

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

Carbon

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Citation Report

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14	Effect of Water Vapor on Electrical Properties of Individual Reduced Graphene Oxide Sheets. Journal of Physical Chemistry C, 2008, 112, 20264-20268.	1.5	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.	7.8	1,603
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18	Polyaniline electrochromic devices with transparent graphene electrodes. Electrochimica Acta, 2009, 55, 491-497.	2.6	244
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821	Electrical and mechanical properties of multiwalled carbon nanotubes-reinforced solderable polymer nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 1678-1689.	1.1	8
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1421	Grapheneâ€‘vertically aligned carbon nanotube hybrid on PDMS as stretchable electrodes. <i>Nanotechnology</i> , 2017, 28, 465302.	1.3	30
1422	The g-C ₃ N ₄ Nanosheets Separated by PS for Photocatalytic Degradation of Dye. <i>Journal of Nano Research</i> , 2017, 49, 215-224.	0.8	5
1423	Rhodium Nanosheetsâ€‘Reduced Graphene Oxide Hybrids: A Highly Active Platinum-Alternative Electro catalyst for the Methanol Oxidation Reaction in Alkaline Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10156-10162.	3.2	86
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1428	Physicochemical characteristics of pristine and functionalized graphene. <i>Journal of Applied Toxicology</i> , 2017, 37, 1288-1296.	1.4	22
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1872	Lightweight Kevlar-Reinforced Graphene Oxide Architectures with High Strength for Energy Storage. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900786.	1.9	14
1873	Improved photocatalytic performance of anatase TiO ₂ synthesized through ethanol supercritical drying technique. <i>Applied Organometallic Chemistry</i> , 2019, 33, e5230.	1.7	3
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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. <i>Electrochimica Acta</i> , 2019, 322, 134765.	2.6	7
1877	Carbon Derived from Sucrose as Anode Material for Lithium-Ion Batteries. <i>Journal of Electronic Materials</i> , 2019, 48, 7389-7395.	1.0	14
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1879	Performance Enhancement of Solar Cell by Incorporating Bilayer RGOâ€ITO Smart Conducting Antireflection Coating. <i>Global Challenges</i> , 2019, 3, 1800109.	1.8	3
1880	Covalent bonding of MnO ₂ onto graphene aerogel forwards: Efficiently catalytic degradation of organic wastewater. <i>Applied Surface Science</i> , 2019, 496, 143585.	3.1	28
1881	Advantages of bimetallic nitric oxide reduction catalysts consisting of heavy metals rich in hazardous wastes. <i>Journal of Cleaner Production</i> , 2019, 237, 117834.	4.6	15
1882	Cu ₄ Sn ₄ -Rich Nanomaterials for Thin-Film Lithium Batteries with Enhanced Conversion Reaction. <i>ACS Nano</i> , 2019, 13, 10671-10681.	7.3	26
1883	One-step synthesis of few-layer niobium carbide MXene as a promising anode material for high-rate lithium ion batteries. <i>Dalton Transactions</i> , 2019, 48, 14433-14439.	1.6	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. <i>ACS Applied Energy Materials</i> , 2019, 2, 6513-6527.	2.5	46
1886	Immobilized rGO/TiO ₂ Photocatalyst for Decontamination of Water. <i>Catalysts</i> , 2019, 9, 708.	1.6	25
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1888	Combustion synthesis of N-doped three-dimensional graphene networks using graphene oxideâ€nitrocellulose composites. <i>Advanced Composites and Hybrid Materials</i> , 2019, 2, 492-500.	9.9	29
1889	Effect of aspect ratio of graphene oxide on properties of poly (vinyl alcohol) nanocomposites. <i>Nanocomposites</i> , 2019, 5, 84-93.	2.2	25
1890	A Study on exfoliation of Expanded Graphite Stacks in Candelilla Wax. <i>Materials</i> , 2019, 12, 2530.	1.3	19
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1894	Sodium cholate as efficient green reducing agent for graphene oxide via flow reaction for flexible supercapacitor electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19182-19188.	1.1	13
1895	Morphology and functional properties of electrospun expanded polystyrene (EPS)/reduced graphene oxide (RGO) nanofiber composite. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 939-946.	1.0	7
1896	One-Step Photochemical Synthesis of Transition Metal-Graphene Hybrid for Electrocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4112-4118.	3.2	6
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1899	Characteristics and mechanism of Pb(II) adsorption/desorption on GO/r-GO under sulfide-reducing conditions. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 73, 233-240.	2.9	17
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1904	Graphite to Graphene: Green Synthesis Using <i>Opuntia ficus-indica</i> . <i>Journal of Electronic Materials</i> , 2019, 48, 1553-1561.	1.0	7
1905	Controlling hierarchical porous structures of rice-husk-derived carbons for improved capacitive deionization performance. <i>Environmental Science: Nano</i> , 2019, 6, 916-924.	2.2	34
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1908	Dependence of reduction degree on electromagnetic absorption of graphene nanoribbon unzipped from carbon nanotube. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 196-203.	5.0	37
1909	Mechanical properties of graphene oxide-based composite layered-materials. <i>Materials Chemistry and Physics</i> , 2019, 234, 81-89.	2.0	13
1910	Highly sensitive and selective Love mode surface acoustic wave ammonia sensor based on graphene oxides operated at room temperature. <i>Journal of Materials Science</i> , 2019, 54, 11925-11935.	1.7	28

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1912	Co and CeO ₂ co-decorated N-doping carbon nanofibers for rechargeable Zn-air batteries. <i>Nanotechnology</i> , 2019, 30, 395401.	1.3	37
1913	Selective Cellulose Hydrogenolysis to Ethanol Using Ni@C Combined with Phosphoric Acid Catalysts. <i>ChemSusChem</i> , 2019, 12, 3977-3987.	3.6	49
1914	Purification of Single-Walled Carbon Nanotubes Using Acid Treatment and Magnetic Separation. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800742.	0.7	28
1915	Graphene Papers with Tailored Pore Structures Fabricated from Crumpled Graphene Spheres. <i>Nanomaterials</i> , 2019, 9, 815.	1.9	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. <i>European Polymer Journal</i> , 2019, 118, 619-632.	2.6	43
1917	Effect of highly dispersed graphene and graphene oxide in 3D nanofibrous bacterial cellulose scaffold on cell responses: A comparative study. <i>Materials Chemistry and Physics</i> , 2019, 235, 121774.	2.0	30
1918	Graphene oxide-coated Poly(vinyl alcohol) fibers for enhanced fiber-reinforced cementitious composites. <i>Composites Part B: Engineering</i> , 2019, 174, 107010.	5.9	45
1919	Graphene-based adsorbents for the separation of f-metals from waste solutions: A review. <i>Journal of Molecular Liquids</i> , 2019, 289, 111121.	2.3	33
1920	Synthesis of Cu/rGO composites by chemical and thermal reduction of graphene oxide. <i>Journal of Alloys and Compounds</i> , 2019, 800, 379-391.	2.8	34
1921	Nanocomposite of Nitrogen-Doped Graphene/Polyaniline for Enhanced Ammonia Gas Detection. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900552.	1.9	32
1922	Plasma functionalisation of few-layer graphenes and carbon nanotubes for graphene microsupercapacitors. <i>Electrochimica Acta</i> , 2019, 317, 348-357.	2.6	9
1923	Effect of graphene interlayer on resistance spot welded AISI-1008 steel joints. <i>Materials Research Express</i> , 2019, 6, 0865c3.	0.8	17
1924	Thermal and Mechanical Interfacial Behaviors of Graphene Oxide-Reinforced Epoxy Composites Cured by Thermal Latent Catalyst. <i>Materials</i> , 2019, 12, 1354.	1.3	31
1925	Orderly stacked ultrathin graphene oxide membranes on a macroporous tubular ceramic substrate. <i>Journal of Membrane Science</i> , 2019, 586, 177-184.	4.1	27
1926	Selective Aerobic Oxidation of Lactate to Pyruvate Catalyzed by Vanadium-Nitrogen-Doped Carbon Nanosheets. <i>ChemCatChem</i> , 2019, 11, 3381-3387.	1.8	18
1927	3-Phase hierarchical graphene-based epoxy nanocomposite laminates for automotive applications. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2169-2177.	5.6	19
1928	Graphene-wrapped hollow ZnMn ₂ O ₄ microspheres for high-performance cathode materials of aqueous zinc ion batteries. <i>Electrochimica Acta</i> , 2019, 317, 155-163.	2.6	86

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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.	1.5	4
1944	Reinforcing 13% 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.	1.5	15
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1948	Structure and adsorptive property of carbon materials derived from thermal and mechanochemical reaction of CaC ₂ and chlorinated polymers. <i>Chemical Engineering Journal</i> , 2019, 372, 181-190.	6.6	18
1949	Mesoporous iron sulfide nanoparticles anchored graphene sheet as an efficient and durable catalyst for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2019, 427, 91-100.	4.0	45
1950	Synthesis of Amphiphilic Acrylate Boron Fluorinated Polymers with Antifouling Behavior. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 8016-8025.	1.8	15
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1955	A Reusable Cobalt Catalyst for Reversible Acceptorless Dehydrogenation and Hydrogenation of N-Heterocycles. <i>ChemCatChem</i> , 2019, 11, 2449-2457.	1.8	43
1956	Facile synthesis of reduced graphene oxide by modified Hummer's method as anode material for Li-, Na- and K-ion secondary batteries. <i>Royal Society Open Science</i> , 2019, 6, 181978.	1.1	60
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1959	Interfacial Thermal Contact Conductance inside the Graphene-Bi ₂ Te ₃ Heterostructure. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900275.	1.9	9
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1963	Preparation of Few-Layer Graphene by Pulsed Discharge in Graphite Micro-Flake Suspension. <i>Crystals</i> , 2019, 9, 150.	1.0	7
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1966	Effect of mesoporous carbon support nature and pretreatments on palladium loading, dispersion and apparent catalytic activity in hydrogenation of myrcene. <i>Journal of Catalysis</i> , 2019, 372, 226-244.	3.1	29
1967	NbC/C heterojunction for efficient photodegradation of methylene blue under visible irradiation. <i>Solar Energy</i> , 2019, 183, 398-409.	2.9	37
1968	A novel electrochemical sensor based on Au nanoparticles/8-aminoquinoline functionalized graphene oxide nanocomposite for paraquat detection. <i>Nanotechnology</i> , 2019, 30, 285502.	1.3	19
1969	Bimetal-organic frameworks derived ternary metal sulphide nanoparticles embedded in porous carbon spheres/carbon nanotubes as high-performance lithium storage materials. <i>Chemical Engineering Journal</i> , 2019, 370, 89-97.	6.6	22
1970	Microstructural and magnetic properties of rGO/MnFe ₂ O ₄ nanocomposites; relaxation dynamics. <i>Journal of Alloys and Compounds</i> , 2019, 790, 983-991.	2.8	12
1971	Sustainable in Situ Approach to Covalently Functionalize Graphene Oxide with POSS Molecules Possessing Extremely Low Dielectric Behavior. <i>Langmuir</i> , 2019, 35, 4672-4681.	1.6	12
1972	Plasma Exfoliated Graphene: Preparation via Rapid, Mild Thermal Reduction of Graphene Oxide and Application in Lithium Batteries. <i>Materials</i> , 2019, 12, 707.	1.3	7
1973	Core-shell structured Fe ₃ O ₄ @GO@MIL-100(Fe) magnetic nanoparticles as heterogeneous photo-Fenton catalyst for 2,4-dichlorophenol degradation under visible light. <i>Journal of Hazardous Materials</i> , 2019, 371, 677-686.	6.5	121
1974	Sonochemical Formation of Copper/Iron-Modified Graphene Oxide Nanocomposites for Ketorolac Delivery. <i>Chemistry - A European Journal</i> , 2019, 25, 6233-6245.	1.7	11
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2003	Distinguishing characteristics and usability of graphene oxide based on different sources of graphite feedstock. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 429-440.	5.0	33
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2005	Antimicrobial Hierarchically Porous Graphene Oxide Sponges for Water Treatment. <i>ACS Applied Bio Materials</i> , 2019, 2, 1578-1590.	2.3	21
2006	Preparation and Comparison of Reduced Graphene Oxide and Carbon Nanotubes as Fillers in Conductive Natural Rubber for Flexible Electronics. <i>ACS Omega</i> , 2019, 4, 3458-3468.	1.6	21
2007	Layer-by-layer MoS ₂ :GO composite thin films for optoelectronics device applications. <i>Applied Surface Science</i> , 2019, 479, 1118-1123.	3.1	10
2008	The transport properties of sodium-ion in the low potential platform region of oatmeal-derived hard carbon for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 787, 229-238.	2.8	47
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2010	MICROSTRUCTURE AND ELECTROCHEMICAL PROPERTIES OF Ni-B/GO ULTRASONIC-ASSISTED COMPOSITE COATINGS. <i>Surface Review and Letters</i> , 2019, 26, 1950080.	0.5	1
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2018	Tuning surface conductivity and stability for high-performance Li- and Mn-rich cathode materials. <i>New Journal of Chemistry</i> , 2019, 43, 18943-18950.	1.4	9
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2021	Alternative Synthesis Method for Carbon Nanotubes. <i>Small</i> , 2019, 15, 1904132.	5.2	2
2022	Local conductivity of graphene oxide study by conductive atomic force microscope. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	5
2023	High flux hyperbranched starch-graphene oxide piperazinamide composite nanofiltration membrane. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103300.	3.3	39
2024	Influence of (photo)bromination on the transformation, aggregation and sedimentation of graphene oxide. <i>Chemical Engineering Journal</i> , 2019, 355, 487-497.	6.6	13
2025	Synthesis of PMMA/modified graphene oxide nanocomposite pour point depressant and its effect on the flow properties of Indian waxy crude oil. <i>Fuel</i> , 2019, 235, 1245-1259.	3.4	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. <i>Chemosphere</i> , 2019, 220, 28-39.	4.2	46
2027	Low-damage nitrogen incorporation in graphene films by nitrogen plasma treatment: Effect of airborne contaminants. <i>Carbon</i> , 2019, 144, 532-539.	5.4	18
2028	Activated carbon promotes short-chain fatty acids production from algae during anaerobic fermentation. <i>Science of the Total Environment</i> , 2019, 658, 1131-1138.	3.9	30
2029	Role of oxygen functional groups for improved performance of graphene-silicone composites as a thermal interface material. <i>Carbon</i> , 2019, 145, 131-139.	5.4	27
2030	Facile synthesis of copper sulfide decorated reduced graphene oxide nanocomposite for high sensitive detection of toxic antibiotic in milk. <i>Ultrasonics Sonochemistry</i> , 2019, 52, 382-390.	3.8	65
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2032	Synthesis of disodium phosphonate functionalized graphene oxide as an efficient heterogeneous nanocatalyst for mercaptan removal from the gas stream. <i>Functional Materials Letters</i> , 2019, 12, 1950027.	0.7	1
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2041	Asymmetric finger-shape metallization in Graphene-on-Si solar cells for enhanced carrier trapping. <i>Materials Science in Semiconductor Processing</i> , 2019, 91, 13-21.	1.9	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. <i>Journal of Environmental Management</i> , 2019, 231, 1164-1175.	3.8	100
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2048	Reduction of graphene oxide thin films using a stepwise thermal annealing assisted by l-ascorbic acid. <i>Diamond and Related Materials</i> , 2019, 92, 242-247.	1.8	24
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2050	Synthesis and characterization of graphene oxide functionalized with MnFe ₂ O ₄ and supported on activated carbon for glyphosate adsorption in fixed bed column. <i>Chemical Engineering Research and Design</i> , 2019, 123, 59-71.	2.7	49
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2099	Ionic liquid assisted mesoporous silica-graphene oxide nanocomposite synthesis and its application for removal of heavy metal ions from water. <i>Materials Chemistry and Physics</i> , 2020, 239, 122028.	2.0	65
2100	Preparation and characterization of polyphenylene sulfide/graphene nanoplatelets composite fibers with enhanced oxidation resistance. <i>High Performance Polymers</i> , 2020, 32, 394-405.	0.8	18
2101	Room temperature ammonia gas sensor using Meta Toluic acid functionalized graphene oxide. <i>Materials Chemistry and Physics</i> , 2020, 240, 121922.	2.0	31
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2107	Applications of Graphene and Its Derivatives in Chemical Analysis. <i>Critical Reviews in Analytical Chemistry</i> , 2020, 50, 445-471.	1.8	36
2108	Modified photochemical strategy to support highly-purity, dense and monodisperse Au nanospheres on graphene oxide for optimizing SERS detection. <i>Talanta</i> , 2020, 209, 120535.	2.9	20
2109	Gallium dopant-induced tunable electrical properties of reduced graphene oxide using metal organic chemical vapor deposition. <i>Applied Surface Science</i> , 2020, 504, 144500.	3.1	6

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2112	A flexible, room-temperature and solution-processible copper nanowire based transparent electrode protected by reduced graphene oxide exhibiting high performance and improved stability. <i>Nanotechnology</i> , 2020, 31, 045704.	1.3	8
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2115	Tailored graphenic structures directly grown on titanium oxide boost the interfacial charge transfer. <i>Applied Surface Science</i> , 2020, 504, 144439.	3.1	4
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2117	Enhanced charge transport in ReSe ₂ -based 2D/3D electrodes for efficient hydrogen evolution reaction. <i>Chemical Communications</i> , 2020, 56, 305-308.	2.2	11
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2119	Electrochemical sensor for detecting dopamine using graphene quantum dots incorporated with multiwall carbon nanotubes. <i>Applied Surface Science</i> , 2020, 508, 145294.	3.1	124
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2122	Adhesion of Bacteria to a Graphene Oxide Film. <i>ACS Applied Bio Materials</i> , 2020, 3, 704-712.	2.3	19
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2129	Preparation of Graphene-Co/Ni/Fe ₃ O ₄ Nanocomposites and Their Electrocatalytic Activity for Reduction of p-Nitrophenol. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2592-2597.	0.9	3
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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. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 252, 114454.	1.7	4
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2140	Confining Li ₂ S ₆ catholyte in 3D graphene sponge with ultrahigh total pore volume and oxygen-containing groups for lithium-sulfur batteries. <i>Carbon</i> , 2020, 158, 244-255.	5.4	39
2141	Low cost synthesis of reduced graphene oxide using biopolymer for influenza virus sensor. <i>Materials Science and Engineering C</i> , 2020, 108, 110465.	3.8	66
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2144	Study of chemical compound spatial distribution in biodegradable active films using NIR hyperspectral imaging and multivariate curve resolution. <i>Journal of Chemometrics</i> , 2020, 34, e3193.	0.7	3
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2149	Proton-assisted electron transfer and hydrogen-atom diffusion in a model system for photocatalytic hydrogen production. <i>Communications Materials</i> , 2020, 1, 66.	2.9	28
2150	Graphene Oxide Surfactant-Directed Tunable Concentration of Graphene Dispersion. <i>Small</i> , 2020, 16, e2003426.	5.2	31
2151	Efficient overall water splitting using nickel boride-based electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28616-28625.	3.8	19
2152	Rapid microwave-assisted bulk production of high-quality reduced graphene oxide for lithium ion batteries. <i>Materialia</i> , 2020, 13, 100833.	1.3	21
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2156	Iron nanoparticle templates for constructing 3D graphene framework with enhanced performance in sodium-ion batteries. <i>Nanoscale</i> , 2020, 12, 21780-21787.	2.8	9
2157	Fabrication of layered double hydroxide/carbon nanomaterial for heavy metals removal. <i>Applied Clay Science</i> , 2020, 199, 105867.	2.6	18
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