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## Perspectives on carbon nanotubes and graphene Raman spectroscopy

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2301	Electrostatic Stabilization of Graphene in Organic Dispersions.		
2300	Design of In Situ Poled Ce <sup>3+</sup> -Doped Electrospun PVDF/Graphene Composite Nanofibers for Fabrication of Nanopressure Sensor and Ultrasensitive Acoustic Nanogenerator.		
2299	.		
2298	Direct Growth of Wafer-Scale, Transparent, pType Reduced-Graphene-Oxide-like Thin Films by Pulsed Laser Deposition.		
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1347	Microscopic mechanical properties of titanium composites containing multi-layer graphene nanofillers. <b>2016</b> , 109, 256-263	77
1346	Nitrogen-doped mesoporous carbon nanosheet/carbon nanotube hybrids as metal-free bi-functional electrocatalysts for water oxidation and oxygen reduction. <b>2016</b> , 4, 13133-13141	102
1345	Systematic Characterization of Graphene ESD Interconnects for On-Chip ESD Protection. <b>2016</b> , 63, 3205-3212	25
1344	A Bilayered Structure Comprised of Functionalized Carbon Nanotubes for Desalination by Membrane Distillation. <b>2016</b> , 8, 19507-13	40
1343	Raman spectroscopy of transition metal dichalcogenides. <b>2016</b> , 28, 353002	114
1342	Relatively low temperature deposition of graphene like films with ethane GCIB irradiation. <b>2016</b> , 306, 218-221	
1341	Preparation of Bulk Graphene Nanoplatelets by Spark Plasma Sintering [Electrical and Thermal Properties. <b>2016</b> , 15, 1660003	2
1340	Graphene Oxide-Gallic Acid Nanodelivery System for Cancer Therapy. <b>2016</b> , 11, 491	42
1339	One-step Preparation of Nanoarchitected TiO <sub>2</sub> on Porous Al as Integrated Anode for High-performance Lithium-ion Batteries. <b>2016</b> , 6, 20138	24
1338	Graphene-coated meshes for electroactive flow control devices utilizing two antagonistic functions of repellency and permeability. <b>2016</b> , 7, 13345	23
1337	Holey graphene frameworks for highly selective post-combustion carbon capture. <b>2016</b> , 6, 21537	42
1336	A versatile technique to transfer multi-walled carbon nanotubes membranes to surfaces. <b>2016</b> , 3, 035001	4
1335	Mechanically-Assisted Electrochemical Production of Graphene Oxide. <b>2016</b> , 28, 8429-8438	67
1334	Kinetic enhancement of LiBH <sub>4</sub> /MgH <sub>2</sub> composite by pre-milled MWCNTs observed by in situ X-ray diffraction measurements. <b>2016</b> , 41, 22090-22096	10
1333	Reduced graphene oxide uniformly decorated with Co nanoparticles: facile synthesis, magnetic and catalytic properties. <b>2016</b> , 6, 107709-107716	13
1332	A theoretical review on electronic, magnetic and optical properties of silicene. <b>2016</b> , 79, 126501	106
1331	Effects of Stone-Wales defect on the electronic and transport properties of bilayer armchair graphene nanoribbons. <b>2016</b> , 100, 739-748	7

1330	Structurally Tuning Li <sub>2</sub> O <sub>2</sub> by Controlling the Surface Properties of Carbon Electrodes: Implications for Li <sub>2</sub> O <sub>2</sub> Batteries. <b>2016</b> , 28, 8006-8015	65
1329	Characterization of a superlubricity nanometer interface by Raman spectroscopy. <b>2016</b> , 27, 325701	3
1328	Vision-based position control applied to probe positioning for Tip Enhanced Raman Spectroscopy. <b>2016</b> ,	1
1327	Microwave-Assisted Fabrication of Recyclable CdS/Fe <sub>3</sub> O <sub>4</sub> /rGO Photocatalysts to Improve the Photocatalytic Performance Under Visible Light. <b>2016</b> , 11, 1650129	4
1326	Modulating Electronic Properties of Monolayer MoS via Electron-Withdrawing Functional Groups of Graphene Oxide. <b>2016</b> , 10, 10446-10453	30
1325	Facile Synthesis of Three-Dimensional Heteroatom-Doped and Hierarchical Egg-Box-Like Carbons Derived from Moringa oleifera Branches for High-Performance Supercapacitors. <b>2016</b> , 8, 33060-33071	102
1324	Unveiling conducting pathways embedded in strongly disordered graphene. <b>2016</b> , 31, 115001	1
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1321	Flexible Sodium-Ion Pseudocapacitors Based on 3D Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> Nanosheet Arrays/Carbon Textiles Anodes. <b>2016</b> , 26, 3703-3710	224
1320	Mechanical properties of polytetrafluoroethylene composites reinforced with graphene nanoplatelets by solid-state processing. <b>2016</b> , 95, 317-323	28
1319	Microwave-Assisted Synthesis of SnO <sub>2</sub> @polypyrrole Nanotubes and Their Pyrolyzed Composite as Anode for Lithium-Ion Batteries. <b>2016</b> , 8, 15598-606	51
1318	Structural and vibrational study of graphene oxide via coronene based models: theoretical and experimental results. <b>2016</b> , 3, 055020	15
1317	Novel Three-Dimensional Carbon Nanotube/Graphene Architecture with Abundant Chambers and Its Application in Lithium/Silicon Batteries. <b>2016</b> , 120, 13807-13814	20
1316	Crystal engineering in 3D: converting nanoscale lamellar manganese oxide to cubic spinel while affixed to a carbon architecture. <b>2016</b> , 18, 6035-6048	7
1315	Graphene/cobalt nanocarrier for hyperthermia therapy and MRI diagnosis. <b>2016</b> , 146, 271-9	43
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1313	The Effect of TaC Reinforcement on the Oxidation Resistance of CNTs/SiC CMCs. <b>2016</b> , 25, 874-883	4



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1311	Raman and FTIR Spectroscopy as Valuable Tools for the Characterization of Graphene-Based Materials. <b>2016</b> , 253-272	
1310	Graphene Gas Sensor: Single-Molecule Gas Detection. <b>2016</b> , 329-348	
1309	Inclusion complex between cisplatin and single-walled carbon nanotube: An integrated experimental and theoretical approach. <b>2016</b> , 447, 38-44	20
1308	Use of Raman spectroscopy to identify carbon nanotube contamination at an analytical balance workstation. <b>2016</b> , 13, 915-923	8
1307	Steam reforming of n-decane toward H <sub>2</sub> production over Ni/Ce-Al <sub>2</sub> O <sub>3</sub> composite catalysts: Effects of M (M = Fe, Co, Cu, Zn) promoters. <b>2016</b> , 120, 238-246	16
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1302	Nitrogen-Doped High Surface Area Carbon as Efficient Electrode Material for Supercapacitors. <b>2016</b> , 11, 1650076	6
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1300	Carbon nanotube/Prussian blue thin films as cathodes for flexible, transparent and ITO-free potassium secondary battery. <b>2016</b> , 478, 107-16	54
1299	White light emission of carbon dots by creating different emissive traps. <b>2016</b> , 178, 128-133	37
1298	Porous and high electronic conductivity nitrogen-doped nano-sheet carbon derived from polypyrrole for high-power supercapacitors. <b>2016</b> , 107, 638-645	79
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1296	Supramolecular interactions of fluorene-based copolymers containing 3,4-propylenedioxythiophene and phenazine units with SWNTs. <b>2016</b> , 7, 5241-5248	9
1295	Three-dimensional graphene foam and carbon fibers reinforced epoxy resin composites with enhanced thermal conductivity. <b>2016</b> ,	0

1294	Reduced graphene oxide supported TiO <sub>2</sub> as high performance catalysts for oxygen reduction reaction. <b>2016</b> , 41, 3436-3445	32
1293	Effect of synthesis catalyst on structure of nitrogen-doped carbon nanotubes and electrical conductivity and electromagnetic interference shielding of their polymeric nanocomposites. <b>2016</b> , 98, 358-372	166
1292	High temperature low vacuum synthesis of a freestanding three-dimensional graphene nano-ribbon foam electrode. <b>2016</b> , 4, 2617-2629	17
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1282	Application of monitoring methodology in carbon complex contained solution using surface-enhanced Raman spectroscopy (SERS). <b>2016</b> , 51, 500-511	1
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1279	O <sub>2</sub> reduction on electrodes modified with nitrogen doped carbon nanotubes synthesized with different metal catalysts. <b>2016</b> , 64, 119-129	19
1278	Synthesis and characterization of graphene oxide filled ethylene methyl acrylate hybrid nanocomposites. <b>2016</b> , 6, 20781-20790	89
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1271	Reductively PEGylated carbon nanomaterials and their use to nucleate 3D protein crystals: a comparison of dimensionality. <b>2016</b> , 7, 2916-2923	34
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1264	Selective dispersion of single-walled carbon nanotubes with electron-rich fluorene-based copolymers. <b>2016</b> , 6, 25733-25740	14
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1258	Electrically conductive graphene nanoplatelet/boron carbide composites with high hardness and toughness. <b>2016</b> , 114, 98-102	47
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1256	Catalyst-free approach for growth of graphene sheets on high-density silica nanowires by CVD. <b>2016</b> , 162, 165-168	6
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1244	Facile synthesis of three-dimensional graphene/protein aerogel composites for tetracycline adsorption. <b>2016</b> , 57, 9510-9519	26
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1238	Production of carbon nanostructures in biochar, bio-oil and gases from bagasse via microwave assisted pyrolysis using Fe and Co as susceptors. <b>2017</b> , 124, 310-318	42
1237	Facile and large-scale synthesis of high quality few-layered graphene nano-platelets via methane decomposition over unsupported iron family catalysts. <b>2017</b> , 191, 75-85	30
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1235	Biodegradation of Carbon Nanotubes, Graphene, and Their Derivatives. <b>2017</b> , 35, 836-846	163
1234	Insights into the Oxidation Mechanism of sp-sp Hybrid Carbon Materials: Preparation of a Water-Soluble 2D Porous Conductive Network and Detectable Molecule Separation. <b>2017</b> , 33, 913-919	31
1233	Synthesis of Pb nanowires-Au nanoparticles nanostructure decorated with reduced graphene oxide for electrochemical sensing. <b>2017</b> , 165, 604-611	22
1232	Metal organic framework derived NiFe@N-doped graphene microtube composites for hydrogen evolution catalyst. <b>2017</b> , 116, 68-76	62
1231	Novel Strategy for One-Pot Synthesis of Gold Nanoplates on Carbon Nanotube Sheet As an Effective Flexible SERS Substrate. <b>2017</b> , 9, 6246-6254	47
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1221	Low-Temperature Synthesis of Graphene/SiC Nanocomposite Anodes with Super-Long Cycling Stability. <b>2017</b> , 4, 1320-1326	9
1220	Excellent Cycling Stability and Superior Rate Capability of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Cathodes Enabled by Nitrogen-Doped Carbon Interpenetration for Sodium-Ion Batteries. <b>2017</b> , 4, 1256-1263	27
1219	Raman spectroscopy using plasmonic and carbon-based nanoparticles for cancer detection, diagnosis, and treatment guidance. Part 1: Diagnosis. <b>2017</b> , 49, 212-252	13
1218	Friction and wear behavior of alumina-based graphene and CNFs composites. <b>2017</b> , 37, 3805-3812	25
1217	Nanoscale engineering of hybrid magnetite/carbon nanofibre materials for magnetic resonance imaging contrast agents. <b>2017</b> , 5, 2167-2174	10
1216	Fabrication of flexible optoelectronic devices based on MoS <sub>2</sub> /graphene hybrid patterns by a soft lithographic patterning method. <b>2017</b> , 116, 167-173	37
1215	In-situ Conversion of Multiwalled Carbon Nanotubes to Graphene Nanosheets: An Increasing Capacity Anode for Li Ion Batteries. <b>2017</b> , 231, 255-263	12
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1212	Physicochemical Characterization. <b>2017</b> , 15-49	3
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1210	Efficient Nitrogen Doping of Single-Layer Graphene Accompanied by Negligible Defect Generation for Integration into Hybrid Semiconductor Heterostructures. <b>2017</b> , 9, 10003-10011	36
1209	High-efficient visible-light photocatalyst based on graphene incorporated Ag <sub>3</sub> PO <sub>4</sub> nanocomposite applicable for the degradation of a wide variety of dyes. <b>2017</b> , 340, 70-79	20
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1204	Tailoring multifunctional graphene-based thin films: from nanocatalysts to SERS substrates. <b>2017</b> , 5, 9591-9603	23
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1200	Porous Graphene Sponge Additives for Lithium Ion Batteries with Excellent Rate Capability. <b>2017</b> , 7, 925	16
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1194	In-situ formed graphene nanoribbon induced toughening and thermal shock resistance of spark plasma sintered carbon nanotube reinforced titanium carbide composite. <b>2017</b> , 123, 227-240	36
1193	High-Performance Asymmetric Li-Ion Pseudocapacitors Based on Pyroprotein Nanowebs. <b>2017</b> , 4, 2079-2083	1
1192	A novel functionalization method for carbon nanotubes to repel ox-LDL in treatments after stent placement. <b>2017</b> , 79, 30-36	7
1191	Semiconductor-to-Metal Transition in Carbon-Atom Wires Driven by sp <sup>2</sup> Conjugated End Groups. <b>2017</b> , 121, 10562-10570	36
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1187	Magnetic field controlled graphene oxide-based origami with enhanced surface area and mechanical properties. <b>2017</b> , 9, 6991-6997	29

1186	Modifying Commercial Carbon with Trace Amounts of ZIF to Prepare Derivatives with Superior ORR Activities. <b>2017</b> , 29, 1701354	82
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1184	One-step synthesis of bulk quantities of graphene from graphite by femtosecond laser ablation under ambient conditions. <b>2017</b> , 97, 229-234	6
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1182	Primary microglia maintain their capacity to function despite internalisation and intracellular loading with carbon nanotubes. <b>2017</b> , 2, 284-296	7
1181	Carbon Nanotube-Multilayered Graphene Edge Plane Core-Shell Hybrid Foams for Ultrahigh-Performance Electromagnetic-Interference Shielding. <b>2017</b> , 29, 1701583	379
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1178	Effects of boron addition on the high temperature oxidation resistance of dense sSiBCN monoliths at 1500 °C. <b>2017</b> , 126, 10-25	25
1177	High-temperature oxidation behavior of dense SiBCN monoliths: Carbon-content dependent oxidation structure, kinetics and mechanisms. <b>2017</b> , 124, 103-120	22
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1175	Cool white, persistent room-temperature phosphorescence in carbon dots embedded in a silica gel matrix. <b>2017</b> , 19, 15137-15144	64
1174	From two-dimensional materials to their heterostructures: An electrochemist's perspective. <b>2017</b> , 8, 68-103	153
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1172	Biocatalytic Nanocomposites for Combating Bacterial Pathogens. <b>2017</b> , 8, 87-113	17
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1169	High-modulus and strength carbon nanotube fibers using molecular cross-linking. <b>2017</b> , 118, 413-421	57



1168	High-Throughput Optical Imaging and Spectroscopy of One-Dimensional Materials. <b>2017</b> , 23, 9703-9710	
1167	Synthesis of flower-like molybdenum sulfide/graphene hybrid as an efficient oxygen reduction electrocatalyst for anion exchange membrane fuel cells. <b>2017</b> , 353, 104-114	20
1166	The synthesis of hierarchical nanostructured MoS <sub>2</sub> /Graphene composites with enhanced visible-light photo-degradation property. <b>2017</b> , 412, 207-213	53
1165	Carbon nanofibers replacing graphene oxide in ceramic composites as a reinforcing-phase: Is it feasible?. <b>2017</b> , 37, 3791-3796	12
1164	All-Printable ZnO Quantum Dots/Graphene van der Waals Heterostructures for Ultrasensitive Detection of Ultraviolet Light. <b>2017</b> , 11, 4114-4123	122
1163	The effect of thermally induced chemical transformations on the structure and properties of carbon fibre precursors. <b>2017</b> , 5, 7372-7382	28
1162	Improvement in color properties of copper mesh electrodes via electrophoretic coating with nano-structured carbon materials. <b>2017</b> , 121, 095306	5
1161	Raman spectroscopy enabled investigation of carbon nanotubes quality upon dispersion in aqueous environments. <b>2017</b> , 12, 011004	13
1160	Comparative characterization of graphene grown by chemical vapor deposition, transferred to nonconductive substrate, and subjected to Ar ion bombardment using X-ray photoelectron and Raman spectroscopies. <b>2017</b> , 76, 14-20	10
1159	Advanced anodes composed of graphene encapsulated nano-silicon in a carbon nanotube network. <b>2017</b> , 7, 15694-15701	26
1158	Novel Preparation of Titania-Modified CMK-3 Nanostructured Material as Support for Ir Catalyst Applied in Hydrodenitrogenation of Indole. <b>2017</b> , 147, 1029-1039	10
1157	Hierarchical MoS <sub>2</sub> -coated three-dimensional graphene network for enhanced supercapacitor performances. <b>2017</b> , 352, 99-110	81
1156	A simple ultrasono-synthetic route of PbSe-graphene-TiO <sub>2</sub> ternary composites to improve the photocatalytic reduction of CO <sub>2</sub> . <b>2017</b> , 25, 449-458	13
1155	Simultaneous co-doping of N and S by a facile in-situ polymerization of 6-N,N-dibutylamine-1,3,5-triazine-2,4-dithiol on graphene framework: An efficient and durable oxygen reduction catalyst in alkaline medium. <b>2017</b> , 118, 531-544	28
1154	Electrochemical deposition of carbon nanotubes from CO <sub>2</sub> in CaCl <sub>2</sub> /NaCl-based melts. <b>2017</b> , 5, 6219-6225	32
1153	Raman spectroscopy using plasmonic and carbon-based nanoparticles for cancer detection, diagnosis, and treatment guidance. Part 2: Treatment. <b>2017</b> , 49, 253-283	12
1152	Nitrogen-doped multiwalled carbon nanotubes decorated with copper(I) oxide nanoparticles with enhanced capacitive properties. <b>2017</b> , 52, 6280-6290	20
1151	Defect-mediated synthesis of Pt nanoparticles uniformly anchored on partially-unzipped carbon nanofibers for electrochemical biosensing. <b>2017</b> , 709, 304-312	4

1150	NiO/nanoporous carbon heterogeneous Fenton catalyst for aqueous microcystine-LR decomposition. <b>2017</b> , 74, 289-295	9
1149	Disentangling contributions of point and line defects in the Raman spectra of graphene-related materials. <b>2017</b> , 4, 025039	97
1148	Structural and mechanical properties of free-standing multiwalled carbon nanotube paper prepared by an aqueous mediated process. <b>2017</b> , 52, 7503-7515	15
1147	Electrochemically exfoliating graphite into N-doped graphene and its use as a high efficient electrocatalyst for oxygen reduction reaction. <b>2017</b> , 21, 1287-1295	13
1146	Polyurethane membrane with a cyclodextrin-modified carbon nanotube for pervaporation of phenol/water mixture. <b>2017</b> , 37, 449-459	4
1145	A comparative study on few-layer graphene production by exfoliation of different starting materials in a low boiling point solvent. <b>2017</b> , 1, 74-88	36
1144	Graphene oxide as a nanocarrier for controlled release and targeted delivery of an anticancer active agent, chlorogenic acid. <b>2017</b> , 74, 177-185	71
1143	Large electrorheological phenomena in graphene nano-gels. <b>2017</b> , 28, 035702	14
1142	Synthesis of graphitic-N and amino-N in nitrogen-doped carbon via a solution plasma process and exploration of their synergic effect for advanced oxygen reduction reaction. <b>2017</b> , 5, 2073-2082	67
1141	Carbon Nanotube/Graphene Nanoribbon/Polyvinylidene Fluoride Hybrid Nanocomposites: Rheological and Dielectric Properties. <b>2017</b> , 121, 169-181	52
1140	Facile synthesis and enhanced catalytic performance of reduced graphene oxide decorated with hexagonal structure Ni nanoparticles. <b>2017</b> , 487, 223-230	15
1139	Investigation on enhancing effects of Au nanoparticles on solar steam generation in graphene oxide nanofluids. <b>2017</b> , 114, 961-968	106
1138	Insights into chemical doping to engineer the carbon nanotube/silicon photovoltaic heterojunction interface. <b>2017</b> , 5, 24247-24256	10
1137	A combined experimental and theoretical investigation of the Al-Melamine reactive milling system: A mechanistic study towards AlN-based ceramics. <b>2017</b> , 729, 240-248	8
1136	Microstructures and properties of silicon carbide- and graphene nanoplatelet-reinforced titanium diboride composites. <b>2017</b> , 729, 949-959	27
1135	Controlled direct electron transfer kinetics of fructose dehydrogenase at cup-stacked carbon nanofibers. <b>2017</b> , 19, 27795-27800	14
1134	Investigation of Hybrid Conjugated/Nonconjugated Polymers for Sorting of Single-Walled Carbon Nanotubes. <b>2017</b> , 50, 8002-8009	10
1133	Facile synthesis route of graphene-like structures from multiwall carbon nanotubes. <b>2017</b> , 25, 540-544	6

1132	FeS Nanoparticles Wrapped in an rGO Matrix for Promising Energy Storage: Outstanding Cyclic and Rate Performance. <b>2017</b> , 9, 37694-37701	79
1131	Functionalized Carbon Nanotubes with Ni(II) Bipyridine Complexes as Efficient Catalysts for the Alkaline Oxygen Evolution Reaction. <b>2017</b> , 7, 8033-8041	46
1130	Decoration of Carbon Nanotubes with MnO <sub>2</sub> Nanoparticles Under Potassium Permanganate Treatment. <b>2017</b> , 60, 915-918	2
1129	Hierarchically Porous Graphitic Carbon with Simultaneously High Surface Area and Colossal Pore Volume Engineered via Ice Templating. <b>2017</b> , 11, 11047-11055	57
1128	Wettability of monolayer graphene/single-walled carbon nanotube hybrid films. <b>2017</b> , 7, 48184-48188	1
1127	Comparison on graphite, graphene oxide and reduced graphene oxide: Synthesis and characterization. <b>2017</b> ,	90
1126	Mesoscale evolution of non-graphitizing pyrolytic carbon in aligned carbon nanotube carbon matrix nanocomposites. <b>2017</b> , 52, 13799-13811	11
1125	Multiwall carbon nanotubes filled with Al <sub>4</sub> C <sub>3</sub> : Spectroscopic signatures for electron-phonon coupling due to doping process. <b>2017</b> , 124, 348-356	6
1124	Nitrogen-doped micropore-dominant carbon derived from waste pine cone as a promising metal-free electrocatalyst for aqueous zinc/air batteries. <b>2017</b> , 365, 76-82	24
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1122	Nitrogen-rich green leaves of papaya and <i>Coccinia grandis</i> as precursors of activated carbon and their electrochemical properties. <b>2017</b> , 7, 42064-42072	9
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1117	Optical Characterization of Graphene and Its Derivatives: An Experimentalist's Perspective. <b>2017</b> , 27-59	2
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1115	Special Studies and Characterization of CNT Dispersions. <b>2017</b> , 173-221	1

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1108	Dispersion of single-walled carbon nanotubes using nucleobase-containing poly(acrylamide) polymers. <b>2017</b> , 55, 2611-2617	6
1107	Growth of few- and multilayer graphene on different substrates using pulsed nanosecond Q-switched Nd:YAG laser. <b>2017</b> , 52, 12295-12306	9
1106	n-decane steam reforming for hydrogen production over mono- and bi-metallic Co-Ni/Ce-Al <sub>2</sub> O <sub>3</sub> catalysts: Structure-activity correlations. <b>2017</b> , 148, 954-962	20
1105	Novel multidimensional carbons from structural transformations of waste lignin: A low temperature pyrolysis investigation. <b>2017</b> , 166, 312-321	18
1104	Temperature-dependent selective growth of carbon nanotubes in Si/SiO <sub>2</sub> structures for field emitter array applications. <b>2017</b> , 95, 129-137	7
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1099	Pulsed KrF laser-assisted direct deposition of graphitic capping layer for Cu interconnect. <b>2017</b> , 123, 307-310	6
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1097	Chemically fluorinated graphene oxide for room temperature ammonia detection at ppb levels. <b>2017</b> , 5, 19116-19125	58

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1087	Cobalt Catalyst Grown Carbon Nanotube/Poly(Vinylidene Fluoride) Nanocomposites: Effect of Synthesis Temperature on Morphology, Electrical Conductivity and Electromagnetic Interference Shielding. <b>2017</b> , 2, 10271-10284	26
1086	Highly Efficient Electromagnetic Wave Absorbing Metal-Free and Carbon-Rich Ceramics Derived from Hyperbranched Polycarbosilazanes. <b>2017</b> , 121, 24774-24785	60
1085	Excited-State Interaction of Semiconducting Single-Walled Carbon Nanotubes with Their Wrapping Polymers. <b>2017</b> , 8, 5666-5672	16
1084	Size dependent Raman and absorption studies of single walled carbon nanotubes synthesized by pulse laser deposition at room temperature. <b>2017</b> , 72, 612-617	12
1083	Occurrence of photoluminescence and onion like structures decorating graphene oxide with europium using sodium dodecyl sulfate surfactant. <b>2017</b> , 4, 075006	1
1082	Extremely permeable porous graphene with high H <sub>2</sub> /CO separation ability achieved by graphene surface rejection. <b>2017</b> , 19, 18201-18207	7
1081	Chemical functionalization and characterization of graphene-based materials. <b>2017</b> , 46, 4464-4500	285
1080	Facile growth of Cu <sub>2</sub> O hollow cubes on reduced graphene oxide with remarkable electrocatalytic performance for non-enzymatic glucose detection. <b>2017</b> , 41, 9223-9229	32
1079	Application of atmospheric-pressure plasma jet processed carbon nanotubes to liquid and quasi-solid-state gel electrolyte supercapacitors. <b>2017</b> , 425, 321-328	29

1078	Microstructural and mechanical behavior of spark plasma sintered titanium carbide with hybrid reinforcement of tungsten carbide and carbon nanotubes. <b>2017</b> , 702, 10-21	19
1077	Nitrogen doped and hierarchically porous carbons derived from chitosan hydrogel via rapid microwave carbonization for high-performance supercapacitors. <b>2017</b> , 122, 592-603	82
1076	Ultrathin Ni-Co double hydroxide nanosheets with conformal graphene coating for highly active oxygen evolution reaction and lithium ion battery anode materials. <b>2017</b> , 327, 9-17	66
1075	Different types of nitrogen species in nitrogen-doped carbon material: The formation mechanism and catalytic role on oxygen reduction reaction. <b>2017</b> , 245, 957-966	34
1074	Nitrogen plasma-treated multilayer graphene-based field effect transistor fabrication and electronic characteristics. <b>2017</b> , 92, 41-46	2
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1066	Introduction. <b>2017</b> , 1-34	
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1062	Tea-leaves based nitrogen-doped porous carbons for high-performance supercapacitors electrode. <b>2017</b> , 21, 525-535	42
1061	Efficient destruction of hexachlorobenzene by calcium carbide through mechanochemical reaction in a planetary ball mill. <b>2017</b> , 166, 275-280	36

1060	Relationships between the optical and Raman behavior of van Hove singularity in twisted bi- and fewlayer graphenes and environmental effects. <b>2017</b> , 111, 238-247	8
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1058	High-performance heterogeneous complementary inverters based on n-channel MoS <sub>2</sub> and p-channel SWCNT transistors. <b>2017</b> , 10, 276-283	9
1057	A sensitive and reliable rutin electrochemical sensor based on palladium phthalocyanine-MWCNTs-Nafion nanocomposite. <b>2017</b> , 21, 1219-1228	35
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1055	Growth of large-area, few-layer graphene by femtosecond pulsed laser deposition with double-layer Ni catalyst. <b>2017</b> , 52, 2060-2065	10
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1033	High-performance Platinum-free oxygen reduction reaction and hydrogen oxidation reaction catalyst in polymer electrolyte membrane fuel cell. <b>2018</b> , 8, 3591	58
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1006	Nano-micro carbon spheres anchored on porous carbon derived from dual-biomass as high rate performance supercapacitor electrodes. <b>2018</b> , 381, 116-126	115
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1001	Annealing effect on thermal conductivity and microhardness of carbon nanotube containing Se <sub>80</sub> Te <sub>16</sub> Cu <sub>4</sub> glassy composites. <b>2018</b> , 5, 025203	1
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961	In situ generation of 3D graphene-like networks from cellulose nanofibres in sintered ceramics. <b>2018</b> , 10, 10488-10497	11
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806	Passive mode-locking in erbium-doped fibre laser based on BN-GO saturable absorber. <b>2018</b> , 65, 2339-2349	5
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803	Efficiently Improving the Stability of Inverted Perovskite Solar Cells by Employing Polyethylenimine-Modified Carbon Nanotubes as Electrodes. <b>2018</b> , 10, 31384-31393	54
802	Defect formation in multiwalled carbon nanotubes under low-energy He and Ne ion irradiation. <b>2018</b> , 9, 1951-1963	5
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798	Preparation of Polyurethane-Graphene Nanocomposite and Evaluation of Neurovascular Regeneration. <b>2020</b> , 6, 597-609	19
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753	High-resolution organic field-effect transistors manufactured by electrohydrodynamic inkjet printing of doped electrodes. <b>2020</b> , 8, 15219-15223	9
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741	Manipulation of structural and electronic properties of B-doped carbon nanoions based on DFT modelling. <b>2020</b> , 532, 147267	5
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733	Carbon nanostructures based-adsorbent obtained from iron ore tailings. <b>2020</b> , 46, 29271-29281	4
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705	Recent Progress in Synthesis of Nano- and Atomic-Sized Catalysts. <b>2020</b> , 95-128	1
704	Catalytic Conversion of Lignocellulosic Biomass: Application of Heterogeneous and Homogeneous Catalysts to Process Biomass into Value-Added Compounds. <b>2020</b> , 151-182	2
703	Supported Metal Nanoparticles as Heterogeneous Catalysts for Transformation of Biomass-Derived Platform Chemicals. <b>2020</b> , 183-211	
702	Effects of Pd Nanoparticle Loading and Support Acidity on Liquid Phase Hydrodeoxygenation of Oxygenated Aromatics. <b>2020</b> , 213-238	
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693	Light-matter interactions in two-dimensional layered WSe for gauging evolution of phonon dynamics. <b>2020</b> , 11, 782-797	10
692	High stable with efficient dye-sensitized solar cell-based Al <sub>2</sub> O <sub>3</sub> /graphene hybrid photoanode fabricated by simple household microwave irradiation technique. <b>2020</b> , 31, 9742-9752	2
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663	Real-Time Data-Driven Quality Assessment for Continuous Manufacturing of Carbon Nanotube Buckypaper. <b>2020</b> , 1-1	
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642	Exquisite design of porous carbon microtubule-scaffolding hierarchical InO-ZnInS heterostructures toward efficient photocatalytic conversion of CO into CO. <b>2020</b> , 12, 14676-14681	22
641	Raman analysis of conjugated bithiophene (2T) encapsulated in semiconducting and metallic single-walled carbon nanotubes. <b>2020</b> , 51, 1315-1323	4
640	Multifunctional g-C <sub>3</sub> N <sub>4</sub> /Ag NPs intercalated GO composite membrane for SERS detection and photocatalytic degradation of paraoxon-ethyl. <b>2020</b> , 402, 126223	28
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627	Recovery of electro-mechanical properties inside self-healing composites through microencapsulation of carbon nanotubes. <b>2020</b> , 10, 2973	11
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621	High-Performance Li-CO <sub>2</sub> Batteries from Free-Standing, Binder-Free, Bifunctional Three-Dimensional Carbon Catalysts. <b>2020</b> , 5, 916-921	43
620	Influence of expansion conditions and precursor flake size on porous structure of expanded graphite. <b>2020</b> , 28, 611-620	2
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612	Fabrication of graphene oxide wrapped Ti/CoO nanowire photoanode and its superior photoelectrocatalytic performance. <b>2020</b> , 31, 225303	2
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600	Preparation and conductive property of Cu coatings and Cu-graphene composite coatings on ABS substrate. <b>2020</b> , 31, 195710	9
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590	Enhanced Proton Conductivity of Porous UHMWPE membrane with Graphene-based material for Vanadium Redox Flow Battery. <b>2020</b> , 808, 012024	1
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569	Synergistic effect of polyvinylpyrrolidone noncovalently modified graphene and epoxy resin in anticorrosion application. <b>2021</b> , 33, 146-164	1
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437	The optimized flow-electrode capacitive deionization (FCDI) performance by ZIF-8 derived nanoporous carbon polyhedron. <b>2021</b> , 281, 119345	3
436	Tuning wettability and surface order of MWCNTs by functionalization for water desalination. <b>2021</b> , 508, 115049	3
435	Towards the translation of electroconductive organic materials for regeneration of neural tissues. <b>2021</b> , 139, 22-22	3
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425	Impact of Polyethylene Glycol Functionalization of Graphene Oxide on Anticoagulation and Haemolytic Properties of Human Blood. <b>2021</b> , 14,	1
424	Nano-optical Imaging of In-Plane Homojunctions in Graphene and MoS van der Waals Heterostructures on Talc and SiO. <b>2021</b> , 12, 7625-7631	3
423	Effective NO and SO <sub>2</sub> removal from fuel gas with H <sub>2</sub> O <sub>2</sub> catalyzed by Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>0</sub> /Fe <sub>3</sub> C encapsulated in multi-walled carbon nanotubes. <b>2021</b> , 9, 105413	2
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4 <sup>11</sup>	An ultrasensitive high-performance baicalin sensor based on C <sub>3</sub> N <sub>4</sub> -SWCNTs/reduced graphene oxide/cyclodextrin metal-organic framework nanocomposite. <b>2021</b> , 350, 130853	2
4 <sup>10</sup>	Effect of operational parameters on photocatalytic degradation of ethylparaben using rGO/TiO composite under UV radiation. <b>2021</b> , 200, 111750	3
4 <sup>09</sup>	Magnetic ferrite/carbonized cotton fiber composites for improving electromagnetic absorption properties at gigahertz frequencies. <b>2021</b> , 86, 127-138	8
4 <sup>08</sup>	Mitigation of graphene oxide toxicity in <i>C. elegans</i> after chemical degradation with sodium hypochlorite. <b>2021</b> , 278, 130421	3
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4 <sup>04</sup>	Highly conductive thermal interface materials with vertically aligned graphite-nanoplatelet filler towards: High power density electronic device cooling. <b>2021</b> , 182, 445-453	12
4 <sup>03</sup>	Effects of binary hybrid nanofluid on heat transfer and fluid flow in a triangular-corrugated channel: An experimental and numerical study. <b>2021</b> ,	5
4 <sup>02</sup>	The effect of CaCO <sub>3</sub> in the formation of carbon nanotubes via electrolysis of molten Li <sub>2</sub> CO <sub>3</sub> /CaCO <sub>3</sub> mixtures.	0
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246	Multifunctional 3D polydimethylsiloxane modified MoS <sub>2</sub> @biomass-derived carbon composite for oil/water separation and organic dye adsorption/photocatalysis. <b>2022</b> , 637, 128281	1
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244	Wave Absorption Properties of Co <sup>II</sup> Nanoparticles Prepared by the Gaseous Detonation Method. <b>2021</b> , 57, 704-712	0
243	Nontoxic double-network polymeric hybrid aerogel functionalized with reduced graphene oxide: Preparation, characterization, and evaluation as drug delivery agent. <b>2022</b> , 29, 1	5
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239	Deep-learning-based denoising approach to enhance Raman spectroscopy in mass-produced graphene.	2
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237	Process-Structure-Property Relations in Dense Aligned Carbon Nanotube/Aerospace-grade Epoxy Nanocomposites. <b>2022</b> ,	1
236	Metastable Brominated Nanodiamond Surface Enables Room Temperature and Catalysis-Free Amine Chemistry.. <b>2022</b> , 1147-1158	1
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230	Radiation induced defects in graphite.. <b>2022</b> , 182, 110141	1
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218	Electrical nanocomposites of PA6 / ABS / ABS-MA reinforced with carbon nanotubes ( MWCNTf ) for antistatic packaging.	1
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84	Development of yttria-stabilized zirconia and graphene coatings obtained by suspension plasma spraying: Thermal stability and influence on mechanical properties. <b>2022</b> ,	0
83	Microwave assisted synthesis of Mn <sub>3</sub> O <sub>4</sub> nanograins intercalated into reduced graphene oxide layers as cathode material for alternative clean power generation energy device. <b>2022</b> , 12,	0
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