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Synthesis of carbon-coated graphene electrodes and their electrochemical performance

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#	Paper	IF	Citations
43	Graphene-carbon paste electrode for cadmium and lead ion monitoring in a flow-based system. <i>Talanta</i> , 2012 , 100, 282-9	6.2	44
42	Electrochemical performance of graphene/carbon electrode contained well-balanced micro- and mesopores by activation-free method. <i>Electrochimica Acta</i> , 2012 , 65, 50-56	6.7	26
41	Synthesis and high electrochemical capacitance of N-doped microporous carbon/carbon nanotubes for supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 673, 58-64	4.1	74
40	Voltammetric Detection of a Specific DNA Sequence of Avian Influenza Virus H5N1 Using HS-ssDNA Probe Deposited onto Gold Electrode. <i>Electroanalysis</i> , 2012 , 24, 439-446	3	30
39	Preparation and characterization of polypyrrole/graphene nanocomposite films and their electrochemical performance. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	54
38	Recent advances in polyaniline research: Polymerization mechanisms, structural aspects, properties and applications. <i>Synthetic Metals</i> , 2013 , 177, 1-47	3.6	535
37	Formation of gold-coated multilayer graphene via thermal reduction. <i>Materials Letters</i> , 2013 , 106, 200-203	2.3	10
36	A new route toward graphene nanosheet/polyaniline composites using a reactive surfactant as polyaniline precursor. <i>Synthetic Metals</i> , 2013 , 184, 52-60	3.6	20
35	Facile and rapid synthesis of highly crumpled graphene sheets as high-performance electrodes for supercapacitors. <i>RSC Advances</i> , 2013 , 3, 2566	3.7	45
34	Asymmetric hybrid capacitors based on activated carbon and activated carbon fibre/PANI electrodes. <i>Electrochimica Acta</i> , 2013 , 89, 326-333	6.7	82
33	Carbonised polyaniline and polypyrrole: towards advanced nitrogen-containing carbon materials. <i>Chemical Papers</i> , 2013 , 67,	1.9	96
32	Interfacial, fire retardancy, and thermal stability evaluation of graphite oxide (GO)-phenolic composites with different GO particle sizes. <i>Composites Part B: Engineering</i> , 2013 , 53, 290-296	10	19
31	Effect of Temperature on Carbon-coated Graphene for Lithium-ion Batteries with Improved Performance. <i>Chemistry Letters</i> , 2013 , 42, 992-994	1.7	1
30	Rich nitrogen-doped ordered mesoporous phenolic resin-based carbon for supercapacitors. <i>Electrochimica Acta</i> , 2014 , 148, 187-194	6.7	94
29	Enhanced electrical capacitance of heteroatom-decorated nanoporous carbon nanofiber composites containing graphene. <i>Electrochimica Acta</i> , 2014 , 137, 781-788	6.7	21
28	Facile preparation of mesoporous graphenes by the sacrificial template approach for direct methanol fuel cell application. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19914-19919	13	7
27	Fabrication, structure and mechanism of reduced graphene oxide-based carbon composite films. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10502	13	8

26	A self-assembled macroporous coagulation graphene network with high specific capacitance for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19141-19144	13	41
25	Pyrolyzed Polyaniline/graphene Nanosheets with Enhanced Lithium-Storage Properties: Preparation and Characterization. <i>ChemElectroChem</i> , 2014 , 1, 951-956	4.3	8
24	Structure and electrochemical properties of electrospun carbon fiber composites containing graphene. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3474-3479	6.3	42
23	Pyrolyzed polyaniline and graphene nano sheet composite with improved rate and cycle performance for lithium storage. <i>Carbon</i> , 2015 , 92, 354-361	10.4	17
22	Sol-gel process-derived rich nitrogen-doped porous carbon through KOH activation for supercapacitors. <i>Electrochimica Acta</i> , 2015 , 158, 229-236	6.7	55
21	CN foam loaded with few-layer graphene nanosheets for high-performance supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7591-7599	13	54
20	Characteristics of Fe ₂ O ₃ /exfoliated vapor-grown carbon fiber composite as anode material for lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , 2015 , 45, 983-990	2.6	5
19	Nano-porous architecture of N-doped carbon nanorods grown on graphene to enable synergetic effects of supercapacitance. <i>Scientific Reports</i> , 2014 , 4, 7426	4.9	27
18	New nano-composite potentiometric sensor composed of graphene nanosheets/thionine/molecular wire for nanomolar detection of silver ion in various real samples. <i>Talanta</i> , 2015 , 131, 548-55	6.2	73
17	Capacitive properties of hierarchically structured carbon nanofiber/graphene/MnO ₂ hybrid electrode with nitrogen and oxygen heteroatoms. <i>Carbon</i> , 2016 , 107, 783-791	10.4	42
16	Facile synthesis of N/P co-doped carbons with tailored hierarchically porous structures for supercapacitor applications. <i>RSC Advances</i> , 2016 , 6, 9772-9778	3.7	15
15	Determination of copper ions in foodstuff products with a newly modified potentiometric carbon paste electrode based on a novel nano-sensing layer. <i>Ionics</i> , 2016 , 22, 1241-1252	2.7	30
14	Design and preparation of porous carbons from conjugated polymer precursors. <i>Materials Today</i> , 2017 , 20, 629-656	21.8	111
13	Effect of thermal reduction temperature on the optical and electrical properties of multilayer graphene. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 1038-1041	2.1	3
12	Polyaniline precursor with surfactant/monomer function for the synthesis of graphite nanosheet/polyaniline composites. <i>Polymer Bulletin</i> , 2018 , 75, 2339-2355	2.4	3
11	Influence of boron content on the structure and capacitive properties of electrospun polyacrylonitrile/pitch-based carbon nanofiber composites. <i>Synthetic Metals</i> , 2018 , 242, 1-7	3.6	8
10	Rich nitrogen-doped ordered mesoporous carbon synthesized by copolymerization of PMDA and ODA with SBA-15 as a template for high-performance supercapacitors. <i>Journal of Porous Materials</i> , 2020 , 27, 525-535	2.4	4
9	Using nitroaromatic fused-heterocycle molecules as nitrogen source to hugely boost the capacitance performance of graphene. <i>Electrochimica Acta</i> , 2020 , 354, 136703	6.7	5

8	Binder-free hierarchical porous N-doped graphene directly anchored on carbon fiber cloth for high-performance electrochemical energy storage. <i>Journal of Energy Storage</i> , 2020 , 31, 101682	7.8	5
7	Preparation of single-layer graphene based on a wet chemical synthesis route and the effect on electrochemical properties by double layering surface functional groups to modify graphene oxide. <i>Electrochimica Acta</i> , 2020 , 361, 137053	6.7	2
6	Functionalization of partially reduced graphene oxide by metal complex as electrode material in supercapacitor. <i>Research on Chemical Intermediates</i> , 2020 , 46, 2595-2612	2.8	5
5	Electrospun polyacrylonitrile/cyclodextrin-derived hierarchical porous carbon nanofiber/MnO ₂ composites for supercapacitor applications. <i>Carbon</i> , 2020 , 164, 296-304	10.4	32
4	Carbon nanotube-sulfur nanocomposite electrodes for high energy foldable lithium sulfur battery. <i>Materials Today: Proceedings</i> , 2021 , 42, 1638-1641	1.4	2
3	One-step hydrothermal synthesis of N-doped graphene/poly5-hydroxyindole composite materials for supercapacitor with ultra-long cycle stability and ultra-high energy storage performance. <i>Journal of Energy Storage</i> , 2021 , 43, 103303	7.8	2
2	Preparation and Electrochemical Properties of PANI/TiO ₂ Composites for Supercapacitor Electrodes. <i>Korean Chemical Engineering Research</i> , 2012 , 50, 50-54		0
1	Electromagnetic response characteristics of lightweight hierarchical 2D nitrogen-doped graphene@amorphous carbon. <i>Applied Surface Science</i> , 2021 , 151974	6.7	2