes. Journal of Materials Chemistry A, 2017, 5, 7137-7143.	10.3	57
1380	Nanocrystalline Graphite Formed at Fullereneâ€Like Carbon Film Frictional Interface. Advanced Materials Interfaces, 2017, 4, 1601113.	3.7	32
1381	Covalent approach for in situ enhancement of interaction between pristine graphene and styreneâ€butadieneâ€pâ€(2,2,2â€triphenylethyl)styrene rubber. Journal of Applied Polymer Science, 2017, 134, 44923.	2.6	4
1382	Enhanced Structural Stability of Nickelâ€"Cobalt Hydroxide via Intrinsic Pillar Effect of Metaborate for High-Power and Long-Life Supercapacitor Electrodes. Nano Letters, 2017, 17, 429-436.	9.1	241
1383	Wrinkled Surface-Mediated Antibacterial Activity of Graphene Oxide Nanosheets. ACS Applied Materials & Interfaces, 2017, 9, 1343-1351.	8.0	154
1384	In vitro cytotoxicity evaluation of graphene oxide from the peroxidase-like activity perspective. Colloids and Surfaces B: Biointerfaces, 2017, 151, 215-223.	5.0	16
1385	Green reduction of graphene oxide via Lycium barbarum extract. Journal of Solid State Chemistry, 2017, 246, 351-356.	2.9	72
1386	Synthesis of Cobalt Phosphide Nanoparticles Supported on Pristine Graphene by Dynamically Selfâ€Assembled Graphene Quantum Dots for Hydrogen Evolution. ChemSusChem, 2017, 10, 1014-1021.	6.8	42
1387	Ion transport through thermally reduced and mechanically stretched graphene oxide membrane. Carbon, 2017, 114, 377-382.	10.3	37
1388	Engineering Favorable Morphology and Structure of Feâ€Nâ€C Oxygenâ€Reduction Catalysts through Tuning of Nitrogen/Carbon Precursors. ChemSusChem, 2017, 10, 774-785.	6.8	124
1389	Influence of carbon based supports on selectivity behavior of diols and propanol in Ru catalyzed glycerol hydrogenolysis. Applied Catalysis B: Environmental, 2017, 204, 134-146.	20.2	50
1390	Effective enhancement of gas separation performance in mixed matrix membranes using core/shell structured multi-walled carbon nanotube/graphene oxide nanoribbons. Nanotechnology, 2017, 28, 065702.	2.6	40
1391	Controlled synthesis of graphene oxide/alumina nanocomposites using a new dry solâ€"gel method of synthesis. Chemical Papers, 2017, 71, 579-595.	2.2	18
1392	Facile preparation of reduced graphene by optimizing oxidation condition and further reducing the exfoliated products. Journal of Materials Research, 2017, 32, 383-391.	2.6	10
1393	Wettability effects of graphene oxide aqueous solution in photodetectors based on graphene oxide/silicon heterojunctions via ultraviolet ozone treatment. Journal of Alloys and Compounds, 2017, 698, 384-389.	5.5	10
1394	Optical and electrical effects of thin reduced graphene oxide layers on textured wafer-based c-Si solar cells for enhanced performance. Journal of Materials Chemistry C, 2017, 5, 1920-1934.	5.5	19
1395	Insights into chemical doping to engineer the carbon nanotube/silicon photovoltaic heterojunction interface. Journal of Materials Chemistry A, 2017, 5, 24247-24256.	10.3	16

#	Article	IF	Citations
1396	Fully Suspended Reduced Graphene Oxide Photodetector with Annealing Temperature-Dependent Broad Spectral Binary Photoresponses. ACS Photonics, 2017, 4, 2797-2806.	6.6	36
1397	Improving the lubricating properties of 10W40 oil using oxidized graphite additives. Journal of Friction and Wear, 2017, 38, 349-354.	0.5	12
1398	Bioinspired, Graphene/Al₂O₃ Doubly Reinforced Aluminum Composites with High Strength and Toughness. Nano Letters, 2017, 17, 6907-6915.	9.1	128
1399	Graphene-Derived Supports for Hydroprocessing Catalysts. Industrial & Engineering Chemistry Research, 2017, 56, 11359-11371.	3.7	22
1400	Porous Carbon/rGO Composite: An Ideal Support Material of Highly Efficient Palladium Electrocatalysts for the Formic Acid Oxidation Reaction. ChemElectroChem, 2017, 4, 3126-3133.	3.4	27
1401	Synthesis of functionalized graphite oxide films by three-dimensional self-assembly for lithium ion battery anodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 226, 164-170.	3.5	6
1402	A thermodynamic structural model of graphene oxide. Journal of Applied Physics, 2017, 122, .	2.5	12
1403	A 3D pore-nest structured siliconâ€"carbon composite as an anode material for high performance lithium-ion batteries. Inorganic Chemistry Frontiers, 2017, 4, 1996-2004.	6.0	17
1404	Synergistic oxidation of CVD graphene on Cu by oxygen plasma etching. Carbon, 2017, 125, 500-508.	10.3	31
1405	Tailoring platelet carbon nanofibers for high-purity Pyridinic-N doping: A novel method for synthesizing oxygen reduction reaction catalysts. Carbon, 2017, 125, 401-408.	10.3	49
1406	Facile spectroscopic approach to obtain the optoelectronic properties of few-layered graphene oxide thin films and their role in photocatalysis. New Journal of Chemistry, 2017, 41, 14217-14227.	2.8	33
1407	Optimization the electrophoretic deposition fabrication of graphene-based electrode to consider electro-optical applications. Surfaces and Interfaces, 2017, 9, 218-227.	3.0	9
1408	High-index faceted nickel ferrite nanocrystals encapsulated by graphene with high performance for lithium-ion batteries. Electrochimica Acta, 2017, 257, 99-108.	5.2	23
1409	An electrochemical sensor for the determination of bisphenol A using glassy carbon electrode modified with reduced graphene oxide-silver/poly-l-lysine nanocomposites. Journal of Electroanalytical Chemistry, 2017, 805, 39-46.	3.8	68
1410	Reduced graphene oxide-germanium quantum dot nanocomposite: electronic, optical and magnetic properties. Nanotechnology, 2017, 28, 495703.	2.6	15
1411	Tethering mesoporous Pd nanoparticles to reduced graphene oxide sheets forms highly efficient electrooxidation catalysts. Journal of Materials Chemistry A, 2017, 5, 21249-21256.	10.3	32
1412	Understanding the pH-dependent adsorption of ionizable compounds on graphene oxide using molecular dynamics simulations. Environmental Science: Nano, 2017, 4, 1935-1943.	4.3	26
1413	Physical properties of nanometer graphene oxide films partially and fully reduced by annealing in ultra-high vacuum. Journal of Applied Physics, 2017, 122, .	2.5	15

#	Article	IF	Citations
1414	Porous Hollowâ€Structured LaNiO₃ Stabilized N,Sâ€Codoped Graphene as an Active Electrocatalyst for Oxygen Reduction Reaction. Small, 2017, 13, 1701884.	10.0	66
1415	Graphene supercapacitor with both high power and energy density. Nanotechnology, 2017, 28, 445401.	2.6	137
1416	Graphene Nanoreactors: Photoreduction of Prussian Blue in Aqueous Solution. Journal of Physical Chemistry C, 2017, 121, 22225-22233.	3.1	12
1417	Characterization techniques for graphene. , 2017, , 45-74.		10
1418	Promotion effect of oxygen-containing functional groups and Fe species on Pd@graphene for CO catalytic oxidation. New Journal of Chemistry, 2017, 41, 12052-12060.	2.8	13
1419	Hybrid Copperâ€Nanowireâ€"Reducedâ€Grapheneâ€Oxide Coatings: A â€œGreen Solutionâ€•Toward Highly Transparent, Highly Conductive, and Flexible Electrodes for (Opto)Electronics. Advanced Materials, 2017, 29, 1703225.	21.0	74
1420	CuO/Cu₂O nanowire arrays grafted by reduced graphene oxide: synthesis, characterization, and application in photocatalytic reduction of CO₂. RSC Advances, 2017, 7, 43642-43647.	3.6	89
1421	Grapheneâ€"vertically aligned carbon nanotube hybrid on PDMS as stretchable electrodes. Nanotechnology, 2017, 28, 465302.	2.6	30
1422	The g-C₃N₄ Nanosheets Separated by PS for Photocatalytic Degradation of Dye. Journal of Nano Research, 2017, 49, 215-224.	0.8	5
1423	Rhodium Nanosheetsâ€"Reduced Graphene Oxide Hybrids: A Highly Active Platinum-Alternative Electrocatalyst for the Methanol Oxidation Reaction in Alkaline Media. ACS Sustainable Chemistry and Engineering, 2017, 5, 10156-10162.	6.7	86
1424	Tactical tuning of the surface and interfacial properties of graphene: A Versatile and rational electrochemical approach. Scientific Reports, 2017, 7, 8354.	3.3	16
1425	Local oxidation and reduction of graphene. Nanotechnology, 2017, 28, 395704.	2.6	9
1427	Effects of the coagulation temperature on the properties of wetâ€spun poly(vinyl alcohol)â€"graphene oxide fibers. Journal of Applied Polymer Science, 2017, 134, 45463.	2.6	7
1428	Physicochemical characteristics of pristine and functionalized graphene. Journal of Applied Toxicology, 2017, 37, 1288-1296.	2.8	22
1429	Polyanilineâ€"single walled carbon nanotube composite â€" a photocatalyst to degrade rose bengal and methyl orange dyes under visible-light illumination. RSC Advances, 2017, 7, 36403-36415.	3.6	86
1430	Molecularly templated reaction for forming poly(dimethyl siloxane)â€"graphene oxide composite elastomers. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 1406-1413.	2.1	1
1431	Preparation and characterization of a photocatalytic antibacterial material: Graphene oxide/TiO2/bacterial cellulose nanocomposite. Carbohydrate Polymers, 2017, 174, 1078-1086.	10.2	64
1432	High Rate and Long Cycle Life of a CNT/rGO/Si Nanoparticle Composite Anode for Lithiumâ€Ion Batteries. Particle and Particle Systems Characterization, 2017, 34, 1700141.	2.3	38

#	Article	IF	Citations
1433	Microwave-Assisted Rapid Exfoliation of Graphite into Graphene by Using Ammonium Bicarbonate as the Intercalation Agent. Industrial & Engineering Chemistry Research, 2017, 56, 9341-9346.	3.7	57
1434	In Situ Electrochemical Sensing and Real-Time Monitoring Live Cells Based on Freestanding Nanohybrid Paper Electrode Assembled from 3D Functionalized Graphene Framework. ACS Applied Materials & Interfaces, 2017, 9, 38201-38210.	8.0	59
1435	Elasticâ€"plastic properties of graphene engineered by oxygen functional groups. Journal Physics D: Applied Physics, 2017, 50, 385305.	2.8	6
1436	Sub-10-nm Graphene Nanoribbons with Tunable Surface Functionalities for Lithium-ion Batteries. Electrochimica Acta, 2017, 249, 404-412.	5.2	9
1437	$$extit{Ex},extit{situ}$$ Ex situ synthesis of G/ $$upalpha $$ Î± -. Bulletin of Materials Science, 2017, 40, 691-698.	1.7	15
1438	Cobalt(<scp>ii</scp>)-8-hydroxyquinoline-5-sulfonic acid complex/N-(4-aminobutyl)-N-ethylisoluminol/reduced graphene hybrids as nanocatalytic reaction platforms for chemiluminescence. RSC Advances, 2017, 7, 37261-37267.	3.6	10
1439	High rate and long cycle life porous carbon nanofiber paper anodes for potassium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 19237-19244.	10.3	195
1440	Chemically fluorinated graphene oxide for room temperature ammonia detection at ppb levels. Journal of Materials Chemistry A, 2017, 5, 19116-19125.	10.3	83
1441	Microwave irradiated N- and B,Cl-doped graphene: Oxidation method has strong influence on capacitive behavior. Applied Materials Today, 2017, 9, 204-211.	4.3	25
1442	Electron beam generated plasmas for the processing of graphene. Journal Physics D: Applied Physics, 2017, 50, 354001.	2.8	31
1443	All-Graphene-Based Highly Flexible Noncontact Electronic Skin. ACS Applied Materials & Interfaces, 2017, 9, 44593-44601.	8.0	110
1444	Effect of the graphite oxide composition on the structure of products obtained by sulfuric acid treatment at elevated temperatures. Journal of Structural Chemistry, 2017, 58, 1180-1186.	1.0	11
1445	N-doped ordered mesoporous carbon/graphene composites with supercapacitor performances fabricated by evaporation induced self-assembly. International Journal of Hydrogen Energy, 2017, 42, 29820-29829.	7.1	45
1446	Graphdiyne as Electrode Material: Tuning Electronic State and Surface Chemistry for Improved Electrode Reactivity. Analytical Chemistry, 2017, 89, 13008-13015.	6.5	67
1447	Phase Behavior of Pickering Emulsions Stabilized by Graphene Oxide Sheets and Resins. Energy & Fuels, 2017, 31, 13439-13447.	5.1	28
1448	Sheetlike gold nanostructures/graphene oxide composites via a one-pot green fabrication protocol and their interesting two-stage catalytic behaviors. RSC Advances, 2017, 7, 51838-51846.	3.6	46
1449	Bacterial adsorption with graphene family materials compared to nano-alumina. Main Group Chemistry, 2017, 16, 175-190.	0.8	6
1450	Oxygen Plasma-Treated Graphene Oxide Surface Functionalization for Sensitivity Enhancement of Thin-Film Piezoelectric Acoustic Gas Sensors. ACS Applied Materials & Interfaces, 2017, 9, 40774-40781.	8.0	31

#	Article	IF	Citations
1451	Empirical Correlation and Validation of Lateral Size-Dependent Absorption Coefficient of Graphene Oxides. ChemistrySelect, 2017, 2, 10004-10009.	1.5	8
1452	Preparation of graphene-MoS2 hybrid aerogels as multifunctional sorbents for water remediation. Science China Materials, 2017, 60, 1102-1108.	6.3	27
1453	Probing the Interaction between Fluoride and the Polysaccharides in Al(III)- and Zr (IV)-Modified Tea Waste by Using Diverse Analytical Characterization Techniques. ChemistrySelect, 2017, 2, 10123-10135.	1.5	10
1454	Unique Hierarchical Mo₂C/C Nanosheet Hybrids as Active Electrocatalyst for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 41314-41322.	8.0	112
1455	Stabilities of flexible electrochemical capacitors based on polypyrrole/carbon fibers in different gel electrolytes. Chinese Journal of Polymer Science (English Edition), 2017, 35, 961-973.	3.8	7
1456	RGO/TPU composite with a segregated structure as thermal interface material. Composites Part A: Applied Science and Manufacturing, 2017, 101, 108-114.	7.6	54
1457	Chemical vapor deposition of partially oxidized graphene. RSC Advances, 2017, 7, 32209-32215.	3.6	4
1458	Thickness-dependent Crack Propagation in Uniaxially Strained Conducting Graphene Oxide Films on Flexible Substrates. Scientific Reports, 2017, 7, 2598.	3.3	28
1459	Preparation and characterization of insensitive HMX/rGO/G composites via in situ reduction of graphene oxide. RSC Advances, 2017, 7, 32275-32281.	3.6	30
1460	Easy dispersion and excellent visible-light photocatalytic activity of the ultrathin urea-derived g-C 3 N 4 nanosheets. Applied Surface Science, 2017, 425, 535-546.	6.1	63
1461	Simultaneous reductive and sorptive removal of Cr(<scp>vi</scp>) by activated carbon supported Î²-FeOOH. RSC Advances, 2017, 7, 34687-34693.	3.6	64
1462	How Reliable Are Raman Spectroscopy Measurements of Graphene Oxide?. Journal of Physical Chemistry C, 2017, 121, 16584-16591.	3.1	32
1463	Distinct Chemical and Physical Properties of Janus Nanosheets. ACS Nano, 2017, 11, 7485-7493.	14.6	79
1464	Chemical functionalization and characterization of graphene-based materials. Chemical Society Reviews, 2017, 46, 4464-4500.	38.1	356
1465	Single-Drop Raman Imaging Exposes the Trace Contaminants in Milk. Journal of Agricultural and Food Chemistry, 2017, 65, 6274-6281.	5.2	29
1466	Enhanced ferromagnetism in edge enriched holey/lacey reduced graphene oxide nanoribbons. Materials and Design, 2017, 132, 295-301.	7.0	13
1467	Electrochemical behaviour of SnZn-graphene oxide composite coatings. Thin Solid Films, 2017, 636, 593-601.	1.8	28
1468	Tuning of electronic properties and dynamical stability of graphene oxide with different functional groups. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 93, 332-338.	2.7	11

#	Article	IF	Citations
1469	Improving the oxidation resistance and stability of Ag nanoparticles by coating with multilayered reduced graphene oxide. Applied Surface Science, 2017, 425, 194-200.	6.1	31
1470	Visible light sensitization of TiO₂ nanoparticles by a dietary pigment, curcumin, for environmental photochemical transformations. RSC Advances, 2017, 7, 32488-32495.	3.6	34
1471	Carboxyl-anhydride and amine plasma coating of PCL nanofibers to improve their bioactivity. Materials and Design, 2017, 132, 257-265.	7.0	45
1472	Threeâ€Dimensional Hierarchically Mesoporous ZnCo₂O₄ Nanowires Grown on Graphene/Sponge Foam for Highâ€Performance, Flexible, Allâ€Solidâ€State Supercapacitors. Chemistry - A European Journal, 2017, 23, 597-604.	3.3	83
1473	Localized resistance measurements of wrinkled reduced graphene oxide using in-situ transmission electron microscopy. Carbon, 2017, 113, 340-345.	10.3	10
1474	Evolution, structure, and electrical performance of voltage-reduced graphene oxide. FlatChem, 2017, 1, 42-51.	5.6	32
1475	Hydrothermal growth of reduced graphene oxide on cotton fabric for enhanced ultraviolet protection applications. Materials Letters, 2017, 188, 123-126.	2.6	75
1476	High Performance Graphene/Ni₂P Hybrid Anodes for Lithium and Sodium Storage through 3D Yolkâ€"Shellâ€Like Nanostructural Design. Advanced Materials, 2017, 29, 1604015.	21.0	220
1477	3D Graphene Frameworks/Co₃O₄ Composites Electrode for Highâ€Performance Supercapacitor and Enzymeless Glucose Detection. Small, 2017, 13, 1602077.	10.0	153
1478	Effects of Changing the Amount of Oxidizing Agents on the Structural Properties of Graphene Oxide and its Dispersion Stability in an Aqueous Medium. Chemical Engineering Communications, 2017, 204, 221-231.	2.6	3
1479	Photocatalytic degradation of deoxynivalenol using graphene/ZnO hybrids in aqueous suspension. Applied Catalysis B: Environmental, 2017, 204, 11-20.	20.2	160
1480	Dielectric transition and ferroelectric properties of graphene oxide-barium titanate nanocomposites. Journal of the European Ceramic Society, 2017, 37, 1401-1409.	5.7	9
1481	Towards a better Sn: Efficient electrocatalytic reduction of CO 2 to formate by Sn/SnS 2 derived from SnS 2 nanosheets. Nano Energy, 2017, 31, 270-277.	16.0	261
1482	Reduced graphene oxide/Î±-Fe2O3 hybrid nanocomposites for room temperature NO2 sensing. Sensors and Actuators B: Chemical, 2017, 241, 109-115.	7.8	84
1483	Effect of TiO2/reduced graphene oxide composite thin film as a blocking layer on the efficiency of dye-sensitized solar cells. Journal of Solid State Electrochemistry, 2017, 21, 891-903.	2.5	35
1484	Morphology-controllable templated synthesis of three-dimensionally structured graphenic materials. Carbon, 2017, 111, 476-485.	10.3	5
1485	Facile electrochemical approach for the production of graphite oxide with tunable chemistry. Carbon, 2017, 112, 185-191.	10.3	59
1486	Structural and thermal stability of graphene oxide-silica nanoparticles nanocomposites. Journal of Alloys and Compounds, 2017, 695, 2054-2064.	5.5	32

#	Article	IF	Citations
1487	Thermal and dielectric properties of multi-walled carbon nanotubeâ€"graphene oxide composite. Journal of Materials Science: Materials in Electronics, 2017, 28, 344-353.	2.2	21
1488	Application of TiO2-graphene nanocomposites to photoanode of dye-sensitized solar cell. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 332, 1-9.	3.9	40
1489	Preparation of porous polyimide/in-situreduced graphene oxide composite films for electromagnetic interference shielding. Polymers for Advanced Technologies, 2017, 28, 233-242.	3.2	36
1490	Cobalt promoted TiO2/GO for the photocatalytic degradation of oxytetracycline and Congo Red. Applied Catalysis B: Environmental, 2017, 201, 159-168.	20.2	298
1491	Graphite felt electrode modified by square wave potential pulse for vanadium redox flow battery. International Journal of Energy Research, 2017, 41, 439-447.	4.5	28
1493	The role of surface chemistry in the cytotoxicity profile of graphene. Journal of Applied Toxicology, 2017, 37, 462-470.	2.8	38
1494	Removal of lead (II) and cadmium (II) cations from water using surfaceâ€modified graphene. Canadian Journal of Chemical Engineering, 2017, 95, 508-515.	1.7	11
1495	Carbon Nanotube/Boron Nitride Nanocomposite as a Significant Bifunctional Electrocatalyst for Oxygen Reduction and Oxygen Evolution Reactions. Chemistry - A European Journal, 2017, 23, 676-683.	3.3	61
1496	Surface modification of aluminium by graphene impregnation. Materials and Design, 2017, 116, 51-64.	7.0	50
1497	Reduction, dispersity and electrical properties of graphene oxide sheets under low-temperature thermal treatments. Journal of Materials Science: Materials in Electronics, 2017, 28, 729-733.	2.2	10
1498	Extreme mechanical reinforcement in graphene oxide based thin-film nanocomposites via covalently tailored nanofiller matrix compatibilization. Carbon, 2017, 114, 367-376.	10.3	46
1499	Electrocatalytic hydrogen evolution reaction on nano-nickel decorated graphene electrode. Energy, 2017, 119, 872-878.	8.8	47
1500	Macroscale cobalt-MOFs derived metallic Co nanoparticles embedded in N-doped porous carbon layers as efficient oxygen electrocatalysts. Applied Surface Science, 2017, 392, 402-409.	6.1	92
1501	Controllable fabrication of 2D and 3D porous graphene architectures using identical thermally exfoliated graphene oxides as precursors and their application as supercapacitor electrodes. Microporous and Mesoporous Materials, 2017, 237, 228-236.	4.4	39
1502	Adsorption of organic carbonate solvents on a carbon surface probed by sum frequency generation (SFG) vibrational spectroscopy. Journal of Electroanalytical Chemistry, 2017, 800, 134-143.	3.8	34
1503	Femtosecond laser direct writing of graphene oxide film on polydimethylsiloxane (PDMS) for flexible and stretchable electronics. , 2017, , .		2
1504	Fabrication of water-dispersible single-walled carbon nanotube powder using N-methylmorpholine N-oxide. Nanotechnology, 2017, 28, 465706.	2.6	5
1505	High Degree Reduction of Graphene Oxide toward a High Carrier Mobility. Journal of the Vacuum Society of Japan, 2017, 60, 300-306.	0.3	1

#	Article	IF	Citations
1506	7 Graphene/Polymer Composite Materials: Processing, Properties and Applications. , 2017, , 349-419.		19
1507	Fully scalable one-pot method for the production of phosphonic graphene derivatives. Beilstein Journal of Nanotechnology, 2017, 8, 1094-1103.	2.8	14
1508	Reduced Graphene Oxide on Nickel Foam for Supercapacitor Electrodes. Materials, 2017, 10, 1295.	2.9	16
1509	Reduced Graphene Oxides: Influence of the Reduction Method on the Electrocatalytic Effect towards Nucleic Acid Oxidation. Nanomaterials, 2017, 7, 168.	4.1	40
1510	Oil Palm Waste-Based Precursors as a Renewable and Economical Carbon Sources for the Preparation of Reduced Graphene Oxide from Graphene Oxide. Nanomaterials, 2017, 7, 182.	4.1	58
1511	Highly Efficient and Stable Organic Solar Cells via Interface Engineering with a Nanostructured ITR-GO/PFN Bilayer Cathode Interlayer. Nanomaterials, 2017, 7, 233.	4.1	6
1512	Effect of Preparation Methods on the Tensile, Morphology and Solar Energy Conversion Efficiency of RGO/PMMA Nanocomposites. Polymers, 2017, 9, 230.	4.5	9
1513	Preparation of Electrospun Nanocomposite Nanofibers of Polyaniline/Poly(methyl methacrylate) with Amino-Functionalized Graphene. Polymers, 2017, 9, 453.	4.5	46
1514	Optical Fibre Sensors Using Graphene-Based Materials: A Review. Sensors, 2017, 17, 155.	3.8	99
1515	Diamond-Like Carbon Nanofoam from Low-Temperature Hydrothermal Carbonization of a Sucrose/Naphthalene Precursor Solution. Journal of Carbon Research, 2017, 3, 23.	2.7	9
1516	Facial Synthesis of Carrageenan/Reduced Graphene Oxide/Ag Composite as Efficient SERS Platform. Materials Research, 2017, 20, 15-20.	1.3	23
1517	Notable photocatalytic activity of TiO2-polyethylene nanocomposites for visible light degradation of organic pollutants. EXPRESS Polymer Letters, 2017, 11, 899-909.	2.1	60
1518	Characteristics tuning of graphene-oxide-based-graphene to various end-uses. Energy Storage Materials, 2018, 14, 8-21.	18.0	43
1519	Graphene oxide standardization and classification: Methods to support the leap from lab to industry. Carbon, 2018, 133, 398-409.	10.3	28
1520	A novel GO/PNIPAm hybrid with two functional domains can simultaneously effectively adsorb and recover valuable organic and inorganic resources. Chemical Engineering Journal, 2018, 343, 607-618.	12.7	43
1521	Doped, Defectâ€Enriched Carbon Nanotubes as an Efficient Oxygen Reduction Catalyst for Anion Exchange Membrane Fuel Cells. Advanced Materials Interfaces, 2018, 5, 1800184.	3.7	37
1522	Catalytically Active Bacterial Nanocelluloseâ€Based Ultrafiltration Membrane. Small, 2018, 14, e1704006.	10.0	59
1523	Monolithic Crystalline Swelling of Graphite Oxide: A Bridge to Ultralarge Graphene Oxide with High Scalability. Chemistry of Materials, 2018, 30, 1888-1897.	6.7	39

#	Article	IF	Citations
1524	Study on properties of Ga/F-co-doped ZnO thin films prepared using atomic layer deposition. Thin Solid Films, 2018, 660, 913-919.	1.8	18
1525	Graphene devices based on laser scribing technology. Japanese Journal of Applied Physics, 2018, 57, 04FA01.	1.5	19
1526	Kinetic and Mechanistic Evaluation of Inorganic Arsenic Species Adsorption onto Humic Acid Grafted Magnetite Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 13540-13547.	3.1	54
1527	Electrochemical behavior of SnNi-graphene oxide composite coatings. Thin Solid Films, 2018, 653, 82-92.	1.8	44
1528	Synthesis of Aminopyrene-tetraone-Modified Reduced Graphene Oxide as an Electrode Material for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 4729-4738.	6.7	43
1529	The electrocatalytic characterization and mechanism of carbon nanotubes with different numbers of walls for the VO₂⁺/VO²⁺ redox couple. Physical Chemistry Chemical Physics, 2018, 20, 7791-7797.	2.8	9
1530	Rapid Identification of the Layer Number of Large-Area Graphene on Copper. Chemistry of Materials, 2018, 30, 2067-2073.	6.7	23
1531	Single-Step Laser-Assisted Graphene Oxide Reduction and Nonlinear Optical Properties Exploration via CW Laser Excitation. Journal of Electronic Materials, 2018, 47, 2871-2879.	2.2	18
1532	Halide Ion Intercalated Electrodeposition Synthesis of Co₃O₄ Nanosheets with Tunable Pores on Graphene Foams as Free-Standing and Flexible Li-Ion Battery Anodes. ACS Applied Energy Materials, 2018, 1, 1239-1251.	5.1	31
1533	Reduction and covalent modification of grapheneâ€oxide by nitrogen in glow discharge plasma. Surface and Interface Analysis, 2018, 50, 1207-1212.	1.8	16
1534	Nano-Sized Structurally Disordered Metal Oxide Composite Aerogels as High-Power Anodes in Hybrid Supercapacitors. ACS Nano, 2018, 12, 2753-2763.	14.6	129
1535	A wearable electrochemical glucose sensor based on simple and low-cost fabrication supported micro-patterned reduced graphene oxide nanocomposite electrode on flexible substrate. Biosensors and Bioelectronics, 2018, 109, 75-82.	10.1	310
1536	ZnO @ N-doped porous carbon/Co 3 ZnC coreâ€"shell heterostructures with enhanced electromagnetic wave attenuation ability. Chemical Engineering Journal, 2018, 342, 364-371.	12.7	92
1537	A simple route to layer-by-layer assembled few layered graphene oxide nanosheets: Optical, dielectric and antibacterial aspects. Journal of Molecular Liquids, 2018, 253, 284-296.	4.9	28
1538	Graphite powder/semipermeable collodion membrane composite for water evaporation. Solar Energy Materials and Solar Cells, 2018, 180, 34-45.	6.2	45
1539	Graphene Grown on Anataseâ€"TiO₂ Nanosheets: Enhanced Photocatalytic Activity on Basis of a Well-Controlled Interface. Journal of Physical Chemistry C, 2018, 122, 6388-6396.	3.1	28
1540	An experimental study on impactâ€induced alterations of planetary organic simulants. Meteoritics and Planetary Science, 2018, 53, 1267-1282.	1.6	4
1541	Frontâ€Endâ€ofâ€Line Integration of Graphene Oxide for Grapheneâ€Based Electrical Platforms. Advanced Materials Technologies, 2018, 3, 1700318.	5.8	16

#	Article	IF	Citations
1542	Experimental and computational investigation of reduced graphene oxide nanoplatelets stabilized in poly(styrene sulfonate) sodium salt. Journal of Materials Science, 2018, 53, 10049-10058.	3.7	14
1543	Effects of electric current on individual graphene oxide sheets combining in situ transmission electron microscopy and Raman spectroscopy. Nanotechnology, 2018, 29, 285702.	2.6	8
1544	Homogeneous growth of TiO₂-based nanotubes on nitrogen-doped reduced graphene oxide and its enhanced performance as a Li-ion battery anode. Nanotechnology, 2018, 29, 255402.	2.6	18
1545	Highly Stabilized Zincâ€Air Batteries Based on Nanostructured Co₃O₄ Composites as Efficient Bifunctional Electrocatalyst. ChemElectroChem, 2018, 5, 1976-1984.	3.4	20
1546	Engineering Molybdenum Diselenide and Its Reduced Graphene Oxide Hybrids for Efficient Electrocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2018, 1, 2143-2152.	5.0	22
1547	One-step nondestructive functionalization of graphene oxide paper with amines. RSC Advances, 2018, 8, 15253-15265.	3.6	32
1548	Radiation effects of IR laser on graphene oxide irradiated in vacuum and in air. Vacuum, 2018, 153, 122-131.	3.5	41
1549	Selective release of less defective graphene during sliding of an incompletely reduced graphene oxide coating on steel. Carbon, 2018, 134, 411-422.	10.3	19
1550	Reduction of graphene oxide by UHV annealing. Surface and Interface Analysis, 2018, 50, 1089-1093.	1.8	9
1551	Efficiency enhancement for solution-processed PbS quantum dots solar cells by inserting graphene oxide as hole-transporting and interface modifying layer. Organic Electronics, 2018, 58, 270-275.	2.6	12
1552	Electrochemical alternative to obtain reduced graphene oxide by pulse potential: Effect of synthesis parameters and study of corrosion properties. Diamond and Related Materials, 2018, 88, 167-188.	3.9	13
1553	Selective edge functionalization of graphene layers with oxygenated groups by means of Reimerâ€"Tiemann and domino Reimerâ€"Tiemann/Cannizzaro reactions. Journal of Materials Chemistry A, 2018, 6, 7749-7761.	10.3	20
1554	Synthesis of fluorinated graphene oxide by using an easy one-pot deoxyfluorination reaction. Journal of Colloid and Interface Science, 2018, 524, 219-226.	9.4	32
1555	Z-scheme Ag₃PO₄/POM/GO heterojunction with enhanced photocatalytic performance for degradation and water splitting. Dalton Transactions, 2018, 47, 6225-6232.	3.3	39
1556	Three dimension (3D) hierarchical electrode (Au/rGO/CoPt3) for electrooxidation of ethanol in fuel cells. International Journal of Hydrogen Energy, 2018, 43, 12596-12602.	7.1	3
1557	Preparations, properties and applications of graphene in functional devices: A concise review. Ceramics International, 2018, 44, 11940-11955.	4.8	171
1558	Laser effects on graphene oxide irradiated in high vacuum. Radiation Effects and Defects in Solids, 2018, 173, 73-84.	1.2	13
1559	Nanocomposites formed by in situ growth of NiDOBDC nanoparticles on graphene oxide sheets for enhanced CO2 and H2 storage. Microporous and Mesoporous Materials, 2018, 265, 35-42.	4.4	31

#	Article	IF	Citations
1560	Experimental investigation of the effects of different liquid environments on the graphene oxide produced by laser ablation method. Optics and Laser Technology, 2018, 103, 155-162.	4.6	21
1561	Graphene Size-Dependent Multifunctional Properties of Unidirectional Graphene Aerogel/Epoxy Nanocomposites. ACS Applied Materials & Interfaces, 2018, 10, 6580-6592.	8.0	71
1562	Facile synthesis of graphene via reduction of graphene oxide by artemisinin in ethanol. Journal of Materiomics, 2018, 4, 256-265.	5.7	63
1563	High capacitance and energy density supercapacitor based on biomass-derived activated carbons with reduced graphene oxide binder. Carbon, 2018, 132, 16-24.	10.3	138
1564	Simplified production of graphene oxide assisted by high shear exfoliation of graphite with controlled oxidation. New Journal of Chemistry, 2018, 42, 4507-4512.	2.8	14
1565	Graphene solution-gated field effect transistor DNA sensor fabricated by liquid exfoliation and double glutaraldehyde cross-linking. Carbon, 2018, 130, 758-767.	10.3	29
1566	Main structural features of graphene materials controlling the transport properties of epoxy resin-based composites. European Polymer Journal, 2018, 101, 56-65.	5.4	16
1567	Converting the Conducting Behavior of Graphene Oxides from n-Type to p-Type via Electron-Beam Irradiation. ACS Applied Materials & Interfaces, 2018, 10, 7324-7333.	8.0	18
1568	Low-temperature thermal reduction of graphene oxide: In situ correlative structural, thermal desorption, and electrical transport measurements. Applied Physics Letters, 2018, 112, .	3.3	42
1569	Construction of 3D Skeleton for Polymer Composites Achieving a High Thermal Conductivity. Small, 2018, 14, e1704044.	10.0	295
1570	Enhanced thermal conductivity in a hydrated salt PCM system with reduced graphene oxide aqueous dispersion. RSC Advances, 2018, 8, 1022-1029.	3.6	17
1571	Growthâ€Oriented Feâ€Based MOFs Synergized with Graphene Aerogels for Highâ€Performance Supercapacitors. Advanced Materials Interfaces, 2018, 5, 1701548.	3.7	77
1572	Green synthesis of water-soluble graphene nanosheets under solvent-free condition and in-situ anchored with MnO2 as supercapacitor. Journal of Materials Science: Materials in Electronics, 2018, 29, 6692-6701.	2.2	4
1573	Influence of Carbon Material Properties on Activity and Stability of the Negative Electrode in Vanadium Redox Flow Batteries: A Model Electrode Study. ACS Applied Energy Materials, 2018, 1, 1166-1174.	5.1	25
1574	Highly selective, rapid-functioning and sensitive fluorescent test paper based on graphene quantum dots for on-line detection of metal ions. Analytical Methods, 2018, 10, 1163-1171.	2.7	29
1575	Polydopamineâ€Grafted Graphene Oxide Composite Membranes with Adjustable Nanochannels and Separation Performance. Advanced Materials Interfaces, 2018, 5, 1701386.	3.7	21
1576	Oxygen functional groups improve the energy storage performances of graphene electrochemical supercapacitors. RSC Advances, 2018, 8, 2858-2865.	3.6	68
1577	Preparation of high-quality graphene using triggered microwave reduction under an air atmosphere. Journal of Materials Chemistry C, 2018, 6, 1829-1835.	5.5	36

#	Article	IF	Citations
1578	Probing the Mechanism for Bipolar Resistive Switching in Annealed Graphene Oxide Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 6521-6530.	8.0	23
1579	Raman spectroscopy of graphene-based materials and its applications in related devices. Chemical Society Reviews, 2018, 47, 1822-1873.	38.1	1,274
1580	Pliable Embedded-Type Paper Electrode of Hollow Metal Oxide@Porous Graphene with Abnormal but Superior Rate Capability for Lithium-Ion Storage. ACS Applied Energy Materials, 2018, 1, 48-55.	5.1	15
1581	Lightweight spongy bone-like graphene@SiC aerogel composites for high-performance microwave absorption. Chemical Engineering Journal, 2018, 337, 522-531.	12.7	225
1582	Nitrogen and carbon functionalized cobalt phosphide as efficient non-precious electrocatalysts for oxygen reduction reaction electrocatalysis in alkaline environment. Journal of Electroanalytical Chemistry, 2018, 809, 96-104.	3.8	43
1583	Phosphorus-Doped Graphitic Carbon Nitride Nanotubes with Amino-rich Surface for Efficient CO₂ Capture, Enhanced Photocatalytic Activity, and Product Selectivity. ACS Applied Materials & Interfaces, 2018, 10, 4001-4009.	8.0	311
1584	Redox Induced Fluorescence Onâ€“Off Switching Based on Nitrogen Enriched Graphene Quantum Dots for Formaldehyde Detection and Bioimaging. ACS Sustainable Chemistry and Engineering, 2018, 6, 1708-1716.	6.7	66
1585	Carbonâ€Encapsulated SnO₂ Coreâ€“Shell Nanowires Directly Grown on Reduced Graphene Oxide Sheets for Highâ€Performance Liâ€Ion Battery Electrodes. Energy Technology, 2018, 6, 1255-1260.	3.8	22
1586	ERGO grown on Ni-Cu foam frameworks by constant potential method as high performance electrodes for supercapacitors. Applied Surface Science, 2018, 436, 1050-1060.	6.1	17
1587	The Effect of Varying Ultrafast Pulse Laser Energies on the Electrical Properties of Reduced Graphene Oxide Sheets in Solution. Journal of Electronic Materials, 2018, 47, 1117-1124.	2.2	3
1588	Niâ€“Mn LDH-decorated 3D Fe-inserted and N-doped carbon framework composites for efficient uranium(<scp>vi</scp>) removal. Environmental Science: Nano, 2018, 5, 467-475.	4.3	77
1589	Synthesis, characterization and assessment of hydrophilic oxidized carbon nanodiscs in bio-related applications. RSC Advances, 2018, 8, 122-131.	3.6	5
1590	Study of the NO2 sensing mechanism of PEDOT-RGO film using in situ Raman Spectroscopy. Sensors and Actuators B: Chemical, 2018, 260, 1025-1033.	7.8	27
1591	EPR Study of Porous Si:C and SiO₂:C Layers. Physica Status Solidi (B): Basic Research, 2018, 255, 1700559.	1.5	5
1592	Effect of an anionic surfactant (SDS) on the photoluminescence of graphene oxide (GO) in acidic and alkaline medium. RSC Advances, 2018, 8, 584-595.	3.6	14
1593	Tribological investigation of Ni-graphene oxide composite coating produced by pulsed electrodeposition. Surfaces and Interfaces, 2018, 12, 61-70.	3.0	42
1594	Pore-Size-Tuned Graphene Oxide Frameworks as Ion-Selective and Protective Layers on Hydrocarbon Membranes for Vanadium Redox-Flow Batteries. Nano Letters, 2018, 18, 3962-3968.	9.1	93
1595	Efficient liquid-phase exfoliation of few-layer graphene in aqueous 1, 1, 3, 3-tetramethylurea solution. Journal of Colloid and Interface Science, 2018, 526, 167-173.	9.4	17

#	Article	IF	Citations
1596	Characterization of reduced graphene oxide obtained from vacuum-assisted low-temperature exfoliated graphite. Microsystem Technologies, 2018, 24, 5007-5016.	2.0	12
1597	Multifunctional green nanostructured composites: preparation and characterization. Materials Research Express, 2018, 5, 055010.	1.6	4
1598	Three dimensional reduced graphene oxide/ZIF-67 aerogel: Effective removal cationic and anionic dyes from water. Chemical Engineering Journal, 2018, 348, 202-211.	12.7	243
1599	2D/2D vanadyl phosphate (VP) on reduced graphene oxide as a hole transporting layer for efficient organic solar cells. Organic Electronics, 2018, 59, 92-98.	2.6	13
1600	Layer-by-Layer Assembled Bacterial Cellulose/Graphene Oxide Hydrogels with Extremely Enhanced Mechanical Properties. Nano-Micro Letters, 2018, 10, 42.	27.0	78
1601	XPS investigation of new solid forms of 5-fluorouracil with piperazine. Journal of Molecular Structure, 2018, 1165, 120-125.	3.6	34
1602	Highly sensitive and wearable gas sensors consisting of chemically functionalized graphene oxide assembled on cotton yarn. RSC Advances, 2018, 8, 11991-11996.	3.6	52
1603	Plastic Metal-Free Electric Motor by 3D Printing of Graphene-Polyamide Powder. ACS Applied Energy Materials, 2018, 1, 1726-1733.	5.1	49
1604	H₂V₃O₈ Nanowire/Graphene Electrodes for Aqueous Rechargeable Zinc Ion Batteries with High Rate Capability and Large Capacity. Advanced Energy Materials, 2018, 8, 1800144.	19.5	427
1605	Porous CoS nanosheets coated by N and S doped carbon shell on graphene foams for free-standing and flexible lithium ion battery anodes: Influence of void spaces, shell and porous nanosheet. Electrochimica Acta, 2018, 271, 242-251.	5.2	48
1606	Graphene Oxideâ€"TiO2 Nanocomposite Films for Electron Transport Applications. Journal of Electronic Materials, 2018, 47, 3749-3756.	2.2	12
1607	GO-guided direct growth of highly oriented metalâ€"organic framework nanosheet membranes for H₂/CO₂ separation. Chemical Science, 2018, 9, 4132-4141.	7.4	116
1608	Effective adsorption and collection of cesium from aqueous solution using graphene oxide grown on porous alumina. Japanese Journal of Applied Physics, 2018, 57, 04FP04.	1.5	3
1609	Role of chemical functional groups on thermal and electrical properties of various graphene oxide derivatives: a comparative x-ray photoelectron spectroscopy analysis. Materials Research Express, 2018, 5, 035604.	1.6	24
1610	A facile approach to fabricating ultrathin layers of reduced graphene oxide on planar solids. Carbon, 2018, 134, 62-70.	10.3	18
1611	Graphene Oxideâ€"A Tool for the Preparation of Chemically Crosslinking Free Alginateâ€"Chitosanâ€"Collagen Scaffolds for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2018, 10, 12441-12452.	8.0	152
1612	Electrostatic assembly of graphene oxide with Zinc-Glutamate metal-organic framework crystalline to synthesis nanoporous carbonÂwith enhanced capacitive performance. Electrochimica Acta, 2018, 270, 183-191.	5.2	9
1613	Online tracking of the thermal reduction of graphene oxide by two-dimensional correlation infrared spectroscopy. Vibrational Spectroscopy, 2018, 96, 32-45.	2.2	16

#	Article	IF	Citations
1614	Characterization and Control of Irreversible Reaction in Li-Rich Cathode during the Initial Charge Process. ACS Applied Materials & Interfaces, 2018, 10, 10804-10818.	8.0	45
1615	Inclusion of graphene oxide in cementitious composites: state-of-the-art review. Australian Journal of Civil Engineering, 2018, 16, 81-95.	1.6	22
1616	Graphene enhanced flexible expanded graphite film with high electric, thermal conductivities and EMI shielding at low content. Carbon, 2018, 133, 435-445.	10.3	104
1617	Boron-doped graphene as a metal-free catalyst for gas-phase oxidation of benzyl alcohol to benzaldehyde. RSC Advances, 2018, 8, 11222-11229.	3.6	21
1618	High degree reduction and restoration of graphene oxide on SiO₂at low temperature via remote Cu-assisted plasma treatment. Nanotechnology, 2018, 29, 245603.	2.6	7
1619	Extreme biomimetics: A carbonized 3D spongin scaffold as a novel support for nanostructured manganese oxide(IV) and its electrochemical applications. Nano Research, 2018, 11, 4199-4214.	10.4	51
1620	One-pot synthesis of TiO2/graphene nanocomposites for excellent visible light photocatalysis based on chemical exfoliation method. Carbon, 2018, 133, 109-117.	10.3	69
1621	Inhibiting pulmonary metastasis of breast cancer based on dual-targeting graphene oxide with high stability and drug loading capacity. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1237-1248.	3.3	25
1622	Recent advances in the synthesis and modification of carbon-based 2D materials for application in energy conversion and storage. Progress in Energy and Combustion Science, 2018, 67, 115-157.	31.2	271
1623	Electromagnetic interference shielding properties of woodâ€"plastic composites filled with graphene decorated carbon fiber. Polymer Composites, 2018, 39, 2110-2116.	4.6	23
1624	Preparation and properties of polyamide 6 nanocomposites covalently linked with amide functional graphene oxide. Journal of Thermoplastic Composite Materials, 2018, 31, 162-180.	4.2	14
1625	Effect of adding different amounts of graphite nanoplatelets on structural, thermal, mechanical and viscoelastic properties of vinylester based composites cured at 25Â°C. Polymer Composites, 2018, 39, E1381.	4.6	3
1626	A facile preparation of TiO2/ACF with C Ti bond and abundant hydroxyls and its enhanced photocatalytic activity for formaldehyde removal. Applied Surface Science, 2018, 427, 608-616.	6.1	65
1627	Comprehensive electrochemical study on corrosion performance of graphene coatings deposited by chemical vapour deposition at atmospheric pressure on platinum-coated molybdenum foil. Corrosion Science, 2018, 130, 31-44.	6.6	22
1628	Mechanical activation in reduced graphite oxide/boron nitride nanocomposite electrocatalysts for significant improvement in dioxygen reduction. Sustainable Energy and Fuels, 2018, 2, 252-261.	4.9	16
1629	Polymer/graphene oxide (GO) thermoset composites with GO as a crosslinker. Korean Journal of Chemical Engineering, 2018, 35, 303-317.	2.7	19
1630	Hydrogen bonding-mediated dehydrogenation in the ammonia borane combined graphene oxide systems. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 75-81.	2.7	8
1631	Metal organic framework-derived CoZn alloy/N-doped porous carbon nanocomposites: tunable surface area and electromagnetic wave absorption properties. Journal of Materials Chemistry C, 2018, 6, 10-18.	5.5	195

#	Article	IF	Citations
1632	A phosphorylethanolamine-functionalized super-hydrophilic 3D graphene-based foam filter for water purification. Journal of Hazardous Materials, 2018, 343, 298-303.	12.4	31
1633	Superior electromagnetic interference shielding effectiveness and electro-mechanical properties of EMA-IRGO nanocomposites through the in-situ reduction of GO from melt blended EMA-GO composites. Composites Part B: Engineering, 2018, 134, 46-60.	12.0	86
1634	An effective graphene confined strategy to construct active edge sites-enriched nanosheets with enhanced oxygen evolution. Carbon, 2018, 126, 437-442.	10.3	37
1635	Enhanced thermal conductivity of graphene/polyimide hybrid film via a novel â€œmolecular weldingâ€• strategy. Carbon, 2018, 126, 319-327.	10.3	92
1636	Synthesis and characterization of poly (dihydroxybiphenyl borate) with high char yield for high-performance thermosetting resins. Applied Surface Science, 2018, 428, 912-923.	6.1	17
1637	Graphene oxide covalently functionalized with an organic superbase as highly efficient and durable nanocatalyst for green Michael addition reaction. Research on Chemical Intermediates, 2018, 44, 305-323.	2.7	13
1638	A miniaturized and flexible cadmium and lead ion detection sensor based on micro-patterned reduced graphene oxide/carbon nanotube/bismuth composite electrodes. Sensors and Actuators B: Chemical, 2018, 255, 1220-1227.	7.8	110
1639	Hierarchical oxygen-implanted MoS2 nanoparticle decorated graphene for the non-enzymatic electrochemical sensing of hydrogen peroxide in alkaline media. Talanta, 2018, 176, 397-405.	5.5	64
1640	Predispersed Carbocatalyst: Vertically Aligned Nitrogenâ€Doped Graphene Rooted on SiC Microspheres for Selective Oxidation. ChemCatChem, 2018, 10, 825-830.	3.7	5
1641	Multi-layered carbon coated Si-based composite as anode for lithium-ion batteries. Powder Technology, 2018, 323, 294-300.	4.2	97
1642	Ultrathin graphene oxide encapsulated in uniform MIL-88A(Fe) for enhanced visible light-driven photodegradation of RhB. Applied Catalysis B: Environmental, 2018, 221, 119-128.	20.2	366
1643	A Singleâ€Step Hydrothermal Route to 3D Hierarchical Cu₂O/CuO/rGO Nanosheets as Highâ€Performance Anode of Lithiumâ€Ion Batteries. Small, 2018, 14, 1702667.	10.0	84
1644	Complementary surface modification by disordered carbon and reduced graphene oxide on SnO2 hollow spheres as an anode for Li-ion battery. Carbon, 2018, 129, 342-348.	10.3	41
1645	Nitrogen-doped graphene: Synthesis, characterizations and energy applications. Journal of Energy Chemistry, 2018, 27, 146-160.	12.9	254
1646	Conductive Tough Hydrogel for Bioapplications. Macromolecular Bioscience, 2018, 18, 1700270.	4.1	52
1647	Investigation on dispersion of graphene oxide in cement composite using different surfactant treatments. Construction and Building Materials, 2018, 161, 519-527.	7.2	167
1648	CoBP nanoparticles supported on three-dimensional nitrogen-doped graphene hydrogel and their superior catalysis for hydrogen generation from hydrolysis of ammonia borane. Journal of Alloys and Compounds, 2018, 735, 1271-1276.	5.5	41
1649	Exploiting Anti-T-shaped Graphene Architecture to Form Low Tortuosity, Sieve-like Interfaces for High-Performance Anodes for Li-Based Cells. ACS Central Science, 2018, 4, 81-88.	11.3	35

#	Article	IF	Citations
1650	Exploring the low friction of diamond-like carbon films in carbon dioxide atmosphere by experiments and first-principles calculations. Applied Surface Science, 2018, 436, 893-899.	6.1	31
1651	Reduction of Graphene Oxide Thin Films by Cobaltocene and Decamethylcobaltocene. ACS Applied Materials & Interfaces, 2018, 10, 2004-2015.	8.0	22
1652	Expanded biomass-derived hard carbon with ultra-stable performance in sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 1513-1522.	10.3	198
1653	Light driven fabrication of highly dispersed Mn-Co/RGO and the synergistic effect in catalytic degradation of methylene blue. Materials and Design, 2018, 140, 286-294.	7.0	21
1654	An in vitro cytotoxicity assessment of graphene nanosheets on alveolar cells. Applied Surface Science, 2018, 434, 1274-1284.	6.1	21
1655	VS₄ Nanoparticles Anchored on Graphene Sheets as a Highâ€Rate and Stable Electrode Material for Sodium Ion Batteries. ChemSusChem, 2018, 11, 735-742.	6.8	93
1656	Reductive nanometric patterning of graphene oxide paper using electron beam lithography. Carbon, 2018, 129, 63-75.	10.3	17
1657	Supercapacitor application of nickel phthalocyanine nanofibres and its composite with reduced graphene oxide. Applied Surface Science, 2018, 449, 528-536.	6.1	47
1658	Implication of Size-Controlled Graphite Nanosheets as Building Blocks for Thermal Conductive Three-Dimensional Framework Architecture of Nanocarbons. Nanoscale and Microscale Thermophysical Engineering, 2018, 22, 39-51.	2.6	0
1659	Preparation mechanism of hierarchical layered structure of graphene/copper composite with ultrahigh tensile strength. Carbon, 2018, 127, 329-339.	10.3	81
1660	A review on manifold synthetic and reprocessing methods of 3D porous graphene-based architecture for Li-ion anode. Chemical Engineering Journal, 2018, 335, 954-969.	12.7	52
1661	High-quality graphene sheets decorated with ZIF-8 nanocrystals. Microporous and Mesoporous Materials, 2018, 262, 68-76.	4.4	12
1662	Green Strategy to Reduced Nanographene Oxide through Microwave Assisted Transformation of Cellulose. ACS Sustainable Chemistry and Engineering, 2018, 6, 1246-1255.	6.7	31
1663	One step conversion of waste polyethylene to Cr₃C₂ nanorods and Cr₂AlC particles under mild conditions. Inorganic Chemistry Frontiers, 2018, 5, 2893-2897.	6.0	16
1664	The facile synthesis and enhanced lithiumâ€"sulfur battery performance of an amorphous cobalt boride (Co₂B)@graphene composite cathode. Journal of Materials Chemistry A, 2018, 6, 24045-24049.	10.3	55
1665	Physicochemical characterisation of reduced graphene oxide for conductive thin films. RSC Advances, 2018, 8, 37540-37549.	3.6	14
1666	A high-rate aqueous rechargeable zinc ion battery based on the VS₄@rGO nanocomposite. Journal of Materials Chemistry A, 2018, 6, 23757-23765.	10.3	196
1668	Antifouling behavior of self-renewal acrylate boron polymers with pyridine-diphenylborane side chains. New Journal of Chemistry, 2018, 42, 19908-19916.	2.8	15

#	Article	IF	Citations
1669	An ultrasensitive fluorescent aptasensor for detection of cancer marker proteins based on graphene oxideâ€“ssDNA. RSC Advances, 2018, 8, 41143-41149.	3.6	13
1670	Simple air calcination affords commercial carbon cloth with high areal specific capacitance for symmetrical supercapacitors. Journal of Materials Chemistry A, 2018, 6, 21078-21086.	10.3	74
1671	Graphene-Semiconductor Composites as Visible Light-Induced Photocatalyst. , 2018, , .		2
1672	Treatment of graphene films in the early and late afterglows of N₂ plasmas: comparison of the defect generation and N-incorporation dynamics. Plasma Sources Science and Technology, 2018, 27, 124004.	3.1	11
1673	Ternary nanocomposites of reduced graphene oxide, polyaniline and hexaniobate: hierarchical architecture and high polaron formation. Beilstein Journal of Nanotechnology, 2018, 9, 2936-2946.	2.8	7
1674	Investigation of surface potentials in reduced graphene oxide flake by Kelvin probe force microscopy. Japanese Journal of Applied Physics, 2018, 57, 06HD02.	1.5	3
1675	Honeycomb-like Hard Carbon Derived from Pine Pollen as High-Performance Anode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 42796-42803.	8.0	129
1676	Facile In-situ Reduction Method for Preparation of GO-Pd Catalysts. International Journal of Electrochemical Science, 2018, , 3171-3184.	1.3	4
1677	Correlation between defect density in mechanically milled graphite and total oxygen content of graphene oxide produced from oxidizing the milled graphite. Scientific Reports, 2018, 8, 15773.	3.3	13
1678	Non-thermal and low-destructive X-ray induced graphene oxide reduction. Journal of Applied Physics, 2018, 124, .	2.5	4
1679	Poly (3,4-Ethylenedioxythiophene) (PEDOT) Nanofibers Decorated Graphene Oxide (GO) as High-Capacity, Long Cycle Anodes for Sodium Ion Batteries. Materials, 2018, 11, 2032.	2.9	5
1680	Tribological Behavior of Solid-State Processed Al-1100/GNP Surface Nanocomposites. Journal of Materials Engineering and Performance, 2018, 27, 6529-6544.	2.5	25
1682	Measurement and analysis of K-shell lines of silicon ions in laser plasmas. High Power Laser Science and Engineering, 2018, 6, .	4.6	4
1683	Carbon Nanostructures as a Multi-Functional Platform for Sensing Applications. Chemosensors, 2018, 6, 60.	3.6	28
1684	Reduced Graphene Oxideâ€“TiO₂ Nanotube Composite: Comprehensive Study for Gas-Sensing Applications. ACS Applied Nano Materials, 2018, 1, 7098-7105.	5.0	51
1685	Physical investigations on the radiation damage of graphene oxide by IR pulsed laser. EPJ Web of Conferences, 2018, 167, 05011.	0.3	7
1686	Facile fabrication of crumpled graphene oxide nanosheets and its Platinum nanohybrids for high efficient catalytic activity. Environmental Pollution, 2018, 243, 1810-1817.	7.5	15
1687	SO₂ gas adsorption on carbon nanomaterials: a comparative study. Beilstein Journal of Nanotechnology, 2018, 9, 1782-1792.	2.8	17

#	Article	IF	Citations
1688	MoS₂ Quantum Dot/Graphene Hybrids for Advanced Interface Engineering of a CH₃NH₃PbI₃ Perovskite Solar Cell with an Efficiency of over 20%. ACS Nano, 2018, 12, 10736-10754.	14.6	201
1689	Chemistry of black leaf films synthesised using rail steels and their influence on the low friction mechanism. RSC Advances, 2018, 8, 32506-32521.	3.6	14
1690	High density H2 and He plasmas: Can they be used to treat graphene?. Journal of Applied Physics, 2018, 124, .	2.5	10
1691	Insight into the Impact of Conducting Polyaniline/Graphene Nanosheets on Corrosion Mechanism of Zinc-Rich Epoxy Primers on Low Alloy DH32 Steel in Artificial Sea Water. Journal of the Electrochemical Society, 2018, 165, C878-C889.	2.9	23
1692	Thermal reduction of graphene oxide: How temperature influences purity. Journal of Materials Research, 2018, 33, 4113-4122.	2.6	185
1693	Synchronous phase transition and carbon coating on the surface of Li-rich layered oxide cathode materials for rechargeable Li-ion batteries. Journal of Power Sources, 2018, 408, 105-110.	7.8	18
1694	Graphene Applications in Advanced Thermal Management. , 2018, , 823-865.		0
1695	Effect of Interface Structure on the Mechanical Properties of Graphene Nanosheets Reinforced Copper Matrix Composites. ACS Applied Materials & Interfaces, 2018, 10, 37586-37601.	8.0	99
1696	Introductory Chapter: Graphene Oxide: Applications and Opportunities. , 0, , .		3
1697	Transformation of Freon to 3D graphene frameworks for high-rate supercapacitors with high capacity retention. Journal of Power Sources, 2018, 405, 1-6.	7.8	15
1698	Near-infrared light triggered shape memory and self-healable polyurethane/functionalized graphene oxide composites containing diselenide bonds. Polymer, 2018, 158, 120-129.	3.8	51
1699	Synthesis of popcorn-like Î±-Fe2O3/3D graphene sponge composites for excellent microwave absorption properties by a facile method. Journal of Materials Science: Materials in Electronics, 2018, 29, 19443-19453.	2.2	19
1700	Development of graphene capped siliconâ€"silicon oxide coreâ€"shell nano-structure: Charge trapping characteristics at the interfaces. Applied Materials Today, 2018, 13, 370-380.	4.3	9
1701	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. ACS Nano, 2018, 12, 10582-10620.	14.6	438
1702	In-situ soft X-ray effects on graphene oxide films. Radiation Effects and Defects in Solids, 2018, 173, 740-750.	1.2	10
1703	Hierarchical Micro-/Mesoporous Carbon Derived from Rice Husk by Hydrothermal Pre-Treatment for High Performance Supercapacitor. Journal of the Electrochemical Society, 2018, 165, A3334-A3341.	2.9	46
1704	Polyethylene Terephthalate/Trimellitic Anhydride Modified Graphene Nanocomposites. ACS Applied Nano Materials, 2018, 1, 6301-6311.	5.0	21
1705	Divergent mechanisms for thermal reduction of graphene oxide and their highly different ion affinities. Diamond and Related Materials, 2018, 89, 246-256.	3.9	52

#	Article	IF	Citations
1706	Iodine-steam doped graphene films for high-performance electrochemical capacitive energy storage. Journal of Power Sources, 2018, 400, 605-612.	7.8	25
1707	Understanding of the Graphene Oxide/Metal-Organic Framework Interface at the Atomistic Scale. ACS Applied Materials & Interfaces, 2018, 10, 33619-33629.	8.0	40
1708	Nano-flocks of a bimetallic organic framework for efficient hydrogen evolution electrocatalysis. Chemical Communications, 2018, 54, 11048-11051.	4.1	31
1709	Fabrication of highly conductive graphene particleâ€coated fiber yarns using polymeric binders through efficient coating techniques. Advances in Polymer Technology, 2018, 37, 3438-3447.	1.7	11
1710	Evolution of oxygen functionalities in graphene oxide and its impact on structure and exfoliation: An oxidation time based study. Materials Chemistry and Physics, 2018, 220, 417-425.	4.0	16
1711	Multiband light emission and nanoscale chemical analyses of carbonized fumed silica. Journal of Applied Physics, 2018, 124, .	2.5	6
1712	Construction of NiCo₂O₄@graphene nanorods by tuning the compositional chemistry of metalâ€"organic frameworks with enhanced lithium storage properties. Journal of Materials Chemistry A, 2018, 6, 19604-19610.	10.3	38
1713	Electrostatic force spectroscopy revealing the degree of reduction of individual graphene oxide sheets. Beilstein Journal of Nanotechnology, 2018, 9, 1146-1155.	2.8	17
1714	Characterization of Carbon Felt Electrodes for Vanadium Redox Flow Batteries: Impact of Treatment Methods. Journal of the Electrochemical Society, 2018, 165, A2577-A2586.	2.9	82
1715	Superhydrophobic, mechanically flexible and recyclable reduced graphene oxide wrapped sponge for highly efficient oil/water separation. Frontiers of Chemical Science and Engineering, 2018, 12, 390-399.	4.4	23
1716	Transparent and Hydrophobic â€œReduced Graphene Oxideâ€"Titanium Dioxideâ€•Nanocomposites for Nonwetting Device Applications. ACS Applied Nano Materials, 2018, 1, 5691-5701.	5.0	19
1717	Composition, Structure and Morphology Evolution of Octadecylamine (ODA)â€"Reduced Graphene Oxide and Its Dispersion Stability under Different Reaction Conditions. Materials, 2018, 11, 1710.	2.9	16
1718	Facilitated water-selective permeation via PEGylation of graphene oxide membrane. Journal of Membrane Science, 2018, 567, 311-320.	8.2	49
1719	Spatially resolved solid-state reduction of graphene oxide thin films. Materials Horizons, 2018, 5, 1176-1184.	12.2	15
1720	Simple approach to synthesize CNTs uniformly coated Bi2Te3 nanocomposites by mechanical alloying. Applied Nanoscience (Switzerland), 2018, 8, 1887-1893.	3.1	2
1721	Frozen Spray-Coating Prepared Graphene Aerogel with Enhanced Mechanical, Electrochemical, and Electromagnetic Performance for Energy Storage. ACS Applied Nano Materials, 2018, 1, 4910-4917.	5.0	10
1722	Quantifying Graphene Oxide Reduction Using Spectroscopic Techniques: A Chemometric Analysis. Applied Spectroscopy, 2018, 72, 1764-1773.	2.2	9
1723	Manganese Oxide/Hemin-Functionalized Graphene as a Platform for Peroxynitrite Sensing. Journal of the Electrochemical Society, 2018, 165, G3133-G3140.	2.9	18

#	Article	IF	Citations
1724	Pop-Up Conducting Large-Area Biographene Kirigami. ACS Nano, 2018, 12, 9714-9720.	14.6	27
1725	Si@C Microsphere Composite with Multiple Buffer Structures for Highâ€Performance Lithiumâ€Ion Battery Anodes. Chemistry - A European Journal, 2018, 24, 12912-12919.	3.3	28
1726	Enhanced Electromagnetic Wave Absorption Performance of Co0.5Zn0.5 ZIF-Derived Binary Co/ZnO and RGO Composites. Journal of Electronic Materials, 2018, 47, 4910-4918.	2.2	10
1727	Simultaneously â€˜pushingâ€™ and â€˜pullingâ€™ graphene oxide into low-polar solvents through a designed interface. Nanotechnology, 2018, 29, 315707.	2.6	6
1728	Solvent resistant nanofiltration membranes using EDA-XDA co-crosslinked poly(ether imide). Separation and Purification Technology, 2018, 206, 247-255.	7.9	23
1729	Three-dimensional nitrogen-doped graphene hydrogel supported Co-CeOx nanoclusters as efficient catalysts for hydrogen generation from hydrolysis of ammonia borane. Chinese Chemical Letters, 2018, 29, 1671-1674.	9.0	41
1730	Precisely Geometry Controlled Microsupercapacitors for Ultrahigh Areal Capacitance, Volumetric Capacitance, and Energy Density. Chemistry of Materials, 2018, 30, 3979-3990.	6.7	52
1731	Free-standing, layered graphene monoliths for long-life supercapacitor. Chemical Engineering Journal, 2018, 350, 386-394.	12.7	67
1732	All-carbon hybrids for high performance supercapacitors. International Journal of Energy Research, 2018, 42, 3575-3587.	4.5	43
1733	Graphite Oxide-TiO2 Nanocomposite Type Photocatalyst for Methanol Photocatalytic Reforming Reaction. Topics in Catalysis, 2018, 61, 1323-1334.	2.8	11
1734	The pH dependent reactions of graphene oxide with small molecule thiols. RSC Advances, 2018, 8, 18388-18395.	3.6	9
1735	Superlight Adsorbent Sponges Based on Graphene Oxide Cross-Linked with Poly(vinyl alcohol) for Continuous Flow Adsorption. ACS Applied Materials & Interfaces, 2018, 10, 21672-21680.	8.0	34
1736	Single step synthesis of Schottky-like hybrid graphene - titania interfaces for efficient photocatalysis. Scientific Reports, 2018, 8, 8154.	3.3	14
1737	Highly Active and Durable Coreâ€"Shell fct-PdFe@Pd Nanoparticles Encapsulated NG as an Efficient Catalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2018, 10, 18734-18745.	8.0	58
1738	Facile laser fabrication of high quality graphene-based microsupercapacitors with large capacitance. Carbon, 2018, 137, 136-145.	10.3	29
1739	Upconversion Luminescence of Graphene Oxide through Hybrid Waveguide. Journal of Physical Chemistry C, 2018, 122, 16866-16871.	3.1	4
1740	A tri-layer thin film containing graphene oxide to protect zinc substrates from wear. Materials Research Express, 2018, 5, 066401.	1.6	3
1741	Thermally Induced Superlow Friction of DLC Films in Ambient Air. High Temperature Materials and Processes, 2018, 37, 725-731.	1.4	11

#	Article	IF	Citations
1742	Bi-containing reduced graphene oxide for CdTe solar cells. Solar Energy, 2018, 170, 820-827.	6.1	12
1743	High-performance organic solar cells utilizing graphene oxide in the active and hole transport layers. Solar Energy, 2018, 171, 83-91.	6.1	42
1744	An asymmetric graphene oxide film for developing moisture actuators. Nanoscale, 2018, 10, 14060-14066.	5.6	40
1745	One-step mild synthesis of Mn-based spinel MnIICrIII2O4/MnIIMnIII2O4/C and Co-based spinel CoCr2O4/C nanoparticles as battery-type electrodes for high-performance supercapacitor application. Electrochimica Acta, 2018, 283, 197-211.	5.2	29
1746	Aggregation Behavior of Multiwalled Carbon Nanotube-Titanium Dioxide Nanohybrids: Probing the Part-Whole Question. Environmental Science & Technology, 2018, 52, 8233-8241.	10.0	18
1747	Nanoscale infrared identification and mapping of chemical functional groups on graphene. Carbon, 2018, 139, 317-324.	10.3	39
1748	Actuation behavior of PDMS dielectric elastomer composites containing optimized graphene oxide. Smart Materials and Structures, 2018, 27, 085021.	3.5	62
1749	Gold nanoparticles decorated graphene oxide/nanocellulose paper for NIR laser-induced photothermal ablation of pathogenic bacteria. Carbohydrate Polymers, 2018, 198, 206-214.	10.2	56
1750	Study on effect of cross-linked structures induced by oxidative treatment of aromatic hydrocarbon oil on subsequent carbonized behaviors. Fuel, 2018, 231, 495-506.	6.4	38
1751	Bacterial inactivation and in situ monitoring of biofilm development on graphene oxide membrane using optical coherence tomography. Journal of Membrane Science, 2018, 564, 22-34.	8.2	36
1753	Shungite Carbon as Unexpected Natural Source of Few-Layer Graphene Platelets in a Low Oxidation State. Inorganic Chemistry, 2018, 57, 8487-8498.	4.0	10
1754	Tunable Electrochemical Approach for Reduction of Graphene Oxide: Taguchi-Assisted Chemical and Structural Optimization. Journal of the Electrochemical Society, 2018, 165, E429-E438.	2.9	8
1755	A blueprint for the synthesis and characterisation of thin graphene oxide with controlled lateral dimensions for biomedicine. 2D Materials, 2018, 5, 035020.	4.4	73
1756	Properties of a granulated nitrogen-doped graphene oxide aerogel. Journal of Non-Crystalline Solids, 2018, 498, 236-243.	3.1	13
1757	Facile synthesis of nano dendrite-structured Niâ€“NiO foam/ERGO by constant current method for supercapacitor applications. Journal of Applied Electrochemistry, 2018, 48, 923-935.	2.9	12
1758	Al2O3/reduced graphene oxide double-layer radiative coating for efficient heat dissipation. Materials and Design, 2018, 157, 130-140.	7.0	28
1759	Effects of Different Oxidation Degrees of Graphene Oxide on P-Type and N-Type Si Heterojunction Photodetectors. Nanomaterials, 2018, 8, 491.	4.1	9
1760	Fabrication of free-standing graphene oxide films using a facile approach toluene swollen paraffin peeling and green reduction of these films into highly conductive reduced graphene oxide films. Chemical Engineering Journal, 2018, 354, 149-161.	12.7	13

#	Article	IF	Citations
1761	DUV fluorescence bioimaging study of the interaction of partially reduced graphene oxide and liver cancer cells. 2D Materials, 2018, 5, 045019.	4.4	3
1762	Parallel profiling of cancer cells and proteins using a graphene oxide functionalized ac-EHD SERS immunoassay. Nanoscale, 2018, 10, 18482-18491.	5.6	29
1763	Enhanced photocatalytic dye degradation and hydrogen production ability of Bi25FeO40-rGO nanocomposite and mechanism insight. Scientific Reports, 2018, 8, 11090.	3.3	84
1764	Graphene-reinforced silicon oxycarbide composites prepared by phase transfer. Carbon, 2018, 139, 813-823.	10.3	16
1765	In situ topographical chemical and electrical imaging of carboxyl graphene oxide at the nanoscale. Nature Communications, 2018, 9, 2891.	12.8	68
1766	The Preparation of Graphene Oxide-Silver Nanocomposites: The Effect of Silver Loads on Gram-Positive and Gram-Negative Antibacterial Activities. Nanomaterials, 2018, 8, 163.	4.1	63
1767	Study of the Effect of Curing Residual Stress on the Bonding Strength of the Single Lap Joint Using a High-Temperature Phosphate Adhesive. Materials, 2018, 11, 1198.	2.9	12
1768	High-Surface-Area Mesoporous Activated Carbon from Hemp Bast Fiber Using Hydrothermal Processing. Journal of Carbon Research, 2018, 4, 38.	2.7	14
1769	Tailored Network Formation in Graphene Oxide Gels. Langmuir, 2018, 34, 8550-8559.	3.5	12
1770	Aerosol Synthesis of N and N-S Doped and Crumpled Graphene Nanostructures. Nanomaterials, 2018, 8, 406.	4.1	9
1771	Enhanced Oxidation Resistance of Polyphenylene Sulfide Composites Based on Montmorillonite Modified by Benzimidazolium Salt. Polymers, 2018, 10, 83.	4.5	43
1772	Revealing the Role of Oxygen Debris and Functional Groups on the Water Flux and Molecular Separation of Graphene Oxide Membrane: A Combined Experimental and Theoretical Study. Journal of Physical Chemistry C, 2018, 122, 17507-17517.	3.1	32
1773	Synthesis, Characterization, and Electromagnetic Wave Absorption Properties of Composites of Reduced Graphene Oxide with Porous LiFe₅O₈ Microspheres. ACS Sustainable Chemistry and Engineering, 2018, 6, 10011-10020.	6.7	97
1774	Excellent Tribological Properties of Lower Reduced Graphene Oxide Content Copper Composite by Using a One-Step Reduction Molecular-Level Mixing Process. Materials, 2018, 11, 600.	2.9	29
1775	A Simple and Rapid Electrochemical Determination of L-Tryptophan Based on Functionalized Carbon Black/Poly-L-Histidine Nanocomposite. Journal of the Electrochemical Society, 2018, 165, B422-B430.	2.9	28
1776	Invariance of Water Permeance through Size-Differentiated Graphene Oxide Laminates. ACS Nano, 2018, 12, 7855-7865.	14.6	71
1777	RGO-functionalized polymer nanofibrous membrane with exceptional surface activity and ultra-low airflow resistance for PM_{2.5} filtration. Environmental Science: Nano, 2018, 5, 1813-1820.	4.3	47
1778	Self-Powered Plasmonic UV Detector, Based on Reduced Graphene Oxide/Ag Nanoparticles. IEEE Electron Device Letters, 2018, 39, 1433-1436.	3.9	10

#	Article	IF	Citations
1779	Self-Assembled Close-Packed MnO₂ Nanoparticles Anchored on a Polyethylene Separator for Lithiumâ€"Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 26274-26282.	8.0	88
1780	Mode-Selective Raman Imaging of Dopamineâ€"Human Dopamine Transporter Interaction in Live Cells. ACS Chemical Neuroscience, 2018, 9, 3117-3127.	3.5	8
1781	Hierarchically Assembled Twoâ€dimensional Hybrid Nanointerfaces: A Platform for Bioelectronic Applications. Electroanalysis, 2018, 30, 2339-2348.	2.9	13
1782	Structural, optical, and photocatalytic investigation of nickel oxide@graphene oxide nanocomposite thin films by RF magnetron sputtering. Journal of Materials Science, 2018, 53, 15034-15050.	3.7	25
1783	A microfluidic chip containing a molecularly imprinted polymer and a DNA aptamer for voltammetric determination of carbofuran. Mikrochimica Acta, 2018, 185, 295.	5.0	36
1784	Self-assembled complexes of graphene oxide and oxidized vapor-grown carbon fibers for simultaneously enhancing the strength and toughness of epoxy and multi-scale carbon fiber/epoxy composites. Carbon, 2018, 137, 6-18.	10.3	40
1785	Low-Temperature Reduction of Graphene Oxide: Electrical Conductance and Scanning Kelvin Probe Force Microscopy. Nanoscale Research Letters, 2018, 13, 139.	5.7	63
1786	Urethane-Functionalized Graphene Oxide for Improving Compatibility and Thermal Conductivity of Waterborne Polyurethane Composites. Industrial & Engineering Chemistry Research, 2018, 57, 7146-7155.	3.7	43
1787	Preparation of a Highly Porous Carbon Material Based on Quinoa Husk and Its Application for Removal of Dyes by Adsorption. Materials, 2018, 11, 1407.	2.9	25
1788	Low-operating temperature NO2 gas sensors based on hybrid two-dimensional SnS2-reduced graphene oxide. Applied Surface Science, 2018, 462, 330-336.	6.1	89
1789	Tuning of magnetic behaviour in nitrogenated graphene oxide functionalized with iron oxide. Diamond and Related Materials, 2018, 89, 35-42.	3.9	19
1790	Wet-Spun Graphene Sheets as Flexible Heat Spreaders for Efficient Thermal Management. , 2018, , .		0
1791	Graphene-Loaded Bi₂Se₃: A Conversionâ€"Alloying-type Anode Material for Ultrafast Gravimetric and Volumetric Na Storage. ACS Applied Materials & Interfaces, 2018, 10, 30379-30387.	8.0	83
1792	Inâ€Situ â€œmolecular weldingâ€•preparation of graphene/polyimide hybrid film with superior thermal conductivity and flexibility. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1215-1223.	2.1	7
1793	Understanding the underlying mechanism of improved selectivity in pd1 single-atom catalyzed hydrogenation reaction. Journal of Catalysis, 2018, 366, 70-79.	6.2	70
1794	Oxygen management in carbon electrode for high-performance printable perovskite solar cells. Nano Energy, 2018, 53, 160-167.	16.0	83
1795	Effect of high-voltage discharge non-thermal plasma on g-C3N4 in a plasma-photocatalyst system. Chinese Journal of Catalysis, 2018, 39, 1672-1682.	14.0	16
1796	Corrosion study of silane-functionalized graphene oxide coatings on copper. Thin Solid Films, 2018, 663, 93-99.	1.8	28

#	Article	IF	Citations
1797	High strength and ductility of graphene-like carbon nanosheet/copper composites fabricated directly from commercial oleic acid coated copper powders. Nanoscale, 2018, 10, 16990-16995.	5.6	35
1798	Enhanced Photocatalytic Performance of Al-Doped ZnO NPs-Reduced Graphene Oxide Nanocomposite for Removing of Methyl Orange Dye from Water Under Visible-Light Irradiation. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2677-2688.	3.7	17
1799	Nanosizedâ€Zincâ€Mediated Selfâ€Gelation of Graphene Oxide under Ambient Conditions. ChemPlusChem, 2018, 83, 947-955.	2.8	1
1800	Electro-Plasmonic Gas Sensing Based on Reduced Graphene Oxide/Ag Nanoparticle Heterostructure. IEEE Sensors Journal, 2018, 18, 5770-5777.	4.7	6
1801	Synthesis, characterization of reduced graphene oxide nanosheets and its reinforcement effect on polymer electrolyte for dye sensitized solar cell applications. Solar Energy, 2018, 170, 442-453.	6.1	30
1802	Visualizing the toughening origins of gel-grown calcite single-crystal composites. Chinese Chemical Letters, 2018, 29, 1666-1670.	9.0	12
1803	Synthesis and characterization of polyurethane/reduced graphene oxide composite deposited on steel. Journal of Coatings Technology Research, 2018, 15, 1371-1377.	2.5	8
1804	A â€œTandemâ€•Strategy to Fabricate Flexible Graphene/Polypyrrole Nanofiber Film Using the Surfactant-Exfoliated Graphene for Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 22031-22041.	8.0	40
1806	Contact Angle Analysis for the Prediction of Defect States of Graphene Grafted with Functional Groups. Advanced Materials Interfaces, 2018, 5, 1800166.	3.7	6
1807	Towards enhanced energy density of graphene-based supercapacitors: Current status, approaches, and future directions. Journal of Power Sources, 2018, 396, 182-206.	7.8	111
1808	Multi-layered graphenic structures as the effect of chemical modification of thermally treated anthracite. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 405-416.	2.1	7
1809	High-performance supercapacitor based on three-dimensional flower-shaped Li4Ti5O12-graphene hybrid and pine needles derived honeycomb carbon. Journal of Colloid and Interface Science, 2018, 529, 171-179.	9.4	36
1810	Coupled Chiral Structure in Graphene-Based Film for Ultrahigh Thermal Conductivity in Both In-Plane and Through-Plane Directions. ACS Applied Materials & Interfaces, 2018, 10, 22611-22622.	8.0	56
1811	Hierarchical FeS/RGO/FeS@Fe foil as high-performance negative electrode for asymmetric supercapacitors. Inorganic Chemistry Frontiers, 2018, 5, 1912-1922.	6.0	36
1812	Open porous graphene nanoribbon hydrogel via additive-free interfacial self-assembly: Fast mass transport electrodes for high-performance biosensing and energy storage. Energy Storage Materials, 2019, 16, 251-258.	18.0	27
1813	Assembly of carbon nanodots in graphene-based composite for flexible electro-thermal heater with ultrahigh efficiency. Nano Research, 2019, 12, 2498-2508.	10.4	42
1814	Assembly of MnO/CNC/rGO fibers from colloidal liquid crystal for flexible supercapacitors via a continuous one-process method. Nanotechnology, 2019, 30, 465702.	2.6	24
1815	Synthesis of Graphene-based Materials for Surface-Enhanced Raman Scattering Applications. E-Journal of Surface Science and Nanotechnology, 2019, 17, 71-82.	0.4	2

#	Article	IF	Citations
1816	The disordering-enhanced performances of the Al-MOF/graphene composite anodes for lithium ion batteries. Nano Energy, 2019, 65, 104032.	16.0	90
1817	Microstructural Influence on Electrochemical Properties of LiFePO4/C/Reduced Graphene Oxide Composite Cathode. Russian Journal of Electrochemistry, 2019, 55, 517-523.	0.9	4
1818	Effect of oxidation degrees of graphene oxide (GO) on the structure and physical properties of chitosan/GO composite films. Food Packaging and Shelf Life, 2019, 21, 100373.	7.5	43
1819	Raman spectroscopy coupled with AFM scan head: A versatile combination for tailoring graphene oxide/reduced graphene oxide hybrid materials. Applied Surface Science, 2019, 495, 143539.	6.1	28
1820	Transition state and product diffusion control by polymerâ€“nanocrystal hybrid catalysts. Nature Catalysis, 2019, 2, 852-863.	34.4	64
1821	Ultraâ€High Surface Area Nitrogenâ€Doped Carbon Aerogels Derived From a Schiffâ€Base Porous Organic Polymer Aerogel for CO₂ Storage and Supercapacitors. Advanced Functional Materials, 2019, 29, 1904785.	14.9	126
1822	Phase-modulated 3D-hierarchical 1T/2H WSe₂ nanoscrews by a plasma-assisted selenization process as high performance NO gas sensors with a ppb-level detection limit. Journal of Materials Chemistry A, 2019, 7, 22314-22322.	10.3	42
1823	Design and application of nanoporous graphene oxide film for CO2, H2, and C2H2 gases sensing. Journal of Materials Research and Technology, 2019, 8, 4510-4520.	5.8	67
1824	Converting eggs to flexible, all-solid supercapacitors. Nano Energy, 2019, 65, 104045.	16.0	60
1825	Tuning the Selectivity and Activity of Electrochemical Interfaces with Defective Graphene Oxide and Reduced Graphene Oxide. ACS Applied Materials & Interfaces, 2019, 11, 34517-34525.	8.0	29
1826	Enhanced lithium/sodium storage of SnO2/Graphene aerogels nanocomposites. Materials Chemistry and Physics, 2019, 238, 121870.	4.0	5
1827	Recent progress in the synthesis of graphene and derived materials for next generation electrodes of high performance lithium ion batteries. Progress in Energy and Combustion Science, 2019, 75, 100786.	31.2	379
1828	Highly functionalized nanoporous thin carbon paper electrodes for high energy density of zero-gap vanadium redox flow battery. Chemical Engineering Journal, 2019, 378, 122190.	12.7	40
1829	Construction of 2D MOFs@reduced Graphene Oxide Nanocomposites with Enhanced Visible Lightâ€induced Fentonâ€like Catalytic Performance by Seeded Growth Strategy. ChemCatChem, 2019, 11, 4411-4419.	3.7	8
1830	Cation-induced coagulation in graphene oxide suspensions. Materials Today Chemistry, 2019, 13, 139-146.	3.5	13
1831	Room temperature ammonia gas sensor using ester functionalization of graphene oxide. Materials Research Express, 2019, 6, 095618.	1.6	7
1832	The effect of substrate temperatures on the structural and conversion of thin films of reduced graphene oxide. Physica B: Condensed Matter, 2019, 572, 296-301.	2.7	10
1833	Creation of Conductive Graphene Materials by Bacterial Reduction Using Shewanella Oneidensis. ChemistryOpen, 2019, 8, 888-895.	1.9	20

#	Article	IF	Citations
1834	A two-anode reduction technique to monitor the defect and dope the surface of TiO2 nanotube array as photo-anode for water splitting. Applied Catalysis B: Environmental, 2019, 258, 117949.	20.2	15
1835	One-Pot Formation of Sbâ€"Carbon Microspheres with Graphene Sheets: Potassium-Ion Storage Properties and Discharge Mechanisms. ACS Applied Materials & Interfaces, 2019, 11, 27973-27981.	8.0	46
1836	Systematic evaluation of TiO2-GO-modified ceramic membranes for water treatment: Retention properties and fouling mechanisms. Chemical Engineering Journal, 2019, 378, 122138.	12.7	65
1837	Transport Mechanism and Modeling of Microporous Graphene Membranes. , 2019, , 329-355.		0
1838	The electrochemical deconsolidation mechanism of graphite matrix in HTGR spherical fuel elements. Journal of Nuclear Materials, 2019, 525, 1-6.	2.7	7
1839	Porphyrin-Based Conjugated Polymers as Intrinsic Semiconducting Photocatalysts for Robust H₂ Generation under Visible Light. ACS Applied Energy Materials, 2019, 2, 5665-5676.	5.1	39
1840	Preparation of graphene sponge with mechanical stability for compressible supercapacitor electrode. JMST Advances, 2019, 1, 81-87.	1.9	1
1841	Improved barrier parameters and working stability of Au/p-GO/n-InP/Auâ€"Ge Schottky barrier diode with GO interlayer showing resistive switching effect. Vacuum, 2019, 168, 108825.	3.5	13
1842	ZnO nanoparticles-graphene oxide-reduced graphene oxide thin films assembled layer-by-layer through non-electrostatic interactions. Materials Research Express, 2019, 6, 096438.	1.6	4
1843	Fluorescence Invigoration in Carbon-Incorporated Zinc Oxide Nanowires from Passage of Field Emission Electrons. Scientific Reports, 2019, 9, 9671.	3.3	6
1844	Pseudoâ€Znâ€"Air and Znâ€Ion Intercalation Dual Mechanisms to Realize Highâ€Areal Capacitance and Longâ€Life Energy Storage in Aqueous Zn Battery. Advanced Energy Materials, 2019, 9, 1901480.	19.5	127
1845	Nitrogenâ€Doped Reduced Graphene Oxide Hydrogel Achieved via a Oneâ€Step Hydrothermal Process. ChemNanoMat, 2019, 5, 1144-1151.	2.8	9
1846	In situ carbon nanotubes encapsulated metal Nickel as high-performance microwave absorber from Niâ€"Zn Metalâ€"Organic framework derivative. Journal of Alloys and Compounds, 2019, 801, 609-618.	5.5	44
1847	Synthesis and Characterization of Graphene-Based Inks for Spray-Coating Applications. Journal of Electronic Materials, 2019, 48, 5757-5770.	2.2	10
1848	Role of the Structure of Graphene Oxide Sheets on the CO₂ Adsorption Properties of Nanocomposites Based on Graphene Oxide and Polyaniline or Fe₃O₄-Nanoparticles. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	19
1849	Augmenting the adsorption parameters of palladium onto pyromellitic acid-functionalized nanosilicas from aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 578, 123581.	4.7	8
1850	Design of graphene oxide by a oneâ€pot synthetic route for catalytic conversion of furfural alcohol to ethyl levulinate. Journal of Chemical Technology and Biotechnology, 2019, 94, 3093-3101.	3.2	14
1851	Janus Graphene Liquid Crystalline Fiber with Tunable Properties Enabled by Ultrafast Flash Reduction. Small, 2019, 15, e1901529.	10.0	27

#	Article	IF	Citations
1852	Medium-Dependent Antibacterial Properties and Bacterial Filtration Ability of Reduced Graphene Oxide. Nanomaterials, 2019, 9, 1454.	4.1	14
1853	The Development of Top-Hat Flow Field in a Circular Symmetrical Subsonic Nozzle. Journal of Thermal Science, 2019, 28, 975-983.	1.9	2
1854	Electrospun Lead-Free All-Inorganic Double Perovskite Nanofibers for Photovoltaic and Optoelectronic Applications. ACS Applied Nano Materials, 2019, 2, 7085-7094.	5.0	25
1855	Electrical Measurements of Thermally Reduced Graphene Oxide Powders under Pressure. Nanomaterials, 2019, 9, 1387.	4.1	38
1856	Effect of Preparation and Reduction on Specific Surface Electrical Resistance of Thin Films Obtained from Graphene Oxide Dispersion. Inorganic Materials: Applied Research, 2019, 10, 1072-1077.	0.5	5
1857	Microstructural Evolution and Corrosion Behavior of ZnNi-Graphene Oxide Composite Coatings. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 5896-5913.	2.2	24
1858	A self-powered moisture detector using graphene oxide film constructed by asymmetric metal electrodes. Journal of Alloys and Compounds, 2019, 810, 151880.	5.5	12
1859	Facile deposition of reduced graphene oxide-based transparent conductive film with microwave assisted method. Thin Solid Films, 2019, 692, 137618.	1.8	11
1860	Photocatalytic Polymerization from Amino Acid to Protein by Carbon Dots at Room Temperature. ACS Applied Bio Materials, 2019, 2, 5144-5153.	4.6	17
1862	Modifying Reduced Graphene Oxide by Conducting Polymer Through a Hydrothermal Polymerization Method and its Application as Energy Storage Electrodes. Nanoscale Research Letters, 2019, 14, 226.	5.7	67
1867	Wet-Chemical Assembly of 2D Nanomaterials into Lightweight, Microtube-Shaped, and Macroscopic 3D Networks. ACS Applied Materials & Interfaces, 2019, 11, 44652-44663.	8.0	30
1868	Synthesis and Electrochemical Performances of Fe2O3-MWCNTs/Reduced Graphene Hybrid Nanostructures for Highly Sensitive Hydrazine Detection. Journal of the Electrochemical Society, 2019, 166, B1520-B1527.	2.9	2
1869	Si/a-C Nanocomposites with a Multiple Buffer Structure via One-Step Magnetron Sputtering for Ultrahigh-Stability Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2019, 11, 45726-45736.	8.0	13
1870	Highly Multifunctional Dopamine-Functionalized Reduced Graphene Oxide Supercapacitors. Matter, 2019, 1, 1532-1546.	10.0	66
1871	Structureâ€"Propertyâ€"Toxicity Relationships of Graphene Oxide: Role of Surface Chemistry on the Mechanisms of Interaction with Bacteria. Environmental Science & Technology, 2019, 53, 14679-14687.	10.0	37
1872	Lightweight Kevlarâ€Reinforced Graphene Oxide Architectures with High Strength for Energy Storage. Advanced Materials Interfaces, 2019, 6, 1900786.	3.7	14
1873	Improved photocatalytic performance of anatase TiO 2 synthesized through ethanol supercritical drying technique. Applied Organometallic Chemistry, 2019, 33, e5230.	3.5	3
1874	One-step synthesis of reduced graphene oxide and magnetic graphene: characterization and its application in electrochemical detection of lead (II) ions. Journal of Materials Science: Materials in Electronics, 2019, 30, 20229-20242.	2.2	10

#	Article	IF	Citations
1875	Pristineâ€Grapheneâ€Supported Nitrogenâ€Doped Carbon Selfâ€Assembled from Glucaminiumâ€Based Ionic Liquids as Metalâ€Free Catalyst for Oxygen Evolution. ChemSusChem, 2019, 12, 5041-5050.	6.8	25
1876	The gold nanoparticle sensitized pRGO-MWCNTs grid modified carbon fiber microelectrode as an efficient sensor system for simultaneous detection of three dihydroxybenzoic acid isomers. Electrochimica Acta, 2019, 322, 134765.	5.2	7
1877	Carbon Derived from Sucrose as Anode Material for Lithium-Ion Batteries. Journal of Electronic Materials, 2019, 48, 7389-7395.	2.2	14
1878	Synthesis and Characterization of Reduced Graphene Oxide (rGO) Started from Graphene Oxide (GO) Using the Tour Method with Different Parameters. Advances in Materials Science and Engineering, 2019, 2019, 1-9.	1.8	152
1879	Performance Enhancement of Solar Cell by Incorporating Bilayer RGOâ€ITO Smart Conducting Antireflection Coating. Global Challenges, 2019, 3, 1800109.	3.6	3
1880	Covalent bonding of MnO2 onto graphene aerogel forwards: Efficiently catalytic degradation of organic wastewater. Applied Surface Science, 2019, 496, 143585.	6.1	28
1881	Advantages of bimetallic nitric oxide reduction catalysts consisting of heavy metals rich in hazardous wastes. Journal of Cleaner Production, 2019, 237, 117834.	9.3	15
1882	Cu₄SnS₄-Rich Nanomaterials for Thin-Film Lithium Batteries with Enhanced Conversion Reaction. ACS Nano, 2019, 13, 10671-10681.	14.6	26
1883	One-step synthesis of few-layer niobium carbide MXene as a promising anode material for high-rate lithium ion batteries. Dalton Transactions, 2019, 48, 14433-14439.	3.3	45
1884	Influence of Gas Adsorption on the Impedance of Graphene Oxide. , 2019, , .		3
1885	The Role of Electrolyte Additives on the Interfacial Chemistry and Thermal Reactivity of Si-Anode-Based Li-Ion Battery. ACS Applied Energy Materials, 2019, 2, 6513-6527.	5.1	46
1886	Immobilized rGO/TiO2 Photocatalyst for Decontamination of Water. Catalysts, 2019, 9, 708.	3.5	25
1887	Polydopamine functionalized graphene oxide nanocomposites reinforced the corrosion protection and adhesion properties of waterborne polyurethane coatings. European Polymer Journal, 2019, 120, 109249.	5.4	100
1888	Combustion synthesis of N-doped three-dimensional graphene networks using graphene oxideâ€"nitrocellulose composites. Advanced Composites and Hybrid Materials, 2019, 2, 492-500.	21.1	29
1889	Effect of aspect ratio of graphene oxide on properties of poly (vinyl alcohol) nanocomposites. Nanocomposites, 2019, 5, 84-93.	4.2	25
1890	A Study on exfoliation of Expanded Graphite Stacks in Candelilla Wax. Materials, 2019, 12, 2530.	2.9	19
1891	Enhanced CH4 selectivity in CO2 photocatalytic reduction over carbon quantum dots decorated and oxygen doping g-C3N4. Nano Research, 2019, 12, 2749-2759.	10.4	115
1892	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.	2.2	5

#	Article	IF	Citations
1893	Incorporation of graphene oxide/nanodiamond nanocomposite into PVC ultrafiltration membranes. Chemical Engineering Research and Design, 2019, 152, 60-70.	5.6	52
1894	Sodium cholate as efficient green reducing agent for graphene oxide via flow reaction for flexible supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2019, 30, 19182-19188.	2.2	13
1895	Morphology and functional properties of electrospun expanded polystyrene (EPS)/reduced graphene oxide (RGO) nanofiber composite. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 939-946.	2.1	7
1896	One-Step Photochemical Synthesis of Transition Metalâ€"Graphene Hybrid for Electrocatalysis. ACS Sustainable Chemistry and Engineering, 2019, 7, 4112-4118.	6.7	6
1897	Graphene-based electrochemical biosensors for monitoring noncommunicable disease biomarkers. Biosensors and Bioelectronics, 2019, 130, 276-292.	10.1	180
1898	Analysis of the low-temperature restoration process of graphene oxide based on in situ conductivity measurement. Journal of Materials Chemistry C, 2019, 7, 2583-2588.	5.5	1
1899	Characteristics and mechanism of Pb(II) adsorption/desorption on GO/r-GO under sulfide-reducing conditions. Journal of Industrial and Engineering Chemistry, 2019, 73, 233-240.	5.8	17
1900	Interfacial Engineering of Reduced Graphene Oxide for Aramid Nanofiberâ€Enabled Structural Supercapacitors. Batteries and Supercaps, 2019, 2, 464-472.	4.7	29
1901	A highly integrated All-manganese battery with oxide nanoparticles supported on the cathode and anode by super-aligned carbon nanotubes. Journal of Materials Chemistry A, 2019, 7, 4494-4504.	10.3	21
1902	A new high ionic conductive gel polymer electrolyte enables highly stable quasi-solid-state lithium sulfur battery. Energy Storage Materials, 2019, 22, 256-264.	18.0	89
1903	Nitrogen doped graphene supported Pd as hydrogen evolution catalyst for electrochemical methanol reformation. International Journal of Hydrogen Energy, 2019, 44, 4582-4591.	7.1	19
1904	Graphite to Graphene: Green Synthesis Using Opuntia ficus-indica. Journal of Electronic Materials, 2019, 48, 1553-1561.	2.2	7
1905	Controlling hierarchical porous structures of rice-husk-derived carbons for improved capacitive deionization performance. Environmental Science: Nano, 2019, 6, 916-924.	4.3	34
1906	Determination of the structural, morphological and optical properties of graphene doped SnO thin films deposited by using thermionic vacuum arc technique. Physica B: Condensed Matter, 2019, 569, 14-19.	2.7	18
1907	Direct synthesis of high-quality graphene on Cu powders from adsorption of small aromatic hydrocarbons: A route to high strength and electrical conductivity for graphene/Cu composite. Journal of Alloys and Compounds, 2019, 798, 403-413.	5.5	46
1908	Dependence of reduction degree on electromagnetic absorption of graphene nanoribbon unzipped from carbon nanotube. Journal of Colloid and Interface Science, 2019, 552, 196-203.	9.4	37
1909	Mechanical properties of graphene oxide-based composite layered-materials. Materials Chemistry and Physics, 2019, 234, 81-89.	4.0	13
1910	Highly sensitive and selective Love mode surface acoustic wave ammonia sensor based on graphene oxides operated at room temperature. Journal of Materials Science, 2019, 54, 11925-11935.	3.7	28

#	Article	IF	Citations
1911	Doping Graphene Oxide Aerogel with Nitrogen during Reduction with Hydrazine and Low Temperature Annealing in Air. Russian Journal of Physical Chemistry A, 2019, 93, 296-300.	0.6	7
1912	Co and CeO₂ co-decorated N-doping carbon nanofibers for rechargeable Znâ€"air batteries. Nanotechnology, 2019, 30, 395401.	2.6	37
1913	Selective Cellulose Hydrogenolysis to Ethanol Using Ni@C Combined with Phosphoric Acid Catalysts. ChemSusChem, 2019, 12, 3977-3987.	6.8	49
1914	Purification of Singleâ€Walled Carbon Nanotubes Using Acid Treatment and Magnetic Separation. Physica Status Solidi (B): Basic Research, 2019, 256, 1800742.	1.5	28
1915	Graphene Papers with Tailored Pore Structures Fabricated from Crumpled Graphene Spheres. Nanomaterials, 2019, 9, 815.	4.1	13
1916	Programing polyurethane with systematic presence of graphene-oxide (GO) and reduced graphene-oxide (rGO) platelets for adjusting of heat-actuated shape memory properties. European Polymer Journal, 2019, 118, 619-632.	5.4	43
1917	Effect of highly dispersed graphene and graphene oxide in 3D nanofibrous bacterial cellulose scaffold on cell responses: A comparative study. Materials Chemistry and Physics, 2019, 235, 121774.	4.0	30
1918	Graphene oxide-coated Poly(vinyl alcohol) fibers for enhanced fiber-reinforced cementitious composites. Composites Part B: Engineering, 2019, 174, 107010.	12.0	45
1919	Graphene-based adsorbents for the separation of f-metals from waste solutions: A review. Journal of Molecular Liquids, 2019, 289, 111121.	4.9	33
1920	Synthesis of Cu/rGO composites by chemical and thermal reduction ofÂgraphene oxide. Journal of Alloys and Compounds, 2019, 800, 379-391.	5.5	34
1921	Nanocomposite of Nitrogenâ€Doped Graphene/Polyaniline for Enhanced Ammonia Gas Detection. Advanced Materials Interfaces, 2019, 6, 1900552.	3.7	32
1922	Plasma functionalisation of few-layer graphenes and carbon nanotubes for graphene microsupercapacitors. Electrochimica Acta, 2019, 317, 348-357.	5.2	9
1923	Effect of graphene interlayer on resistance spot welded AISI-1008 steel joints. Materials Research Express, 2019, 6, 0865c3.	1.6	17
1924	Thermal and Mechanical Interfacial Behaviors of Graphene Oxide-Reinforced Epoxy Composites Cured by Thermal Latent Catalyst. Materials, 2019, 12, 1354.	2.9	31
1925	Orderly stacked ultrathin graphene oxide membranes on a macroporous tubular ceramic substrate. Journal of Membrane Science, 2019, 586, 177-184.	8.2	27
1926	Selective Aerobic Oxidation of Lactate to Pyruvate Catalyzed by Vanadiumâ€Nitrogenâ€Doped Carbon Nanosheets. ChemCatChem, 2019, 11, 3381-3387.	3.7	18
1927	3-Phase hierarchical graphene-based epoxy nanocomposite laminates for automotive applications. Journal of Materials Science and Technology, 2019, 35, 2169-2177.	10.7	19
1928	Graphene-wrapped hollow ZnMn2O4 microspheres for high-performance cathode materials of aqueous zinc ion batteries. Electrochimica Acta, 2019, 317, 155-163.	5.2	86

#	Article	IF	Citations
1929	Nature-Inspired, Graphene-Wrapped 3D MoS₂ Ultrathin Microflower Architecture as a High-Performance Anode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 22323-22331.	8.0	93
1930	Selective synthesis of Î±-Bi2O3/rGO and Î²-Bi2O3/rGO heterostructures as efficient visible-light-driven photocatalysts. Ceramics International, 2019, 45, 15334-15342.	4.8	12
1931	Uniform and stable electrophoretic deposition of graphene oxide on steel mesh: Low temperature thermal treatment for switching from superhydrophilicity to superhydrophobicity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 577, 323-332.	4.7	23
1932	New insights into the Li-storage mechanism in Î±-Ga2O3 anode and the optimized electrode design. Journal of Power Sources, 2019, 433, 126681.	7.8	38
1933	Electrochemical Detection of Ultratrace Lead Ion through Attaching and Detaching DNA Aptamer from Electrochemically Reduced Graphene Oxide Electrode. Nanomaterials, 2019, 9, 817.	4.1	30
1934	Surface Pseudocapacitive Mechanism of Molybdenum Phosphide for Highâ€Energy and Highâ€Power Sodiumâ€Ion Capacitors. Advanced Energy Materials, 2019, 9, 1900967.	19.5	62
1935	Fully reversible lithium storage of tin oxide enabled by self-doping and partial amorphization. Nanoscale, 2019, 11, 12915-12923.	5.6	12
1936	Highâ€Resolution Scanning Probe Nanolithography of 2D Materials: Novel Nanostructures. Advanced Materials Technologies, 2019, 4, 1900181.	5.8	15
1937	Two-dimensional graphene paper supported flexible enzymatic fuel cells. Nanoscale Advances, 2019, 1, 2562-2570.	4.6	26
1938	Tunable degree of oxidation in graphene oxide: cost effective synthesis, characterization and process optimization. Materials Research Express, 2019, 6, 085625.	1.6	7
1939	Well-Wrapped Li-Rich Layered Cathodes by Reduced Graphene Oxide towards High-Performance Li-Ion Batteries. Molecules, 2019, 24, 1680.	3.8	3
1940	Graphene-based composite for dielectric elastomer actuator: A comprehensive review. Sensors and Actuators A: Physical, 2019, 293, 222-241.	4.1	70
1941	Passivation Mechanism of Nitrogen in ZnO under Different Oxygen Ambience. Crystals, 2019, 9, 204.	2.2	3
1942	Easy and Direct Sensing of Toxic Cadmium Using In Situ Bismuth Plating Free Method and Environmentally Friendly Synthesized Graphene Composite. Journal of the Electrochemical Society, 2019, 166, B637-B643.	2.9	4
1943	Improved Hole Injection in Bulk Heterojunction (BHJ) Hybrid Solar Cells by Applying a Thermally Reduced Graphene Oxide Buffer Layer. Journal of Nanomaterials, 2019, 2019, 1-10.	2.7	4
1944	Reinforcing 13â€“93 bioglass scaffolds fabricated by robocasting and pressureless spark plasma sintering with graphene oxide.. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 97, 108-116.	3.1	15
1945	Influence of Oxidation Level of Graphene Oxide on the Mechanical Performance and Photo-Oxidation Resistance of a Polyamide 6. Polymers, 2019, 11, 857.	4.5	37
1946	Molecular Mechanisms of CO₂ Adsorption in Diamine-Cross-Linked Graphene Oxide. Chemistry of Materials, 2019, 31, 3729-3735.	6.7	35

#	Article	IF	Citations
1947	Effects of Different TiO2 Particle Sizes on the Microstructure and Optical Limiting Properties of TiO2/Reduced Graphene Oxide Nanocomposites. Nanomaterials, 2019, 9, 730.	4.1	16
1948	Structure and adsorptive property of carbon materials derived from thermal and mechanochemical reaction of CaC2 and chlorinated polymers. Chemical Engineering Journal, 2019, 372, 181-190.	12.7	18
1949	Mesoporous iron sulfide nanoparticles anchored graphene sheet as an efficient and durable catalyst for oxygen reduction reaction. Journal of Power Sources, 2019, 427, 91-100.	7.8	45
1950	Synthesis of Amphiphilic Acrylate Boron Fluorinated Polymers with Antifouling Behavior. Industrial & Engineering Chemistry Research, 2019, 58, 8016-8025.	3.7	15
1951	Highly Efficient gâ€C₃N₄ Nanorods with Dual Active Sites as an Electrocatalyst for the Oxygen Evolution Reaction. ChemCatChem, 2019, 11, 2870-2878.	3.7	29
1952	Biocompatibility Considerations in the Design of Graphene Biomedical Materials. Advanced Materials Interfaces, 2019, 6, 1900229.	3.7	86
1953	XPS and structural studies of high quality graphene oxide and reduced graphene oxide prepared by different chemical oxidation methods. Ceramics International, 2019, 45, 14439-14448.	4.8	690
1954	Emerging Trends in the Syntheses of Heterocycles Using Graphene-based Carbocatalysts: An Update. Topics in Current Chemistry, 2019, 377, 13.	5.8	12
1955	A Reusable Cobalt Catalyst for Reversible Acceptorless Dehydrogenation and Hydrogenation of Nâ€Heterocycles. ChemCatChem, 2019, 11, 2449-2457.	3.7	43
1956	Facile synthesis of reduced graphene oxide by modified Hummer's method as anode material for Li-, Na- and K-ion secondary batteries. Royal Society Open Science, 2019, 6, 181978.	2.4	60
1957	Band-like transport in high vacuum thermal reduced graphene oxide films. Vacuum, 2019, 165, 254-261.	3.5	30
1958	Flexible Graphene/Carbon Nanotube Electrochemical Doubleâ€Layer Capacitors with Ultrahigh Areal Performance. ChemPlusChem, 2019, 84, 882-892.	2.8	28
1959	Interfacial Thermal Contact Conductance inside the Grapheneâ€"Bi₂Te₃ Heterostructure. Advanced Materials Interfaces, 2019, 6, 1900275.	3.7	9
1960	Graphene and its derivatives: Opportunities and challenges in dentistry. Materials Science and Engineering C, 2019, 102, 171-185.	7.3	183
1961	Highly improved performances of LiMn0.7Fe0.3PO4 cathode with in situ electrochemically reduced graphene oxide. Journal of Alloys and Compounds, 2019, 793, 627-634.	5.5	12
1962	Sponge Effect Boosting Oxygen Reduction Reaction at the Interfaces between Mullite SmMn₂O₅ and Nitrogen-Doped Reduced Graphene Oxide. ACS Applied Materials & Interfaces, 2019, 11, 17482-17490.	8.0	18
1963	Preparation of Few-Layer Graphene by Pulsed Discharge in Graphite Micro-Flake Suspension. Crystals, 2019, 9, 150.	2.2	7
1964	Anodization study of epitaxial graphene: insights on the oxygen evolution reaction of graphitic materials. Nanotechnology, 2019, 30, 285701.	2.6	2

#	Article	IF	Citations
1965	Synthesis and characterizations of Ag-decorated graphene oxide nanosheets and their cytotoxicity studies. Chemical Papers, 2019, 73, 1945-1952.	2.2	14
1966	Effect of mesoporous carbon support nature and pretreatments on palladium loading, dispersion and apparent catalytic activity in hydrogenation of myrcene. Journal of Catalysis, 2019, 372, 226-244.	6.2	29
1967	NbC/C heterojunction for efficient photodegradation of methylene blue under visible irradiation. Solar Energy, 2019, 183, 398-409.	6.1	37
1968	A novel electrochemical sensor based on Au nanoparticles/8-aminoquinoline functionalized graphene oxide nanocomposite for paraquat detection. Nanotechnology, 2019, 30, 285502.	2.6	19
1969	Bimetal-organic frameworks derived ternary metal sulphide nanoparticles embedded in porous carbon spheres/carbon nanotubes as high-performance lithium storage materials. Chemical Engineering Journal, 2019, 370, 89-97.	12.7	22
1970	Microstructural and magnetic properties of rGO/MnFe2O4 nanocomposites; relaxation dynamics. Journal of Alloys and Compounds, 2019, 790, 983-991.	5.5	12
1971	Sustainable in Situ Approach to Covalently Functionalize Graphene Oxide with POSS Molecules Possessing Extremely Low Dielectric Behavior. Langmuir, 2019, 35, 4672-4681.	3.5	12
1972	Plasma Exfoliated Graphene: Preparation via Rapid, Mild Thermal Reduction of Graphene Oxide and Application in Lithium Batteries. Materials, 2019, 12, 707.	2.9	7
1973	Core-shell structured Fe3O4@GO@MIL-100(Fe) magnetic nanoparticles as heterogeneous photo-Fenton catalyst for 2,4-dichlorophenol degradation under visible light. Journal of Hazardous Materials, 2019, 371, 677-686.	12.4	121
1974	Sonochemical Formation of Copper/Ironâ€Modified Graphene Oxide Nanocomposites for Ketorolac Delivery. Chemistry - A European Journal, 2019, 25, 6233-6245.	3.3	11
1975	Effect of buffer layer nature on multiwall carbon nanotube growth rate by PECVD. Diamond and Related Materials, 2019, 94, 81-87.	3.9	2
1976	Ordered Mesoporous Graphitic Carbon/Iron Carbide Composites with High Porosity as a Sulfur Host for Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2019, 11, 13194-13204.	8.0	34
1977	Influence of Reduced Graphene Oxide on Epoxy/Carbon Fiberâ€Reinforced Hybrid Composite: Flexural and Shear Properties under Varying Temperature Conditions. Advanced Engineering Materials, 2019, 21, 1800614.	3.5	24
1978	Surface Modification of Graphene Nanoplatelets by Organic Acids and Ultrasonic Radiation for Enhance Uremic Toxins Adsorption. Materials, 2019, 12, 715.	2.9	20
1979	A self-powered wearable sweat-evaporation-biosensing analyzer for building sports big data. Nano Energy, 2019, 59, 754-761.	16.0	116
1980	Preparation of GO-Based Iron-Containing and Adsorption of Cr in Water. IOP Conference Series: Materials Science and Engineering, 2019, 472, 012085.	0.6	0
1981	Characterization Techniques of Two-Dimensional Nanomaterials. , 2019, , 27-41.		2
1982	The enhanced and polarized Raman spectra on the spherical aluminum powders encapsulated within graphene nanosheets. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 279-288.	2.1	2

#	Article	IF	Citations
1983	Water-based and inkjet printable inks made by electrochemically exfoliated graphene. Carbon, 2019, 149, 213-221.	10.3	73
1984	Lead Oxide Microparticles Coated by Ethylenediamine-Cross-Linked Graphene Oxide for Lithium Ion Battery Anodes. ACS Applied Energy Materials, 2019, 2, 3017-3020.	5.1	18
1985	Laser-induced transformation of graphene into graphene oxide nanospheres (GONs). Materials Research Bulletin, 2019, 115, 227-234.	5.2	15
1986	ZnFe₂O₄@Carbon Coreâ€"Shell Nanoparticles Encapsulated in Reduced Graphene Oxide for High-Performance Li-Ion Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 14713-14721.	8.0	40
1987	In Situ Synthesis of NiCoP Nanoparticles Supported on Reduced Graphene Oxide for the Catalytic Hydrolysis of Ammonia Borane. ChemPlusChem, 2019, 84, 382-386.	2.8	17
1988	Free-standing integrated cathode derived from 3D graphene/carbon nanotube aerogels serving as binder-free sulfur host and interlayer for ultrahigh volumetric-energy-density lithium sulfur batteries. Nano Energy, 2019, 60, 743-751.	16.0	151
1989	Rapid gas-induced detachable rGO/MnO debonding layer for flexible electronic applications. Carbon, 2019, 146, 756-762.	10.3	3
1990	Boosting pervaporation performance by promoting organic permeability and simultaneously inhibiting water transport via blending PDMS with COF-300. Journal of Membrane Science, 2019, 579, 141-150.	8.2	64
1991	The impact of graphene oxide on cementitious composites. , 2019, , 69-95.		1
1992	Enhancement of power conversion efficiency of bulk heterojunction polymer solar cells using core/shell, Au/graphene plasmonic nanostructure. Materials Chemistry and Physics, 2019, 228, 325-335.	4.0	17
1993	Elucidation of an intrinsic parameter for evaluating the electrical quality of graphene flakes. Scientific Reports, 2019, 9, 557.	3.3	22
1994	Electrochemical Fabrication of Prussian Blue Nanocubeâ€decorated Electroreduced Graphene Oxide for Amperometric Sensing of NADH. Electroanalysis, 2019, 31, 905-912.	2.9	18
1995	Co₃O₄/rGO Catalysts for Oxygen Electrocatalysis: On the Role of the Oxide/Carbon Interaction. Journal of the Electrochemical Society, 2019, 166, H94-H102.	2.9	18
1996	Effects of Reduced Graphene Oxide (rGO) at Different Concentrations on Tribological Properties of Liquid Base Lubricants. Lubricants, 2019, 7, 11.	2.9	17
1997	Three-dimensional interconnected graphene microsphere as fillers for enhancing thermal conductivity of polymer. Chemical Engineering Journal, 2019, 368, 79-87.	12.7	64
1998	High conductive ITO-free flexible electrode based on Gr-grafted-CNT/Au NPs for optoelectronic applications. Optical Materials, 2019, 89, 441-451.	3.6	5
1999	Reduced Graphene Oxide Coated Silk Fabrics with Conductive Property for Wearable Electronic Textiles Application. Advanced Electronic Materials, 2019, 5, 1800648.	5.1	49
2000	Tuning the electron density distribution of the Co-N-C catalysts through guest molecules and heteroatom doping to boost oxygen reduction activity. Journal of Power Sources, 2019, 418, 50-60.	7.8	34

#	Article	IF	Citations
2001	A low-damage plasma surface modification method of stacked graphene bilayers for configurable wettability and electrical properties. Nanotechnology, 2019, 30, 245709.	2.6	13
2002	Scalable Production of Graphene Inks via Wetâ€Jet Milling Exfoliation for Screenâ€Printed Microâ€Supercapacitors. Advanced Functional Materials, 2019, 29, 1807659.	14.9	174
2003	Distinguishing characteristics and usability of graphene oxide based on different sources of graphite feedstock. Journal of Colloid and Interface Science, 2019, 542, 429-440.	9.4	33
2004	Functionalized Graphene Nanocomposites for Water Treatment. , 2019, , 91-107.		5
2005	Antimicrobial Hierarchically Porous Graphene Oxide Sponges for Water Treatment. ACS Applied Bio Materials, 2019, 2, 1578-1590.	4.6	21
2006	Preparation and Comparison of Reduced Graphene Oxide and Carbon Nanotubes as Fillers in Conductive Natural Rubber for Flexible Electronics. ACS Omega, 2019, 4, 3458-3468.	3.5	21
2007	Layer-by-layer MoS2:GO composite thin films for optoelectronics device applications. Applied Surface Science, 2019, 479, 1118-1123.	6.1	10
2008	The transport properties of sodium-ion in the low potential platform region of oatmeal-derived hard carbon for sodium-ion batteries. Journal of Alloys and Compounds, 2019, 787, 229-238.	5.5	47
2009	Enhancing thermal oxidation and fire resistance of reduced graphene oxide by phosphorus and nitrogen co-doping: Mechanism and kinetic analysis. Carbon, 2019, 146, 650-659.	10.3	90
2010	MICROSTRUCTURE AND ELECTROCHEMICAL PROPERTIES OF Niâ€“B/GO ULTRASONIC-ASSISTED COMPOSITE COATINGS. Surface Review and Letters, 2019, 26, 1950080.	1.1	1
2011	Programmable graphene-based humidity and heat driven actuators prepared by one-step laser direct writing. Smart Materials and Structures, 2019, 28, 105024.	3.5	5
2012	Size separation of graphene oxide via multi-layer filtering by silica gel column. Materials Express, 2019, 9, 1025-1032.	0.5	3
2014	Insights into the Interaction of Graphene Oxide and Adsorbed RhB by Raman Spectral Deconvoluted Scanning. Journal of Physical Chemistry C, 2019, 123, 30021-30027.	3.1	5
2015	Facilitating charge transfer via a giant magnetoresistance effect for high-efficiency photocatalytic hydrogen production. Chemical Communications, 2019, 55, 14478-14481.	4.1	7
2016	Solvothermal synthesis of graphene oxide and its composites with poly(Îµ-caprolactone). Nanoscale, 2019, 11, 18672-18682.	5.6	11
2017	Reduced graphene oxide based nanobiocomposite as basis for flexible biosensors. Journal of Physics: Conference Series, 2019, 1410, 012064.	0.4	1
2018	Tuning surface conductivity and stability for high-performance Li- and Mn-rich cathode materials. New Journal of Chemistry, 2019, 43, 18943-18950.	2.8	9
2019	Sensitivity Enhancement of Pb(II) Ion Detection in Rivers Using SPR-Based Ag Metallic Layer Coated with Chitosanâ€“Graphene Oxide Nanocomposite. Sensors, 2019, 19, 5159.	3.8	25

#	Article	IF	Citations
2020	Effect of Nitrogen-Doped Graphene Oxide on the Aging Behavior of Nitrileâ€"Butadiene Rubber. Polymers, 2019, 11, 1637.	4.5	11
2021	Alternative Synthesis Method for Carbon Nanotubes. Small, 2019, 15, 1904132.	10.0	2
2022	Local conductivity of graphene oxide study by conductive atomic force microscope. Journal of Applied Physics, 2019, 126, .	2.5	5
2023	High flux hyperbranched starch-graphene oxide piperazinamide composite nanofiltration membrane. Journal of Environmental Chemical Engineering, 2019, 7, 103300.	6.7	39
2024	Influence of (photo)bromination on the transformation, aggregation and sedimentation of graphene oxide. Chemical Engineering Journal, 2019, 355, 487-497.	12.7	13
2025	Synthesis of PMMA/modified graphene oxide nanocomposite pour point depressant and its effect on the flow properties of Indian waxy crude oil. Fuel, 2019, 235, 1245-1259.	6.4	68
2026	Effect of nitric acid pre-oxidation concentration on pore structure and nitrogen/oxygen active decoration sites of ethylenediamine -modified biochar for mercury(II) adsorption and the possible mechanism. Chemosphere, 2019, 220, 28-39.	8.2	46
2027	Low-damage nitrogen incorporation in graphene films by nitrogen plasma treatment: Effect of airborne contaminants. Carbon, 2019, 144, 532-539.	10.3	18
2028	Activated carbon promotes short-chain fatty acids production from algae during anaerobic fermentation. Science of the Total Environment, 2019, 658, 1131-1138.	8.0	30
2029	Role of oxygen functional groups for improved performance of graphene-silicone composites as a thermal interface material. Carbon, 2019, 145, 131-139.	10.3	27
2030	Facile synthesis of copper sulfide decorated reduced graphene oxide nanocomposite for high sensitive detection of toxic antibiotic in milk. Ultrasonics Sonochemistry, 2019, 52, 382-390.	8.2	65
2031	Synergistic effect of iron and copper oxides on the formation of persistent chlorinated aromatics in iron ore sintering based on in situ XPS analysis. Journal of Hazardous Materials, 2019, 366, 202-209.	12.4	62
2032	Synthesis of disodium phosphonate functionalized graphene oxide as an efficient heterogeneous nanocatalyst for mercaptan removal from the gas stream. Functional Materials Letters, 2019, 12, 1950027.	1.2	1
2033	Electron Paramagnetic Resonance Investigation of the Structure of Graphene Oxide: pH-Dependence of the Spectroscopic Response. ACS Applied Nano Materials, 2019, 2, 19-27.	5.0	30
2034	Porous Fe2O3 nanospheres anchored on activated carbon cloth for high-performance symmetric supercapacitors. Nano Energy, 2019, 57, 379-387.	16.0	251
2035	Reduced irreversible capacities of graphene oxide-based anodes used for lithium ion batteries via alkali treatment. Journal of Energy Chemistry, 2019, 37, 73-81.	12.9	16
2036	Fate of adsorbed Pb(II) on graphene oxide under variable redox potential controlled by electrochemical method. Journal of Hazardous Materials, 2019, 367, 152-159.	12.4	25
2037	Self-supporting graphene oxide films preparation and characterization methods. Vacuum, 2019, 160, 1-11.	3.5	44

#	Article	IF	Citations
2038	Mechanism of adsorption of tetracyclineâ€"Cu multiâ€pollutants by graphene oxide (GO) and reduced graphene oxide (rGO). Journal of Chemical Technology and Biotechnology, 2019, 94, 1176-1186.	3.2	29
2039	Effect of electrolytes and sonication times on the formation of graphene using an electrochemical exfoliation process. Applied Surface Science, 2019, 469, 951-961.	6.1	70
2040	Performance improvements of ZnO thin film transistors with reduced graphene oxide-embedded channel layers. Journal of Alloys and Compounds, 2019, 777, 1367-1374.	5.5	2
2041	Asymmetric finger-shape metallization in Graphene-on-Si solar cells for enhanced carrier trapping. Materials Science in Semiconductor Processing, 2019, 91, 13-21.	4.0	9
2042	Visible photodegradation of ibuprofen and 2,4-D in simulated waste water using sustainable metal free-hybrids based on carbon nitride and biochar. Journal of Environmental Management, 2019, 231, 1164-1175.	7.8	100
2043	Stable graphene oxide-based composite membranes intercalated with montmorillonite nanoplatelets for water purification. Journal of Materials Science, 2019, 54, 2241-2255.	3.7	18
2044	Preparing a magnetic activated carbon with expired beverage as carbon source and KOH as activator. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 575-587.	5.3	36
2045	A simple immunosensor for alpha-fetoprotein determination based on gold nanoparticles-dextran-reduced graphene oxide. Journal of Electroanalytical Chemistry, 2019, 833, 126-132.	3.8	15
2046	Platinum nanoparticlesâ€"decorated graphene-modified glassy carbon electrode toward the electrochemical determination of ascorbic acid, dopamine, and paracetamol. Comptes Rendus Chimie, 2019, 22, 58-72.	0.5	34
2047	Enhanced Microwave Absorption Properties of Metal Organic Framework (MOF)-Derived Carbonaceous ZnO Incorporated Reduced Graphene Oxide Composites. Nano, 2019, 14, 1950005.	1.0	4
2048	Reduction of graphene oxide thin films using a stepwise thermal annealing assisted by l-ascorbic acid. Diamond and Related Materials, 2019, 92, 242-247.	3.9	24
2049	Annealing Temperature-Dependent Terahertz Thermalâ€"Electrical Conversion Characteristics of Three-Dimensional Microporous Graphene. ACS Applied Materials & Interfaces, 2019, 11, 6411-6420.	8.0	40
2050	Synthesis and characterization of graphene oxide functionalized with MnFe2O4 and supported on activated carbon for glyphosate adsorption in fixed bed column. Chemical Engineering Research and Design, 2019, 123, 59-71.	5.6	49
2051	Three-dimensional monolithic corrugated graphene/Ni foam for highly stable and efficient Li metal electrode. Journal of Power Sources, 2019, 413, 467-475.	7.8	23
2052	Review on the treatment of organic pollutants in water by ultrasonic technology. Ultrasonics Sonochemistry, 2019, 55, 273-278.	8.2	137
2053	One-step preparation of Fe-doped Ni3S2/rGO@NF electrode and its superior OER performances. International Journal of Hydrogen Energy, 2019, 44, 2664-2674.	7.1	50
2054	Mosquitoâ€™s Compound Eyes as Inspiration for Fabrication of Conductive Superhydrophobic Nanocarbon Materials from Waste Wheat Straw. ACS Sustainable Chemistry and Engineering, 2019, 7, 3883-3894.	6.7	18
2055	Investigation on the combustion efficiency and residual of nitrocelluloseâ€"alcohol humectant mixtures. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1807-1816.	3.6	5

#	Article	IF	Citations
2056	Application of Hybrid rGO-ITO Bilayer TCO on a-Si Solar Cell for Performance Enhancement. IEEE Journal of Photovoltaics, 2019, 9, 12-17.	2.5	5
2057	Wavelengthâ€Gradient Graphene Films for Pressureâ€Sensitive Sensors. Advanced Materials Technologies, 2019, 4, 1800363.	5.8	31
2058	Thermally reduced graphene paper with fast Li ion diffusion for stable Li metal anode. Electrochimica Acta, 2019, 294, 413-422.	5.2	28
2059	One-pot synthesis of copper nanowire decorated by reduced graphene oxide with excellent oxidation resistance and stability. Applied Surface Science, 2019, 467-468, 158-167.	6.1	22
2060	Joule heating-induced sp2-restoration in graphene fibers. Carbon, 2019, 142, 230-237.	10.3	46
2061	Carbon Nanotubes and Graphene Oxide Applications in Optochemical Sensors. , 2019, , 223-246.		1
2062	Efficient degradation of rhodamine B with sustainable electricity generation in a photocatalytic fuel cell using visible light Ag3PO4/Fe/GTiP photoanode and ZnIn2S4 photocathode. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 137-147.	5.3	21
2063	Reduced graphene oxide wrapped cube-like ZnSnO3: As a high-performance microwave absorber. Journal of Alloys and Compounds, 2019, 777, 544-553.	5.5	74
2064	Enhanced properties of poly(styreneâ€“ b â€“ethyleneâ€“ co â€“butyleneâ€“ b â€“styrene) nanocomposites with in situ construction of interconnected graphene network. Journal of Applied Polymer Science, 2019, 136, 47118.	2.6	6
2065	In-situ carboxylation of graphene by chemical vapor deposition growth for biosensing. Carbon, 2019, 141, 719-727.	10.3	7
2066	Graphene oxide encapsulated 3D porous chalcopyrite (CuFeS2) nanocomposite as an emerging electrocatalyst for agro-hazardous (methyl paraoxon) detection in vegetables. Composites Part B: Engineering, 2019, 160, 268-276.	12.0	83
2067	The effect of growth condition on graphene growth via Cu-assisted plasma reduction and restoration of graphene oxide. Japanese Journal of Applied Physics, 2019, 58, 015003.	1.5	3
2068	Ferroelectric domain dynamics and stability in graphene oxide-P(VDF-TrFE) multilayer films for ultra-high-density memoryÂapplication. Carbon, 2019, 144, 15-23.	10.3	20
2069	Flexible and robust laser-induced graphene heaters photothermally scribed on bare polyimide substrates. Carbon, 2019, 144, 116-126.	10.3	144
2070	Graphene Oxide Hybrid with Sulfurâ€“Nitrogen Polymer for High-Performance Pseudocapacitors. Journal of the American Chemical Society, 2019, 141, 482-487.	13.7	61
2071	The transmittance and sheet resistance of chemically and heat reduced graphene oxide film. Optical and Quantum Electronics, 2019, 51, 1.	3.3	4
2072	GO/PVA nanocomposites with significantly enhanced mechanical properties through metal ion coordination. Chinese Chemical Letters, 2019, 30, 1100-1104.	9.0	18
2073	Corrosion inhibition enhancement of Al alloy by graphene oxide coating in NaCl solution. Progress in Organic Coatings, 2019, 127, 300-307.	3.9	16

#	Article	IF	Citations
2074	Synthesis of interconnected graphene framework with two-dimensional protective layers for stable lithium metal anodes. Energy Storage Materials, 2019, 17, 341-348.	18.0	26
2075	A comparative study on simple and practical chemical gas sensors from chemically modified graphene films. Materials Research Express, 2019, 6, 015607.	1.6	5
2076	Conductive and high anticorrosive rGO-modified copper foil prepared by electrocoagulation and chemical reduction. Ionics, 2019, 25, 2935-2944.	2.4	3
2077	Controlling the morphology of ZnO structures via low temperature hydrothermal method and their optoelectronic application. Materials Science in Semiconductor Processing, 2019, 89, 154-160.	4.0	49
2078	Synergistic effect of sono-photocatalytic process for the degradation of organic pollutants using CuO-TiO2/rGO. Ultrasonics Sonochemistry, 2019, 50, 218-223.	8.2	147
2079	Enhanced visible photocatalytic oxidation of NO by repeated calcination of g-C3N4. Applied Surface Science, 2019, 465, 1037-1046.	6.1	90
2080	High sensitivity detection of nitrogen oxide gas at room temperature using zinc oxide-reduced graphene oxide sensing membrane. Journal of Alloys and Compounds, 2019, 773, 950-954.	5.5	49
2081	Development of a novel graphene oxide-blended polysulfone mixed matrix membrane with improved hydrophilicity and evaluation of nitrate removal from aqueous solutions. Chemical Engineering Communications, 2019, 206, 495-508.	2.6	15
2082	Functionalized N-doped hollow carbon spheres as sulfur host with enhanced electrochemical performances of lithium-sulfur batteries. Ionics, 2019, 25, 503-511.	2.4	17
2083	Electrochemical reduction of graphene oxide on biomedical grade CoCr alloy. Applied Surface Science, 2019, 465, 1028-1036.	6.1	31
2084	UVâ€"vis light induced photocatalytic activity of TiO2/graphene oxide nanocomposite coatings. Catalysis Today, 2019, 321-322, 81-86.	4.4	21
2085	Imaging XPS for industrial applications. Journal of Electron Spectroscopy and Related Phenomena, 2019, 231, 109-117.	1.7	27
2086	Adsorption of 17Î²-estradiol from aqueous solution by raw and direct/pre/post-KOH treated lotus seedpod biochar. Journal of Environmental Sciences, 2020, 87, 10-23.	6.1	69
2087	Electrochemical determination of 4-nitrophenol in environmental water samples using porous graphitic carbon nitride-coated screen-printed electrode. Environmental Science and Pollution Research, 2020, 27, 17481-17491.	5.3	37
2088	High corrosion resistance of metal-graphene oxide-metal multilayer coatings. Philosophical Magazine, 2020, 100, 18-31.	1.6	7
2089	The Photocatalytic Oxidation of As(III) Enhanced by Surface Alkalinized g-C3N4. Transactions of Tianjin University, 2020, 26, 40-48.	6.4	10
2090	A Theory/Experience Description of Support Effects in Carbon-Supported Catalysts. Chemical Reviews, 2020, 120, 1250-1349.	47.7	436
2091	Graphene oxide effects on the properties of Al2O3-Cu/35W5Cr composite. Journal of Materials Science and Technology, 2020, 37, 185-199.	10.7	23

#	Article	IF	Citations
2092	Hierarchically open-porous nitrogen-incorporated carbon polyhedrons derived from metal-organic frameworks for improved CDI performance. Chemical Engineering Journal, 2020, 382, 122996.	12.7	84
2093	Thiol-functionalized reduced graphene oxide as self-assembled ion-to-electron transducer for durable solid-contact ion-selective electrodes. Talanta, 2020, 208, 120374.	5.5	27
2094	Fabrication of regular macro-mesoporous reduced graphene aerogel beads with ultra-high mechanical property for efficient bilirubin adsorption. Materials Science and Engineering C, 2020, 106, 110282.	7.3	24
2095	Synthesis of a high-temperature stable electrochemically exfoliated graphene. Carbon, 2020, 157, 681-692.	10.3	55
2096	Efficient removal of Cs(I) from aqueous solution using graphene oxide. Progress in Nuclear Energy, 2020, 119, 103167.	2.9	44
2097	The effect of thermal annealing on the magnetic properties of graphene oxide quantum dots. Applied Surface Science, 2020, 501, 144234.	6.1	5
2098	Synergetic effect of graphene and Co(OH)2 as cocatalysts of TiO2 nanotubes for enhanced photogenerated cathodic protection. Journal of Materials Science and Technology, 2020, 37, 55-63.	10.7	36
2099	Ionic liquid assisted mesoporous silica-graphene oxide nanocomposite synthesis and its application for removal of heavy metal ions from water. Materials Chemistry and Physics, 2020, 239, 122028.	4.0	65
2100	Preparation and characterization of polyphenylene sulfide/graphene nanoplatelets composite fibers with enhanced oxidation resistance. High Performance Polymers, 2020, 32, 394-405.	1.8	18
2101	Room temperature ammonia gas sensor using Meta Toluic acid functionalized graphene oxide. Materials Chemistry and Physics, 2020, 240, 121922.	4.0	31
2102	Polyaniline-coated VS4@rGO nanocomposite as high-performance cathode material for magnesium batteries based on Mg2+/Li+ dual ion electrolytes. Ionics, 2020, 26, 777-787.	2.4	18
2103	No genome-wide DNA methylation changes found associated with medium-term reduced graphene oxide exposure in human lung epithelial cells. Epigenetics, 2020, 15, 283-293.	2.7	6
2104	2D water-stable zinc-benzimidazole framework nanosheets for ultrafast and selective removal of heavy metals. Chemical Engineering Journal, 2020, 382, 122658.	12.7	55
2105	Thermally exfoliated graphene oxide for hydrogen storage. Materials Chemistry and Physics, 2020, 239, 122102.	4.0	43
2106	One-step synthesis of monodispersed Pt nanoparticles anchored on 3D graphene foams and its application for electrocatalytic hydrogen evolution. Chinese Chemical Letters, 2020, 31, 1540-1544.	9.0	29
2107	Applications of Graphene and Its Derivatives in Chemical Analysis. Critical Reviews in Analytical Chemistry, 2020, 50, 445-471.	3.5	36
2108	Modified photochemical strategy to support highly-purity, dense and monodisperse Au nanospheres on graphene oxide for optimizing SERS detection. Talanta, 2020, 209, 120535.	5.5	20
2109	Gallium dopant-induced tunable electrical properties of reduced graphene oxide using metal organic chemical vapor deposition. Applied Surface Science, 2020, 504, 144500.	6.1	6

#	Article	IF	Citations
2110	Inorganic 2D Luminescent Materials: Structure, Luminescence Modulation, and Applications. Advanced Optical Materials, 2020, 8, 1900978.	7.3	37
2111	Effective heat dissipation of high-power LEDs through creation of three-dimensional ceramic substrate with kaolin/graphene suspension. Journal of Alloys and Compounds, 2020, 817, 152779.	5.5	11
2112	A flexible, room-temperature and solution-processible copper nanowire based transparent electrode protected by reduced graphene oxide exhibiting high performance and improved stability. Nanotechnology, 2020, 31, 045704.	2.6	8
2113	Microwave-assisted synthesis of a novel CuC2O4âˆ™xH2O/Graphene composite as anode material for lithium ion batteries. Ceramics International, 2020, 46, 1018-1025.	4.8	14
2114	Instantaneous integration of magnetite nanoparticles on graphene oxide assisted by ultrasound for efficient heavy metal ion retrieval. Ultrasonics Sonochemistry, 2020, 64, 104962.	8.2	19
2115	Tailored graphenic structures directly grown on titanium oxide boost the interfacial charge transfer. Applied Surface Science, 2020, 504, 144439.	6.1	4
2116	Stability and Sensing Enhancement by Nanocubic CeO₂ with {100} Polar Facets on Graphene for NO₂ at Room Temperature. ACS Applied Materials & Interfaces, 2020, 12, 4722-4731.	8.0	23
2117	Enhanced charge transport in ReSe₂-based 2D/3D electrodes for efficient hydrogen evolution reaction. Chemical Communications, 2020, 56, 305-308.	4.1	11
2118	Engineering Three-Dimensional (3D) Out-of-Plane Graphene Edge Sites for Highly Selective Two-Electron Oxygen Reduction Electrocatalysis. ACS Catalysis, 2020, 10, 1993-2008.	11.2	106
2119	Electrochemical sensor for detecting dopamine using graphene quantum dots incorporated with multiwall carbon nanotubes. Applied Surface Science, 2020, 508, 145294.	6.1	124
2120	Origin of high photoluminescence yield and high SERS sensitivity of nitrogen-doped graphene quantum dots. Carbon, 2020, 160, 273-286.	10.3	82
2121	Graphene oxide/Fe(III)-based metal-organic framework membrane for enhanced water purification based on synergistic separation and photo-Fenton processes. Applied Catalysis B: Environmental, 2020, 264, 118548.	20.2	162
2122	Adhesion of Bacteria to a Graphene Oxide Film. ACS Applied Bio Materials, 2020, 3, 704-712.	4.6	19
2123	Achieving Significant Thermal Conductivity Enhancement via an Ice-Templated and Sintered BN-SiC Skeleton. ACS Applied Materials & Interfaces, 2020, 12, 2892-2902.	8.0	118
2124	Synthesis and characterization of a high-quality nanocontainer based on benzimidazole-zinc phosphate (ZP-BIM) tailored graphene oxides; a facile approach to fabricating a smart self-healing anti-corrosion system. Journal of Colloid and Interface Science, 2020, 564, 230-244.	9.4	75
2125	Dendriteâ€Free Potassium Metal Anodes in a Carbonate Electrolyte. Advanced Materials, 2020, 32, e1906735.	21.0	107
2126	Two-step synthesis of few layer graphene using plasma etching and atmospheric pressure rapid thermal annealing. Diamond and Related Materials, 2020, 101, 107568.	3.9	1
2127	Carbon nanomaterials. , 2020, , 55-84.		5

#	Article	IF	Citations
2128	Amperometric Ascorbic Acid Sensor Based on Disposable Facial Tissues Derived Carbon Aerogels. Chemical Research in Chinese Universities, 2020, 36, 139-144.	2.6	4
2129	Preparation of Graphene-Co/Ni/Fe₃O₄ Nanocomposites and Their Electrocatalytic Activity for Reduction of p-Nitrophenol. Journal of Nanoscience and Nanotechnology, 2020, 20, 2592-2597.	0.9	3
2130	3D hierarchically porous NiO/Graphene hybrid paper anode for long-life and high rate cycling flexible Li-ion batteries. Journal of Energy Chemistry, 2020, 47, 172-179.	12.9	58
2131	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. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 252, 114454.	3.5	4
2132	Utilizing Cyclic Voltammetry to Understand the Energy Storage Mechanisms for Copper Oxide and its Graphene Oxide Hybrids as Lithiumâ€Ion Battery Anodes. ChemSusChem, 2020, 13, 1504-1516.	6.8	9
2133	Lead bismuth oxybromide/graphene oxide: Synthesis, characterization, and photocatalytic activity for removal of carbon dioxide, crystal violet dye, and 2-hydroxybenzoic acid. Journal of Colloid and Interface Science, 2020, 562, 112-124.	9.4	71
2134	Three-dimensional porous stretchable supercapacitor with wavy structured PEDOT:PSS/graphene electrode. Chemical Engineering Journal, 2020, 392, 123794.	12.7	54
2135	Remarkably promoted photoelectrochemical water oxidation on TiO2 nanowire arrays via polymer-mediated self-assembly of CoOx nanoparticles. Solar Energy Materials and Solar Cells, 2020, 207, 110349.	6.2	26
2136	Improvement of interfacial polarization and impedance matching for two-dimensional leaf-like bimetallic (Co, Zn) doped porous carbon nanocomposites with broadband microwave absorption. Applied Surface Science, 2020, 512, 144894.	6.1	58
2137	Freestanding, Hierarchical, and Porous Bilayered Na_xV₂O₅Â·nH₂O/rGO/CNT Composites as High-Performance Cathode Materials for Nonaqueous K-Ion Batteries and Aqueous Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 706-716.	8.0	82
2138	Flexible Membrane Consisting of MoP Ultrafine Nanoparticles Highly Distributed Inside N and P Codoped Carbon Nanofibers as Highâ€Performance Anode for Potassiumâ€Ion Batteries. Small, 2020, 16, e1905301.	10.0	85
2139	Enhancement of thermal and mechanical performances of epoxy nanocomposite materials based on graphene oxide grafted by liquid crystalline monomer with Schiff base. Journal of Materials Science, 2020, 55, 3712-3727.	3.7	10
2140	Confining Li2S6 catholyte in 3D graphene sponge with ultrahigh total pore volume and oxygen-containing groups for lithium-sulfur batteries. Carbon, 2020, 158, 244-255.	10.3	39
2141	Low cost synthesis of reduced graphene oxide using biopolymer for influenza virus sensor. Materials Science and Engineering C, 2020, 108, 110465.	7.3	66
2142	Algorithm-improved high-speed and non-invasive confocal Raman imaging of 2D materials. National Science Review, 2020, 7, 620-628.	9.5	20
2143	Enhanced the thermal conductivity of flexible copper foil by introducing graphene. Materials and Design, 2020, 187, 108373.	7.0	29
2144	Study of chemical compound spatial distribution in biodegradable active films using NIR hyperspectral imaging and multivariate curve resolution. Journal of Chemometrics, 2020, 34, e3193.	1.3	3
2145	Electrochemical fabrication of Ni nanoparticles-decorated electrochemically reduced graphene oxide composite electrode for non-enzymatic glucose detection. Thin Solid Films, 2020, 693, 137695.	1.8	38

#	Article	IF	Citations
2146	The unusual tribological behavior of diamondâ€like carbon films under high vacuum. Surface and Interface Analysis, 2020, 52, 339-347.	1.8	6
2147	Controlled ultra-thin oxidation of graphite promoted by cobalt oxides: Influence of the initial 2D CoO wetting layer. Applied Surface Science, 2020, 509, 145118.	6.1	8
2148	Structural, functional and magnetic ordering modifications in graphene oxide and graphite by 100ÂMeV gold ion irradiation. Vacuum, 2020, 182, 109700.	3.5	27
2149	Proton-assisted electron transfer and hydrogen-atom diffusion in a model system for photocatalytic hydrogen production. Communications Materials, 2020, 1, 66.	6.9	28
2150	Graphene Oxide â€œSurfactantâ€â€Directed Tunable Concentration of Graphene Dispersion. Small, 2020, 16, e2003426.	10.0	31
2151	Efficient overall water splitting using nickel boride-based electrocatalysts. International Journal of Hydrogen Energy, 2020, 45, 28616-28625.	7.1	19
2152	Rapid microwave-assisted bulk production of high-quality reduced graphene oxide for lithium ion batteries. Materialia, 2020, 13, 100833.	2.7	21
2153	Development of superhydrophillic tannic acid-crosslinked graphene oxide membranes for efficient treatment of oil contaminated water with enhanced stability. Heliyon, 2020, 6, e05127.	3.2	21
2154	Graphene oxide and its chemical nature: Multi-stage interactions between the oxygen and graphene. Surfaces and Interfaces, 2020, 21, 100763.	3.0	35
2155	Fabrication of chitosan/graphene oxide-gadolinium nanorods as a novel nanocomposite for arsenic removal from aqueous solutions. Journal of Molecular Liquids, 2020, 320, 114410.	4.9	40
2156	Iron nanoparticle templates for constructing 3D graphene framework with enhanced performance in sodium-ion batteries. Nanoscale, 2020, 12, 21780-21787.	5.6	9
2157	Fabrication of layered double hydroxide/carbon nanomaterial for heavy metals removal. Applied Clay Science, 2020, 199, 105867.	5.2	18
2159	An overview on corrosion of iron and steel components in reclaimed water supply systems and the mechanisms involved. Journal of Cleaner Production, 2020, 276, 124079.	9.3	29
2160	Performance of montmorillonite/graphene oxide/CoFe2O4 as a magnetic and recyclable nanocomposite for cleaning methyl violet dye-laden wastewater. Advanced Powder Technology, 2020, 31, 3993-4004.	4.1	83
2161	Metal-cation-modified graphene oxide membranes for water permeation. Carbon, 2020, 170, 646-657.	10.3	35
2162	Synthesis of graphene oxide from graphite by ball milling. Diamond and Related Materials, 2020, 109, 108064.	3.9	51
2163	How Do the Coadsorbates Affect the Oxygen Reduction Reaction Activity of Undoped and N-Doped Graphene Nanoribbon Edges? A Density Functional Theory Study. Journal of Physical Chemistry C, 2020, 124, 23177-23189.	3.1	6
2164	Improving the Performance of Printable Carbon Electrodes by Femtosecond Laser Treatment. Journal of Carbon Research, 2020, 6, 48.	2.7	3

#	Article	IF	Citations
2165	Flowâ€induced microchannel structure of the grapheneâ€based aerogel microspheres and their use as superabsorbents. Polymers for Advanced Technologies, 2020, 31, 2789-2796.	3.2	5
2166	The fabrication of an electrochemical sensing interface based on Pt nanoparticles/MoS₂/graphene nanocomposite for sensitive detection of binaphthol. International Journal of Environmental Analytical Chemistry, 2022, 102, 4897-4908.	3.3	4
2167	Graphene/CuO₂ Nanoshuttles with Controllable Release of Oxygen Nanobubbles Promoting Interruption of Bacterial Respiration. ACS Applied Materials & Interfaces, 2020, 12, 35813-35825.	8.0	124
2168	Synthesis of graphene oxide with a lower band gap and study of charge transfer interactions with perylenediimide. New Journal of Chemistry, 2020, 44, 12704-12714.	2.8	9
2169	Enhanced water oxidation activity of 3D porous carbon by incorporation of heterogeneous Ni/NiO nanoparticles. Applied Surface Science, 2020, 530, 147192.	6.1	24
2170	Isomerization behavior of p-aminoazobenzene directly anchored on MoS2/graphene oxide nanocomposite. Applied Surface Science, 2020, 530, 147216.	6.1	4
2171	rGO/persulfate metal-free catalytic system for the degradation of tetracycline: effect of reaction parameters. Materials Research Express, 2020, 7, 075501.	1.6	22
2172	Thermally reduced graphene oxide showing n- to p-type electrical response inversion with water adsorption. Applied Surface Science, 2020, 531, 147285.	6.1	12
2173	Chemical versus electrochemical: What is the best synthesis method to ternary GO/WO3NW/PAni nanocomposites to improve performance as supercapacitor?. Electrochimica Acta, 2020, 356, 136786.	5.2	12
2174	Sucrose-based reticulated vitreous carbon foams and their modification with nickel hexacyanoferrate for energy storage applications. Diamond and Related Materials, 2020, 109, 108084.	3.9	14
2175	In situ reduction of graphitic oxide by amorphization of magnesium diboride for the superior thermo-optical property based nanofluid applications. Materials Today Chemistry, 2020, 18, 100354.	3.5	0
2176	Free-Standing Graphene Oxide and Carbon Nanotube Hybrid Papers with Enhanced Electrical and Mechanical Performance and Their Synergy in Polymer Laminates. International Journal of Molecular Sciences, 2020, 21, 8585.	4.1	7
2177	Graphene Oxide Array for In-Depth Soil Moisture Sensing toward Optimized Irrigation. ACS Applied Electronic Materials, 2020, 2, 4111-4121.	4.3	12
2178	The processing and analysis of graphene and the strength enhancement effect of graphene-based filler materials: A review. Materials Today Physics, 2020, 15, 100257.	6.0	37
2179	Agar-reduced graphene oxide selectively adsorbs organic dyes and strengthens double-network hydrogels. RSC Advances, 2020, 10, 29287-29295.	3.6	4
2180	Graphite Oxide: A Simple and Reproducible Synthesis Route. , 0, , .		1
2181	Oneâ€pot Electrochemical Synthesis of Ni Nanoparticlesâ€decorated Electroreduced Graphene Oxide for Improved NADH Sensing. Electroanalysis, 2020, 32, 2323-2329.	2.9	10
2182	Electron mobility modulation in graphene oxide by controlling carbon melt lifetime. Carbon, 2020, 170, 327-337.	10.3	32

#	Article	IF	Citations
2183	Development of Mn-PBA on GO sheets for adsorptive removal of ciprofloxacin from water: Kinetics, isothermal, thermodynamic and mechanistic studies. Materials Chemistry and Physics, 2020, 245, 122737.	4.0	62
2184	Effect of Graphene Oxide on Interfacial Interactions and Fracture Toughness of Basalt Fiber-Reinforced Epoxy Composites. Journal of Nanoscience and Nanotechnology, 2020, 20, 6760-6767.	0.9	9
2185	Synthesis and characterization of GO-H3BO3 composite for improving single-sensor impedimetric olfaction. Journal of Materials Science: Materials in Electronics, 2020, 31, 14443-14453.	2.2	2
2186	Synthesis, characterization and flocculation performance of a novel sodium alginate-based flocculant. Carbohydrate Polymers, 2020, 248, 116790.	10.2	35
2187	An investigation of recombination processes in liquid junction solar cells by transient photocurrent measurements. Optik, 2020, 210, 164609.	2.9	4
2188	Rapid synthesis of high-areal-capacitance ultrathin hexagon Fe₂O₃ nanoplates on carbon cloth via a versatile molten salt method. Materials Chemistry Frontiers, 2020, 4, 2744-2753.	5.9	22
2190	Observation of Distribution of Ï€-Orbital-Oriented Domains in PAN- and Pitch-Based Carbon Fibers Using Scanning Transmission X-ray Microscopy. Applied Sciences (Switzerland), 2020, 10, 4836.	2.5	1
2191	The coordination of Al on pyridinic-N doped graphene as electrons reservoir for efficiently catalyzing CO oxidization. Applied Surface Science, 2020, 531, 147310.	6.1	16
2192	Functionalization of Graphene Oxide with Porphyrins: Synthetic Routes and Biological Applications. ChemPlusChem, 2020, 85, 1857-1880.	2.8	31
2193	Novelty g-C3N4/HAp composite as highly effective photocatalyst for Cr (VI) photoreduction. Catalysis Today, 2022, 388-389, 168-175.	4.4	16
2194	Bifunctional NaCl template for the synthesis of Si@graphitic carbon nanosheets as advanced anode materials for lithium ion batteries. New Journal of Chemistry, 2020, 44, 14278-14285.	2.8	8
2195	Stable Potassium Metal Anodes with an Allâ€Aluminum Current Collector through Improved Electrolyte Wetting. Advanced Materials, 2020, 32, e2002908.	21.0	70
2196	Using cellulose nanocrystals for graphene/hexagonal boron nitride nanosheet films towards efficient thermal management with tunable electrical conductivity. Composites Part A: Applied Science and Manufacturing, 2020, 138, 106089.	7.6	5
2197	2D/3D heterostructure of h-BN/reduced graphite oxide as a remarkable electrode Material for supercapacitor. Journal of Power Sources, 2020, 479, 229092.	7.8	34
2198	Functional graphene-based nanodevices: emerging diagnostic tool. , 2020, , 85-112.		8
2199	On the Investigation of Microstructured Charcoal as an ANFO Blasting Enhancer. Energies, 2020, 13, 4681.	3.1	7
2200	Effect of different nitric acid concentrations on manganese/activated carbon-modified catalysts for the catalytic ozonation of toluene. Catalysis Science and Technology, 2020, 10, 6729-6737.	4.1	13
2201	Recent advances in graphene oxide and reduced graphene oxide based nanocomposites for the photodegradation of dyes. Journal of Materials Chemistry C, 2020, 8, 15940-15955.	5.5	98

#	Article	IF	Citations
2202	Shearâ€Induced Interfacial Structural Conversion of Graphene Oxide to Graphene at Macroscale. Advanced Functional Materials, 2020, 30, 2004498.	14.9	24
2203	A Brief Description of Cyclic Voltammetry Transducer-Based Non-Enzymatic Glucose Biosensor Using Synthesized Graphene Electrodes. Applied System Innovation, 2020, 3, 32.	4.6	23
2204	Triggering a Self-Sustaining Reduction of Graphenes Oxide for High-Performance Energy Storage Devices. ACS Applied Nano Materials, 2020, 3, 9117-9126.	5.0	7
2205	Electrocatalytic Investigation of M@Pd (M=Ni, Co, Cu) Coreâ€Shell Nanostructure Supported on N, Sâ€Doped Reduced Graphene Oxide towards Hydrogen and Oxygen Evolution Reaction. ChemistrySelect, 2020, 5, 9989-9998.	1.5	8
2206	Acetylation of graphite oxide. Physical Chemistry Chemical Physics, 2020, 22, 21059-21067.	2.8	2
2207	Graphene oxide sponge as adsorbent for organic contaminants: comparison with granular activated carbon and influence of water chemistry. Environmental Science: Nano, 2020, 7, 2669-2680.	4.3	24
2208	Influence of Oxidation Degree of Graphene Oxide on Its Nuclear Relaxivity and Contrast in MRI. ACS Omega, 2020, 5, 22131-22139.	3.5	8
2209	Graphene Oxide-Based Silico-Phosphate Composite Films for Optical Limiting of Ultrashort Near-Infrared Laser Pulses. Nanomaterials, 2020, 10, 1638.	4.1	8
2210	A Novel Photocatalyst Composite of Magnesium Aminoclay and TiO₂ Immobilized into Activated Carbon Fiber (ACF) Matrix for Pollutant Removal. Journal of Nanoscience and Nanotechnology, 2020, 20, 6844-6849.	0.9	9
2211	Chemical vapor crosslinking of graphene oxide membranes for controlling nanochannels. Environmental Science: Nano, 2020, 7, 2924-2929.	4.3	16
2212	Surface-Modified Ultrathin InSe Nanosheets with Enhanced Stability and Photoluminescence for High-Performance Optoelectronics. ACS Nano, 2020, 14, 11373-11382.	14.6	34
2213	Control of Graphene Heteroatoms in a Microball Si@Graphene Composite Anode for High-Energy-Density Lithium-Ion Full Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 18936-18946.	6.7	14
2214	Graphene Oxide-Based Nanohybrids as Pesticide Biosensors: Latest Developments. , 0, , .		1
2215	Selective nitrogen doping of graphene due to preferential healing of plasma-generated defects near grain boundaries. Npj 2D Materials and Applications, 2020, 4, .	7.9	8
2216	Reduction of graphene oxide foils by IR laser irradiation in air. Journal of Instrumentation, 2020, 15, C03006-C03006.	1.2	6
2217	Plasmonic nitriding of graphene on a graphite substrate via gold nanoparticles and NH3/Ar plasma. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	1
2218	A water-based process for the surface functionalisation of ceramic fibres. Green Chemistry, 2020, 22, 8308-8315.	9.0	2
2219	Synergistic Effect of Graphene/Silver Nanowire Hybrid Fillers on Highly Stretchable Strain Sensors Based on Spandex Composites. Nanomaterials, 2020, 10, 2063.	4.1	13

#	Article	IF	Citations
2220	Development of heterojunction in N-rGO supported bismuth ferrite photocatalyst for degradation of Rhodamine B. Inorganic Chemistry Communication, 2020, 117, 107945.	3.9	28
2221	Tunable Wettability and Conductivity of the Graphene Oxide Surface with Insights from Density Functional Theory and Molecular Dynamics Investigations. Journal of Physical Chemistry C, 2020, 124, 10541-10549.	3.1	13
2222	Quantitative understanding of the ultra-sensitive and selective detection of dopamine using a graphene oxide/WS₂ quantum dot hybrid. Journal of Materials Chemistry C, 2020, 8, 7935-7946.	5.5	10
2223	Laser and ion beams graphene oxide reduction for microelectronic devices. Radiation Effects and Defects in Solids, 2020, 175, 226-240.	1.2	4
2224	Construction of a unique anti-corrosion nanocomposite based on graphene oxide@Zn3PO4/epoxy; experimental characterization and detailed-theoretical quantum mechanics (QM) investigations. Construction and Building Materials, 2020, 256, 119439.	7.2	20
2225	Synthesis of Titanium Dioxide (TiO2)/Reduced Graphene Oxide (rGO) thin film composite by spray pyrolysis technique and its physical properties. Materials Science in Semiconductor Processing, 2020, 116, 105140.	4.0	36
2226	Functionalized Graphene Nanoparticles Induce Human Mesenchymal Stem Cells to Express Distinct Extracellular Matrix Proteins Mediating Osteogenesis . International Journal of Nanomedicine, 2020, Volume 15, 2501-2513.	6.7	27
2227	Biomimetic Synthesis of Copper/Polydopamineâ€Functionalized Oxygenated Carbon Nitride Composites and Their Application as Lubricants. ChemistrySelect, 2020, 5, 4839-4847.	1.5	7
2228	Hydrothermal Synthesis of rGO-TiO2 Composites as High-Performance UV Photocatalysts for Ethylparaben Degradation. Catalysts, 2020, 10, 520.	3.5	71
2229	Influence of order degree of coaly graphite on its structure change during preparation of graphene oxide. Journal of Materiomics, 2020, 6, 628-641.	5.7	23
2230	Graphene Quantum Dot Oxidation Governs Noncovalent Biopolymer Adsorption. Scientific Reports, 2020, 10, 7074.	3.3	36
2231	N-doped carbon nanofibers from pyrolysis of free-base phthalocyanine. Diamond and Related Materials, 2020, 105, 107812.	3.9	2
2232	Hybrid Solâ€"Gel Silica Coatings Containing Graphene Nanosheets for Improving the Corrosion Protection of AA2024-T3. Nanomaterials, 2020, 10, 1050.	4.1	11
2233	Re-Oxidation of ZnO Clusters Grown on HOPG. Coatings, 2020, 10, 401.	2.6	4
2234	Optimized assembling of MOF/SnO2/Graphene leads to superior anode for lithium ion batteries. Nano Energy, 2020, 74, 104868.	16.0	116
2235	Laser ignited combustion of graphene oxide/nitrocellulose membranes for solid propellant micro thruster and solar water distillation. Carbon, 2020, 166, 138-147.	10.3	38
2236	Graphene Oxide and Vermiculite Clay Combinations to Produce Enhanced Flame Retardant Polypropylene Composite with Low Magnesium Hydroxide Loading. Journal of Vinyl and Additive Technology, 2020, 26, 586-600.	3.4	13
2237	Unconventional chemical graphitization and functionalization of graphene oxide toward nanocomposites by degradation of ZnSe[DETA]0.5 hybrid nanobelts. Science China Materials, 2020, 63, 1878-1888.	6.3	1

#	Article	IF	Citations
2238	A novel way for high value-added application of lignosulfonate: Producing lignosulfonate nanosheets/graphene ultrathin film electrodes for electrochemical capacitors. International Journal of Biological Macromolecules, 2020, 161, 666-673.	7.5	2
2239	Self-Planarization of High-Performance Graphene Liquid Crystalline Fibers by Hydration. ACS Central Science, 2020, 6, 1105-1114.	11.3	16
2240	Microwave exfoliated graphene-based materials for flexible solid-state supercapacitor. Journal of Molecular Structure, 2020, 1220, 128710.	3.6	23
2241	Covalent coupling regulated thermal conductivity of poly(vinyl alcohol)/boron nitride composite film based on silane molecular structure. Composites Part A: Applied Science and Manufacturing, 2020, 137, 106026.	7.6	33
2242	Electrochemical sensors based on nitrogen-doped reduced graphene oxide for the simultaneous detection of ascorbic acid, dopamine and uric acid. Journal of Alloys and Compounds, 2020, 842, 155873.	5.5	111
2243	Mechanism of sonication time on structure and adsorption properties of 3D peanut shell/graphene oxide aerogel. Science of the Total Environment, 2020, 739, 139983.	8.0	24
2244	Applications of Raman spectroscopy in two-dimensional materials. Journal of Innovative Optical Health Sciences, 2020, 13, .	1.0	10
2245	A comparative study of dirac 2D materials, TMDCs and 2D insulators with regard to their structures and photocatalytic/sonophotocatalytic behavior. Applied Nanoscience (Switzerland), 2020, 10, 3875-3899.	3.1	47
2246	Tuning the nitrogen content of carbon dots in carbon nitride nanoflakes. Carbon, 2020, 167, 230-243.	10.3	15
2247	Preparation of graphene/Fe3O4 composite varnish with excellent corrosion-resistant and electromagnetic shielding properties. Ceramics International, 2020, 46, 22876-22882.	4.8	10
2248	Large-sized graphene oxide synergistically enhances parenchymal hepatocyte IL-6 expression monitored by dynamic imaging. Nanoscale, 2020, 12, 8147-8158.	5.6	12
2249	Characterization of structural transformation of graphene oxide to reduced graphene oxide during thermal annealing. Journal of Materials Research, 2020, 35, 1197-1204.	2.6	32
2250	Dual-mode response behavior of a graphene oxide implanted energetic system under different thermal stimuli. RSC Advances, 2020, 10, 10789-10798.	3.6	7
2251	Three-Dimensional PrGO-Based Sandwich Composites With MoS2 Flowers as Stuffings for Superior Lithium Storage. Frontiers in Chemistry, 2020, 8, 94.	3.6	1
2252	Interface treatment using amorphous-carbon and its applications. Scientific Reports, 2020, 10, 4093.	3.3	3
2253	Fabrication of superelastic and highly conductive graphene aerogels by precisely â€œunlockingâ€•the oxygenated groups on graphene oxide sheets. Carbon, 2020, 162, 552-561.	10.3	18
2254	Carbonized Dehydroascorbic Acid: Aim for Targeted Repair of Graphene Defects and Bridge Connection of Graphene Sheets with Small Size. Nanomaterials, 2020, 10, 531.	4.1	9
2255	Effect of Functionalized Carbon Microspheres Combined with Ammonium Polyphosphate on Fire Safety Performance of Thermoplastic Polyurethane. ACS Omega, 2020, 5, 6051-6061.	3.5	12

#	Article	IF	Citations
2256	Gas Sensing Properties of Cobalt Titanate with Multiscale Pore Structure: Experiment and Simulation. Sensors, 2020, 20, 1787.	3.8	1
2257	Enhanced Oxygen Reduction Reaction by Pdâ€Pt Alloy Catalyst with Stabilized Platinum Skin. ChemistrySelect, 2020, 5, 3486-3493.	1.5	12
2258	Structure and chemistry of graphene oxide in liquid water from first principles. Nature Communications, 2020, 11, 1566.	12.8	169
2259	Preparation of Desensitizing CLâ€20/rGO Composites by inâ€situ Reduction. Propellants, Explosives, Pyrotechnics, 2020, 45, 1293-1299.	1.6	14
2260	Bioinspired Ultrastrong Nanocomposite Membranes for Salinity Gradient Energy Harvesting from Organic Solutions. Advanced Energy Materials, 2020, 10, 1904098.	19.5	48
2261	Superhydrophobic nickel/carbon coreâ€"shell nanocomposites for the hydrogen transfer reactions of nitrobenzene and N-heterocycles. Green Chemistry, 2020, 22, 1996-2010.	9.0	26
2262	Insight into the effect of graphite grain sizes on the morphology, structure and electrical properties of reduced graphene oxide. Journal of Materials Research and Technology, 2020, 9, 7059-7067.	5.8	26
2263	Chemical and Temperature Sensors Based on Functionalized Reduced Graphene Oxide. Chemosensors, 2020, 8, 43.	3.6	5
2264	Single-Step Preparation of Graphene Oxide Transparent Electrode by PECVD and its Application in a Fast-Response UV-A-Selective Pyrophototronic Device. Journal of Electronic Materials, 2020, 49, 5467-5477.	2.2	7
2265	Nanoscale CuFe2O4 monodispersedly anchored on reduced graphene oxide as excellent peroxydisulfate catalyst for removal of gaseous elemental mercury. Chemical Engineering Journal, 2020, 401, 126101.	12.7	45
2266	Nanoadsorbents and nanoporous materials for the food industry. , 2020, , 107-159.		4
2267	Study of highly porous ZnO nanospheres embedded reduced graphene oxide for high performance supercapacitor application. Electrochimica Acta, 2020, 354, 136675.	5.2	24
2268	Superior X-ray Radiation Shielding Effectiveness of Biocompatible Polyaniline Reinforced with Hybrid Graphene Oxide-Iron Tungsten Nitride Flakes. Polymers, 2020, 12, 1407.	4.5	43
2270	Paleoenvironmental interpretations of Irati and Mangrullo Formations (Permian of ParanÃ¡ Basin) based on rocks and fossil bones through spectroscopy techniques. Vibrational Spectroscopy, 2020, 110, 103110.	2.2	1
2271	Co/Ni-MOF-74-derived CoNi₂S₄ nanoparticles embedded in porous carbon as a high performance anode material for sodium ion batteries. New Journal of Chemistry, 2020, 44, 13141-13147.	2.8	10
2272	Synthesis of selfâ€assembled and porous nano titaniaâ€graphene oxide hybrids for toughening the epoxy. Polymer Composites, 2020, 41, 4093-4103.	4.6	14
2273	Surface functionalization of graphene oxide using amino silane magnetic nanocomposite for Chromium (VI) removal and bacterial treatment. Nano Express, 2020, 1, 010062.	2.4	24
2274	Strontium-substituted hydroxyapatite grown on graphene oxide nanosheet-reinforced chitosan scaffold to promote bone regeneration. Biomaterials Science, 2020, 8, 4603-4615.	5.4	36

#	Article	IF	Citations
2275	A Comparative Study of the ZnO Growth on Graphene and Graphene Oxide: The Role of the Initial Oxidation State of Carbon. Journal of Carbon Research, 2020, 6, 41.	2.7	12
2276	N-Graphitic Modified Cobalt Nanoparticles Supported on Graphene for Tandem Dehydrogenation of Ammoniaâ€"Borane and Semihydrogenation of Alkynes. ACS Sustainable Chemistry and Engineering, 2020, 8, 11058-11068.	6.7	20
2277	Study on the tribological properties of graphene oxide composite films by self-assembly. Tribology International, 2020, 151, 106533.	5.9	13
2278	Bi2O3/rGO/MonO3n-1 all-solid-state ternary Z-scheme for visible-light driven photocatalytic degradation of bisphenol A and acetaminophen in groundwater. Journal of Environmental Chemical Engineering, 2020, 8, 104170.	6.7	14
2279	Effect of surface area and physicalâ€"chemical properties of graphite and graphene-based materials on their adsorption capacity towards metronidazole and trimethoprim antibiotics in aqueous solution. Chemical Engineering Journal, 2020, 402, 126155.	12.7	67
2280	Fabricating C and O co-doped carbon nitride with intramolecular donor-acceptor systems for efficient photoreduction of CO2 to CO. Applied Catalysis B: Environmental, 2020, 268, 118736.	20.2	130
2281	Controlled oxygen functional groups on reduced graphene using rate of temperature for advanced sorption process. Journal of Environmental Chemical Engineering, 2020, 8, 103749.	6.7	21
2282	Low-temperature acoustic-based activation of biochar for enhanced removal of heavy metals. Journal of Water Process Engineering, 2020, 34, 101166.	5.6	35
2283	Electron transfer mechanism of graphene/Cu heterostructure for improving the stability of triboelectric nanogenerators. Nano Energy, 2020, 70, 104540.	16.0	42
2284	Direct Growth of Wafer-Scale, Transparent, p-Type Reduced-Graphene-Oxide-like Thin Films by Pulsed Laser Deposition. ACS Nano, 2020, 14, 3290-3298.	14.6	20
2285	Development of nanohybrids based on porous spinel MCo2O4 (MÂ=ÂZn, Cu, Ni and Mn)/reduced graphene oxide/carbon nanotube as promising electrodes for high performance energy storage devices. Applied Surface Science, 2020, 513, 145781.	6.1	31
2286	Reduced graphene oxide composites and its real-life application potential for in-situ crude oil removal. Chemosphere, 2020, 249, 126141.	8.2	24
2287	Direct Coupling of Phthalocyanine Cobalt(II) and Graphene via Self-Driven Layer-by-Layer Assembly for Efficient Electrochemical Detection of Catechol. Journal of the Electrochemical Society, 2020, 167, 027533.	2.9	7
2288	Low Li ion diffusion barrier on low-crystalline FeOOH nanosheets and high performance of energy storage. Nano Research, 2020, 13, 759-767.	10.4	20
2289	Stability, thermophysical and electrical properties of synthesized carbon nanofiber and reduced-graphene oxide-based nanofluids and their hybrid along with fuzzy modeling approach. Powder Technology, 2020, 364, 795-809.	4.2	87
2290	Effect of a graphene oxide intermediate layer in Cu₂ZnSn(S,Se)₄ solar cells. Journal of Materials Chemistry A, 2020, 8, 4920-4930.	10.3	21
2291	Resistance spot welding of dissimilar AISI-1008 steel/Al-1100 alloy lap joints with a graphene interlayer. Journal of Manufacturing Processes, 2020, 53, 260-274.	5.9	37
2292	Photoluminescence from carbon structures grown by inductively coupled plasma chemical vapor deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	5

#	Article	IF	Citations
2293	Enhanced lithium ion storage in dual carbon decorated Î²-Ga2O3 rendered by improved reaction kinetics. Journal of Alloys and Compounds, 2020, 828, 154484.	5.5	14
2294	PET/Graphene Compatibilization for Different Aspect Ratio Graphenes via Trimellitic Anhydride Functionalization. ACS Omega, 2020, 5, 3228-3239.	3.5	16
2295	One-Pot-Synthesized CoFe-Glycerate Hollow Spheres with Rich Oxyhydroxides for Efficient Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 5464-5477.	6.7	31
2296	Reduced graphene-oxide filter system for removing filterable and condensable particulate matter from source. Journal of Hazardous Materials, 2020, 391, 122223.	12.4	12
2297	Aerosol-Jet-Printed Graphene Immunosensor for Label-Free Cytokine Monitoring in Serum. ACS Applied Materials & Interfaces, 2020, 12, 8592-8603.	8.0	87
2298	Preparation of Hydrophobic PPy Coated V₂O₅ Yolkâ€“Shell Nanospheres-Based Cathode Materials with Excellent Cycling Performance. ACS Applied Energy Materials, 2020, 3, 2791-2802.	5.1	17
2299	Fabrication of graphene oxide wrapped Ti/Co₃O₄ nanowire photoanode and its superior photoelectrocatalytic performance. Nanotechnology, 2020, 31, 225303.	2.6	4
2300	Preparation and microwave absorption properties of carbon nanotubes/iron oxide/polypyrrole/carbon composites. Synthetic Metals, 2020, 260, 116282.	3.9	37
2301	Effect of Mating Material and Graphitization on Wear of a-C:H Coating in Boundary Base Oil Lubrication. Tribology Letters, 2020, 68, 1.	2.6	32
2302	Divalent heavy metal ions removal from contaminated water using positively charged membrane prepared from a new carbon nanomaterial and HPEI. Chemical Engineering Journal, 2020, 388, 124192.	12.7	89
2303	A dense graphene monolith with poloxamer prefunctionalization enabling aqueous redispersion to obtain solubilized graphene sheets. Chinese Chemical Letters, 2020, 31, 2507-2511.	9.0	6
2304	Intrinsically microstructured graphene aerogel exhibiting excellent mechanical performance and super-high adsorption capacity. Carbon, 2020, 161, 146-152.	10.3	27
2305	Pyrolysis mechanisms of graphene oxide revealed by ReaxFF molecular dynamics simulation. Applied Surface Science, 2020, 509, 145247.	6.1	33
2306	Graphene oxide as a radiation sensitive material for XPS dosimetry. Vacuum, 2020, 173, 109175.	3.5	64
2307	Influence of graphene oxide nanosheets on the cotransport of cu-tetracycline multi-pollutants in saturated porous media. Environmental Science and Pollution Research, 2020, 27, 10846-10856.	5.3	13
2308	Critical effect of carbon vacancies on the reverse water gas shift reaction over vanadium carbide catalysts. Applied Catalysis B: Environmental, 2020, 267, 118719.	20.2	69
2309	Solutionâ€Processable 2D Materials Applied in Lightâ€Emitting Diodes and Solar Cells. Advanced Materials Technologies, 2020, 5, 1900972.	5.8	40
2310	Direct Interspecies Electron Transfer Mediated by Graphene Oxide-Based Materials. Frontiers in Microbiology, 2019, 10, 3068.	3.5	28

#	Article	IF	Citations
2311	Extraordinary activity of mesoporous carbon supported Ru toward the hydrogen oxidation reaction in alkaline media. Journal of Power Sources, 2020, 461, 228147.	7.8	44
2312	Absolute determination of low-energy X-ray emission rates with a proportional counter. Applied Radiation and Isotopes, 2020, 160, 109113.	1.5	2
2313	Thermal analysis of carbon nanomaterials: advantages and problems of interpretation. Journal of Thermal Analysis and Calorimetry, 2020, 142, 349-370.	3.6	64
2314	Local current mapping of electrochemically-exfoliated graphene oxide by conductive AFM. Japanese Journal of Applied Physics, 2020, 59, SN1001.	1.5	4
2315	Spray dryer processed graphene oxide/reduced graphene oxide for highâ€performance supercapacitor. International Journal of Applied Ceramic Technology, 2020, 17, 1899-1908.	2.1	4
2316	Semiconducting carbon nanotube fibers for electrochemical biosensor platforms. Materials and Design, 2020, 192, 108740.	7.0	12
2317	Controlling Longâ€Distance Photoactuation with Protein Additives. Small, 2020, 16, e2000043.	10.0	17
2318	Superior removal of inorganic and organic arsenic pollutants from water with MIL-88A(Fe) decorated on cotton fibers. Chemosphere, 2020, 254, 126829.	8.2	93
2319	Facile synthesis of high-performance carbon nanosheet/Cu composites from copper formate. Carbon, 2020, 165, 349-357.	10.3	17
2320	Magnetite-graphene oxide nanocomposites: Facile synthesis and characterization of optical and magnetic property. Materials Today: Proceedings, 2020, 30, 17-22.	1.8	7
2321	Tuning the Physicochemical Structure of Graphene Oxide by Thermal Reduction Temperature for Improved Stabilization Ability toward Polymer Degradation. Journal of Physical Chemistry C, 2020, 124, 8999-9008.	3.1	9
2322	Layer-by-layer stacked graphene nanocoatings by Marangoni self-assembly for corrosion protection of stainless steel. Chinese Chemical Letters, 2021, 32, 501-505.	9.0	15
2323	Interfacial reactions in graphene oxide/polyacrylonitrile composite films. Composite Interfaces, 2021, 28, 159-173.	2.3	6
2324	Mechanical, thermal and dielectric studies of reduced graphene oxide reinforced cardanol based polybenzoxazine/epoxy nanocomposites. Composite Interfaces, 2021, 28, 461-476.	2.3	6
2325	Correlating the gradient nitrogen doping and electromagnetic wave absorption of graphene at gigahertz. Journal of Alloys and Compounds, 2021, 854, 157113.	5.5	20
2326	Construction of silver nanoparticles anchored in carbonized bacterial cellulose with enhanced antibacterial properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 611, 125845.	4.7	11
2327	A novel lapping process for single-crystal sapphire using hybrid nanoparticle suspensions. International Journal of Mechanical Sciences, 2021, 191, 106099.	6.7	26
2328	Thermal oxidation of graphite as the first step for graphene preparation: effect of heating temperature and time. Journal of Materials Science, 2021, 56, 3675-3691.	3.7	10

#	Article	IF	Citations
2329	Synthesis, characterization and electrochemical assessment of hexagonal molybdenum trioxide (h-MoO3) micro-composites with graphite, graphene and graphene oxide for lithium ion batteries. Electrochimica Acta, 2021, 365, 137355.	5.2	29
2330	Dispersion of graphene in ethanol by sonication. Materials Today: Proceedings, 2021, 37, 4027-4030.	1.8	13
2331	Highâ€flux <scp>PVDF</scp>/<scp>PVP</scp> nanocomposite ultrafiltration membrane incorporated with graphene oxide nanoribbones with improved antifouling properties. Journal of Applied Polymer Science, 2021, 138, 49718.	2.6	48
2332	Study on the physico-chemical properties of reduced graphene oxide with different degrees of reduction temperature. Journal of the Iranian Chemical Society, 2021, 18, 201-211.	2.2	12
2333	Microwave-prepared mesoporous graphene as adsorbent and matrix of surface-assisted laser desorption/ionization mass spectrometry for the enrichment and rapid detection of polyphenols in biological samples. Talanta, 2021, 222, 121365.	5.5	11
2334	Improving the hydrostability of ZIF-8 membrane by biomolecule towards enhanced nanofiltration performance for dye removal. Journal of Membrane Science, 2021, 618, 118630.	8.2	52
2335	Graphene film for thermal management: A review. Nano Materials Science, 2021, 3, 1-16.	8.8	59
2336	Cu/graphene hybrid transparent conducting electrodes for organic photovoltaic devices. Carbon, 2021, 171, 341-349.	10.3	33
2337	Highly flame-retardant epoxy-based thermal conductive composites with functionalized boron nitride nanosheets exfoliated by one-step ball milling. Chemical Engineering Journal, 2021, 407, 127099.	12.7	131
2338	Hexagonal ZnO nanoplates/graphene composites with excellent sensing performance to NO2 at room temperature. Applied Surface Science, 2021, 537, 147785.	6.1	37
2339	Recent advances in graphene-based nanobiosensors for salivary biomarker detection. Biosensors and Bioelectronics, 2021, 171, 112723.	10.1	51
2340	Synthesis of layered 2Hâ€"MoSe2 nanosheets for the high-performance supercapacitor electrode material. Journal of Alloys and Compounds, 2021, 857, 157522.	5.5	50
2341	Ï€-Ï€ stacked iron (II) phthalocyanine/graphene oxide composites: rational fabrication and excellent supercapacitor properties with superior rate performance. Journal of Solid State Electrochemistry, 2021, 25, 659-670.	2.5	7
2342	Electrochemical sensor based on rGO/Au nanoparticles for monitoring H2O2 released by human macrophages. Sensors and Actuators B: Chemical, 2021, 327, 128901.	7.8	79
2343	Graphitic carbon nitride/biochar composite synthesized by a facile ball-milling method for the adsorption and photocatalytic degradation of enrofloxacin. Journal of Environmental Sciences, 2021, 103, 93-107.	6.1	51
2344	Eco-friendly synthesis of graphene oxideâ€"silver nanoparticles hybrids: The effect of amine derivatization. Diamond and Related Materials, 2021, 111, 108208.	3.9	7
2345	Effects of deposition temperatures on the supercapacitor cathode performances of GO:SnSbS/Si thin films. Journal of Energy Storage, 2021, 33, 102116.	8.1	9
2346	A graphene oxide Cookbook: Exploring chemical and colloidal properties as a function of synthesis parameters. Journal of Colloid and Interface Science, 2021, 588, 725-736.	9.4	11

#	Article	IF	Citations
2347	Centrifugally spun TiO2/C composite fibers prepared from TiS2/PAN precursor fibers as binder-free anodes for LIBS. Journal of Physics and Chemistry of Solids, 2021, 149, 109795.	4.0	14
2348	Fluorescence probing of binding sites on graphene oxide nanosheets with Oxazine 1 dye. Applied Surface Science, 2021, 541, 148451.	6.1	10
2349	Lactone radical transformed methyl mercaptan-adsorbed activated carbon into graphene oxide modified activated carbon. Journal of Hazardous Materials, 2021, 413, 124527.	12.4	10
2350	Effect of Ti on crystal transition and solid solution characteristics of white Portland cement clinker. Advances in Cement Research, 2021, 33, 304-310.	1.6	4
2351	Green energy application technology of litchi pericarp-derived carbon material with high performance. Journal of Cleaner Production, 2021, 286, 124960.	9.3	18
2352	Solvent-free functionalization of graphene oxide powder and paper with aminobenzo-crown ethers and complexation with alkali metal cations. Materials Chemistry and Physics, 2021, 260, 124127.	4.0	14
2353	A Review on Graphene Oxide Two-dimensional Macromolecules: from Single Molecules to Macro-assembly. Chinese Journal of Polymer Science (English Edition), 2021, 39, 267-308.	3.8	29
2354	Yolkâ€"Shell Cu₂O@CuOâ€decorated RGO for Highâ€Performance Lithiumâ€Ion Battery Anode. Energy and Environmental Materials, 2022, 5, 253-260.	12.8	37
2355	A one-step approach to green and scalable production of graphene inks for printed flexible film heaters. Materials Chemistry Frontiers, 2021, 5, 1895-1905.	5.9	12
2356	Understanding Excess Li Storage beyond LiC₆ in Reduced Dimensional Scale Graphene. ACS Nano, 2021, 15, 797-808.	14.6	50
2357	Solutionâ€processed graphene oxide coatings for enhanced heat transfer during dropwise condensation of steam. Nano Select, 2021, 2, 61-71.	3.7	12
2358	Defective graphene nanosheets with heteroatom doping as hydrogen peroxide reduction catalysts and sensors. Sensors and Actuators B: Chemical, 2021, 328, 129015.	7.8	16
2359	Hyaluronic acid and graphene oxide loaded silicon contact lens for corneal epithelial healing. Journal of Biomaterials Science, Polymer Edition, 2021, 32, 372-384.	3.5	16
2360	Active-screen plasma multi-functionalization of graphene oxide for supercapacitor application. Journal of Materials Science, 2021, 56, 3296-3311.	3.7	14
2361	Microâ€Schottky Junctionâ€Boosted Efficient Charge Transducing for Ultrasensitive NO₂ Sensing. Advanced Materials Technologies, 2021, 6, .	5.8	9
2362	Efficiency of different methods of oxidation of graphite: a key route of graphene preparation. Graphene and 2D Materials Technologies, 2021, 6, 1-11.	1.3	1
2363	Microstructure and electrochemical properties of high performance graphene/manganese oxide hybrid electrodes. RSC Advances, 2021, 11, 31608-31620.	3.6	3
2364	The fate of oxygen on graphene-catalyst in the photocatalytic water splitting reaction. Catalysis Science and Technology, 2021, 11, 7083-7090.	4.1	4

#	Article	IF	Citations
2365	Potent E. coli M-17 Growth Inhibition by Ultrasonically Complexed Acetylsalicylic Acidâ€"ZnOâ€"Graphene Oxide Nanoparticles. ACS Applied Nano Materials, 2021, 4, 778-792.	5.0	0
2366	Hydroxyl-group-modified polymeric carbon nitride with the highly selective hydrogenation of nitrobenzene to N-phenylhydroxylamine under visible light. Green Chemistry, 2021, 23, 3612-3622.	9.0	22
2367	High-power graphene supercapacitors for the effective storage of regenerative energy during the braking and deceleration process in electric vehicles. Materials Chemistry Frontiers, 2021, 5, 6200-6211.	5.9	41
2368	Visualising structural modification of patterned graphene nanoribbons using tip-enhanced Raman spectroscopy. Chemical Communications, 2021, 57, 6895-6898.	4.1	13
2369	Programmed exfoliation of hierarchical graphene nanosheets mediated by dynamic self-assembly of supramolecular polymers. Materials Chemistry Frontiers, 2021, 5, 6998-7011.	5.9	1
2370	Degradation of pharmaceutical contaminants by bubbling gas phase surface discharge plasma combined with g-C₃N₄ photocatalysis. Environmental Science: Water Research and Technology, 2021, 7, 610-621.	2.4	4
2371	Gecko foot-inspired reduced graphene oxide surface with multi-resistant, nonpolar/polar separation and reliable adhesion utility. Journal of Materials Science, 2021, 56, 7372-7385.	3.7	5
2372	Structural and electronic engineering of biomass-derived carbon nanosheet composite for electrochemical oxygen reduction. Sustainable Energy and Fuels, 2021, 5, 2114-2126.	4.9	8
2373	Reductionâ€controlled graphene oxide saturable absorbers and its effect on ultrashort Erâ€doped fibre laser. IET Optoelectronics, 2021, 15, 61-68.	3.3	0
2374	Interfacially compatibilized PI/PDMS blends with reduced octadecylamine-functionalized graphene oxide: morphological and rheological properties. Soft Matter, 2021, 17, 9670-9681.	2.7	8
2375	Enhanced light-driven hydrogen generation on carbon quantum dots with TiO₂ nanoparticles. Physical Chemistry Chemical Physics, 2021, 23, 10448-10455.	2.8	11
2376	2D Graphene Oxide-Based Composites and Their Application in Catalysis and Sensing. Materials Horizons, 2021, , 43-54.	0.6	0
2377	Development of electrode materials for high-performance supercapacitors. , 2021, , 545-557.		5
2378	Plasma Assisted Reduction of Graphene Oxide Films. Nanomaterials, 2021, 11, 382.	4.1	9
2379	Supermolecule Cucurbituril Subnanoporous Carbon Supercapacitor (SCSCS). Nano Letters, 2021, 21, 2156-2164.	9.1	40
2380	Effect of the particle size of graphene oxide powders on the electrochemical performance of graphene-based supercapacitors. Functional Composites and Structures, 2021, 3, 015005.	3.4	8
2381	Graphene Oxide Membranes for Tunable Ion Sieving in Acidic Radioactive Waste. Advanced Science, 2021, 8, 2002717.	11.2	44
2382	Antibacterial properties of recoverable CuZnO@Fe3O4@GO composites in water treatment. Environmental Science and Pollution Research, 2021, 28, 33355-33370.	5.3	5

#	Article	IF	Citations
2383	Porphyrin Conjugated Polymer with Periodic Type IIâ€Like Heterojunctions and Singleâ€Atom Catalytic Sites for Broadbandâ€Responsive Hydrogen Evolution. Advanced Functional Materials, 2021, 31, 2009819.	14.9	44
2384	Enhanced efficiency of polyamide membranes by incorporating TiO2-Graphene oxide for water purification. Journal of Molecular Liquids, 2021, 323, 114922.	4.9	48
2385	Effect of nanoscale graphene oxide on the sustained photoelectrochemical cathodic protection performance of the WO3 nanothorn clusters. Journal of Applied Electrochemistry, 2021, 51, 739-752.	2.9	5
2386	Morphological Characterization and Lumped Element Model of Graphene and Biochar Thick Films. Journal of Carbon Research, 2021, 7, 36.	2.7	3
2387	Activated Graphene Deposited on Porous Cu Mesh for Supercapacitors. Nanomaterials, 2021, 11, 893.	4.1	6
2388	Pt/C Electrocatalyst Durability Enhancement by Inhibition of Pt Nanoparticle Growth Through Microwave Pretreatment of Carbon Support. ChemElectroChem, 2021, 8, 1183-1195.	3.4	17
2389	Adsorption of Volatile Organic Compounds (VOCs) on Oxygenâ€rich Porous Carbon Materials Obtained from Glucose/Potassium Oxalate. Chemistry - an Asian Journal, 2021, 16, 1118-1129.	3.3	17
2390	Rheological properties of discotic nematic liquid crystals: graphene oxide dispersions study. Liquid Crystals, 2021, 48, 1685-1698.	2.2	6
2391	Ultrasmall size FeNi Prussian blue analogue on rGO with accurate heteronuclear adsorption sites toward efficient electrochemical nitrogen fixation. International Journal of Hydrogen Energy, 2021, 46, 11731-11739.	7.1	5
2392	Plasmonic Enhancement in Water Splitting Performance for NiFe Layered Double Hydroxideâ€N₁₀TC MXene Heterojunction. ChemSusChem, 2021, 14, 1948-1954.	6.8	18
2393	One-step preparation of gold nanoparticles - exfoliated graphene composite by gamma irradiation at low doses for photothermal therapy applications. Materials Characterization, 2021, 173, 110944.	4.4	3
2394	Comparison of two kinds of liquid crystalline monomers with different mesogenic units grafted graphene oxide on thermal and mechanical properties of epoxy nanocomposite materials. Liquid Crystals, 2021, 48, 1671-1684.	2.2	0
2395	A critical review on the production and application of graphene and graphene-based materials in anti-corrosion coatings. Critical Reviews in Solid State and Materials Sciences, 2022, 47, 309-355.	12.3	45
2396	Plasmonic Au Nanoparticle@Ti₃C₂T_x Heterostructures for Improved Oxygen Evolution Performance. Inorganic Chemistry, 2021, 60, 5890-5897.	4.0	25
2397	Photolithographically-patterned C-MEMS graphene by carbon diffusion through nickel. Nanotechnology, 2021, 32, 265302.	2.6	6
2398	Ti2Nb2O9/graphene hybrid anode with superior rate capability for high-energy-density sodium-ion capacitors. Journal of Alloys and Compounds, 2021, 860, 158431.	5.5	14
2399	Strongly stabilized integrated bimetallic oxide of Fe2O3-MoO3 Nano-crystal entrapped N-doped graphene as a superior oxygen reduction reaction electrocatalyst. Chemical Engineering Journal, 2021, 410, 128358.	12.7	47
2400	Double-network cross-linked aerogel with rigid and super-elastic conversion: simple formation, unique properties, and strong sorption of organic contaminants. Environmental Science and Pollution Research, 2021, 28, 42637-42648.	5.3	7

#	Article	IF	Citations
2401	Electrochemical characterization of graphene-type materials obtained by electrochemical exfoliation of graphite. Journal of Electroanalytical Chemistry, 2021, 887, 115084.	3.8	10
2402	A new insight into the structural modulation of graphene oxide upon chemical reduction probed by Raman spectroscopy and X-ray diffraction. Carbon Letters, 2021, 31, 1125-1131.	5.9	27
2403	Scalable Preparation of Ultrathin Graphene-Reinforced Copper Composite Foils with High Mechanical Properties and Excellent Heat Dissipation. ACS Applied Materials & Interfaces, 2021, 13, 21714-21723.	8.0	13
2404	Graphene Oxide as a Pb(II) Separation Medium: Has Part of the Story Been Overlooked?. Jacs Au, 2021, 1, 766-776.	7.9	9
2405	Graphitized-rGO/Polyimide Aerogel as the Compressible Thermal Interface Material with Both High in-Plane and through-Plane Thermal Conductivities. Materials, 2021, 14, 2350.	2.9	7
2406	Longâ€term evolution of the chemical and structural stability of graphene oxide after storage as solid and as aqueous dispersion. Nano Select, 2021, 2, 2168-2175.	3.7	2
2407	Preparation and oxidation resistance of polyphenylene sulfide modified by high-temperature antioxidants. Materials Research Express, 2021, 8, 045304.	1.6	8
2408	From Waste to Functional Materials: A Multifunctional Electromagnetic Interference Shielding Composite from Waste Rock Wool. ACS Applied Electronic Materials, 2021, 3, 2187-2194.	4.3	6
2409	Semi-transparent reduced graphene oxide photodetectors for ultra-low power operation. Optics Express, 2021, 29, 14208.	3.4	11
2410	Potential-induced sonoelectrochemical graphene nanosheets with vacancies as hydrogen peroxide reduction catalysts and sensors. Ultrasonics Sonochemistry, 2021, 72, 105444.	8.2	3
2411	Enhanced Performance of WO₃ Photodetectors Through Hybrid Graphene-Layer Integration. ACS Applied Electronic Materials, 2021, 3, 2056-2066.	4.3	28
2412	Superhydrophobic composite graphene oxide membrane coated with fluorinated silica nanoparticles for hydrogen isotopic water separation in membrane distillation. Journal of Membrane Science, 2021, 626, 119136.	8.2	17
2413	Reduced graphene oxide layer on nanostructured SnS thin films for improved visible light photoelectrochemical activity. Renewable Energy, 2021, 169, 414-424.	8.9	17
2414	Elucidating electrochemical intercalation mechanisms of biomassâ€derived hard carbon in sodiumâ€/potassiumâ€ion batteries. , 2021, 3, 541-553.		64
2415	Nickel oxide-1D/2D carbon nanostructure hybrid as efficient field emitters. Journal of Materials Science: Materials in Electronics, 2021, 32, 16761-16774.	2.2	5
2416	Enhanced Polymerization and Surface Hardness of Colloidal Siloxane Films via Electron Beam Irradiation. ACS Omega, 2021, 6, 13384-13390.	3.5	7
2417	Silver Nanoparticle-Enhanced Three-Dimensional Boron Nitride/Reduced Graphene Oxide Skeletons for Improving Thermal Conductivity of Polymer Composites. ACS Applied Polymer Materials, 2021, 3, 3334-3343.	4.4	33
2418	Propagating Surface Plasmon Polaritons Excited at the Graphene Oxide/AgAu Alloy Interface Enhance Nonlinearity. Physica Status Solidi (B): Basic Research, 2021, 258, 2000602.	1.5	3

#	Article	IF	Citations
2419	The role of copper on the restoration of graphene oxide by chemical vapor deposition. Materials Research Express, 2021, 8, 055601.	1.6	0
2420	Facile Surface Modification of Polyamide Membranes Using UV-Photooxidation Improves Permeability and Reduces Natural Organic Matter Fouling. Environmental Science & Technology, 2021, 55, 6984-6994.	10.0	25
2421	Low Surface Roughness Graphene Oxide Film Reduced with Aluminum Film Deposited by Magnetron Sputtering. Nanomaterials, 2021, 11, 1428.	4.1	4
2422	Functionalization of graphene-based materials: Effective approach for enhancement of tribological performance as lubricant additives. Diamond and Related Materials, 2021, 115, 108357.	3.9	19
2423	Effect of montmorillonite on the oxidative stability of polyphenylene sulfide fibers prepared by melt spinning. Textile Reseach Journal, 2022, 92, 2742-2754.	2.2	2
2424	Preparation and characterization of HMX/NH2-GO composite with enhanced thermal safety and desensitization. Defence Technology, 2022, 18, 2074-2082.	4.2	15
2425	Laser Direct Writing of Highly Crystalline Graphene on Polydimethylsiloxane for Fingertipâ€Sized Piezoelectric Sensors. Advanced Engineering Materials, 2021, 23, 2100457.	3.5	4
2426	Electrostatic adsorbing graphene quantum dot into nickelâ€“based layered double hydroxides: Electron absorption/donor effects enhanced oxygen electrocatalytic activity. Nano Energy, 2021, 84, 105932.	16.0	63
2427	One-step, low temperature synthesis of reduced graphene oxide decorated with ZnO nanocrystals using galvanized iron steel scrap. Materials Research Express, 2021, 8, 065010.	1.6	9
2428	Antibacterial and corrosion protection properties of SA-CuZnO@ODA-GO composite in circulating cooling water. Environmental Science and Pollution Research, 2021, 28, 57952-57969.	5.3	4
2429	Enhanced ammonia sensing properties of rGO/WS2 heterojunction based chemiresistive sensor by marginal sulfonate decoration. Sensors and Actuators B: Chemical, 2021, 337, 129776.	7.8	31
2430	Construction of Functional Superhydrophobic Biochars as Hydrogen Transfer Catalysts for Dehydrogenation of N-Heterocycles. ACS Sustainable Chemistry and Engineering, 2021, 9, 9062-9077.	6.7	7
2431	Impact of anode catalyst loadings and carbon supports to CO contamination in PEM fuel cells. International Journal of Hydrogen Energy, 2021, 46, 21136-21150.	7.1	15
2432	Lightweight, few-layer graphene composites with improved electro-thermal properties as efficient heating devices for de-icing applications. Carbon, 2021, 182, 655-668.	10.3	24
2433	Structure and properties of graphene oxide during the synthesis process at fixed temperatures. Ceramics International, 2021, 47, 17487-17493.	4.8	4
2434	Detailed thermal reduction analyses of graphene oxide via in-situ TEM/EELS studies. Carbon, 2021, 178, 477-487.	10.3	24
2435	Graphene Aerosol Gel Ink for Printing Micro-Supercapacitors. ACS Applied Energy Materials, 2021, 4, 7632-7641.	5.1	19
2437	A robust metal-free electrocatalyst for nitrate reduction reaction to synthesize ammonia. Materials Today Physics, 2021, 19, 100431.	6.0	40

#	Article	IF	Citations
2438	A Review on the Applications of Graphene in Mechanical Transduction. Advanced Materials, 2022, 34, e2101326.	21.0	59
2439	Low dimensional Bi2Se3 NPs/reduced graphene oxide nanocomposite for simultaneous detection of L-Dopa and acetaminophen in presence of ascorbic acid in biological samplesÂand pharmaceuticals. Journal of Nanostructure in Chemistry, 2022, 12, 513-528.	9.1	11
2440	Selfâ€Assembly of 2D Nanosheets into 1D Nanostructures for Sensing NO 2. Small Structures, 2021, 2, 2100067.	12.0	8
2441	Direct conversion of CO2 to graphene via vaporâ€"liquid reaction for magnesium matrix composites with structural and functional properties. Journal of Magnesium and Alloys, 2023, 11, 1206-1212.	11.9	9
2442	Effect of characterization probes on the properties of graphene oxide and reduced graphene oxide. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	10
2443	Exploration of the temperature-dependent correlations present in the structural, morphological and electrical properties of thermally reduced free-standing graphene oxide papers. Journal of Materials Science, 2021, 56, 15134-15150.	3.7	14
2444	Supercritical CO2-assisted microfluidization as ultra-high efficiency strategy for graphene preparation. Journal of Materials Science, 2021, 56, 15653-15666.	3.7	3
2445	Electrochemically Exfoliated Graphite Nanosheet Films for Electromagnetic Interference Shields. ACS Applied Nano Materials, 2021, 4, 7221-7233.	5.0	12
2446	Preparation and electrochemical properties of Î±-MnO2/rGO-PPy composite as cathode material for zinc-ion battery. Journal of Materials Science, 2021, 56, 16582-16590.	3.7	15
2447	Additiveâ€Free Energetic Film Based on Graphene Oxide and Nanoscale Energetic Coordination Polymer for Transient Microchip. Advanced Functional Materials, 2021, 31, 2103199.	14.9	22
2448	A hybrid CoOOH-rGO/Fe2O3 photoanode with spatial charge separation and charge transfer for efficient photoelectrochemical water oxidation. Journal of Catalysis, 2021, 399, 170-181.	6.2	26
2449	Graphene environmental biodegradation: Wood degrading and saprotrophic fungi oxidize few-layer graphene. Journal of Hazardous Materials, 2021, 414, 125553.	12.4	17
2450	Surface modification of poly(phenylene sulfide) using photoinitiated chlorine dioxide radical as an oxidant. Polymer Journal, 2021, 53, 1231-1239.	2.7	5
2451	Electrochemical chloramphenicol sensors-based on trace MoS2 modified carbon nanomaterials: Insight into carbon supports. Journal of Alloys and Compounds, 2021, 872, 159687.	5.5	29
2452	Impact of reducing agents on the ammonia sensing performance of silver decorated reduced graphene oxide: Experiment and first principles calculations. Applied Surface Science, 2021, 558, 149886.	6.1	12
2453	Decorating graphdiyne on ultrathin bismuth subcarbonate nanosheets to promote CO2 electroreduction to formate. Science Bulletin, 2021, 66, 1533-1541.	9.0	45
2454	Effective visible light-driven ternary composite of ZnO nanorod decorated Bi2MoO6 in rGO for reduction of hexavalent chromium. Journal of Environmental Chemical Engineering, 2021, 9, 105467.	6.7	12
2455	Development of Graphene Oxide Dispersed Natural Ester Based Insulating Oil for Transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1326-1333.	2.9	13

#	Article	IF	Citations
2456	Graphene oxide synthesis using a topâ€"down approach and discrete characterization techniques: a holistic review. Carbon Letters, 2022, 32, 1-38.	5.9	14
2457	Uranium In Situ Electrolytic Deposition with a Reusable Functional Grapheneâ€Foam Electrode. Advanced Materials, 2021, 33, e2102633.	21.0	52
2458	Synergistic coupling of CoFe-layered double hydroxide nanosheet arrays with reduced graphene oxide modified Ni foam for highly efficient oxygen evolution reaction and hydrogen evolution reaction. International Journal of Hydrogen Energy, 2021, 46, 27529-27542.	7.1	40
2459	Removal of Cu (II) from industrial wastewater using poly (acrylamide-co-2-acrylamide-2-methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 study. Journal of Water Process Engineering, 2021, 42, 102144.	5.6	20
2460	Development of sonophotocatalytic process for degradation of acid orange 7 dye by using titanium dioxide nanoparticles/graphene oxide nanocomposite as a catalyst. Journal of Environmental Management, 2021, 292, 112777.	7.8	56
2461	Effect of ureaâ€"formaldehyde nanoparticles on the barrier property and delamination resistance for epoxy coating. Anti-Corrosion Methods and Materials, 2021, 68, 449-456.	1.5	1
2462	Reinforced polypyrrole with 2D graphene flakes decorated with interconnected nickel-tungsten metal oxide complex toward superiorly stable supercapacitor. Chemical Engineering Journal, 2021, 418, 129396.	12.7	48
2463	Synergistic advanced oxidation process for the fast degradation of ciprofloxacin antibiotics using a GO/CuMOF-magnetic ternary nanocomposite. Journal of Environmental Chemical Engineering, 2021, 9, 105486.	6.7	95
2464	Scalable Synthesis of Ga₂O₃/Nâ€Doped C Nanopapers as Highâ€Rate Performance Anode for Liâ€Ion Batteries. ChemElectroChem, 2021, 8, 3304-3310.	3.4	14
2465	Dual-carbon-confined hydrangea-like SiO cluster for high-performance and stable lithium ion batteries. Journal of Industrial and Engineering Chemistry, 2021, 101, 397-404.	5.8	12
2466	Nanoferric tetroxide decorated N-doped residual carbon from entrained-flow coal gasification fine slag for enhancing the electromagnetic wave absorption capacity. Journal of Alloys and Compounds, 2021, 874, 159878.	5.5	26
2468	Protection of Aluminum Foils against Environmental Corrosion with Graphene-Based Coatings. Journal of Coating Science and Technology, 0, 8, 18-28.	0.3	6
2469	Silver Nanoparticles Embedded on Reduced Graphene Oxide@Copper Oxide Nanocomposite for High Performance Supercapacitor Applications. Materials, 2021, 14, 5032.	2.9	14
2470	Room-Temperature Interaction of Nitrogen Dioxide with Rhodium Nanoparticles Supported on the Surface of Highly Oriented Pyrolytic Graphite (HOPG). Kinetics and Catalysis, 2021, 62, 664-674.	1.0	2
2471	Facile In Situ Chemical Cross-Linking Gel Polymer Electrolyte, which Confines the Shuttle Effect with High Ionic Conductivity and Li-Ion Transference Number for Quasi-Solid-State Lithiumâ€"Sulfur Battery. ACS Applied Materials & Interfaces, 2021, 13, 44497-44508.	8.0	20
2472	Manipulating the self-assembly behavior of graphene nanosheets via adenine-functionalized biodegradable polymers. Applied Surface Science, 2022, 572, 151437.	6.1	6
2473	Thermally annealed self-assembled three-dimensional graphene for direct construction of porous flow distributor in polymer electrolyte membrane fuel cell. International Journal of Hydrogen Energy, 2021, 46, 36930-36930.	7.1	2
2474	Hollow Dodecahedra Graphene Oxide- Cuprous Oxide Nanocomposites With Effective Photocatalytic and Bactericidal Activity. Frontiers in Chemistry, 2021, 9, 755836.	3.6	2

#	Article	IF	Citations
2475	Functionalized fewâ€layered graphene nanoplatelets for superior thermal management in heat transfer nanofluids. International Journal of Applied Ceramic Technology, 2022, 19, 803-812.	2.1	6
2476	Capacitance Properties of Chemically Prepared Carbon Nanostructure/Polyazulene Composites. ECS Journal of Solid State Science and Technology, 2021, 10, 091017.	1.8	2
2477	Monolayer graphene membranes for molecular separation in high-temperature harsh organic solvents. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	30
2478	Direct growth of graphene films without catalyst on flexible glass substrates by PECVD*. Chinese Physics B, 2021, 30, 098101.	1.4	3
2479	A review of gas sensors based on carbon nanomaterial. Carbon Letters, 2022, 32, 339-364.	5.9	45
2480	Role of graphene-based materials (GO) in improving physicochemical properties of cementitious nano-composites: a review. Journal of Materials Science, 2021, 56, 19329-19358.	3.7	9
2481	Fabrication of fanlike L-shaped graphene nanostructures with enhanced thermal/electrochemical properties via laser irradiation. Carbon, 2021, 182, 691-699.	10.3	16
2482	A Facile and Scalable Method of Fabrication of Large-Area Ultrathin Graphene Oxide Nanofiltration Membrane. ACS Nano, 2021, 15, 15294-15305.	14.6	47
2483	Efficient degradation of tetracycline by RGO@black titanium dioxide nanofluid via enhanced catalysis and photothermal conversion. Science of the Total Environment, 2021, 787, 147536.	8.0	30
2484	In situ growth of MIL-88A into polyacrylate and its application in highly efficient photocatalytic degradation of organic pollutants in water. Applied Surface Science, 2021, 564, 150404.	6.1	24
2485	Controllable preparations and anti-corrosion properties of reduced graphene oxide films by binder-free electrophoretic deposition. Applied Surface Science, 2021, 563, 150295.	6.1	9
2486	Combined experimental and theoretical studies on enlarged bandgap and improved photoelectrochemical properties of reduced graphene oxide film by hydrogen annealing. Journal of Electroanalytical Chemistry, 2021, 900, 115722.	3.8	2
2487	Architected mesoporous crystalline magnesium silicates with ordered pore structures. Microporous and Mesoporous Materials, 2021, 327, 111381.	4.4	5
2488	Surface chemistry of reduced graphene oxide: H-atom transfer reactions. Applied Surface Science, 2021, 567, 150815.	6.1	8
2489	Pyrenebutyric acid-assisted room-temperature synthesis of large-size monolayer graphene oxide with high mechanical strength. Carbon, 2021, 185, 224-233.	10.3	5
2490	Structure-activity relationship toward electrocatalytic nitrogen reduction of MoS2 growing on polypyrrole/graphene oxide affected by pyridinium-type ionic liquids. Chemical Engineering Journal, 2021, 425, 131769.	12.7	25
2491	Investigation on the flotation separation of smithsonite from calcite using calcium lignosulphonate as depressant. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127571.	4.7	21
2492	Enhanced Reactive Red 2 anaerobic degradation through improving electron transfer efficiency by nano-Fe3O4 modified granular activated carbon. Renewable Energy, 2021, 179, 696-704.	8.9	22

#	Article	IF	Citations
2493	Can reduced graphene oxide look like few-layer pristine graphene?. Diamond and Related Materials, 2021, 120, 108616.	3.9	6
2494	A photo-Fenton nanocomposite ultrafiltration membrane for enhanced dye removal with self-cleaning properties. Journal of Colloid and Interface Science, 2021, 604, 458-468.	9.4	36
2495	Research on the performance of rGO-CNTs synergistically enhanced copper matrix composites. Powder Technology, 2021, 394, 1-9.	4.2	8
2496	Self-supported 3D reduced graphene oxide for solid-phase extraction: An efficient and low-cost sorbent for environmental contaminants in aqueous solution. Talanta, 2021, 235, 122750.	5.5	7
2497	Lightweight, amphipathic and fire-resistant prGO/MXene spherical beads for rapid elimination of hazardous chemicals. Journal of Hazardous Materials, 2022, 423, 127069.	12.4	34
2498	Redox-etching induced porous carbon cloth with pseudocapacitive oxygenic groups for flexible symmetric supercapacitor. Journal of Energy Chemistry, 2022, 64, 136-143.	12.9	31
2499	Monoclinic Cu3(OH)2V2O7Â·2H2O nanobelts/reduced graphene oxide: A novel high-capacity and long-life composite for potassium-ion battery anodes. Journal of Energy Chemistry, 2022, 66, 140-151.	12.9	7
2500	Adsorption desulfurization performance of PdO/SiO2@graphene oxide hybrid aerogel: Influence of graphene oxide. Journal of Hazardous Materials, 2022, 421, 126680.	12.4	27
2501	Synthesis of bifunctional tin-based silicaâ€“carbon catalysts, Sn/KIT-1/C, with tunable acid sites for the catalytic transformation of glucose into 5-hydroxymethylfurfural. Chemical Engineering Journal, 2022, 429, 132261.	12.7	23
2502	Defect engineering of water-dispersible g-C3N4 photocatalysts by chemical oxidative etching of bulk g-C3N4 prepared in different calcination atmospheres. Journal of Materials Science and Technology, 2022, 103, 232-243.	10.7	31
2503	Environmentally Benign Oxidation of Primary and Secondary Alcohols Catalyzed by Stabilized Gold Nanoparticles on Î'-Hydroxy Amide-Functionalized Graphene Oxide. SSRN Electronic Journal, 0, , .	0.4	1
2504	Highly crystalline anatase TiO₂ nanocuboids as an efficient photocatalyst for hydrogen generation. RSC Advances, 2021, 11, 7587-7599.	3.6	27
2505	Ultra-wideband self-powered photodetector based on suspended reduced graphene oxide with asymmetric metal contacts. RSC Advances, 2021, 11, 19482-19491.	3.6	10
2506	Recent advances and prospects in reduced graphene oxide-based photodetectors. Journal of Materials Chemistry C, 2021, 9, 8129-8157.	5.5	22
2507	Ni on graphene oxide: a highly active and stable alkaline oxygen evolution catalyst. Catalysis Science and Technology, 2021, 11, 4026-4033.	4.1	9
2508	Synthesis of graphene and other two-dimensional materials. , 2021, , 1-79.		4
2509	Self-assembly of corn-like Co₃O₄ from nanoparticles induced by graphene wrinkles and its application in lithium ion batteries. Sustainable Energy and Fuels, 2021, 5, 2469-2476.	4.9	10
2510	Electrophoresis-microwave synthesis of S,N-doped graphene foam for high-performance supercapacitors. Journal of Materials Chemistry A, 2021, 9, 15766-15775.	10.3	10

#	Article	IF	Citations
2511	Co-Zn-MOFs Derived N-Doped Carbon Nanotubes with Crystalline Co Nanoparticles Embedded as Effective Oxygen Electrocatalysts. Nanomaterials, 2021, 11, 261.	4.1	12
2512	Graphene: The magic material. , 2021, , 517-549.		3
2513	Optical Properties of Polymer Functionalized Graphene: Application as Optical Sensor. RSC Polymer Chemistry Series, 2021, , 133-163.	0.2	0
2514	Modulating thermal conductance across the metal/graphene/SiO₂ interface with ion irradiation. Physical Chemistry Chemical Physics, 2021, 23, 22760-22767.	2.8	4
2515	Synthesis of 3D flower-like hierarchical NiCo-LDH microspheres with boosted electrochemical performance for hybrid supercapacitors. Inorganic Chemistry Frontiers, 2021, 8, 4324-4333.	6.0	23
2516	Fabrication and Reduction. SpringerBriefs in Physics, 2015, , 1-13.	0.7	2
2517	Structural Characterization. SpringerBriefs in Physics, 2015, , 15-29.	0.7	5
2518	Graphene Oxide: Synthesis and Characterization. Advanced Structured Materials, 2017, , 1-28.	0.5	3
2519	Investigating the Thermo-Mechanical Properties of Aluminum/Graphene Nano-Platelets Composites Developed by Friction Stir Processing. International Journal of Precision Engineering and Manufacturing, 2020, 21, 1539-1546.	2.2	13
2520	Janus-like asymmetrically oxidized graphene: Facile synthesis and distinct liquid crystal alignment at the oil/water interface. Carbon, 2020, 161, 316-322.	10.3	11
2521	NIR-light-induced thermoset shape memory polyurethane composites with self-healing and recyclable functionalities. Composites Part B: Engineering, 2020, 195, 108092.	12.0	64
2522	Programing polyurethane with rational surface-modified graphene platelets for shape memory actuators and dielectric elastomer generators. European Polymer Journal, 2020, 133, 109745.	5.4	39
2523	Enhancing the selectivity of hydrogen isotopic water in membrane distillation by using graphene oxide. Journal of Membrane Science, 2020, 610, 118237.	8.2	24
2524	Scalable CVD synthesis of three-dimensional graphene from cast catalyst. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 254, 114510.	3.5	17
2525	Compatible cyclophosphazene-functionalized graphene hybrids to improve flame retardancy for epoxy nanocomposites. Reactive and Functional Polymers, 2020, 155, 104697.	4.1	24
2526	CHAPTER 14. Graphene-Based Biosensors for Food Analysis. Food Chemistry, Function and Analysis, 2016, , 327-353.	0.2	1
2527	Self-standing Li_{1.2}Mn_{0.6}Ni_{0.2}O₂/graphene membrane as a binder-free cathode for Li-ion batteries. RSC Advances, 2018, 8, 39769-39776.	3.6	6
2528	Coupling of short DNAs with reduced graphene oxide for electronic and sensing applications. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 526-532.	2.1	3

#	Article	IF	Citations
2529	Anomalous charge transport in reduced graphene oxide films on a uniaxially strained elastic substrate. Journal of Physics Condensed Matter, 2017, 29, 235301.	1.8	4
2530	Solution processed nanostructured hybrid materials based on PbS quantum dots and reduced graphene oxide with tunable optoelectronic properties. Nanotechnology, 2021, 32, 055604.	2.6	5
2531	Atomic-scale constituting stable interface for improved LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂ cathodes of lithium-ion batteries. Nanotechnology, 2021, 32, 115401.	2.6	12
2532	Direct laser writing of tunable diffractive micro-optics on graphene oxide film. , 2018, , .		2
2533	Multilayer Engineering of Polyaniline and Reduced Graphene Oxide Thin Films on a Plastic Substrate for Flexible Optoelectronic Applications Using NIR. Russian Journal of Applied Chemistry, 2020, 93, 1561-1570.	0.5	6
2534	Low-Cost and Fast-Response Resistive Humidity Sensor Comprising Biopolymer-Derived Carbon Thin Film and Carbon Microelectrodes. Journal of the Electrochemical Society, 2020, 167, 147511.	2.9	7
2535	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.	1.8	2
2536	XRD-HTA, UV Visible, FTIR and SEM Interpretation of Reduced Graphene Oxide Synthesized from High Purity Vein Graphite. Material Science Research India, 2017, 14, 19-30.	0.7	107
2537	Microscopic pump-probe optical technique to characterize the defect of monolayer transition metal dichalcogenides. Photonics Research, 2019, 7, 711.	7.0	9
2538	Template-free synthesis of Se-nanorods-rGO nanocomposite for application in supercapacitors. Nanotechnology Reviews, 2019, 8, 661-670.	5.8	15
2539	Polysulfone nanofiltration membranes enriched with functionalized graphene oxide for dye removal from wastewater. Journal of Polymer Engineering, 2020, 40, 833-841.	1.4	42
2540	Preparation of magnetized iron oxide grafted on graphene oxide for hyperthermia application. Reviews in Chemical Engineering, 2022, 38, 569-601.	4.4	7
2541	In Situ Green Synthesis and Functionalization of Reduced Graphene Oxide on Cellulose Fibers by Cannabis sativa L. Extract. Materials Performance and Characterization, 2019, 8, 20180149.	0.3	3
2542	Reduced graphene oxide obtained using the spray pyrolysis technique for gas sensing. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2019, 22, 98-103.	1.0	7
2543	Graphene Oxide: A Carrier for Pharmaceuticals and a Scaffold for Cell Interactions. Current Topics in Medicinal Chemistry, 2015, 15, 309-327.	2.1	45
2544	A facile strategy for the reduction of graphene oxide and its effect on thermal conductivity of epoxy based composites. EXPRESS Polymer Letters, 2016, 10, 470-478.	2.1	14
2545	Chemical Changes of Graphene Oxide Thin Films Induced by Thermal Treatment under Vacuum Conditions. Coatings, 2020, 10, 113.	2.6	13
2546	Influence of Carbon Nanosheets on the Behavior of 1,2-Dipalmitoyl-sn-glycerol-3-phosphocholine Langmuir Monolayers. Processes, 2020, 8, 94.	2.8	13

#	Article	IF	Citations
2547	Progress in Preparation of Graphene. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2011, 26, 561-570.	1.3	18
2548	Effect of Graphene Oxide (GO) Dispersion on Basic Properties of Polycarbonate/GO Composites. International Journal of Digital Content Technology and Its Applications, 2013, 7, 287-297.	0.1	3
2549	Oxygen Plasma/Bismuth Modified Inkjet Printed Graphene Electrode for the Sensitive Simultaneous Detection of Lead and Cadmium. American Journal of Analytical Chemistry, 2020, 11, 1-14.	0.9	2
2550	Graphene Oxide/Multilayer-Graphene Synthesized from Electrochemically Exfoliated Graphite and Its Influence on Mechanical Behavior of Polyurethane Composites. Materials Sciences and Applications, 2018, 09, 565-575.	0.4	3
2551	Preparation and Characterization of Reduced Graphene Nanosheets via Pre-exfoliation of Graphite Flakes. Bulletin of the Korean Chemical Society, 2012, 33, 209-214.	1.9	61
2552	Flexible and Transparent Plastic Electrodes Composed of Reduced Graphene Oxide/Polyaniline Films for Supercapacitor Application. Bulletin of the Korean Chemical Society, 2014, 35, 1799-1805.	1.9	17
2553	Synthesis and Characterization of Graphene and Graphene Oxide Based Palladium Nanocomposites and Their Catalytic Applications in Carbon-Carbon Cross-Coupling Reactions. Bulletin of the Korean Chemical Society, 2014, 35, 1979-1984.	1.9	10
2554	Structural properties of reduced graphene oxides prepared using various reducing agents. Carbon Letters, 2015, 16, 255-259.	5.9	9
2555	Preparation of few-layer graphene by the decomposition of K-THF-GICs using the addition of various solvents. Tanso, 2017, 2017, 139-151.	0.1	3
2556	Effects of Oxyfluorinated Graphene Oxide Flake on Mechanical Properties of PMMA Artificial Marbles. Porrime, 2012, 36, 251-261.	0.2	1
2557	Thickness Control of Graphene Overlayer via Layer-by-Layer Growth on Graphene Templates by Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2011, 50, 06GE04.	1.5	6
2558	Configuration Dependency of Attached Epoxy Groups on Graphene Oxide Reduction: A Molecular Dynamics Simulation. Japanese Journal of Applied Physics, 2012, 51, 06FD14.	1.5	1
2559	Doping Effect of Zeolite-Templated Carbon on Electrical Conductivity and Work Function. SSRN Electronic Journal, 0, , .	0.4	0
2560	Measurements of the Electrical Conductivity of Monolayer Graphene Flakes Using Conductive Atomic Force Microscopy. Nanomaterials, 2021, 11, 2575.	4.1	23
2561	Hierarchically Porous, Laser-Pyrolyzed Carbon Electrode from Black Photoresist for On-Chip Microsupercapacitors. Nanomaterials, 2021, 11, 2828.	4.1	3
2562	Ppb-Level Butanone Sensor Based on ZnO-TiO2-rGO Nanocomposites. Chemosensors, 2021, 9, 284.	3.6	6
2563	Preparation and Gas Separation Performance of Polysulfone Mixed Matrix Membrane. Journal of Nanomaterials, 2021, 2021, 1-10.	2.7	2
2564	Preparation and properties of graphene reinforced Cu/0.5CeO230Cr electrical contact materials. Vacuum, 2022, 195, 110687.	3.5	17

#	Article	IF	Citations
2565	An innovative green approach to the production of bio-sourced and nano-sized graphene oxide (GO)-like carbon flakes. Current Research in Green and Sustainable Chemistry, 2021, , 100200.	5.6	5
2566	Engineering Oxidation States of a Platinum Cocatalyst over Chemically Oxidized Graphitic Carbon Nitride Photocatalysts for Photocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2021, 9, 14537-14549.	6.7	30
2567	Improvement of synthesized graphene structure through various solvent liquids at low temperatures by chemical vapor deposition method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 274, 115458.	3.5	10
2568	Graphene Synthesis. , 2013, , 1-28.		0
2569	Chemically derived graphene. , 2014, , 223-250.		2
2571	High crystallinity graphene synthesis from graphene oxide. Tanso, 2016, 2016, 171-181.	0.1	0
2572	Graphene-based Membranes for Purification and Separation Applications. RSC Nanoscience and Nanotechnology, 2018, , 163-187.	0.2	0
2573	Effect of Graphene Nanosheets Reinforcement on the Mechanical Properties of Rubber Seed Oil Based Polyurethane Nanocomposites. Minerals, Metals and Materials Series, 2019, , 139-153.	0.4	0
2575	Graphene prepared on SiC by chemical vapor deposition process at low temperature. Journal of Electrical Engineering, 2019, 70, 329-331.	0.7	0
2576	In-situ Modification of Graphene Oxide by Insoluble Sulfur and Application for Nitrile Butadiene Rubber. International Polymer Processing, 2020, 35, 221-228.	0.5	1
2577	Analysis of Lithium-ion Battery Materials Using a Portable Ultrahigh-vacuum Sample Transfer Vessel. Vacuum and Surface Science, 2020, 63, 343-347.	0.1	0
2578	Ultraâ€Sensitive and Highly Stretchable Strain Sensors for Monitoring of Human Physiology. Macromolecular Materials and Engineering, 2022, 307, 2100666.	3.6	9
2579	A high-performance asymmetric supercapacitor achieved by surface-regulated MnO2 and organic-frameworkâ€"derived N-doped carbon cloth. Materials Today Chemistry, 2021, 22, 100620.	3.5	6
2580	Removal of emerging persistent organic pollutants (Em-POPs) model compounds from water using a natural porous material functionalized with graphene-based products. H2Open Journal, 2020, 3, 416-427.	1.7	2
2581	Graphene Oxide: Structure, Properties, Synthesis, and Reduction (A Review). Russian Journal of Inorganic Chemistry, 2020, 65, 1965-1976.	1.3	23
2582	Constructing two-dimensional lamellar monometallic carbon nanocomposites by sodium chloride hard template for lightweight microwave scattering and absorption. Composites Part B: Engineering, 2022, 228, 109422.	12.0	20
2583	Electrical and Mechanical Properties of Zirconia-Graphene Composites. Reviews on Advanced Materials and Technologies, 2020, 2, 27-41.	0.3	2
2584	Preparation of Polyaniline/Graphene Oxide Thin Films Microelectrodes through Electrochemical Reduction at Different Potential Range for High-Performance Supercapacitors. Asian Journal of Chemistry, 2020, 32, 3047-3056.	0.3	2

#	Article	IF	Citations
2585	Optimization of Reducing Agents for Selective Bandgap Manipulation in Visible Region of Graphene Oxide and Its Work Function Estimation. Materials Performance and Characterization, 2020, 9, 20190177.	0.3	2
2586	Preparation of Polyethylene-Reduced Graphene Oxide and Polyethylene-Reduced Graphene Oxide-Aramid Composites. Journal of the Institute of Science and Technology, 0, , 427-438.	0.9	0
2587	Multifunctional Separator Allows Stable Cycling of Potassium Metal Anodes and of Potassium Metal Batteries. Advanced Materials, 2022, 34, e2105855.	21.0	45
2588	Controlling the surface-enhanced Raman scattering performance of graphene oxide by laser irradiation. Diamond and Related Materials, 2022, 121, 108698.	3.9	2
2589	Facile Synthesis of Mesoporous Co3O4/CoO on rGO Nanocomposites as Highly Active and Stable Oxygen Bi-Functional Electrocatalysts. Journal of the Electrochemical Society, 2020, 167, 134509.	2.9	0
2590	Influence of substrate temperature on graphene oxide thin films synthesis by laser ablation technique. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 013402.	2.1	2
2591	Electrochemical synthesis and property characterisation of graphene oxide using water as electrolyte. Chemical Physics Letters, 2022, 786, 139206.	2.6	6
2592	Realizing ultra-stable SnO2 anodes via in-situ formed confined space for volume expansion. Carbon, 2022, 187, 321-329.	10.3	19
2593	Ultra-sensitive, lightweight, and flexible composite sponges for stress sensors based combining of â€œthrough-holeâ€•polyimide sponge and â€œpleated stackedâ€•reduced graphene oxide. Composites Science and Technology, 2022, 218, 109179.	7.8	20
2594	Superior electrochemical performance of Sbâ€“Bi alloy for sodium storage: Understanding from alloying element effects and new cause of capacity attenuation. Journal of Power Sources, 2022, 520, 230826.	7.8	15
2595	Low cost, green and effective preparation of multifunctional flexible silk fabric electrode with ultra-high capacitance retention. Carbon, 2022, 188, 197-208.	10.3	8
2596	Vacant graphene Nanosheet-Supported platinum nanoparticles as catalysts for neutral glucose oxidation reaction. Applied Surface Science, 2022, 578, 152060.	6.1	8
2597	Formulating a New Electrolyte: Synergy between Low-Polar and Non-polar Solvents in Tailoring the Solid Electrolyte Interface for the Silicon Anode. ACS Applied Materials & Interfaces, 2021, 13, 55700-55711.	8.0	7
2598	Superhydrophobic aerogel membrane with integrated functions of biopolymers for efficient oil/water separation. Separation and Purification Technology, 2022, 282, 120138.	7.9	35
2599	High Loading Capacity and Wear Resistance of Graphene Oxide/Organic Molecule Assembled Multilayer Film. Frontiers in Chemistry, 2021, 9, 740140.	3.6	5
2600	Energy storage mechanism and electrochemical performance of Cu2O/rGO as advanced cathode for aqueous zinc ion batteries. Journal of Alloys and Compounds, 2022, 895, 162653.	5.5	15
2601	Preparation of Flower-like Nickel-Based Bimetallic Organic Framework Electrodes for High-Efficiency Hybrid Supercapacitors. Crystals, 2021, 11, 1425.	2.2	17
2602	Titanium dichalcogenide-decorated reduced graphene oxide nanocomposite for high-performance photovoltaic cell fabrication. Journal of Materials Science: Materials in Electronics, 0, , 1.	2.2	1

#	Article	IF	Citations
2603	A Superhydrophilicity Coral-Like Reduced Graphene Oxide Aerogel for Adsorption Characteristics and Mechanism. SSRN Electronic Journal, 0, , .	0.4	0
2604	Room temperature photoluminescent study of thermally grown reduced graphene oxide quantum dots. Inorganic Chemistry Communication, 2022, 136, 109164.	3.9	3
2605	Alkaline oxygen evolution: exploring synergy between fcc and hcp cobalt nanoparticles entrapped in N-doped graphene. Materials Today Chemistry, 2022, 23, 100668.	3.5	20
2606	Enhanced electromagnetic wave absorption properties integrating diverse loss mechanism of 3D porous Ni/NiO microspheres. Journal of Alloys and Compounds, 2022, 897, 163227.	5.5	14
2607	Effective microwave-hydrothermal reduction of graphene oxide for efficient energy storage. Journal of Energy Storage, 2022, 48, 103962.	8.1	9
2608	Insight into the Self-Assembled 3D Sandwich-Like Hollow-Silicon-Nanoarray/Graphene Lithium Storage Architecture by Sonication-Assisted Functionalization. SSRN Electronic Journal, 0, , .	0.4	0
2609	Electronic properties of graphene oxide: nanoroads towards novel applications. Nanoscale, 2022, 14, 4131-4144.	5.6	3
2610	Timolol-eluting graphene oxide laden silicone contact lens: Control release profile with improved critical lens properties. Journal of Drug Delivery Science and Technology, 2022, 69, 103134.	3.0	5
2611	ZnO and reduced graphene oxide electrodes for all-in-one supercapacitor devices. Nanoscale, 2022, 14, 3269-3278.	5.6	70
2612	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.	5.5	5
2613	Porous carbon nanofibers as anode for high-performance potassium-ion batteries. Electrochimica Acta, 2022, 403, 139654.	5.2	13
2614	Ga₂O₃â€“Li₃VO₄/NC nanofibers toward superb high-capacity and high-rate Li-ion storage. New Journal of Chemistry, 2022, 46, 1025-1033.	2.8	10
2615	Reactive Jetting of High Viscosity Nanocomposites for Dielectric Elastomer Actuation. Advanced Materials Technologies, 0, , 2101111.	5.8	6
2616	Scalable Spray Drying Production of Amorphous V₂O₅â€“EGO 2D Heterostructured Xerogels for Highâ€Rate and Highâ€Capacity Aqueous Zinc Ion Batteries. Small, 2022, 18, e2105761.	10.0	24
2617	Graphene supported CoO nanoparticles as an advanced catalyst for aerobic oxidation of cyclohexane. New Journal of Chemistry, 2022, 46, 2792-2797.	2.8	3
2618	The effect of surface treatments and graphene-based modifications on mechanical properties of natural jute fiber composites: A review. IScience, 2022, 25, 103597.	4.1	36
2619	Ultrarapid Method for Coating Electrochemical Sensors with Antifouling Conductive Nanomaterials Enables Highly Sensitive Multiplexed Detection in Whole Blood. Advanced Healthcare Materials, 2022, 11, e2102244.	7.6	29
2620	Graphene oxide-polyaniline conducting composite film deposited on platinum-iridium electrode by electrochemical polymerization of aniline: Synthesis and environmental electrochemistry application. Applied Surface Science Advances, 2022, 7, 100212.	6.8	6

#	Article	IF	Citations
2621	Reduced graphene oxide-modified vanadium tetrasulfide serves as an excellent catalyst for oxygen reduction reaction. International Journal of Hydrogen Energy, 2022, 47, 9744-9752.	7.1	1
2622	Formation mechanism and influencing factors of dioxins during incineration of mineralized refuse. Journal of Cleaner Production, 2022, 342, 130762.	9.3	10
2623	Graphene-derived antibacterial nanocomposites for water disinfection: Current and future perspectives. Environmental Pollution, 2022, 298, 118836.	7.5	33
2624	UVA and solar driven photocatalysis with rGO/TiO2/polysiloxane for inactivation of pathogens in recirculation aquaculture systems (RAS) streams. Chemical Engineering Journal Advances, 2022, 10, 100243.	5.2	9
2625	Boosting zinc ion storage performance of sandwich-like V2O5/graphene composite by effectively inhibiting vanadium dissolution. Journal of Colloid and Interface Science, 2022, 613, 524-535.	9.4	13
2626	Dynamically self-assembled adenine-mediated synthesis of pristine graphene-supported clean Pd nanoparticles with superior electrocatalytic performance toward formic acid oxidation. Journal of Colloid and Interface Science, 2022, 613, 515-523.	9.4	15
2627	Superhydrophobic nanocomposites of erbium oxide and reduced graphene oxide for high-performance microwave absorption. Journal of Colloid and Interface Science, 2022, 615, 69-78.	9.4	14
2628	Electronic structure of multi-layered graphene oxide membrane moderately reduced in vacuum. Journal of Physics and Chemistry of Solids, 2022, 164, 110623.	4.0	3
2629	Detection of a Double-Stranded MGMT Gene Using Electrochemically Reduced Graphene Oxide (ErGO) Electrodes Decorated with AuNPs and Peptide Nucleic Acids (PNA). Biosensors, 2022, 12, 98.	4.7	3
2630	Oxidized Multiwalled Carbon Nanotubes as Components and Oxidant Agents in the Formation of Multiwalled Carbon Nanotube/Polyazulene Composites. Journal of the Electrochemical Society, 2022, 169, 020572.	2.9	4
2631	Hierarchical conformal coating enables highly stable microparticle Si anodes for advanced Li-ion batteries. Applied Materials Today, 2022, 26, 101403.	4.3	8
2632	Economic synthesis of sub-micron brick-like Al-MOF with designed pore distribution for lithium-ion battery anodes with high initial Coulombic efficiency and cycle stability. Dalton Transactions, 2022, 51, 6787-6794.	3.3	3
2633	Energy Band Alignment Engineering in Nanostructured Hybrid Materials Based on Pbs Qds and Reduced Graphene Oxide: Enhancing Photodetector Device Performance. SSRN Electronic Journal, 0, , .	0.4	0
2634	Energy Band Alignment Engineering in Nanostructured Hybrid Materials Based on Pbs Qds and Reduced Graphene Oxide: Enhancing Photodetector Device Performance. SSRN Electronic Journal, 0, , .	0.4	0
2635	Recent Progress in N-Doped Graphene: Properties and Applications. Advances in Material Research and Technology, 2022, , 143-158.	0.6	0
2636	Synthesis and Characterization of Nanocrystalline Boron-Nitride Thin Films by Ion Milling and Thermal Treatment for Tribological Coatings: An Approach to Quantifying the Growth Dynamic Process. Materials, 2022, 15, 1761.	2.9	1
2637	Indandione oligomer@graphene oxide functionalized nanocomposites for enhanced and selective detection of trace Cr2+ and Cu2+ ions. Advanced Composites and Hybrid Materials, 2022, 5, 1582-1594.	21.1	11
2638	High-Quality CsPbX₃ (X = Cl, Br, or I) Perovskite Nanocrystals Using Ascorbic Acid Post-Treatment: Implications for Light-Emitting Applications. ACS Applied Nano Materials, 2022, 5, 5972-5982.	5.0	24

#	Article	IF	Citations
2639	Enhanced Electromagnetic Interference Shielding Properties of Immiscible Polyblends with Selective Localization of Reduced Graphene Oxide Networks. Polymers, 2022, 14, 967.	4.5	6
2641	Vaporized Hydrothermal Functionalization of Carbon Fiber and Its Superior Supercapacitor Performance. Energy & Fuels, 2022, 36, 4052-4064.	5.1	14
2642	Insight into the Self-Assembled Three-Dimensional Sandwich-Like Hollow Silicon Nanoarray/Graphene Lithium Storage Architecture by Sonication-Assisted Functionalization. Energy & Fuels, 2022, 36, 3283-3292.	5.1	2
2643	Electrical and Structural Properties of CVD-Graphene Oxidized Using KMnO4/H2SO4 Solution. Crystals, 2022, 12, 439.	2.2	0
2644	Principal Component Analysis as a Tool for Electrochemical Characterization of Modified Electrodes: A Case Study. Journal of the Electrochemical Society, 0, , .	2.9	1
2645	A review: potential application and outlook of photothermal therapy in oral cancer treatment. Biomedical Materials (Bristol), 2022, 17, 022008.	3.3	11
2646	Synthesis of graphene via in-liquid discharge plasma: A green, novel strategy and new insight. Colloids and Interface Science Communications, 2022, 47, 100605.	4.1	6
2647	Achieving high strength and electrical properties in drawn fine Cu matrix composite wire reinforced by in-situ grown graphene. Journal of Materials Research and Technology, 2022, 17, 3205-3210.	5.8	8
2648	Dioxygen reduction using electrochemically reduced graphene oxide - Polymerized cobalt-4-pyridylporphyrin composite. International Journal of Hydrogen Energy, 2022, 47, 13629-13640.	7.1	6
2649	Electronic DFT-D modeling of L-citrulline molecules interactions with Beta-CD aligned rGO-APTES multi-functional nano-capsule for anti-corrosion application. Journal of Molecular Liquids, 2022, 354, 118814.	4.9	9
2650	Doping effect of zeolite-templated carbon on electrical conductance and supercapacitance properties. Carbon, 2022, 193, 42-50.	10.3	15
2651	Self-supporting nitrogen-doped reduced graphene oxide@carbon nanofiber hybrid membranes as high-performance integrated air cathodes in microbial fuel cells. Carbon, 2022, 193, 242-257.	10.3	18
2652	A composite graphene aerogel for real-time degradation of low-concentration ozone: The synergetic effect of defects. Journal of Environmental Chemical Engineering, 2022, 10, 107530.	6.7	1
2653	A versatile, heat-resisting, electrocatalytic active graphene framework by in-situ formation of boron nitride quantum dots. Carbon, 2022, 192, 123-132.	10.3	11
2654	Tailoring the synergy between polyaniline and reduced graphene oxide using organic acid dopant, pTSA for enhanced performance as electrode material for supercapacitor applications. Journal of Physics and Chemistry of Solids, 2022, 165, 110673.	4.0	5
2655	Self-redox reaction of carbon in molten salt for anode materials of lithium/sodium-ion batteries. Journal of Alloys and Compounds, 2022, 909, 164711.	5.5	6
2656	An overview on chemical processes for synthesis of graphene from waste carbon resources. Carbon Letters, 2022, 32, 653-669.	5.9	6
2657	Enhanced Sound Absorption Properties of Ceramics with Graphene Oxide Composites. ACS Omega, 2021, 6, 34242-34249.	3.5	3

#	Article	IF	Citations
2658	Ultrafast Graphitization and Reduction of Spongy Graphene Oxide by Low-Energy Electromagnetic Radiation to Boost the Performance and Stability of Carbon-Based Supercapacitors. ACS Applied Energy Materials, 2022, 5, 367-379.	5.1	5
2659	Rearrangement of Ion Transport Path on Nano-Cross-linker for All-Solid-State Electrolyte with High Room Temperature Ionic Conductivity. ACS Nano, 2021, 15, 20489-20503.	14.6	31
2660	Rolling Up of 2d Nanosheets into 1d Nanoscrolls: Visible-Light-Activated Chemiresistors Based on Surface Modified Indium Selenide with Enhanced Sensitivity and Stability. SSRN Electronic Journal, 0, , .	0.4	0
2661	Preparing Biomass Carbon Fiber Derived from Waste Rabbit Hair as a Carrier of TiO2 for Photocatalytic Degradation of Methylene Blue. Polymers, 2022, 14, 1593.	4.5	6
2662	Proton beam dosimetry based on the graphene oxide reduction and Raman spectroscopy. Vacuum, 2022, 201, 111113.	3.5	5
2663	Peroxymonosulfate activation by surface-modified bismuth vanadate for ciprofloxacin abatement under visible light: Insights into the generation of singlet oxygen. Chemical Engineering Journal, 2022, 444, 136373.	12.7	31
2664	Studies on copper (II) removal from aqueous solutions by poly (3,4-ethylene dioxythiophene) polystyrene/sulphonate Sn (IV)tungstatophosphate (PEDOT: PSS/STP) nanocomposite. International Journal of Environmental Analytical Chemistry, 0, , 1-17.	3.3	8
2665	Superiorly-hydrophilic chrysalis-like carbon-shell supported metallic Ni nanoparticles toward efficient oxygen reduction electrocatalysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 646, 128997.	4.7	5
2666	The structural evolution and mutation of graphite derived from coal under the influence of natural igneous plutonic intrusion. Fuel, 2022, 322, 124066.	6.4	10
2672	Exfoliation of Graphene from Graphite Facilitated by Chemical Edge-Decoration. SSRN Electronic Journal, 0, , .	0.4	0
2673	Facile Synthesis of Iron-Cobalt Bimetallic Mofs with Low Crystallinity and its Application in Photo-Fenton Degradation of Organic Dyes. SSRN Electronic Journal, 0, , .	0.4	0
2674	Fabrication of ultra-bright carbon nano-onions via a one-step microwave pyrolysis of fish scale waste in seconds. Green Chemistry, 2022, 24, 3969-3976.	9.0	16
2675	Electrochemical Activation of Commercial Graphite Sheet for Supercapacitive Application. SSRN Electronic Journal, 0, , .	0.4	0
2676	Micro-tailored g-C3N4 enables Ru single-atom loading for efficient photocatalytic H2 evolution. Applied Surface Science, 2022, 596, 153471.	6.1	14
2677	Effect of Surface Modification for Carbon Cathode Materials on Chargeâ€"Discharge Performance of Li-Air Batteries. Materials, 2022, 15, 3270.	2.9	2
2678	Quantum dots of graphene oxide as nano-additives trigger macroscale superlubricity with an extremely short running-in period. Materials Today Nano, 2022, 18, 100219.	4.6	14
2679	Pencil Scripted Ultrathin Graphene Nanostructure as Binderâ€Free Batteryâ€Type Electrode for Liâ€Ion Microâ€Capacitors with Excellent Performance. Energy Technology, 0, , 2200205.	3.8	3
2680	Electrical, dielectric, I-V and antimicrobial behavior of cobalt incapacitated Prussian blue graphene ferrites composite. Inorganic Chemistry Communication, 2022, 141, 109548.	3.9	9

#	Article	IF	Citations
2681	Rolling up of 2D nanosheets into 1D Nanoscrolls: Visible-Light-Activated chemiresistors based on surface modified indium selenide with enhanced sensitivity and stability. Chemical Engineering Journal, 2022, 446, 136937.	12.7	8
2682	MnO nanoparticles loaded on three-dimensional N-doped carbon as highly efficient electrocatalysts for the oxygen reduction reaction in alkaline media. International Journal of Hydrogen Energy, 2022, 47, 20507-20517.	7.1	4
2683	Bilayer-favored intercalation induced efficient and selective liquid phase production of bilayer graphene. Journal of Materials Chemistry A, 2022, 10, 14381-14391.	10.3	2
2684	FeP Coated in Nitrogen/Phosphorus Co-doped Carbon Shell Nanorods Arrays as High-Rate Capable Flexible Anode for K-ion Half/Full Batteries. Journal of Colloid and Interface Science, 2022, 624, 670-679.	9.4	13
2685	An angstrom-level d-spacing control of graphite oxide using organofillers for high-rate lithium storage. CheM, 2022, 8, 2393-2409.	11.7	27
2686	Surface acoustic wave immunosensor based on Au-nanoparticles-decorated graphene fluidic channel for CA125 detection. Sensors and Actuators B: Chemical, 2022, 367, 132063.	7.8	6
2687	A Comprehensive Review on Ion Beam-Reduced Graphene Oxide: Tailoring the Reduction with Optical, Electrical and Electronic Structural Properties. Journal of Electronic Materials, 0, , .	2.2	0
2688	Thermally reduced graphene/polypropylene nanocomposites: Effects of processing method on thermal, mechanical, and morphological properties. Journal of Polymer Research, 2022, 29, .	2.4	1
2689	One-step synthesis of NiS2/rGO composite for efficient electrocatalytic urea oxidation. MRS Energy & Sustainability, 2022, 9, 324-331.	3.0	1
2690	Conductive hydrogel constructs with three-dimensionally connected graphene networks for biomedical applications. Chemical Engineering Journal, 2022, 446, 137344.	12.7	29
2691	Graphene and graphene oxide energetic interactions with polymers through molecular dynamics simulations. Computational Materials Science, 2022, 211, 111548.	3.0	5
2692	Proton-Assisted Mixed-Valence Vanadium Oxides Cathode with Long-Term Stability for Rechargeable Aqueous Zinc Ion Batteries. SSRN Electronic Journal, 0, , .	0.4	0
2693	Direct synthesis of graphene by blowing CO2 bubble in Mg melt for the seawater/oil pollution. Journal of Alloys and Compounds, 2022, 921, 165938.	5.5	2
2694	Highly Efficient Chemoselective Hydrogenation of 5â€HMF to BHMF over Reusable Bimetallic Pdâ€Ir/C Catalyst. ChemistrySelect, 2022, 7, .	1.5	2
2695	Linear Energy Transfer (LET) dependence of graphene oxide dosimeter for different ionizing radiations. Vacuum, 2022, 203, 111240.	3.5	1
2696	Electrical and Nanomechanical Properties of Pinewood Biocarbon Produced Through High-Temperature Pyrolysis. SSRN Electronic Journal, 0, , .	0.4	0
2697	Facile synthesis of fumarate-type iron-cobalt bimetallic MOFs and its application in photo-Fenton degradation of organic dyes. Journal of Solid State Chemistry, 2022, 314, 123431.	2.9	16
2698	Study and Comparison of Different Routes to Synthesize Reduced Graphene Oxide. Journal of Nano Research, 0, 74, 69-82.	0.8	1

#	Article	IF	Citations
2699	Superior tribology property of zinc phosphate impregnated graphite block at high-temperature oxidative friction. Carbon Letters, 0, , .	5.9	2
2700	Advantages to use graphene oxide thin targets in forward ion acceleration using fs lasers. Contributions To Plasma Physics, 2022, 62, .	1.1	2
2701	PVA-integrated graphene oxide-attapulgite composite membrane for efficient removal of heavy metal contaminants. Environmental Science and Pollution Research, 2022, 29, 84410-84420.	5.3	5
2702	Enhancing the sensing behavior of a reduced graphene magnetite-based plasmonic optical fiber sensor. Applied Optics, 2022, 61, 6110.	1.8	1
2703	Investigation of bi/reduced graphene oxide electro-catalyst for CO2 reduction reaction. Materials Today: Proceedings, 2022, , .	1.8	0
2704	Photolithographic Highâ€Conductivity Transparent Conformal rGO/PEDOT:PSS Electrodes for Flexible Skinâ€Like All Solutionâ€Processed Organic Transistors. Advanced Materials Technologies, 2022, 7, .	5.8	3
2705	On the diazonium surface treatment of graphene oxide: effect on thermoelectric behavior of polythiophene hybrid ternary composites. Polymer Bulletin, 0, , .	3.3	4
2706	High conductive rGO sheets fabricated by mild, low-cost and scalable plasma-triggered reduction-exfoliation of 3D aerogel-like graphene oxide. FlatChem, 2022, 35, 100403.	5.6	2
2707	Synthesis of a superhydrophilic coral-like reduced graphene oxide aerogel and its application to pollutant capture in wastewater treatment. Chemical Engineering Science, 2022, 260, 117860.	3.8	8
2708	Ultra-high capacity and ultra-long cyclability anode materials of non-layered vanadium carbide(V8C7)@carbon microspheres for biapplications in Li-ion battery and Li-ion capacitor. Journal of Alloys and Compounds, 2022, 921, 166138.	5.5	4
2709	Upgrading of benzofuran to hydrocarbons by hydrodeoxygenation over nickelâ€"molybdenum carbide catalysts supported inside multi-wall carbon nanotubes. Fuel Processing Technology, 2022, 236, 107416.	7.2	6
2710	Electrochemical activation of commercial graphite sheets for supercapacitive applications. Electrochimica Acta, 2022, 431, 140882.	5.2	1
2711	Investigation on the mechanical, thermal, structural and morphological properties of polypropylene/ethylene-vinyl acetate copolymer/graphene oxide nanocomposites: effect of nanofiller surface functionalization and compatibilizers. Journal of Adhesion Science and Technology, 2023, 37, 1856-1890.	2.6	2
2712	Photoelectrochemical hydrogen generation at hybrid rGO-Sn3O4/SnO2 nanocomposite. Journal of Applied Electrochemistry, 2022, 52, 1469-1480.	2.9	2
2713	Synthesis, Characterization and Biomimetic Activity of Heterogenized Dioxidomolybdenum(VI) and Analogous Homogeneous Complexes. ChemistrySelect, 2022, 7, .	1.5	4
2714	A Machineâ€Learningâ€Enhanced Simultaneous and Multimodal Sensor Based on Moistâ€Electric Powered Graphene Oxide. Advanced Materials, 2022, 34, .	21.0	28
2715	Polyethylene glycol functionalized reduced graphene oxide coupled with zinc oxide composite adsorbent for removal of phenolic wastewater. Environmental Research, 2022, 214, 114044.	7.5	19
2716	Pool-Boiling Performance on Thin Metal Foils with Graphene-Oxide-Nanoflake Deposit. Nanomaterials, 2022, 12, 2772.	4.1	5

#	Article	IF	Citations
2717	Efficient and Stable Inverted Perovskite Solar Cells with Graphene Oxideâ€Modified Hole Transport Layer. Energy Technology, 2022, 10, .	3.8	4
2718	Graphene Oxide Loaded on TiO2-Nanotube-Modified Ti Regulates the Behavior of Human Gingival Fibroblasts. International Journal of Molecular Sciences, 2022, 23, 8723.	4.1	3
2719	Electron transfer dynamics and electrocatalytic oxygen evolution activities of the Co3O4 nanoparticles attached to indium tin oxide by self-assembled monolayers. Frontiers in Chemistry, 0, 10, .	3.6	2
2720	Proton-assisted mixed-valence vanadium oxides cathode with long-term stability for rechargeable aqueous zinc ion batteries. Electrochimica Acta, 2022, 429, 141003.	5.2	6
2721	Multilayered graphene oxide membranes for bioethanol purification: Microscopic insight from molecular simulation. Journal of Membrane Science, 2022, 660, 120888.	8.2	4
2722	Recent developments in graphene and graphene oxide materials for polymer electrolyte membrane fuel cells applications. Renewable and Sustainable Energy Reviews, 2022, 168, 112836.	16.4	59
2723	Microstructural features transformation at various temperature stages and multi-scale atomistic representations of calcined petroleum coke based on HRTEM. Fuel, 2022, 330, 125521.	6.4	4
2724	Engineering oxygen functional groups in reduced graphene oxide for use in <scp>highâ€performance</scp> flexible supercapacitors. International Journal of Energy Research, 2022, 46, 21884-21893.	4.5	4
2725	Gamma rays induced synthesis of graphene oxide/gold nanoparticle composites: structural and photothermal study. Radiation Physics and Chemistry, 2023, 202, 110545.	2.8	3
2726	Synergistic effect of nanosheet-array-like NiFe-LDH and reduced graphene oxide modified Ni foam for greatly enhanced oxygen evolution reaction and hydrogen evolution reaction. Materials Advances, 2022, 3, 6887-6896.	5.4	4
2727	Improving the yield of graphene oxide-catalysed N-heterocyclization of amines through fed batch mode. New Journal of Chemistry, 2022, 46, 17410-17420.	2.8	0
2728	A CdS/rGO QDs/TiO2 nanolawn photoanode co-decorated by reduced graphene oxide quantum dots and CdS nanoparticles with photoinduced cathodic protection characteristic for 316L SS and Cu. New Journal of Chemistry, 0, , .	2.8	1
2729	Role of ZrO₂ in TiO₂ composites with rGO as an electron mediator to enhance the photocatalytic activity for the photodegradation of methylene blue. Materials Advances, 2022, 3, 7904-7917.	5.4	2
2730	Reduced graphene oxide derived from urea-assisted solution combustion route and its electrochemical performance. Bulletin of Materials Science, 2022, 45, .	1.7	5
2731	Fabrication of DNAâ€based Biosensors Driven by Electrostatic Attractions on Electrodes Modified with Reduced Graphene Oxide and Multiâ€walled Carbon Nanotubes. ChemNanoMat, 2022, 8, .	2.8	2
2732	Batch and continuous studies on adsorptive removal of hexavalent chromium [Cr(<scp>VI</scp>)] using reduced graphene oxide. Journal of the Chinese Chemical Society, 0, , .	1.4	3
2733	An XPS Study of the Interaction of NO2 with Sibunit in the Presence of Supported Palladium Particles. Kinetics and Catalysis, 2022, 63, 532-542.	1.0	2
2734	Progress in preparation, characterization, surface functional modification of graphene oxide: A review. Journal of Saudi Chemical Society, 2022, 26, 101560.	5.2	21

#	Article	IF	Citations
2735	Decoration of Reduced Graphene Oxide with Magnesium Oxide during Reflux Reaction and Assessment of Its Antioxidant Properties. Journal of Carbon Research, 2022, 8, 49.	2.7	4
2736	Effects of anisotropy on magnetic and thermodynamic properties of a graphene cluster monolayer. Phase Transitions, 2022, 95, 823-836.	1.3	12
2737	Exfoliation of Graphene from Graphite Facilitated by Chemical Edge Decoration. Journal of Physical Chemistry C, 2022, 126, 19294-19303.	3.1	0
2738	Low Friction of Graphene Oxide Aggregates in Lubricant Oil between a Steel Ball and Glass Disk under Boundary Lubrication. ACS Omega, 2022, 7, 40983-40989.	3.5	2
2739	Energy band alignment engineering in nanostructured hybrid materials based on PbS QDs and reduced graphene oxide: Enhancing photodetector device performance. Journal of Alloys and Compounds, 2023, 932, 167707.	5.5	2
2740	NANOCOMPOSITES OF ZINC OXIDE ON GRAPHENE OXIDE: A RAPID REDUCTION OF GRAPHENE OXIDE. Digest Journal of Nanomaterials and Biostructures, 2021, 16, 101-107.	0.8	1
2741	In situ growth of metal-organic layer on ultrathin Ti3C2T MXene nanosheet boosting fast electron/ion transport for electrochemiluminescence enhancement. Biosensors and Bioelectronics, 2023, 220, 114886.	10.1	10
2742	Rationally designed rGO@CNTs@CNFs film as self-supporting binder-free Si electrodes for high-performance lithium-ion batteries. Journal of Colloid and Interface Science, 2023, 631, 249-257.	9.4	15
2743	Effects of Graphene Redox on Its Triboelectrification at the Nanoscale. Journal of Physical Chemistry C, 2022, 126, 19559-19570.	3.1	1
2744	The Influence of Lateral Size and Oxidation of Graphene Oxide on Its Chemical Reduction and Electrical Conductivity of Reduced Graphene Oxide. Molecules, 2022, 27, 7840.	3.8	6
2745	The Effects of Ultrasound Treatment of Graphite on the Reversibility of the (De)Intercalation of an Anion from Aqueous Electrolyte Solution. Nanomaterials, 2022, 12, 3932.	4.1	1
2746	Facile formation of porous, multilayer reduced graphene oxide electrodes using electrophoretic deposition and flash sintering. Carbon, 2023, 202, 186-195.	10.3	9
2747	Graphene Synthesis Techniques and Environmental Applications. Materials, 2022, 15, 7804.	2.9	20
2748	Graphene/Polyaniline nanocomposite as efficient electrocatalyst for oxygen reduction reaction for fuel cells. Inorganic Chemistry Communication, 2022, 146, 110192.	3.9	0
2749	Highly enhanced thermal conductance across metal/graphene/SiO2 interface by ion bombardment. International Communications in Heat and Mass Transfer, 2023, 140, 106560.	5.6	1
2750	Enhanced osteogenic differentiation of human mesenchymal stem cells using size-controlled graphene oxide flakes. , 2023, 144, 213221.		1
2751	Synthesis of rGO supported Cu@FeCo catalyst and catalytic hydrolysis of ammonia borane. RSC Advances, 2022, 13, 632-637.	3.6	3
2752	The effect of thermally treated AlN powder on PVT-grown single crystals. CrystEngComm, 0, , .	2.6	0

#	Article	IF	Citations
2753	MOF-derived 3D interconnected amorphous carbon nanowire networks for robust lithium storage. Microporous and Mesoporous Materials, 2023, 348, 112388.	4.4	3
2754	Innovations in the synthesis of graphene nanostructures for bio and gas sensors. , 2023, 145, 213234.		9
2755	Synthesis techniques and advances in sensing applications of reduced graphene oxide (rGO) Composites: A review. Composites Part A: Applied Science and Manufacturing, 2023, 165, 107373.	7.6	32
2756	Yolk-shell SiO2 wrapped by reduced graphene oxide for high performance lithium-ion battery anode. Journal of Alloys and Compounds, 2023, 937, 168324.	5.5	5
2757	Digital Twins Solve the Mystery of Raman Spectra of Parental and Reduced Graphene Oxides. Nanomaterials, 2022, 12, 4209.	4.1	3
2758	In situ growth-optimized synthesize of Al-MOF@RGO anode materials with long-life capacity-enhanced lithium-ion storage. Chemical Engineering Journal, 2023, 455, 140561.	12.7	1
2759	High Performing Chemically Ordered Pt₂CoNi/Ti@C as an Efficient and Stable Cathode Catalyst for Oxygen Reduction. ACS Applied Energy Materials, 2022, 5, 14922-14933.	5.1	1
2760	Activation of Molecular Oxygen for Alcohol Oxidation over Vanadium Carbon Catalysts Synthesized via the Heterogeneous Ligand Strategy. ACS Catalysis, 2022, 12, 15249-15258.	11.2	4
2761	Effect of the oxidation degree on the bandgap of graphene oxides by Tour method. , 2022, , .		1
2762	Acetylation Strategy for Unzipping Carbon Nanotubes in High-Performance Lithium-Ion Batteries. ACS Applied Nano Materials, 2022, 5, 18779-18787.	5.0	0
2763	Graphdiyne: Synthesis, modification and application of a two-dimensional carbonaceous material. New Carbon Materials, 2022, 37, 1089-1113.	6.1	1
2765	Viscosity-Controllable Graphene Oxide Colloids Using Electrophoretically Deposited Graphene Oxide Sheets. Micromachines, 2022, 13, 2157.	2.9	0
2766	Graphene memristors based on humidity-mediated reduction of graphene oxide. Journal of Materials Chemistry C, 2023, 11, 1690-1695.	5.5	2
2767	Titania supported dioxidotungsten(<scp>vi</scp>) complex as bio-mimic for the type II copper-containing oxidase enzyme phenoxazinone synthase. New Journal of Chemistry, 2023, 47, 2858-2873.	2.8	3
2768	Facile fabrication of robust superhydrophobic coating for enhanced corrosion protection on AZ91 magnesium alloy by electroless Ni-B/GO plating. Surface and Coatings Technology, 2023, 455, 129213.	4.8	20
2769	Low-noise room-temperature terahertz detector based on the photothermoelectric effect of graphene oxide-Bi films. Optical Materials, 2023, 136, 113432.	3.6	3
2770	Electro-oxidation of solid CaC2 to carbon powder in molten salt. Powder Technology, 2023, 416, 118214.	4.2	3
2771	A tubular flexible gas sensor fabricated by liquid-borne ultrasound for higher sensitivity and stability. Sensors and Actuators B: Chemical, 2023, 379, 133281.	7.8	1

#	Article	IF	Citations
2772	Enhanced Li storage properties of nickel oxalate microtubes with manganese doping and graphene oxide for lithium-ion batteries. Journal of Alloys and Compounds, 2023, 940, 168808.	5.5	7
2773	Antimicrobial Activity of Graphene Oxide Contributes to Alteration of Key Stress-Related and Membrane Bound Proteins. International Journal of Nanomedicine, 0, Volume 17, 6707-6721.	6.7	7
2774	Pâ€“N Heterojunction System Euâ€Đoped ZnO@GO for Photocatalytic Water Splitting. Global Challenges, 2023, 7, .	3.6	1
2775	One-Step Fabrication of Paper-Based Inkjet-Printed Graphene for Breath Monitor Sensors. Biosensors, 2023, 13, 209.	4.7	6
2776	Carbon-based gas sensing materials. , 2023, , 51-79.		0
2777	Influence of thermal interfacings on reduced graphene oxide characteristics and its photocatalytic activity degrading Rhodamine B. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	1
2778	Scalable and green formation of graphitic nanolayers produces highly conductive pyrolyzed paper toward sensitive electrochemical sensors. Nanoscale, 2023, 15, 6201-6214.	5.6	1
2779	Graphene-Based Touch Sensors. , 2023, , 54-70.		1
2780	Tenability and improvement of the structural, electronic, and optical properties of lead-free CsSnCl₃perovskite by incorporating reduced graphene oxide (rGO) for optoelectronic applications. Journal of Materials Chemistry C, 2023, 11, 3606-3615.	5.5	13
2781	Iron oxide/hydroxideâ€“nitrogen doped graphene-like visible-light active photocatalytic layers for antibiotics removal from wastewater. Scientific Reports, 2023, 13, .	3.3	6
2782	Visible Light Photocatalysis of TiO₂ Complexed with Albumin via a Ligand-to-Metal Charge Transfer (LMCT) Pathway. Journal of Physical Chemistry C, 2023, 127, 5408-5415.	3.1	6
2783	Reduced graphene oxides prepared via explosive and non-explosive thermal reduction: Structural evolution, functional properties and reinforcing efficacy. Carbon, 2023, 209, 118007.	10.3	3
2784	Enhanced capacitance and desalination performance with plasma activated biochar electrodes. Energy Technology, 0, , .	3.8	0
2785	Influence of Potassium Metalâ€Support Interactions on Dendrite Growth. Angewandte Chemie, 2023, 135, .	2.0	2
2786	Chalcogenide glass-tapered fiber sensor modified by graphene oxide doped with platinum nanoparticles for high-sensitivity measurement. Results in Physics, 2023, 47, 106348.	4.1	2
2787	Raman spectroscopy of carbon materials and their composites: Graphene, nanotubes and fibres. Progress in Materials Science, 2023, 135, 101089.	32.8	120
2788	Simultaneous removal of pharmaceuticals and heavy metals from aqueous phase via adsorptive strategy: A critical review. Water Research, 2023, 236, 119924.	11.3	27
2789	Investigation on the novel copper-based composite conductors synergistically improved by in-situ generated graphene and nanoparticles. Materials Characterization, 2023, 200, 112863.	4.4	1

#	Article	IF	Citations
2790	Surficial amino groups coupling induced concentration-dependent fluorescence and fluorescence quantum yield of nitrogen-dopped carbon quantum dots via efficient charge transfer. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2023, 294, 122542.	3.9	10
2791	Large-area ultra-thin GO nanofiltration membranes prepared by a pre-crosslinking rod coating technique. Journal of Colloid and Interface Science, 2023, 640, 261-269.	9.4	9
2792	Tunable reduced graphene oxide nanofiltration membrane for efficient retention and separation of dye/salt based on molecular interactions. Journal of Environmental Chemical Engineering, 2023, 11, 109735.	6.7	2
2793	Investigation of the microstructure and mechanical behaviour of resistance spot-welded CR210 steel joints using graphene as an interlayer. Materials Chemistry and Physics, 2023, 302, 127693.	4.0	2
2794	Intrinsic mechanisms for the inhibition effect of graphene oxide on the catalysis activity of alpha amylase. Journal of Hazardous Materials, 2023, 453, 131389.	12.4	3
2795	Adsorption properties and mechanism of sepiolite to graphene oxide in aqueous solution. Arabian Journal of Chemistry, 2023, 16, 104595.	4.9	3
2796	Characteristics of oxidized graphene using KMnO4/H2SO4 solution. , 2023, , .		0
2797	Improved Electrical and Thermal Conductivities of Grapheneâ€"Carbon Nanotube Composite Film as an Advanced Thermal Interface Material. Energies, 2023, 16, 1378.	3.1	6
2798	Fabrication of interdigitated electrodes of graphene oxide/silica by femtosecond laser-induced forward transfer for sensing applications. Journal of Applied Physics, 2023, 133, .	2.5	2
2799	Lamellar Carbon Composited Cobalt Iron Silicate with a Two-Dimensional Structure Toward Enhanced Electrochemical Properties for Supercapacitors. ACS Applied Energy Materials, 2023, 6, 2207-2218.	5.1	5
2800	The thermal stability of carbon materials in the air: Quantitative structural investigation of thermal stability of carbon materials in air. Carbon, 2023, 206, 211-225.	10.3	7
2801	Coal gasification fine slag residual carbon decorated with hollow-spherical Fe3O4 nanoparticles for microwave absorption. Ceramics International, 2023, 49, 17554-17565.	4.8	54
2802	Graphene nanoplatelets and other 2D-materials as protective means against the fading of coloured inks, dyes and paints. Nanoscale, 2023, 15, 5414-5428.	5.6	6
2803	Ionic liquid mediated synthesis of TiO2-ZnO-BMIMBr nanocomposite for electrochemical sensing of neurotransmitter. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	0
2804	Corrosion evaluation of AZ91D Mg alloy coated with HA, thermal reduced GO and MgF2 in simulated body fluid. Diamond and Related Materials, 2023, 134, 109812.	3.9	2
2805	Conductive Additives for Improving the Rate Capability of Cathode Materials in Secondary Lithium Batteries. ACS Applied Energy Materials, 2023, 6, 2855-2862.	5.1	4
2806	Synthesis of Boron-Doped Carbon Nanomaterial. Materials, 2023, 16, 1986.	2.9	3
2807	Diffusion-assisted metallic invasion into graphene oxide layer in metal/graphene oxide/metal structures. Journal of Materials Research, 2023, 38, 1832-1842.	2.6	0

#	Article	IF	Citations
2808	Antifouling and anticorrosion function of repeatable self-healing polyurethane composite inspired by the self-healing principle of cartilage tissue. Chemical Engineering Journal, 2023, 462, 142346.	12.7	5
2809	Influence of Potassium Metalâ€Support Interactions on Dendrite Growth. Angewandte Chemie - International Edition, 2023, 62, .	13.8	6
2810	Synergistic Effect of Pd Co-Catalyst and rGOâ€"TiO2 Hybrid Support for Enhanced Photoreforming of Oxygenates. Hydrogen, 2023, 4, 192-209.	3.4	0
2811	Durability and Surface Oxidation States of Antiviral Nano-Columnar Copper Thin Films. ACS Applied Materials & Interfaces, 2023, 15, 20398-20409.	8.0	5
2812	In-situ synergistic W18O49/Ti3C2Tx heterostructure as negative electrode for high energy density supercapacitors. Carbon, 2023, 208, 92-101.	10.3	14
2813	Thermal conductivity and electromagnetic shielding performance of three-dimensional anisotropic BN/MWCNT epoxy composites under low filling capacity. Colloid and Polymer Science, 0, , .	2.1	0
2814	Recent approach in producing transparent conductive films (TCFs). International Journal of Systems Assurance Engineering and Management, 0, , .	2.4	0
2815	Combined effect of multiple atomic interactions and structural catalysis on the dehydrogenation from MgH2 in Mg(H2)-Ni-rGO system. Applied Nanoscience (Switzerland), 0, , .	3.1	1
2816	Identification and Biological Evaluation of a Water-Soluble Fullerene Nanomaterial as BTK Kinase Inhibitor. International Journal of Nanomedicine, 0, Volume 18, 1709-1724.	6.7	3
2817	Exfoliated graphite with spinel oxide as an effective hybrid electrocatalyst for water splitting. RSC Advances, 2023, 13, 10215-10220.	3.6	0
2818	Application of g-C3N4/solâ€"gel nanocomposite on AM60B magnesium alloy and investigation of its properties. International Journal of Minerals, Metallurgy and Materials, 2023, 30, 1113-1127.	4.9	4
2819	Superhydrophilicity and Antifouling Behavior in Electrochemically Oxidized Nanocrystalline Pseudographite. Industrial & Engineering Chemistry Research, 0, , .	3.7	0
2820	Rationally engineering hierarchical porous carbon via oxidation-induced strategy for a high-performance flexible quasi-solid-state supercapacitor. Materials Today Chemistry, 2023, 30, 101563.	3.5	1
2822	Potassium Citrate-Activated Porous Carbon Nanostructures for CO₂ Adsorption and Electroreduction. ACS Applied Nano Materials, 2023, 6, 8839-8848.	5.0	3
2823	A novel mesoporous CoMn2O4@rGO composite as an electrode material for hybrid supercapacitor for energy storage device applications. Diamond and Related Materials, 2023, 137, 110098.	3.9	2
2824	Enhanced wear resistance of sustainable tire materials with plasma modified pyrolysis carbon black. Carbon, 2023, , 118201.	10.3	1
2825	Observation of induction period and oxygenated intermediates in methane oxidation over Pt catalyst. IScience, 2023, 26, 107061.	4.1	0
2826	Polar Cubic CeO₂ Nanoparticles on Graphene for Enhanced Room-Temperature NO₂ Sensing Performance. ACS Applied Nano Materials, 2023, 6, 10551-10558.	5.0	0

#	Article	IF	Citations
2827	Room Temperature Oxidation of Graphite by Nitrogen Dioxide with the Participation of Nanoparticles of Platinum Group Metals. Kinetics and Catalysis, 2023, 64, 1-16.	1.0	0
2828	3D graphene-based material: Overview, perspective, advancement, energy storage, biomedical engineering and environmental applications a bibliometric analysis. Journal of Environmental Chemical Engineering, 2023, 11, 110339.	6.7	5
2829	Controlled deposition via a bifunctional layer enables dendrite-free zinc metal batteries. Chemical Engineering Journal, 2023, 470, 144147.	12.7	1
2830	Fabrication of multiwalled carbon nanotubes/MoS2 nanocomposite: Application as temperature sensor. FlatChem, 2023, 40, 100521.	5.6	2
2831	Stabilization of a Carbon Support by Surface Oxygen with Respect to Nitrogen Dioxide in the Pd/HOPG Model System. Kinetics and Catalysis, 2023, 64, 320-327.	1.0	1
2832	Microcrystalline Graphite Oxide as Durable Catalyst Support for PEM Fuel Cell. International Journal of Electrochemical Science, 2012, 7, 11578-11587.	1.3	2
2833	Research on heat transfer properties of graphene composites. Applied Mathematics and Nonlinear Sciences, 2023, 8, 1209-1222.	1.6	0
2834	Effect of graphene oxide on cement mortar under quasi-static and dynamic loading. Journal of Building Engineering, 2023, 74, 106783.	3.4	3
2835	Phosphate ions detection by using an electrochemical sensor based on laser-scribed graphene oxide on paper. Electrochimica Acta, 2023, 461, 142600.	5.2	2
2836	Cation-Driven Assembly of Bilayered Vanadium Oxide and Graphene Oxide Nanoflakes to Form Two-Dimensional Heterostructure Electrodes for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2023, 15, 26525-26537.	8.0	2
2837	The efficient degradation of organic pollutants by Z-scheme MIL-88A@TiO2 heterojunction photo-Fenton catalyst: The synergistic effect of photocatalysis and Fenton catalysis. Journal of Alloys and Compounds, 2023, 960, 170688.	5.5	4
2838	Dual-Exciting Central Carbon Nanoclusters for the Dual-Channel Detection of Hemin. Inorganics, 2023, 11, 226.	2.7	1
2839	Synthesis and characterization of a new semiconductor nanocomposite based on polyaniline and graphene and investigating its electrochemical and electroconductivity properties. Journal of Organometallic Chemistry, 2023, 998, 122798.	1.8	2
2840	RF Sensor with Graphene Film for HRP Concentration Detection. Journal of Carbon Research, 2023, 9, 63.	2.7	1
2841	Pulsed Electrodeposition of Reduced Graphene Oxide on Glass Carbon Electrode as an Effective Support of Electrodeposited Pt Microspherical Particles: Nucleation Studies and the Application for Methanol Electro-Oxidation. International Journal of Electrochemical Science, 2013, 8, 2122-2139.	1.3	32
2842	Improved Electrochemical Preparation of Nano Porous-Graphene Oxide Edge Like Electrode for Cerium/Vanadium Redox Flow Batteries. International Journal of Electrochemical Science, 2013, 8, 12172-12183.	1.3	5
2843	A panoramic view of NO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e21121" altimg="si37.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mi mathvariant="normal">x</mml:mi></mml:mrow></mml:msub></mml:math> and NH3 gas sensors. Nano Structures Nano Objects, 2023, 35, 100995.	3.5	6
2844	Adsorption Performance of Magnetic Covalent Organic Framework Composites for Bisphenol A and Ibuprofen. Molecules, 2023, 28, 5214.	3.8	2

#	Article	IF	Citations
2845	Superior interlayer and compression properties of CFRPs due to inter-fiber â€œbridgesâ€•built by functionalized micro-nano scale graphene oxide synergistically. Composites Part A: Applied Science and Manufacturing, 2023, 173, 107689.	7.6	2
2848	Continuous On-Site H₂O₂ Electrosynthesis via Two-Electron Oxygen Reduction Enabled by an Oxygen-Doped Single-Cobalt Atom Catalyst with Nitrogen Coordination. ACS Applied Materials & Interfaces, 0, , .	8.0	0
2849	Super-Hydrophilic Coal-Based Carbon Fibers as Flexible Electrodes for Supercapacitors. Energy & Fuels, 2023, 37, 12427-12435.	5.1	4
2850	State, synthesis, perspective applications, and challenges of Graphdiyne and its analogues: A review of recent research. Advances in Colloid and Interface Science, 2023, 319, 102969.	14.7	3
2851	Self-Assembled Î±-Fe₂O₃@Co₃O₄/Graphene Quantum Dot Coreâ€“Hybrid Shell Wormlike Nanoarrays with Synergistic Effects for Photoelectrochemical Water Oxidation. ACS Sustainable Chemistry and Engineering, 2023, 11, 12102-12113.	6.7	1
2852	Selective hydrodesulfurization of FCC naphtha over carbon coated alumina supported CoMoS catalysts. Fuel, 2023, 354, 129394.	6.4	2
2853	Effects on the Microstructure Evolution and Properties of Graphene/Copper Composite during Rolling Process. Materials, 2023, 16, 5534.	2.9	0
2854	Preparation of graphitic foil with high thermal conductivity using Vitamin C as reductant and binder. Chemical Engineering Journal, 2023, 473, 145330.	12.7	4
2855	Sliding behavior at the graphene oxide and polyethylene interface. International Journal of Mechanical Sciences, 2024, 261, 108687.	6.7	1
2856	Derivatives of Sri Lankan Vein Graphite: Atomic Scale Study of Graphene Oxide and Reduced Graphene Oxide. Nanoscience and Nanotechnology - Asia, 2023, 13, .	0.7	0
2857	Wearable Temperature Sensors Based on Reduced Graphene Oxide Films. Materials, 2023, 16, 5952.	2.9	0
2858	Controlling the spacing of the linked graphene oxide system with dithiol linkers under confinement. Nanoscale Advances, 2023, 5, 4553-4562.	4.6	0
2859	Heterostructured Li₃VO₄â€“Ga₂O₃-embedded porous carbon nanofibers as advanced anode materials for lithium-ion batteries. Physical Chemistry Chemical Physics, 2023, 25, 24789-24796.	2.8	1
2860	Flexible thermocouple using a thermoelectric graphene fiber with a seamless junction. Journal of Materials Science and Technology, 2024, 172, 15-22.	10.7	5
2861	High-fidelity optical fiber microphone based on graphene oxide and Au nanocoating. Nanophotonics, 2023, 12, 3707-3719.	6.0	1
2862	Preparation and characterization of novel boron containing nanocomposites with neutron radiation shielding properties. Polymer Composites, 2023, 44, 8627-8639.	4.6	0
2863	Unveiling the Potential of Colorless Polyimideâ€Derived Laserâ€Induced Graphene: A Novel Pathway for Advanced Sensor and Energy Harvester Performance. Advanced Materials Interfaces, 2023, 10, .	3.7	0
2865	Photocatalytic oxygenation of sulfide using solar light and ingenious <scp>GQDs</scp>@<scp>AQ</scp> catalyst: Mechanistic and synthetic investigations. Photochemistry and Photobiology, 0, , .	2.5	0

#	Article	IF	Citations
2867	Scale-up synthesis of RuCoNi hydroxide/sulfide heterostructures in alkali for the industrial current density. Chemical Engineering Journal, 2023, 474, 145971.	12.7	1
2868	Pd nanoparticles lubricant additive catalyze the construction of carbon-based tribofilm to reduce graphitization-induced wear of DLC films under boundary lubrication. Applied Surface Science, 2023, 641, 158545.	6.1	1
2869	Characterization of graphene films formed using radical plasma species. Diamond and Related Materials, 2023, 139, 110416.	3.9	0
2870	Surface-enhanced Raman scattering of graphene oxide chemically modified by perylene diimide. Vibrational Spectroscopy, 2023, 129, 103602.	2.2	1
2871	One-Pot, Optimized Microwave-Assisted Synthesis of Difunctionalized and Bâ€"N Co-Doped Carbon Dots: Structural Characterization. Nanomaterials, 2023, 13, 2753.	4.1	2
2872	Application of Graphene in Supercapacitor and Wearable Sensor. Advanced Structured Materials, 2023, , 49-69.	0.5	0
2873	Boron and nitrogen co-doped carbon-based nanomaterials/nickel oxide/hydroxide hybrids for sunlight induced photocatalytic water cleaning. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 676, 132159.	4.7	0
2875	Enhanced phosphate adsorption and desorption characteristics of MgO-modified biochars prepared via direct co-pyrolysis of MgO and raw materials. Bioresources and Bioprocessing, 2023, 10, .	4.2	0
2876	Electro-conductive Nanocrystalline Cellulose Film Filled with TiO ₂-Reduced-Graphene Oxide Nanocomposite. , 2018, 3, 26-34.		0
2877	Bio-based chitosan-based film as a bifunctional fire-warning and humidity sensor. International Journal of Biological Macromolecules, 2023, 253, 126466.	7.5	1
2878	Study on filiform corrosion of A356 aluminum alloy under an organic coating. Journal of Materials Research and Technology, 2023, 26, 8124-8135.	5.8	1
2879	Three-dimensional interconnected graphene architecture reinforced epoxy composite with superior mechanical and tribological properties. Journal of Materials Research and Technology, 2023, 27, 2563-2576.	5.8	0
2880	Ultrafast transformation of natural graphite into self-supporting graphene as superior anode materials for lithium-ion batteries. Carbon, 2024, 216, 118559.	10.3	2
2881	Pre-oxidized ultramicroporous carbon cloth with ultrahigh volumetric capacity and ultralong lifespan for capacitive desalination. Npj Clean Water, 2023, 6, .	8.0	0
2882	â€œNon-layeredâ€•two-dimensional nanodiamond plates as nanoadditives in water lubrication. Wear, 2024, 536-537, 205174.	3.1	0
2883	Identification of active slip modes in twinned bicrystals of GNS/Cu composite through intragranular misorientation axes analysis. Materials Characterization, 2023, 206, 113413.	4.4	0
2884	Hybrid Aeromaterials for Enhanced and Rapid Volumetric Photothermal Response. ACS Nano, 2023, 17, 22444-22455.	14.6	0
2885	Electrochemically Reduced Graphene Oxide Supported Palladium-Cobalt Alloy Nanoparticles as Highly Efficient Electrocatalyst for Oxygen Reduction Reaction. ECS Journal of Solid State Science and Technology, 2023, 12, 111004.	1.8	1

#	Article	IF	Citations
2886	Fluorescent folic acid-chitosan/carbon dot for pH-responsive drug delivery and bioimaging. International Journal of Biological Macromolecules, 2024, 254, 127728.	7.5	2
2887	Information hidden behind a single peak in the C 1s spectrum of graphene on Ir(111). Applied Surface Science, 2024, 646, 158913.	6.1	0
2889	Preparation of PAN/GO composite nanofiber membrane for oil-containing wastewater treatment. Carbon Letters, 2024, 34, 109-122.	5.9	0
2890	Methane and carbon dioxide adsorption on carbon nano-onions synthesized by the submerged arc-discharge method. Adsorption, 2024, 30, 25-38.	3.0	1
2893	3D Stretchable Devices: Laserâ€Patterned Electronic and Photonic Structures. Advanced Electronic Materials, 2024, 10, .	5.1	0
2894	Synthesis of novel Gr/KTaO3 nanocubes by in-situ grown graphene with improved visible light photocatalytic activity. Journal of Alloys and Compounds, 2024, 976, 173113.	5.5	0
2895	Proactive Effect of Algae-Based Graphene Support on the Oxygen Evolution Reaction Electrocatalytic Activity of NiFe. Materials, 2023, 16, 7641.	2.9	1
2896	Combination of Multiple Operando and In-Situ Characterization Techniques in a Single Cluster System for Atomic Layer Deposition: Unraveling the Early Stages of Growth of Ultrathin Al2O3 Films on Metallic Ti Substrates. Inorganics, 2023, 11, 477.	2.7	0
2897	Chemical Method for Recovery and Regeneration of Graphene Oxide. ACS Applied Bio Materials, 0, , .	4.6	0
2898	Regulated Behavior in Living Cells with Highly Aligned Configurations on Nanowrinkled Graphene Oxide Substrates: Deep Learning Based on Interplay of Cellular Contact Guidance. ACS Nano, 0, , .	14.6	0
2900	Synergistic actuation performance of artificial fern muscle with a double nanocarbon structure. Materials Today Advances, 2024, 21, 100459.	5.2	0
2901	Modulate the Strong Exciton Effect by Na⁺ Coordination-Induced Trap States: Efficient Photocatalytic H₂O₂ Production. ACS Applied Materials & Interfaces, 0, , .	8.0	0
2902	Present Status and Perspectives of Graphene and Grapheneâ€related Materials in Cultural Heritage. Advanced Functional Materials, 2024, 34, .	14.9	1
2903	Nitrogen-Doped Graphene Materials with High Electrical Conductivity Produced by Electrochemical Exfoliation of Graphite Foil. Nanomaterials, 2024, 14, 123.	4.1	0
2904	Cotton fabric electrodes coated by polydopamine-reduced graphene oxide and polypyrrole for flexible supercapacitors. Journal of Materials Science: Materials in Electronics, 2024, 35, .	2.2	0
2905	Ceâ€Modified MgFeâ^'LDH Supported Au Particles: An Efficient Catalyst for Baseâ€Free Selective Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid. ChemistrySelect, 2024, 9, .	1.5	0
2906	In-Situ Construction of Anti-Aggregation Tellurium Nanorods/Reduced Graphene Oxide Composite to Enable Fast Sodium Storage. Nanomaterials, 2024, 14, 118.	4.1	0
2907	Intermolecular interactions in graphene and oxidized graphene nanocomposites. Composites Science and Technology, 2024, 248, 110433.	7.8	0

#	Article	IF	Citations
2908	KOH-mediated structural modification of activated charcoal by heat treatment for the efficient adsorption of organic dyes. Applied Surface Science Advances, 2024, 19, 100566.	6.8	0
2909	Electrocatalysts based on graphene oxide and its buckypaper for enhanced Zn-air battery performance. Journal of Electroanalytical Chemistry, 2024, 955, 118069.	3.8	0
2910	Electrochemical DNA Cleavage Sensing for EcoRV Activity and Inhibition with an ERGO Electrode. Biosensors, 2024, 14, 73.	4.7	0
2911	Anodic degradation behaviour of carbon fibre in CFRP at high-chloride and -alkali condition. Construction and Building Materials, 2024, 417, 135241.	7.2	0
2912	Synthesis and characterization PEG4000 - Graphene oxide nanosheets â€“ Black seed extraction as anticancer therapy. AIP Conference Proceedings, 2024, , .	0.4	0
2913	Big-small size design of carbon-based multilayer films for improved wear life. Surfaces and Interfaces, 2024, 46, 104071.	3.0	0
2914	Balancing microcrystalline domains in hard carbon with robust kinetics for a 46.7ÂWhÂkgâ¯1 practical lithium-ion capacitor. Chemical Engineering Journal, 2024, 485, 149880.	12.7	0
2915	Synergistically enhanced NH3 gas sensing of graphene oxide-decorated Nano-ZnO thin films. Materials Chemistry and Physics, 2024, 316, 129036.	4.0	0
2916	Facile Synthesis of a Graphene Film with Ultrahigh Thermal Conductivity via a Novel Pressure-Swing Hot-Pressing Method. Industrial & Engineering Chemistry Research, 2024, 63, 4442-4450.	3.7	0
2917	Ni Doped Co-MOF-74 Synergized with 2D Ti3C2Tx MXene as an Efficient Electrocatalyst for Overall Water-Splitting. Catalysts, 2024, 14, 184.	3.5	0
2918	Microcrystalline Cellulose-Based Eraser. ACS Sustainable Chemistry and Engineering, 2024, 12, 4887-4899.	6.7	0
2919	Self-healing superhydrophobic coating with durability based on EPÂ+ÂPDMS/SiO2 double-layer structure design. Progress in Organic Coatings, 2024, 190, 108359.	3.9	0
2920	Surface modification and coherence in lithium niobate SAW resonators. Scientific Reports, 2024, 14, .	3.3	0
2921	A novel heterogeneous biocatalyst based on graphene oxide for synthesis of pyran derivatives. Scientific Reports, 2024, 14, .	3.3	0
2922	Investigating the thermally induced p-n transition in reduced graphene oxide layers exposed to hydrogen sulfide. Sensors and Actuators B: Chemical, 2024, 409, 135611.	7.8	0
2923	Investigation of the performance and properties of ZnO/GO double-layer supercapacitor. Journal of Physics and Chemistry of Solids, 2024, 191, 111984.	4.0	0
2924	Improving the interfacial adhesion between recycled carbon fibres and polyphenylene sulphide by bio-inspired dopamine for advanced composites manufacturing. Journal of Cleaner Production, 2024, 449, 141855.	9.3	0