

Graphene hybridization for energy storage applications

Chemical Society Reviews

47, 3189-3216

DOI: [10.1039/c7cs00871f](https://doi.org/10.1039/c7cs00871f)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Liquid-Phase Exfoliation of Graphene: An Overview on Exfoliation Media, Techniques, and Challenges. <i>Nanomaterials</i> , 2018, 8, 942.	1.9	222
2	Mechanism of large tunable thermal transport in graphene with oxygen functional groups. <i>Journal of Applied Physics</i> , 2018, 124, 175108.	1.1	4
3	Redox-Active Organic Sodium Anthraquinone-2,6-Sulfonate (AQS) Anchored on Reduced Graphene Oxide for High-Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1802088.	10.2	147
4	Rational design of MnCo ₂ O ₄ @NC@MnO ₂ three-layered core-shell octahedron for high-rate and long-life lithium storage. <i>Dalton Transactions</i> , 2018, 47, 14540-14548.	1.6	16
5	Large-scale synthesis of free-standing N-doped graphene using microwave plasma. <i>Scientific Reports</i> , 2018, 8, 12595.	1.6	85
6	Sulfanilic Acid Pending on a Graphene Scaffold: Novel, Efficient Synthesis and Much Enhanced Polymer Solar Cell Efficiency and Stability Using It as a Hole Extraction Layer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24679-24688.	4.0	12
7	MOF-derived sponge-like hierarchical porous carbon for flexible all-solid-state supercapacitors. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1692-1699.	3.2	48
8	Printable Nanomaterials for the Fabrication of High-Performance Supercapacitors. <i>Nanomaterials</i> , 2018, 8, 528.	1.9	46
9	Conversion of furfuryl alcohol into butyl levulinate with graphite oxide and reduced graphite oxide. <i>FlatChem</i> , 2018, 10, 39-44.	2.8	19
10	Effect of oxygen contents in graphene like graphite anodes on their capacity for lithium ion battery. <i>Journal of Power Sources</i> , 2018, 396, 134-140.	4.0	29
11	Influence of Thermal and Photochemical Treatments on Structure and Optical Properties of Single-Layer Carbon Nitride. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800279.	0.7	4
12	Multiscale Porous Carbon Nanomaterials for Applications in Advanced Rechargeable Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 9-36.	2.4	56
13	A robust hierarchical 3D Si/CNTs composite with void and carbon shell as Li-ion battery anodes. <i>Chemical Engineering Journal</i> , 2019, 360, 974-981.	6.6	78
14	Multiscale Buffering Engineering in Silicon-Carbon Anode for Ultrastable Li-Ion Storage. <i>ACS Nano</i> , 2019, 13, 10179-10190.	7.3	73
15	Facile fabrication of 3D ferrous ion crosslinked graphene oxide hydrogel membranes for excellent water purification. <i>Environmental Science: Nano</i> , 2019, 6, 3060-3071.	2.2	18
16	FUNCTIONALIZED GRAPHENE-BASED MATERIALS AS INNOVATIVE ADSORBENTS OF ORGANIC POLLUTANTS: A CONCISE OVERVIEW. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 1-31.	0.7	55
17	Carbon nanotubes, graphene, porous carbon, and hybrid carbon-based materials: synthesis, properties, and functionalization for efficient energy storage. , 2019, , 1-24.		7
18	Graphene-based advanced nanoplatfoms and biocomposites from environmentally friendly and biomimetic approaches. <i>Green Chemistry</i> , 2019, 21, 4887-4918.	4.6	37

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19	High-performance microwave absorption of hierarchical graphene-based and MWCNT-based full-carbon nanostructures. <i>Applied Surface Science</i> , 2019, 493, 541-550.	3.1	18
20	Review Article: Layer-structured carbonaceous materials for advanced Li-ion and Na-ion batteries: Beyond graphene. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	0.9	24
21	Constructing molecules supported holey graphene sheets framework in compact graphene film to achieve synergistic effect for ion transport and high gravimetric/volumetric capacitances. <i>Journal of Power Sources</i> , 2019, 441, 227167.	4.0	17
22	Synthesis of a Novel Mn(II)-porphyrins polycondensation polymer and its application as pseudo-capacitor electrode material. <i>Journal of Organometallic Chemistry</i> , 2019, 900, 120940.	0.8	12
23	Organic molecule electrode with high capacitive performance originating from efficient collaboration between caffeic acid and graphene & graphene nanomesh hydrogel. <i>Electrochimica Acta</i> , 2019, 326, 134953.	2.6	21
24	Recent Advances of Porous Graphene: Synthesis, Functionalization, and Electrochemical Applications. <i>Small</i> , 2019, 15, e1903780.	5.2	144
25	From Low- to High-Crystallinity Bimetalâ€‘Organic Framework Nanosheet with Highly Exposed Boundaries: An Efficient and Stable Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16629-16639.	3.2	52
26	Heteroatom doped high porosity carbon nanomaterials as electrodes for energy storage in electrochemical capacitors: A review. <i>Journal of Science: Advanced Materials and Devices</i> , 2019, 4, 341-352.	1.5	104
27	Thermoelectric phase diagram of the SrTiO ₃ -LaTiO ₃ solid-solution system through a metal to Mott insulator transition. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	8
28	Graphene Nanostructure-Based Tactile Sensors for Electronic Skin Applications. <i>Nano-Micro Letters</i> , 2019, 11, 71.	14.4	97
29	Reduced graphene oxide/CoS₂ porous nanoparticle hybrid electrode material for supercapacitor application. <i>RSC Advances</i> , 2019, 9, 26637-26645.	1.7	23
30	Preparation of nano-VBO ₃ on graphene as anode material for lithium-ion batteries. <i>Materials Letters</i> , 2019, 241, 60-63.	1.3	1
31	<i>In situ</i> tunable pillaring of compact and high-density graphite fluoride with pseudocapacitive diamines for supercapacitors with combined predominance in gravimetric and volumetric performances. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3353-3365.	5.2	28
32	Graphene quantum dots encapsulated tremella-like NiCo ₂ O ₄ for advanced asymmetric supercapacitors. <i>Carbon</i> , 2019, 146, 1-8.	5.4	136
33	NASICON-Structured NaTi ₂ (PO ₄) ₃ for Sustainable Energy Storage. <i>Nano-Micro Letters</i> , 2019, 11, 44.	14.4	100
34	Freeâ€‘standing nitrogenâ€‘doped grapheneâ€‘carbon nanofiber composite mats: electrospinning synthesis and application as anode material for lithiumâ€‘ion batteries. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3793-3799.	1.6	15
35	Three-dimensional carambola-like MXene/polypyrrole composite produced by one-step co-electrodeposition method for electrochemical energy storage. <i>Electrochimica Acta</i> , 2019, 318, 820-827.	2.6	84
36	Textile carbon network with enhanced areal capacitance prepared by chemical activation of cotton cloth. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 705-712.	5.0	51

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37	Flexible and Free-Standing Reduced Graphene Oxide and Polypyrrole Coated Air-Laid Paper-Based Supercapacitor Electrodes. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 12018-12027.	1.8	32
38	Effects of out-of-plane strains and electric fields on the electronic structures of graphene/MTe (M =) Tj ETQq1 1 0.784314 rgBT /Overl	2.8	34
39	Commercialization of Lithium Battery Technologies for Electric Vehicles. <i>Advanced Energy Materials</i> , 2019, 9, 1900161.	10.2	865
40	Combined Application of Graphene Family Materials and Silk Fibroin in Biomedicine. <i>ChemistrySelect</i> , 2019, 4, 5745-5754.	0.7	17
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42	Highly conductive graphene-modified TiO ₂ hierarchical film electrode for flexible Li-ion battery anode. <i>Electrochimica Acta</i> , 2019, 313, 10-19.	2.6	27
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44	Controlled microstructure in two dimensional Ni-Co LDH nanosheets-crosslinked network for high performance supercapacitors. <i>Advanced Powder Technology</i> , 2019, 30, 1239-1246.	2.0	13
45	Adsorption-assisted transport of water vapour in super-hydrophobic membranes filled with multilayer graphene platelets. <i>Nanoscale</i> , 2019, 11, 11521-11529.	2.8	38
46	Recent Advances and Perspectives of Carbon-Based Nanostructures as Anode Materials for Li-ion Batteries. <i>Materials</i> , 2019, 12, 1229.	1.3	102
47	Design and Prediction of a Novel Two-Dimensional Carbon Nanostructure with In-Plane Negative Poisson's Ratio. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-10.	1.5	2
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55	Recent Advances in Carbon-Based Metal-Free Electrocatalysts. <i>Advanced Materials</i> , 2019, 31, e1806403.	11.1	222
56	Scalable one-step synthesis of N,S co-doped graphene-enhanced hierarchical porous carbon foam for high-performance solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7591-7603.	5.2	98

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58	Removing Metal Ions from Water with Grapheneâ€Bovine Serum Albumin Hybrid Membrane. <i>Nanomaterials</i> , 2019, 9, 276.	1.9	23
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65	Resorcinol-formaldehyde based carbon aerogel: Preparation, structure and applications in energy storage devices. <i>Microporous and Mesoporous Materials</i> , 2019, 279, 293-315.	2.2	78
66	Hierarchical 3D electrodes for electrochemical energy storage. <i>Nature Reviews Materials</i> , 2019, 4, 45-60.	23.3	554
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69	A rapid heat pressing strategy to prepare fluffy reduced graphene oxide films with meso/macropores for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 361, 1437-1450.	6.6	44
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71	Enhanced Roles of Carbon Architectures in High-Performance Lithium-Ion Batteries. <i>Nano-Micro Letters</i> , 2019, 11, 5.	14.4	56
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81	Konjac glucomannan-derived nitrogen-containing layered microporous carbon for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2020, 44, 1400-1406.	1.4	7
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101	Ambient Temperature Graphitization Based on Mechanochemical Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21935-21939.	7.2	32
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109	Precipitated synthesis of Al ₂ O ₃ -ZnO nanorod for high-performance symmetrical supercapacitors. <i>Materials Chemistry and Physics</i> , 2020, 253, 123289.	2.0	32
110	Molecular Interpretation of Pharmaceuticals™ Adsorption on Carbon Nanomaterials: Theory Meets Experiments. <i>Processes</i> , 2020, 8, 642.	1.3	29

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138	Recent developments of graphene composites for energy storage devices. <i>Materials Today: Proceedings</i> , 2021, 45, 1779-1782.	0.9	15
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141	Electrochemical performance of composites made of rGO with Zn-MOF and PANI as electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2021, 367, 137563.	2.6	44
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