Synthesis of Nitrogen-Doped Porous Carbon Nanofibers for Supercapacitors

ACS Nano

6, 7092-7102

DOI: 10.1021/nn302147s

Citation Report

#	Article	IF	Citations
12	Multifunctional nitrogen-rich â€œbrick-and-mortarâ€•carbon as high performance supercapacitor electrodes and oxygen reduction electrocatalysts. Journal of Materials Chemistry A, 2013, 1, 11061.	5.2	34
13	Free-standing nitrogen-doped carbon nanofiber films as highly efficient electrocatalysts for oxygen reduction. Nanoscale, 2013, 5, 9528.	2.8	111
14	Synthesis, characterization and electrochemical performance of graphene decorated with 1D NiMoO4Â·nH2O nanorods. Nanoscale, 2013, 5, 10428.	2.8	238
15	Nâ€Doped Graphene Natively Grown on Hierarchical Ordered Porous Carbon for Enhanced Oxygen Reduction. Advanced Materials, 2013, 25, 6226-6231.	11.1	388
16	The production of activated carbon from cation exchange resin for high-performance supercapacitor. Journal of Solid State Electrochemistry, 2013, 17, 1749-1758.	1.2	21
17	Excellent electrochemical performance of nitrogen-enriched hierarchical porous carbon electrodes prepared using nano-CaCO3 as template. Journal of Solid State Electrochemistry, 2013, 17, 2651-2660.	1.2	38
18	Role of fluorination in improvement of the electrochemical properties of activated carbon nanofiber electrodes. Journal of Fluorine Chemistry, 2013, 150, 98-103.	0.9	21
19	Mesoporous NiO nanoarchitectures for electrochemical energy storage: influence of size, porosity, and morphology. RSC Advances, 2013, 3, 23801.	1.7	111
20	Mesoporous N-containing carbon nanosheets towards high-performance electrochemical capacitors. Carbon, 2013, 64, 141-149.	5.4	82
21	Graphene@poly(m-phenylenediamine) hydrogel fabricated by a facile post-synthesis assembly strategy. Chemical Communications, 2013, 49, 9974.	2.2	43
22	Facile Preparation of Porous Carbon Nanosheets without Template and Their Excellent Electrocatalytic Property. ACS Applied Materials & Interfaces, 2013, 5, 11597-11602.	4.0	43
23	Large-scale synthesis and enhanced hydrogen storage of monodispersed sulfur-doped carbon microspheres by hydro-sulfur-thermal carbonization of starch. Materials Letters, 2013, 109, 279-282.	1.3	21
24	Towards ultrahigh volumetric capacitance: graphene derived highly dense but porous carbons for supercapacitors. Scientific Reports, 2013, 3, 2975.	1.6	541
25	Interconnected porous and nitrogen-doped carbon network for supercapacitors with high rate capability and energy density. Electrochimica Acta, 2013, 114, 165-172.	2.6	38
26	Polyaniline Nanowire Arrays Aligned on Nitrogen-Doped Carbon Fabric for High-Performance Flexible Supercapacitors. Langmuir, 2013, 29, 12051-12058.	1.6	109
27	Tubular graphitic-C3N4: a prospective material for energy storage and green photocatalysis. Journal of Materials Chemistry A, 2013, 1, 13949.	5.2	238
28	Water Dispersible, Highly Graphitic and Nitrogenâ€Doped Carbon Nanobubbles. Small, 2013, 9, 4135-4141.	5.2	36
29	Flexible all-solid-state high-power supercapacitor fabricated with nitrogen-doped carbon nanofiber electrode material derived from bacterial cellulose. Energy and Environmental Science, 2013, 6, 3331.	15.6	495

#	Article	IF	Citations
30	High-Performance Supercapacitor Electrodes Based on Graphene Achieved by Thermal Treatment with the Aid of Nitric Acid. ACS Applied Materials & Interfaces, 2013, 5, 9656-9662.	4.0	87
31	Hollow, Spherical Nitrogen-Rich Porous Carbon Shells Obtained from a Porous Organic Framework for the Supercapacitor. ACS Applied Materials & Interfaces, 2013, 5, 10280-10287.	4.0	199
32	A general conversion of polyacrylateâ€"metal complexes into porous carbons especially evinced in the case of magnesium polyacrylate. Journal of Materials Chemistry A, 2013, 1, 4017.	5.2	26
33	Moderating Black Powder Chemistry for the Synthesis of Doped and Highly Porous Graphene Nanoplatelets and Their Use in Electrocatalysis. Advanced Materials, 2013, 25, 6284-6290.	11.1	235
34	In situ polydopamine coating-directed synthesis of nitrogen-doped ordered nanoporous carbons with superior performance in supercapacitors. Journal of Materials Chemistry A, 2013, 1, 15207.	5.2	78
35	Seaweed-like porous carbon from the decomposition of polypyrrole nanowires for application in lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 5037.	5.2	61
36	An electron-rich free-standing carbon@Au coreâ€"shell nanofiber network as a highly active and recyclable catalyst for the reduction of 4-nitrophenol. Physical Chemistry Chemical Physics, 2013, 15, 10453.	1.3	69
37	VGCF-core@LiMn0.4Fe0.6PO4-sheath heterostructure nanowire for high rate Li-ion batteries. CrystEngComm, 2013, 15, 6638.	1.3	10
38	Nitrogen-doped porous carbon for supercapacitor with long-term electrochemical stability. Journal of Power Sources, 2013, 230, 50-58.	4.0	256
39	Nitrogenâ€Doped Porous Carbon Nanosheets as Lowâ€Cost, Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. ChemSusChem, 2013, 6, 56-60.	3.6	593
40	Nitrogen/manganese oxides doped porous carbons derived from sodium butyl naphthalene sulfonate. Journal of Colloid and Interface Science, 2013, 398, 176-184.	5.0	8
41	Electrochemical evaluation of DNA methylation level based on the stoichiometric relationship between purine and pyrimidine bases. Biosensors and Bioelectronics, 2013, 45, 34-39.	5.3	48
42	Two-dimensional mesoporous carbon sheet-like framework material for high-rate supercapacitors. Carbon, 2013, 60, 481-487.	5.4	201
43	Activated porous carbon nanofibers using Sn segregation for high-performance electrochemical capacitors. Carbon, 2013, 65, 87-96.	5.4	89
44	Generation of B-Doped Graphene Nanoplatelets Using a Solution Process and Their Supercapacitor Applications. ACS Nano, 2013, 7, 19-26.	7.3	532
45	A simple process to prepare nitrogen-modified few-layer graphene for a supercapacitor electrode. Carbon, 2013, 57, 184-190.	5.4	83
46	Synthesis of Ultrathin Nitrogen-Doped Graphitic Carbon Nanocages as Advanced Electrode Materials for Supercapacitor. ACS Applied Materials & Interfaces, 2013, 5, 2241-2248.	4.0	320
47	A novel polymeric precursor for micro/mesoporous nitrogen-doped carbons. Journal of Materials Chemistry A, 2013, 1, 5113.	5.2	60

#	Article	IF	Citations
48	Largeâ€Area Flexible Coreâ€“Shell Graphene/Porous Carbon Woven Fabric Films for Fiber Supercapacitor Electrodes. Advanced Functional Materials, 2013, 23, 4862-4869.	7.8	62
49	Biomass-Derived Sponge-like Carbonaceous Hydrogels and Aerogels for Supercapacitors. ACS Nano, 2013, 7, 3589-3597.	7.3	557
50	Synthesis of superior carbon nanofibers with large aspect ratio and tunable porosity for electrochemical energy storage. Journal of Materials Chemistry A, 2013, 1, 9449.	5.2	57
51	Carbonised polyaniline and polypyrrole: towards advanced nitrogen-containing carbon materials. Chemical Papers, 2013, 67, .	1.0	111
52	Nitrogen-doped mesoporous carbons originated from ionic liquids as electrode materials for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 6373.	5.2	130
53	Poly(ionic liquid)-derived nitrogen-doped hollow carbon spheres: synthesis and loading with Fe2O3 for high-performance lithium ion batteries. RSC Advances, 2013, 3, 7979.	1.7	37
54	Nitrogen-doped porous carbons by conversion of azo dyes especially in the case of tartrazine. Journal of Power Sources, 2013, 242, 41-49.	4.0	23
55	High-Performance Supercapacitors Based on Hollow Polyaniline Nanofibers by Electrospinning. ACS Applied Materials & Interfaces, 2013, 5, 4423-4428.	4.0	234
56	Microtube Bundle Carbon Derived from Paulownia Sawdust for Hybrid Supercapacitor Electrodes. ACS Applied Materials & Interfaces, 2013, 5, 4667-4677.	4.0	68
57	Bacterialâ€Celluloseâ€Derived Carbon Nanofiber@MnO₂ and Nitrogenâ€Doped Carbon Nanofiber Electrode Materials: An Asymmetric Supercapacitor with High Energy and Power Density. Advanced Materials, 2013, 25, 4746-4752.	11.1	590
58	Chain-like NiCo2O4 nanowires with different exposed reactive planes for high-performance supercapacitors. Journal of Materials Chemistry A, 2013, 1, 8560.	5.2	250
59	Synthesis of functionalized 3D hierarchical porous carbon for high-performance supercapacitors. Energy and Environmental Science, 2013, 6, 2497.	15.6	1,053
60	Identifying the Active Site in Nitrogen-Doped Graphene for the VO²⁺/VO₂⁺ Redox Reaction. ACS Nano, 2013, 7, 4764-4773.	7.3	236
61	Advanced porous carbon electrodes for electrochemical capacitors. Journal of Materials Chemistry A, 2013, 1, 9395.	5.2	156
62	Supercapacitive Properties of Hydrothermally Synthesized Î³-MnOOH Nanowires. Advanced Materials Research, 2013, 634-638, 2638-2642.	0.3	1
63	Improved Direct Electrochemistry for Proteins Adsorbed on a UV/Ozone-Treated Carbon Nanofiber Electrode. Analytical Sciences, 2013, 29, 611-618.	0.8	18
64	High performance nitrogen-doped carbon for supercapacitor obtained by carbonizing eco-friendly and cheap polyaspartic acid. Materials Letters, 2014, 132, 41-44.	1.3	13
65	Cross-linked polymers of diethynylbenzene and phenylacetylene as new polymer precursors for high-yield synthesis of high-performance nanoporous activated carbons for supercapacitors, hydrogen storage, and CO₂capture. Journal of Materials Chemistry A, 2014, 2, 20316-20330.	5.2	40

#	Article	IF	Citations
66	Preparation of pitchâ€based carbon materials using a template and an orthogonal array design for super capacitors. Micro and Nano Letters, 2014, 9, 927-931.	0.6	1
67	Rational Design of Ni Nanoparticles on Nâ€Rich Ultrathin Carbon Nanosheets for Highâ€Performance Supercapacitor Materials: Embeddedâ€Versus Anchoredâ€Type Dispersion. Chemistry - A European Journal, 2014, 20, 5046-5053.	1.7	37
68	Nitrogenâ€Doped Porous Graphitic Carbon as an Excellent Electrode Material for Advanced Supercapacitors. Chemistry - A European Journal, 2014, 20, 564-574.	1.7	388
69	Synthesis and characterization of platinum modified TiO₂-embedded carbon nanofibers for solar hydrogen generation. RSC Advances, 2014, 4, 51286-51293.	1.7	35
70	General Scalable Strategy toward Heterogeneously Doped Hierarchical Porous Graphitic Carbon Bubbles for Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2014, 6, 21661-21668.	4.0	48
71	Sustainable synthesis of Penicillium-derived highly conductive carbon film as superior binder-free electrode of lithium ion batteries. Journal of Solid State Electrochemistry, 2014, 18, 3209-3214.	1.2	11
72	Lowest Îâ€“Î* electronic transitions in linear and two-dimensional polycyclic aromatic hydrocarbons: enhanced electron density edge effect. Molecular Physics, 2014, 112, 1063-1070.	0.8	3
73	Chlorine effect on formation of turbostratic carbon nanofibers by a mixture of 1,2-dichloroethane and ethanol. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1883-1891.	2.7	9
75	Carbon Fibers: Precursor Systems, Processing, Structure, and Properties. Angewandte Chemie - International Edition, 2014, 53, 5262-5298.	7.2	697
76	Heterostructured Ni(OH)2â€“Co(OH)2 composites on 3D ordered Niâ€“Co nanoparticles fabricated on microchannel plates for advanced miniature supercapacitor. Journal of Alloys and Compounds, 2014, 589, 364-371.	2.8	37
77	Nitrogen-containing nanoporous carbons by a rational template carbonization method evinced in the cases of 1, 10-phenanthroline and benzimidazole. Journal of Solid State Electrochemistry, 2014, 18, 1879-1887.	1.2	3
78	Controllable synthesis and enhanced visible photocatalytic degradation performances of Bi2WO6â€“carbon nanofibers heteroarchitectures. Journal of Sol-Gel Science and Technology, 2014, 70, 149-158.	1.1	12
79	Carbon/MnO₂ Double-Walled Nanotube Arrays with Fast Ion and Electron Transmission for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 2726-2733.	4.0	104
80	A general approach for fabrication of nitrogen-doped graphene sheets and its application in supercapacitors. Journal of Colloid and Interface Science, 2014, 417, 270-277.	5.0	93
82	Mesoporous carbon nanofibers with large cage-like pores activated by tin dioxide and their use in supercapacitor and catalyst support. Carbon, 2014, 70, 295-307.	5.4	111
83	Recent Advances in Design and Fabrication of Electrochemical Supercapacitors with High Energy Densities. Advanced Energy Materials, 2014, 4, 1300816.	10.2	1,727
85	High-performance supercapacitor electrodes based on porous flexible carbon nanofiber paper treated by surface chemical etching. Chemical Engineering Journal, 2014, 249, 216-225.	6.6	112
86	Interconnected Frameworks with a Sandwiched Porous Carbon Layer/Graphene Hybrids for Supercapacitors with High Gravimetric and Volumetric Performances. Advanced Energy Materials, 2014, 4, 1400500.	10.2	234

#	Article	IF	Citations
87	Nitrogen Enriched Porous Carbon Spheres: Attractive Materials for Supercapacitor Electrodes and CO₂ Adsorption. Chemistry of Materials, 2014, 26, 2820-2828.	3.2	539
88	Powder, Paper and Foam of Fewâ€Layer Graphene Prepared in High Yield by Electrochemical Intercalation Exfoliation of Expanded Graphite. Small, 2014, 10, 1421-1429.	5.2	127
89	A Mechanically and Electrically Selfâ€Healing Supercapacitor. Advanced Materials, 2014, 26, 3638-3643.	11.1	351
90	The Colloidal Stabilization of Carbon with Carbon: Carbon Nanobubbles as both Dispersant and Glue for Carbon Nanotubes. Angewandte Chemie - International Edition, 2014, 53, 1062-1066.	7.2	23
91	Memristorâ€Integrated Voltageâ€Stabilizing Supercapacitor System. Advanced Materials, 2014, 26, 4999-5004.	11.1	26
92	Porous nitrogen-doped hollow carbon spheres derived from polyaniline for high performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 5352-5357.	5.2	403
93	Always Look on the â€œLightâ€•Side of Life: Sustainable Carbon Aerogels. ChemSusChem, 2014, 7, 670-689.	3.6	157
94	Growth of NiFe2O4 nanoparticles on carbon cloth for high performance flexible supercapacitors. Journal of Materials Chemistry A, 2014, 2, 10889.	5.2	214
95	Graphene Coupled Schiffâ€base Porous Polymers: Towards Nitrogenâ€enriched Porous Carbon Nanosheets with Ultrahigh Electrochemical Capacity. Advanced Materials, 2014, 26, 3081-3086.	11.1	224
96	Enhanced capacitance and stability of p-toluenesulfonate doped polypyrrole/carbon composite for electrode application in electrochemical capacitors. Journal of Power Sources, 2014, 246, 800-807.	4.0	78
97	Template-Assisted Low Temperature Synthesis of Functionalized Graphene for Ultrahigh Volumetric Performance Supercapacitors. ACS Nano, 2014, 8, 4720-4729.	7.3	413
98	Facile Synthesis and Electrochemical Properties of Co₃S₄â€Nitrogenâ€Doped Graphene Nanocomposites for Supercapacitor Applications. Electroanalysis, 2014, 26, 199-208.	1.5	63
99	Phosphorous and nitrogen dual heteroatom doped mesoporous carbon synthesized via microwave method for supercapacitor application. Journal of Power Sources, 2014, 250, 257-265.	4.0	216
100	A sandwich-type three-dimensional layered double hydroxide nanosheet array/graphene composite: fabrication and high supercapacitor performance. Journal of Materials Chemistry A, 2014, 2, 1022-1031.	5.2	254
101	On the Dynamics of Charging in Nanoporous Carbon-Based Supercapacitors. ACS Nano, 2014, 8, 1576-1583.	7.3	201
102	High-Yield Harvest of Nanofibers/Mesoporous Carbon Composite by Pyrolysis of Waste Biomass and Its Application for High Durability Electrochemical Energy Storage. Environmental Science & Technology, 2014, 48, 13951-13959.	4.6	173
103	Formation of Carbon Nanosheets via Simultaneous Activation and Catalytic Carbonization of Macroporous Anion-Exchange Resin for Supercapacitors Application. ACS Applied Materials & Interfaces, 2014, 6, 20795-20803.	4.0	90
104	Dyeing bacterial cellulose pellicles for energetic heteroatom doped carbon nanofiber aerogels. Nano Research, 2014, 7, 1861-1872.	5.8	97

#	Article	IF	Citations
105	Formation of Nitrogen-Doped Mesoporous Graphitic Carbon with the Help of Melamine. ACS Applied Materials & Interfaces, 2014, 6, 20574-20578.	4.0	45
106	In situ synthesis of NixCoyOzâ€"C composites with rod-like Ni@C as support for potential application in supercapacitors. RSC Advances, 2014, 4, 32047.	1.7	4
107	CoMoO₄Â·0.9H₂O nanorods grown on reduced graphene oxide as advanced electrochemical pseudocapacitor materials. RSC Advances, 2014, 4, 34307.	1.7	46
108	Temperature-dependent structure and electrochemical performance of highly nanoporous carbon from potassium biphthalate and magnesium powder via a template carbonization process. Journal of Materials Chemistry A, 2014, 2, 9675.	5.2	20
109	Freestanding 3D mesoporous graphene oxide for high performance energy storage applications. RSC Advances, 2014, 4, 51640-51647.	1.7	15
110	N-doped porous hollow carbon nanofibers fabricated using electrospun polymer templates and their sodium storage properties. RSC Advances, 2014, 4, 16920-16927.	1.7	53
111	Asymmetric supercapacitors based on nano-architectured nickel oxide/graphene foam and hierarchical porous nitrogen-doped carbon nanotubes with ultrahigh-rate performance. Journal of Materials Chemistry A, 2014, 2, 3223-3230.	5.2	242
112	Preparation and electrochemical applications of spherical maltose-based templated carbon/MnO x composite materials. Electrochimica Acta, 2014, 148, 228-236.	2.6	8
113	Unusual effects of solvent polarity on capacitance for organic electrolytes in a nanoporous electrode. Nanoscale, 2014, 6, 5545-5550.	2.8	70
114	Nitrogen-doped hierarchically porous carbon as efficient oxygen reduction electrocatalysts in acid electrolyte. Journal of Materials Chemistry A, 2014, 2, 17047-17057.	5.2	62
115	Preparation of novel pigskin-derived carbon sheets and their low-temperature activation-induced high capacitive performance. RSC Advances, 2014, 4, 45318-45324.	1.7	35
116	Hydrothermal synthesis of nitrogen-doped graphene hydrogels using amino acids with different acidities as doping agents. Journal of Materials Chemistry A, 2014, 2, 8352-8361.	5.2	141
117	Functionalization of graphene with nitrogen using ethylenediaminetetraacetic acid and their electrochemical energy storage properties. RSC Advances, 2014, 4, 24248.	1.7	20
118	Confining selenium in nitrogen-containing hierarchical porous carbon for high-rate rechargeable lithiumâ€"selenium batteries. Journal of Materials Chemistry A, 2014, 2, 12255.	5.2	87
119	Easy approach to synthesize N/P/K co-doped porous carbon microfibers from cane molasses as a high performance supercapacitor electrode material. RSC Advances, 2014, 4, 34739-34750.	1.7	17
120	Biomass-derived three-dimensional porous N-doped carbonaceous aerogel for efficient supercapacitor electrodes. RSC Advances, 2014, 4, 23412.	1.7	68
121	Nitrogen-containing nanoporous carbons with high pore volumes from 4-(4-nitrophenylazo)resorcinol by a Mg(OH)2-assisted template carbonization method. Journal of Materials Chemistry A, 2014, 2, 17586-17594.	5.2	7
122	Nitrogen- and oxygen-containing activated carbon nanotubes with improved capacitive properties. RSC Advances, 2014, 4, 5524.	1.7	52

#	Article	IF	Citations
123	Template-free synthesis of hierarchical porous carbon derived from low-cost biomass for high-performance supercapacitors. RSC Advances, 2014, 4, 51072-51079.	1.7	54
124	High-performance aqueous asymmetric supercapacitor based on carbon nanofibers network and tungsten trioxide nanorod bundles electrodes. Electrochimica Acta, 2014, 147, 54-61.	2.6	87
125	Understanding the effect of polypyrrole and poly(3,4-ethylenedioxythiophene) on enhancing the supercapacitor performance of NiCo₂O₄electrodes. Journal of Materials Chemistry A, 2014, 2, 16731-16739.	5.2	70
126	Monodispersed N-Doped Carbon Nanospheres for Supercapacitor Application. ACS Applied Materials & Interfaces, 2014, 6, 13968-13976.	4.0	202
127	Cotton-based hollow carbon fibers with high specific surface area prepared by ammonia etching for supercapacitor application. RSC Advances, 2014, 4, 31300-31307.	1.7	58
128	Mass Production of Multiâ€Channeled Porous Carbon Nanofibers and Their Application as Binderâ€Free Electrodes for Highâ€Performance Supercapacitors. Small, 2014, 10, 4671-4676.	5.2	42
129	Biomass-derived carbon materials for high-performance supercapacitor electrodes. RSC Advances, 2014, 4, 30887.	1.7	95
130	Influence of current collector electrode on the capacitive performance of electrodeposited PANI: insight gained from frequency and time domain analysis. RSC Advances, 2014, 4, 53740-53751.	1.7	17
131	Nitrogen-Enriched Hierarchically Porous Carbons Prepared from Polybenzoxazine for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 15583-15596.	4.0	189
132	A facile method of synthesizing uniform resin colloidal and microporous carbon spheres with high nitrogen content. Journal of Colloid and Interface Science, 2014, 431, 132-138.	5.0	19
133	Grapheneâ€"Single-Walled Carbon Nanotubesâ€"Poly(3-methylthiophene) Ternary Nanocomposite for Supercapacitor Electrode Materials. Industrial & Engineering Chemistry Research, 2014, 53, 13030-13045.	1.8	46
134	Hierarchical Coreâ€"Shell Carbon Nanofiber@ZnIn₂S₄ Composites for Enhanced Hydrogen Evolution Performance. ACS Applied Materials & Interfaces, 2014, 6, 13841-13849.	4.0	179
135	Phase evolution of an alpha MnO 2 -based electrode for pseudo-capacitors probed by in operando Raman spectroscopy. Nano Energy, 2014, 9, 161-167.	8.2	195
136	Facile Inâ€...Situ Synthesis of Hierarchical Porous Ni/Ni(OH)₂ Hybrid Sponges with Excellent Electrochemical Energyâ€Storage Performances for Supercapacitors. Chemistry - an Asian Journal, 2014, 9, 2590-2596.	1.7	9
137	On the origin of the high capacitance of carbon derived from seaweed with an apparently low surface area. Journal of Materials Chemistry A, 2014, 2, 18998-19004.	5.2	65
138	Diaminohexane-Assisted Preparation of Coral-like, Poly(benzoxazine)-Based Porous Carbons for Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2014, 6, 11101-11109.	4.0	21
139	Ultrathin single-crystalline vanadium pentoxide nanoribbon constructed 3D networks for superior energy storage. Journal of Materials Chemistry A, 2014, 2, 13136-13142.	5.2	78
140	Nitrogen-doped sandwich-like porous carbon nanosheets for high volumetric performance supercapacitors. Electrochimica Acta, 2014, 146, 548-555.	2.6	64

#	Article	IF	Citations
141	Porous carbon synthesized by direct carbonization of potassium biphthalate for high-performance supercapacitors. Journal of Solid State Electrochemistry, 2014, 18, 59-67.	1.2	19
142	Multifunctional g-C₃N₄ Nanofibers: A Template-Free Fabrication and Enhanced Optical, Electrochemical, and Photocatalyst Properties. ACS Applied Materials & Interfaces, 2014, 6, 1258-1265.	4.0	360
143	DNA-assisted assembly of carbon nanotubes and MnO2 nanospheres as electrodes for high-performance asymmetric supercapacitors. Physical Chemistry Chemical Physics, 2014, 16, 4672.	1.3	55
144	All-solid-state, origami-type foldable supercapacitor chips with integrated series circuit analogues. Energy and Environmental Science, 2014, 7, 1095.	15.6	62
145	Nitrogen-Doped Carbon-Wrapped Porous Single-Crystalline CoO Nanocubes for High-Performance Lithium Storage. ACS Applied Materials & Interfaces, 2014, 6, 10602-10607.	4.0	105
146	Ternary nitrogen-doped graphene/nickel ferrite/polyaniline nanocomposites for high-performance supercapacitors. Journal of Power Sources, 2014, 269, 250-259.	4.0	136
147	Well-dispersed hollow porous carbon spheres synthesized by direct pyrolysis of coreâ€“shell type metalâ€“organic frameworks and their sorption properties. Chemical Communications, 2014, 50, 4492.	2.2	86
148	Nitrogen-Doped Hierarchical Porous Carbon Nanowhisker Ensembles on Carbon Nanofiber for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2014, 2, 1525-1533.	3.2	99
149	In Situ One-Step Synthesis of Hierarchical Nitrogen-Doped Porous Carbon for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 7214-7222.	4.0	306
150	Integrated Synthesis of Nitrogen-Doped Mesoporous Carbon from Melamine Resins with Superior Performance in Supercapacitors. Journal of Physical Chemistry C, 2014, 118, 2507-2517.	1.5	163
151	Isolated Boron and Nitrogen Sites on Porous Graphitic Carbon Synthesized from Nitrogenâ€Containing Chitosan for Supercapacitors. ChemSusChem, 2014, 7, 1637-1646.	3.6	128
152	Hierarchically porous carbon derived from polymers and biomass: effect of interconnected pores on energy applications. Energy and Environmental Science, 2014, 7, 3574-3592.	15.6	1,204
153	Exceptional pseudocapacitive properties of hierarchical NiO ultrafine nanowires grown on mesoporous NiO nanosheets. Journal of Materials Chemistry A, 2014, 2, 12799-12804.	5.2	52
154	In situ hydrothermal growth of ferric oxides on carbon cloth for low-cost and scalable high-energy-density supercapacitors. Nano Energy, 2014, 9, 345-354.	8.2	126
155	Coordination Polymer Submicrospheres: Fast Microwave Synthesis and Their Conversion under Different Atmospheres. Inorganic Chemistry, 2014, 53, 8278-8286.	1.9	30
156	Highly porous Li 4 Ti 5 O 12 /C nanofibers for ultrafast electrochemical energy storage. Nano Energy, 2014, 10, 163-171.	8.2	165
157	Nitrogen-doped activated carbons derived from a co-polymer for high supercapacitor performance. Journal of Materials Chemistry A, 2014, 2, 11697-11705.	5.2	94
158	Self-Assembled Three-Dimensional Hierarchical Graphene/Polypyrrole Nanotube Hybrid Aerogel and Its Application for Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 9671-9679.	4.0	224

#	Article	IF	Citations
159	Direct Synthesis of Highly Porous Interconnected Carbon Nanosheets and Their Application as High-Performance Supercapacitors. ACS Nano, 2014, 8, 5069-5078.	7.3	654
160	Assembly of Chitin Nanofibers into Porous Biomimetic Structures via Freeze Drying. ACS Macro Letters, 2014, 3, 185-190.	2.3	75
161	Tailoring Biomassâ€Derived Carbon Nanoarchitectures for Highâ€Performance Supercapacitors. ChemElectroChem, 2014, 1, 332-337.	1.7	80
162	Nitrogen-doped mesoporous carbon derived from biopolymer as electrode material for supercapacitors. Journal of Electroanalytical Chemistry, 2014, 712, 146-150.	1.9	54
163	Nitrogen/phosphorus co-doped nonporous carbon nanofibers for high-performance supercapacitors. Journal of Power Sources, 2014, 248, 745-751.	4.0	147
164	Threeâ€Dimensional Heteroatomâ€Doped Carbon Nanofiber Networks Derived from Bacterial Cellulose for Supercapacitors. Advanced Functional Materials, 2014, 24, 5104-5111.	7.8	535
165	Hollow Nanospheres Constructed by CoS₂ Nanosheets with a Nitrogenâ€Dopedâ€Carbon Coating for Energyâ€Storage and Photocatalysis. ChemSusChem, 2014, 7, 2212-2220.	3.6	96
166	A renewable biopolymer cathode with multivalent metal ions for enhanced charge storage. Journal of Materials Chemistry A, 2014, 2, 1974-1979.	5.2	42
167	High performance nitrogen-doped porous graphene/carbon frameworks for supercapacitors. Journal of Materials Chemistry A, 2014, 2, 8859.	5.2	95
168	One-Step Carbonization Synthesis of Hollow Carbon Nanococoons with Multimodal Pores and Their Enhanced Electrochemical Performance for Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 2192-2198.	4.0	57
169	Activated Carbon-Coated Carbon Nanotubes for Energy Storage in Supercapacitors and Capacitive Water Purification. ACS Sustainable Chemistry and Engineering, 2014, 2, 1289-1298.	3.2	209
170	Simple and scalable synthesis of phosphorus and nitrogen enriched porous carbons with high volumetric capacitance. Electrochimica Acta, 2014, 136, 466-472.	2.6	49
171	N- and O-doped carbonaceous nanotubes from polypyrrole for potential application in high-performance capacitance. Journal of Power Sources, 2014, 247, 660-666.	4.0	100
172	Synthesis of Graphene. , 2014, , 34-77.		1
173	Three-dimensional Nitrogen-Doped Graphene Supported Molybdenum Disulfide Nanoparticles as an Advanced Catalyst for Hydrogen Evolution Reaction. Scientific Reports, 2015, 5, 17542.	1.6	156
174	Ionic Liquid Directed Mesoporous Carbon Nanoflakes as an Effiencient Electrode material. Scientific Reports, 2015, 5, 18236.	1.6	22
175	Carbonâ€Based Materials for Lithiumâ€Ion Batteries, Electrochemical Capacitors, and Their Hybrid Devices. ChemSusChem, 2015, 8, 2284-2311.	3.6	259
176	Tuning Surface Wettability and Adhesivity of a Nitrogenâ€Doped Graphene Foam after Water Vapor Treatment for Efficient Oil Removal. Advanced Materials Interfaces, 2015, 2, 1500243.	1.9	30

#	Article	IF	Citations
178	A Discussion on the Activity Origin in Metalâ€Free Nitrogenâ€Doped Carbons For Oxygen Reduction Reaction and their Mechanisms. ChemSusChem, 2015, 8, 2772-2788.	3.6	111
179	Ultraâ€light Hierarchical Graphene Electrode for Binderâ€Free Supercapacitors and Lithiumâ€Ion Battery Anodes. Small, 2015, 11, 4922-4930.	5.2	67
181	Multifunctional Carbon Nanostructures for Advanced Energy Storage Applications. Nanomaterials, 2015, 5, 755-777.	1.9	73
183	Natural-gel derived, N-doped, ordered and interconnected 1D nanocarbon threads as efficient supercapacitor electrode materials. RSC Advances, 2015, 5, 51382-51391.	1.7	13
184	A facile and rapid preparation of highly crumpled nitrogen-doped graphene-like nanosheets for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 13210-13214.	5.2	64
185	Molten salt synthesis of nitrogen-doped carbon with hierarchical pore structures for use as high-performance electrodes in supercapacitors. Carbon, 2015, 93, 48-58.	5.4	293
186	Design, preparation and performance of novel three-dimensional hierarchically porous carbon for supercapacitors. Electrochimica Acta, 2015, 173, 566-574.	2.6	44
187	Preparation of nitrogen-doped pitch-based carbon materials for supercapacitors. Materials Letters, 2015, 156, 1-6.	1.3	36
188	Interaction between Nitrogen and Sulfur in Co-Doped Graphene and Synergetic Effect in Supercapacitor. Scientific Reports, 2015, 5, 9591.	1.6	232
189	High-performance lithiumâ€"selenium batteries promoted by heteroatom-doped microporous carbon. Journal of Materials Chemistry A, 2015, 3, 3059-3065.	5.2	90
190	Three-dimensional honeycomb-like hierarchically structured carbon for high-performance supercapacitors derived from high-ash-content sewage sludge. Journal of Materials Chemistry A, 2015, 3, 15225-15234.	5.2	125
191	Synthesis of exfoliated titanium dioxide nanosheets/nickelâ€"aluminum layered double hydroxide as a novel electrode for supercapacitors. RSC Advances, 2015, 5, 49204-49210.	1.7	10
192	Fabrication of tungsten decorated titania nanotube arrays as electrode materials for supercapacitor applications. International Journal of Hydrogen Energy, 2015, 40, 8769-8777.	3.8	20
194	Ultrathin NiCo₂O₄nanosheets grown on three-dimensional interwoven nitrogen-doped carbon nanotubes as binder-free electrodes for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 15331-15338.	5.2	76
195	Selenium in nitrogen-doped microporous carbon spheres for high-performance lithiumâ€"selenium batteries. Journal of Materials Chemistry A, 2015, 3, 4539-4546.	5.2	87
196	Precursor-controlled and template-free synthesis of nitrogen-doped carbon nanoparticles for supercapacitors. RSC Advances, 2015, 5, 50063-50069.	1.7	27
197	A facile approach for the synthesis of aromatic polyazomethine hollow structures employing in situ formed dynamic imine crystals as reactive templates. Macromolecular Research, 2015, 23, 1087-1090.	1.0	1
198	An evaporation-induced tri-consistent assembly route towards nitrogen-doped carbon microfibers with ordered mesopores for high performance supercapacitors. Physical Chemistry Chemical Physics, 2015, 17, 4724-4729.	1.3	15

#	Article	IF	Citations
199	White clover based nitrogen-doped porous carbon for a high energy density supercapacitor electrode. RSC Advances, 2015, 5, 107707-107715.	1.7	26
200	Enhanced capacitance of nitrogen-doped hierarchically porous carbide-derived carbon in matched ionic liquids. Journal of Materials Chemistry A, 2015, 3, 18906-18912.	5.2	69
201	Densely stacked bubble-pillared graphene blocks for high volumetric performance supercapacitors. Energy Storage Materials, 2015, 1, 42-50.	9.5	40
202	N-doped carbon foam based three-dimensional electrode architectures and asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 2853-2860.	5.2	70
203	Excellent electrochemical performance of homogeneous polypyrrole/graphene composites as electrode material for supercapacitors. Journal of Materials Science: Materials in Electronics, 2015, 26, 485-492.	1.1	13
204	Porous layer-stacking carbon derived from in-built template in biomass for high volumetric performance supercapacitors. Nano Energy, 2015, 12, 141-151.	8.2	540
205	Towards superior volumetric performance: design and preparation of novel carbon materials for energy storage. Energy and Environmental Science, 2015, 8, 1390-1403.	15.6	364
206	Nitrogen-enriched porous carbon nanofiber networks for binder-free supercapacitors obtained by using a reactive surfactant as a porogen. Electrochimica Acta, 2015, 158, 306-313.	2.6	51
207	3D porous and ultralight carbon hybrid nanostructure fabricated from carbon foam covered by monolayer of nitrogen-doped carbon nanotubes for high performance supercapacitors. Journal of Power Sources, 2015, 280, 678-686.	4.0	121
208	Activated polyaniline-based carbon nanoparticles for high performance supercapacitors. Electrochimica Acta, 2015, 160, 152-159.	2.6	73
209	Template-free solvothermal synthesis of NiS2 microspheres on graphene sheets for high-performance supercapacitors. Materials Letters, 2015, 139, 81-85.	1.3	69
210	Thermal Cyclodebromination of Polybromopyrroles to Polymer with High Performance for Supercapacitor. Journal of Physical Chemistry C, 2015, 119, 3881-3891.	1.5	22
211	Nitrogen-doped porous carbon spheres for highly efficient capacitive deionization. Electrochimica Acta, 2015, 158, 403-409.	2.6	130
212	Hierarchically Porous Carbon Nanosheets from Waste Coffee Grounds for Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 3684-3690.	4.0	261
213	Ultrathin mesoporous Co3O4 nanosheets on Ni foam for high-performance supercapacitors. Electrochimica Acta, 2015, 157, 62-68.	2.6	85
214	Nitrogen-containing carbon microspheres for supercapacitor electrodes. Electrochimica Acta, 2015, 158, 166-174.	2.6	145
215	Rational design of three-dimensional nitrogen-doped carbon nanoleaf networks for high-performance oxygen reduction. Journal of Materials Chemistry A, 2015, 3, 5617-5627.	5.2	32
216	Sulfur-doped porous carbon nanosheets as an advanced electrode material for supercapacitors. RSC Advances, 2015, 5, 13046-13051.	1.7	95

#	Article	IF	Citations
217	A simple and high-performance supercapacitor based on nitrogen-doped porous carbon in redox-mediated sodium molybdate electrolyte. Electrochimica Acta, 2015, 158, 361-367.	2.6	61
218	Tailoring of porous and nitrogen-rich carbons derived from hydrochar for high-performance supercapacitor electrodes. Electrochimica Acta, 2015, 155, 201-208.	2.6	159
219	Making a commercial carbon fiber cloth having comparable capacitances to carbon nanotubes and graphene in supercapacitors through a â€œtop-downâ€•approach. Nanoscale, 2015, 7, 3285-3291.	2.8	62
220	Green synthesis of MnO x nanostructures and studies of their supercapacitor performance. Science China Chemistry, 2015, 58, 627-633.	4.2	14
221	Thermal Conversion of Coreâ€"Shell Metalâ€"Organic Frameworks: A New Method for Selectively Functionalized Nanoporous Hybrid Carbon. Journal of the American Chemical Society, 2015, 137, 1572-1580.	6.6	1,307
222	Noncovalent Assembly of the Carbon Nanofibers/Au Nanocomposite and Its Application in 4-Nitrophenol Reduction. Journal of Cluster Science, 2015, 26, 1547-1556.	1.7	6
223	Preparation of microporous carbon nanofibers from polyimide by using polyvinyl pyrrolidone as template and their capacitive performance. Journal of Power Sources, 2015, 278, 683-692.	4.0	90
224	Biomass-derived nitrogen self-doped porous carbon as effective metal-free catalysts for oxygen reduction reaction. Nanoscale, 2015, 7, 6136-6142.	2.8	269
225	Meso/microporous nitrogen-containing carbon nanofibers with enhanced electrochemical capacitance performances. Synthetic Metals, 2015, 203, 149-155.	2.1	8
226	One-dimensional nanostructures for flexible supercapacitors. Journal of Materials Chemistry A, 2015, 3, 16382-16392.	5.2	70
227	Monolithic nitrogen-doped graphene frameworks as ultrahigh-rate anodes for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 15738-15744.	5.2	31
228	Synthesis and electrochemical properties of tubeâ€like nitrogenâ€doped graphene/manganese oxide composite for supercapacitors. Micro and Nano Letters, 2015, 10, 282-286.	0.6	4
229	Electrochemical and electronic properties of flower-like MoS₂ nanostructures in aqueous and ionic liquid media. RSC Advances, 2015, 5, 57943-57949.	1.7	30
230	Egg-Box Structure in Cobalt Alginate: A New Approach to Multifunctional Hierarchical Mesoporous N-Doped Carbon Nanofibers for Efficient Catalysis and Energy Storage. ACS Central Science, 2015, 1, 261-269.	5.3	195
231	Synergistic enhancement of electrochemical performance of electrospun TiC/C hybrid nanofibers for supercapacitor application. Electrochimica Acta, 2015, 176, 402-409.	2.6	30
232	Nitrogen-doped porous carbon derived from biomass waste for high-performance supercapacitor. Bioresource Technology, 2015, 197, 137-142.	4.8	320
233	A dual templating route to three-dimensionally ordered mesoporous carbon nanonetworks: tuning the mesopore type for electrochemical performance optimization. Journal of Materials Chemistry A, 2015, 3, 18867-18873.	5.2	31
234	Nitrogen-doped porous carbon derived from citric acid and urea with outstanding supercapacitance performance. Electrochimica Acta, 2015, 178, 144-152.	2.6	86

#	Article	IF	Citations
235	The impact of morphologies and electrolyte solutions on the supercapacitive behavior for Fe 2 O 3 and the charge storage mechanism. Electrochimica Acta, 2015, 178, 171-178.	2.6	37
236	Comparison of surface and bulk nitrogen modification in highly porous carbon for enhanced supercapacitors. Science China Materials, 2015, 58, 521-533.	3.5	25
237	Graphitic carbon nitride nanosheet-assisted preparation of N-enriched mesoporous carbon nanofibers with improved capacitive performance. Carbon, 2015, 94, 342-348.	5.4	65
238	Three-dimensional hierarchical nitrogen-doped arch and hollow nanocarbons: morphological influences on supercapacitor applications. Journal of Materials Chemistry A, 2015, 3, 16242-16250.	5.2	57
239	Dual hetero atom containing bio-carbon: Multifunctional electrode material for High Performance Sodium-ion Batteries and Oxygen Reduction Reaction. Electrochimica Acta, 2015, 176, 670-678.	2.6	21
240	Microwave-Assisted Oxidation of Electrospun Turbostratic Carbon Nanofibers for Tailoring Energy Storage Capabilities. Chemistry of Materials, 2015, 27, 4574-4585.	3.2	15
241	High-Performance Supercapacitor Electrode Materials from Cellulose-Derived Carbon Nanofibers. ACS Applied Materials & Interfaces, 2015, 7, 14946-14953.	4.0	189
242	A simple synthesis of nitrogen-doped carbon micro- and nanotubes. Chemical Communications, 2015, 51, 13546-13549.	2.2	26
243	Nitrogen-doped carbon nanorods with excellent capacitive deionization ability. Journal of Materials Chemistry A, 2015, 3, 17304-17311.	5.2	73
244	Impregnation assisted synthesis of 3D nitrogen-doped porous carbon with high capacitance. Carbon, 2015, 94, 650-660.	5.4	64
245	GWF/Amorphous Carbon Composites Supercapacitor. Springer Theses, 2015, , 99-121.	0.0	0
246	One-step, template-free synthesis of highly porous nitrogen/sulfur-codoped carbons from a single protic salt and their application to CO₂ capture. Journal of Materials Chemistry A, 2015, 3, 17849-17857.	5.2	36
247	Schiff-base polymer derived nitrogen-rich microporous carbon spheres synthesized by molten-salt route for high-performance supercapacitors. RSC Advances, 2015, 5, 60956-60961.	1.7	11
248	Nitrogen and sulfur co-doped nanoporous carbon material derived from p-nitrobenzenamine within several minutes and the supercapacitor application. Journal of Alloys and Compounds, 2015, 649, 851-858.	2.8	37
249	Nanomeshes of highly crystalline nitrogen-doped carbon encapsulated Fe/Fe₃C electrodes as ultrafast and stable anodes for Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 15008-15014.	5.2	51
250	Effects of binders on electrochemical performance of nitrogen-doped carbon nanotube anode in sodium-ion battery. Electrochimica Acta, 2015, 174, 970-977.	2.6	87
251	Eco-friendly synthesis of hierarchical ginkgo-derived carbon nanoparticles/NiAl-layered double hydroxide hybrid electrodes toward high-performance supercapacitors. RSC Advances, 2015, 5, 55109-55118.	1.7	18
252	Carbon nanofibers by pyrolysis of self-assembled perylene diimide derivative gels as supercapacitor electrode materials. Journal of Materials Chemistry A, 2015, 3, 15513-15522.	5.2	26

#	Article	IF	Citations
253	Hydrophilic Hierarchical Nitrogenâ€Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. Advanced Materials, 2015, 27, 3541-3545.	11.1	680
254	Hollow melamine resin-based carbon spheres/graphene composite with excellent performance for supercapacitors. Electrochimica Acta, 2015, 166, 310-319.	2.6	94
255	Carbon surface functionalities and SEI formation during Li intercalation. Carbon, 2015, 92, 193-244.	5.4	97
256	Graphene-based nitrogen self-doped hierarchical porous carbon aerogels derived from chitosan for high performance supercapacitors. Nano Energy, 2015, 15, 9-23.	8.2	531
257	Copper oxide nanofilm on 3D copper foam as a novel electrode material for supercapacitors. Applied Physics A: Materials Science and Processing, 2015, 119, 1451-1457.	1.1	4
258	Construction of crystalline Zn-salphen microporous polymer frameworks and their nanostructured carbons through supramolecular assembly of 1D shape-persistent polymers. Macromolecular Research, 2015, 23, 309-312.	1.0	10
259	Graphene-based materials for flexible supercapacitors. Chemical Society Reviews, 2015, 44, 3639-3665.	18.7	1,015
260	Preparation of highly capacitive polyaniline/black TiO2 nanotubes as supercapacitor electrode by hydrogenation and electrochemical deposition. Electrochimica Acta, 2015, 166, 174-182.	2.6	98
261	Asymmetric supercapacitors based on carbon nanotubes@NiO ultrathin nanosheets core-shell composites and MOF-derived porous carbon polyhedrons with super-long cycle life. Journal of Power Sources, 2015, 285, 281-290.	4.0	289
262	Beyond Yolkâ€"Shell Nanoparticles: Fe₃O₄@Fe₃C Core@Shell Nanoparticles as Yolks and Carbon Nanospindles as Shells for Efficient Lithium Ion Storage. ACS Nano, 2015, 9, 3369-3376.	7.3	207
263	Three-dimensional hierarchical porous carbon/graphene composites derived from graphene oxide-chitosan hydrogels for high performance supercapacitors. Electrochimica Acta, 2015, 171, 13-22.	2.6	120
264	Free-standing boron and oxygen co-doped carbon nanofiber films for large volumetric capacitance and high rate capability supercapacitors. Nano Energy, 2015, 15, 235-243.	8.2	112
265	Nitrogen-doped porous grapheneâ€"activated carbon composite derived from â€œbucky gelsâ€•for supercapacitors. RSC Advances, 2015, 5, 10739-10745.	1.7	27
266	A new approach towards the synthesis of nitrogen-doped graphene/MnO₂ hybrids for ultralong cycle-life lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 6291-6296.	5.2	52
267	Cotton-derived bulk and fiber aerogels grafted with nitrogen-doped graphene. Nanoscale, 2015, 7, 7550-7558.	2.8	65
268	Graphitized hierarchical porous carbon nanospheres: simultaneous activation/graphitization and superior supercapacitance performance. Journal of Materials Chemistry A, 2015, 3, 9565-9577.	5.2	183
269	Proticâ€Saltâ€Derived Nitrogen/Sulfurâ€Codoped Mesoporous Carbon for the Oxygen Reduction Reaction and Supercapacitors. ChemSusChem, 2015, 8, 1608-1617.	3.6	74
270	Nitrogen-doped electrospun reduced graphene oxideâ€"carbon nanofiber composite for capacitive deionization. RSC Advances, 2015, 5, 34117-34124.	1.7	59

#	Article	IF	Citations
271	Promising biomass-based activated carbons derived from willow catkins for high performance supercapacitors. Electrochimica Acta, 2015, 166, 1-11.	2.6	386
272	Lamellar-structured biomass-derived phosphorus- and nitrogen-co-doped porous carbon for high-performance supercapacitors. New Journal of Chemistry, 2015, 39, 9497-9503.	1.4	75
273	Unbiased Quantification of the Electrochemical Stability Limits of Electrolytes and Ionic Liquids. Journal of the Electrochemical Society, 2015, 162, A2250-A2258.	1.3	56
274	Ultrahigh volumetric capacitance and cyclic stability of fluorine and nitrogen co-doped carbon microspheres. Nature Communications, 2015, 6, 8503.	5.8	529
275	Nanofibrous microspheres via emulsion gelation and carbonization. Chemical Communications, 2015, 51, 16864-16867.	2.2	14
276	Soluble salt self-assembly-assisted synthesis of three-dimensional hierarchical porous carbon networks for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 22266-22273.	5.2	98
277	Synthesis of nitrogen-doped electrospun carbon nanofibers with superior performance as efficient supercapacitor electrodes in alkaline solution. Electrochimica Acta, 2015, 185, 40-51.	2.6	68
278	Strongly coupled manganese ferrite/carbon black/polyaniline hybrid for low-cost supercapacitors with high rate capability. Electrochimica Acta, 2015, 185, 218-228.	2.6	109
279	Structural and Chemical Dynamics of Pyridinic-Nitrogen Defects in Graphene. Nano Letters, 2015, 15, 7408-7413.	4.5	204
280	Nitrogen and sulfur dual-doped graphene sheets as anode materials with superior cycling stability for lithium-ion batteries. Electrochimica Acta, 2015, 184, 24-31.	2.6	45
281	Glucose-derived nitrogen-doped hierarchical hollow nest-like carbon nanostructures from a novel template-free method as an outstanding electrode material for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 24453-24462.	5.2	82
282	Controllable Synthesis of Functional Hollow Carbon Nanostructures with Dopamine As Precursor for Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 18609-18617.	4.0	144
283	Facile synthesis of nitrogen-doped carbon nanosheets with hierarchical porosity for high performance supercapacitors and lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 18400-18405.	5.2	107
284	Nitrogen-Doped Carbon Nanocoil Array Integrated on Carbon Nanofiber Paper for Supercapacitor Electrodes. ACS Applied Materials & Interfaces, 2015, 7, 19370-19381.	4.0	64
285	Rutile-TiO₂ decorated Li₄Ti₅O₁₂ nanosheet arrays with 3D interconnected architecture as anodes for high performance hybrid supercapacitors. Journal of Materials Chemistry A, 2015, 3, 23570-23576.	5.2	60
286	Functional Pillared Graphene Frameworks for Ultrahigh Volumetric Performance Supercapacitors. Advanced Energy Materials, 2015, 5, 1500771.	10.2	184
287	Threeâ€Dimensional Nitrogenâ€Doped Hierarchical Porous Carbon as an Electrode for Highâ€Performance Supercapacitors. Chemistry - A European Journal, 2015, 21, 17293-17298.	1.7	63
288	Oxygen- and Nitrogen-Enriched 3D Porous Carbon for Supercapacitors of High Volumetric Capacity. ACS Applied Materials & Interfaces, 2015, 7, 24622-24628.	4.0	156

#	Article	IF	Citations
289	Nitrogen-enriched porous carbon nanorods templated by cellulose nanocrystals as high performance supercapacitor electrodes. Journal of Materials Chemistry A, 2015, 3, 23768-23777.	5.2	87
290	Titanium Oxynitride Nanoparticles Anchored on Carbon Nanotubes as Energy Storage Materials. ACS Applied Materials & Interfaces, 2015, 7, 24212-24217.	4.0	35
291	Porous nitrogen and phosphorus co-doped carbon nanofiber networks for high performance electrical double layer capacitors. Journal of Materials Chemistry A, 2015, 3, 23268-23273.	5.2	82
292	Nitrogen-enriched hierarchical porous carbon with enhanced performance in supercapacitors and lithiumâ€“sulfur batteries. RSC Advances, 2015, 5, 75403-75410.	1.7	8
293	Electrodeposition and pyrolysis of Mn/polypyrrole nanocomposites: a study based on soft X-ray absorption, fluorescence and photoelectron microspectroscopies. Journal of Materials Chemistry A, 2015, 3, 19155-19167.	5.2	26
294	Synthesis of Multifunctional Carbon Nanostructures. World Scientific Series on Carbon Nanoscience, 2015, , 89-126.	0.1	2
295	Porous nitrogen-doped graphene/carbon nanotubes composite with an enhanced supercapacitor performance. Electrochimica Acta, 2015, 178, 517-524.	2.6	75
296	Fabrication of NiCo₂O₄ and carbon nanotube nanocomposite films as a high-performance flexible electrode of supercapacitors. RSC Advances, 2015, 5, 74032-74039.	1.7	28
297	Co(OH)₂/RGO/NiO sandwich-structured nanotube arrays with special surface and synergistic effects as high-performance positive electrodes for asymmetric supercapacitors. Nanoscale, 2015, 7, 16932-16942.	2.8	28
298	Controllable synthesis and capacitive performance of nitrogen-doped porous carbon from carboxymethyl chitosan by template carbonization method. Journal of Solid State Electrochemistry, 2015, 19, 3087-3096.	1.2	11
299	Insight into high areal capacitances of low apparent surface area carbons derived from nitrogen-rich polymers. Carbon, 2015, 94, 560-567.	5.4	56
300	Nitrogen-doped carbon nanofibers with effectively encapsulated GeO₂nanocrystals for highly reversible lithium storage. Journal of Materials Chemistry A, 2015, 3, 21699-21705.	5.2	39
301	Controllable Nitrogen Doping of High-Surface-Area Microporous Carbons Synthesized from an Organicâ€“Inorganic Solâ€“Gel Approach for Liâ€“S Cathodes. ACS Applied Materials & Interfaces, 2015, 7, 21188-21197.	4.0	28
302	Carbon@NiCo₂S₄ nanorods: an excellent electrode material for supercapacitors. RSC Advances, 2015, 5, 83408-83414.	1.7	34
303	Needle-like MnO₂/activated carbon nanocomposites derived from human hair as versatile electrode materials for supercapacitors. RSC Advances, 2015, 5, 81492-81498.	1.7	44
304	Three-Dimensional NiCo₂O₄@Polypyrrole Coaxial Nanowire Arrays on Carbon Textiles for High-Performance Flexible Asymmetric Solid-State Supercapacitor. ACS Applied Materials & Interfaces, 2015, 7, 21334-21346.	4.0	286
305	The effect of carbonization temperature on the electrocatalytic performance of nitrogen-doped porous carbon as counter electrode of dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2015, 26, 6913-6919.	1.1	6
306	Utilizing ionic liquids for controlled N-doping in hard-templated, mesoporous carbon electrodes for high-performance electrochemical double-layer capacitors. Journal of Power Sources, 2015, 298, 193-202.	4.0	41

#	Article	IF	Citations
307	Hydrophobic and flexible cellulose aerogel as an efficient, green and reusable oil sorbent. RSC Advances, 2015, 5, 82027-82033.	1.7	98
308	Zeolitic imidazolate framework-derived nitrogen-doped porous carbons as high performance supercapacitor electrode materials. Carbon, 2015, 85, 51-59.	5.4	275
309	Oxygen-Rich Hierarchical Porous Carbon Derived from Artemia Cyst Shells with Superior Electrochemical Performance. ACS Applied Materials & Interfaces, 2015, 7, 1132-1139.	4.0	257
310	Biomass-derived porous carbon materials with sulfur and nitrogen dual-doping for energy storage. Green Chemistry, 2015, 17, 1668-1674.	4.6	572
311	Sponge-like carbon thin films: The dealloying concept applied to copper/carbon nanocomposite. Carbon, 2015, 83, 250-261.	5.4	12
312	Highly ordered nitrogen-rich mesoporous carbon derived from biomass waste for high-performance lithiumâ€"sulfur batteries. Carbon, 2015, 84, 399-408.	5.4	194
313	Polybenzoxazine-based nitrogen-containing porous carbons for high-performance supercapacitor electrodes and carbon dioxide capture. RSC Advances, 2015, 5, 5331-5342.	1.7	49
314	N-doped porous carbon capsules with tunable porosity for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 2914-2923.	5.2	214
315	Nitrogen-doped hierarchical porous carbon as an efficient electrode material for supercapacitors. Electrochimica Acta, 2015, 153, 273-279.	2.6	114
316	Nitrogen-functionalized microporous carbon nanoparticles for high performance supercapacitor electrode. Electrochimica Acta, 2015, 153, 448-455.	2.6	177
317	Nitrogen-doped hierarchical porous carbon materials prepared from meta-aminophenol formaldehyde resin for supercapacitor with high rate performance. Electrochimica Acta, 2015, 153, 68-75.	2.6	183
318	Sulfurâ€Doped Graphene Derived from Cycled Lithiumâ€"Sulfur Batteries as a Metalâ€Free Electrocatalyst for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2015, 54, 1888-1892.	7.2	328
320	Understanding the stability and reactivity of ultrathin tellurium nanowires in solution: An emerging platform for chemical transformation and material design. Nano Research, 2015, 8, 1081-1097.	5.8	45
321	Porous Nitrogenâ€Doped Carbon Microspheres Derived from Microporous Polymeric Organic Frameworks for High Performance Electric Doubleâ€Layer Capacitors. Chemistry - A European Journal, 2015, 21, 2310-2314.	1.7	39
322	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. Carbon, 2015, 82, 124-134.	5.4	67
323	Exceptional electrochemical performance of nitrogen-doped porous carbon for lithium storage. Carbon, 2015, 82, 116-123.	5.4	102
324	Lithographically Defined Three-dimensional Pore-patterned Carbon with Nitrogen Doping for High-Performance Ultrathin Supercapacitor Applications. Scientific Reports, 2014, 4, 5392.	1.6	31
325	Densely packed graphene nanomesh-carbon nanotube hybrid film for ultra-high volumetric performance supercapacitors. Nano Energy, 2015, 11, 471-480.	8.2	219

#	Article	IF	Citations
326	Design and Fabrication of Hierarchically Porous Carbon with a Template-free Method. Scientific Reports, 2014, 4, 6349.	1.6	77
327	Elucidating the effect of copper as a redox additive and dopant on the performance of a PANI based supercapacitor. Physical Chemistry Chemical Physics, 2015, 17, 878-887.	1.3	57
328	Comparison of melamine resin and melamine network as precursors for carbon electrodes. Carbon, 2015, 81, 239-250.	5.4	29
329	Using common salt to impart pseudocapacitive functionalities to carbon nanofibers. Journal of Materials Chemistry A, 2015, 3, 377-385.	5.2	50
330	One-dimensional nitrogen-containing carbon nanostructures. Progress in Materials Science, 2015, 69, 61-182.	16.0	105
331	Carbon materialization of ionic liquids: from solvents to materials. Materials Horizons, 2015, 2, 168-197.	6.4	165
332	Graphene/silk fibroin based carbon nanocomposites for high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 773-781.	5.2	74
333	Electrochemical properties for high surface area and improved electrical conductivity of platinum-embedded porous carbon nanofibers. Journal of Power Sources, 2015, 274, 536-541.	4.0	62
334	Facile synthesis of hollow carbonized polyaniline spheres to encapsulate selenium for advanced rechargeable lithiumâ€“selenium batteries. Journal of Alloys and Compounds, 2015, 619, 794-799.	2.8	34
335	Urea-treated carbon nanofibers as efficient catalytic materials for oxygen reduction reaction. Journal of Power Sources, 2015, 273, 810-815.	4.0	31
336	Asymmetric supercapacitor based on nanostructured graphene foam/polyvinyl alcohol/formaldehyde and activated carbon electrodes. Journal of Power Sources, 2015, 273, 305-311.	4.0	66
337	In2S3/carbon nanofibers/Au ternary synergetic system: Hierarchical assembly and enhanced visible-light photocatalytic activity. Journal of Hazardous Materials, 2015, 283, 599-607.	6.5	43
338	Performance Enhancement of Carbon Nanomaterials for Supercapacitors. Journal of Nanomaterials, 2016, 2016, 1-17.	1.5	54
339	Heteroatom-Doped Carbon Nanostructures Derived from Conjugated Polymers for Energy Applications. Polymers, 2016, 8, 366.	2.0	41
340	Nitrogen-Doped Banana Peelâ€“Derived Porous Carbon Foam as Binder-Free Electrode for Supercapacitors. Nanomaterials, 2016, 6, 18.	1.9	65
341	Nitrogenâ€Doped Nanoporous Carbons through Direct Carbonization of a Metalâ€Biomolecule Framework for Supercapacitor. Chinese Journal of Chemistry, 2016, 34, 203-209.	2.6	5
342	Flexible SnO₂/N-Doped Carbon Nanofiber Films as Integrated Electrodes for Lithium-Ion Batteries with Superior Rate Capacity and Long Cycle Life. Small, 2016, 12, 853-859.	5.2	292
343	A Highâ€Energy Lithiumâ€Ion Capacitor by Integration of a 3D Interconnected Titanium Carbide Nanoparticle Chain Anode with a Pyridineâ€Derived Porous Nitrogenâ€Doped Carbon Cathode. Advanced Functional Materials, 2016, 26, 3082-3093.	7.8	330

#	Article	IF	Citations
344	Heteroatomâ€Containing Porous Carbons Derived from Ionic Liquidâ€Doped Alkali Organic Salts for Supercapacitors. Small, 2016, 12, 1935-1944.	5.2	56
345	Quantitative Control of Pore Size of Mesoporous Carbon Nanospheres through the Selfâ€Assembly of Diblock Copolymer Micelles in Solution. Small, 2016, 12, 3155-3163.	5.2	117
346	Using Asphaltene Supermolecules Derived from Coal for the Preparation of Efficient Carbon Electrodes for Supercapacitors. Journal of Physical Chemistry C, 2016, 120, 15105-15113.	1.5	43
347	Preparation of corallineâ€like nitrogenâ€doped porous carbon by ureaâ€assisted pyrolysis of lowâ€cost and environmental friendly polyaniline. Environmental Progress and Sustainable Energy, 2016, 35, 840-846.	1.3	11
348	Radially Aligned Porous Carbon Nanotube Arrays on Carbon Fibers: A Hierarchical 3D Carbon Nanostructure for Highâ€Performance Capacitive Energy Storage. Advanced Functional Materials, 2016, 26, 3012-3020.	7.8	132
349	Nitrogen-Doped Carbon Fiber Paper by Active Screen Plasma Nitriding and Its Microwave Heating Properties. ACS Applied Materials & Interfaces, 2016, 8, 35606-35613.	4.0	3
350	Heteroatom enhanced sodium ion capacity and rate capability in a hydrogel derived carbon give record performance in a hybrid ion capacitor. Nano Energy, 2016, 23, 129-137.	8.2	170
351	N-doped hierarchical porous carbon derived from hypercrosslinked diblock copolymer for capacitive deionization. Separation and Purification Technology, 2016, 165, 190-198.	3.9	77
352	Binder-free supercapacitive of ultrathin Co(OH)₂nanosheets-decorated nitrogen-doped carbon nanotubes core-shell nanostructures. Materials Technology, 2016, 31, 521-525.	1.5	17
353	A macroscopic three-dimensional tetrapod-separated graphene-like oxygenated N-doped carbon nanosheet architecture for use in supercapacitors. Journal of Materials Chemistry A, 2016, 4, 9900-9909.	5.2	86
354	Nitrogen-doped functional graphene nanocomposites for capacitive deionization of NaCl aqueous solutions. Journal of Solid State Electrochemistry, 2016, 20, 2351-2362.	1.2	15
355	Three-dimensional graphene-like carbon frameworks as a new electrode material for electrochemical determination of small biomolecules. Biosensors and Bioelectronics, 2016, 85, 618-624.	5.3	47
356	Nitrogen-doped carbon nanofibers derived from polypyrrole coated bacterial cellulose as high-performance electrode materials for supercapacitors and Li-ion batteries. Electrochimica Acta, 2016, 210, 130-137.	2.6	59
357	Engineering of Two-dimensional Cobalt-Glycine Complex Thin Sheets of Vertically Aligned Nanosheet Basic Building Blocks for High Performance Supercapacitor Electrode Materials. Electrochimica Acta, 2016, 210, 462-473.	2.6	18
358	Sonochemical preparation of a ytterbium oxide/reduced graphene oxide nanocomposite for supercapacitors with enhanced capacitive performance. RSC Advances, 2016, 6, 51211-51220.	1.7	77
359	Molten salt synthesis of nitrogen doped porous carbon: a new preparation methodology for high-volumetric capacitance electrode materials. Journal of Materials Chemistry A, 2016, 4, 9832-9843.	5.2	163
360	Porous Nitrogen-Doped Carbon Nanoribbons for High-Performance Gas Adsorbents and Lithium Ion Batteries. Industrial & Engineering Chemistry Research, 2016, 55, 6384-6390.	1.8	28
361	Facile synthesis of 3D hierarchical N-doped graphene nanosheet/cobalt encapsulated carbon nanotubes for high energy density asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 9555-9565.	5.2	119

#	Article	IF	Citations
362	Porous carbon materials with dual N, S-doping and uniform ultra-microporosity for high performance supercapacitors. Electrochimica Acta, 2016, 209, 557-564.	2.6	102
363	Luminescence properties and Juddâ€"Ofelt analysis of TiO2:Eu3+ nanofibers via polymer-based electrospinning method. RSC Advances, 2016, 6, 52113-52121.	1.7	33
364	Nitrogen-doped porous carbon materials: promising catalysts or catalyst supports for heterogeneous hydrogenation and oxidation. Catalysis Science and Technology, 2016, 6, 3670-3693.	2.1	257
365	(Metal-Organic Framework)-Polyaniline sandwich structure composites as novel hybrid electrode materials for high-performance supercapacitor. Journal of Power Sources, 2016, 316, 176-182.	4.0	130
366	Surfactant-Free Assembly of Mesoporous Carbon Hollow Spheres with Large Tunable Pore Sizes. ACS Nano, 2016, 10, 4579-4586.	7.3	374
367	Facile preparation of nitrogen-doped porous carbon for high performance symmetric supercapacitor. Journal of Solid State Electrochemistry, 2016, 20, 1613-1623.	1.2	23
368	Synthesis of N-Doped Hollow-Structured Mesoporous Carbon Nanospheres for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 7194-7204.	4.0	190
369	A new strategy to tailor the structure of sustainable 3D hierarchical porous N-self-doped carbons from renewable biomass for high-performance supercapacitors and CO₂ capture. RSC Advances, 2016, 6, 34261-34270.	1.7	29
370	Cobalt-nitrogen-doped ordered macro-/mesoporous carbon for highly efficient oxygen reduction reaction. Applied Catalysis B: Environmental, 2016, 193, 1-8.	10.8	155
371	Nitrogen-doped carbonized cotton for highly flexible supercapacitors. Carbon, 2016, 105, 260-267.	5.4	108
372	Synthesis of nitrogen-containing hollow carbon microspheres by a modified template method as anodes for advanced sodium-ion batteries. Carbon, 2016, 105, 103-112.	5.4	73
373	Electrochemical Exfoliation of Graphite into Nitrogen-doped Graphene in Glycine Solution and its Energy Storage Properties. Electrochimica Acta, 2016, 204, 100-107.	2.6	70
374	Three-Dimensional Network of N-Doped Carbon Ultrathin Nanosheets with Closely Packed Mesopores: Controllable Synthesis and Application in Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2016, 8, 11720-11728.	4.0	93
375	Nitrogen-rich hierarchical porous hollow carbon nanofibers for high-performance supercapacitor electrodes. RSC Advances, 2016, 6, 41473-41476.	1.7	25
376	Polybenzoxazine-based highly porous carbon nanofibrous membranes hybridized by tin oxide nanoclusters: durable mechanical elasticity and capacitive performance. Journal of Materials Chemistry A, 2016, 4, 7795-7804.	5.2	38
377	Boron-doped ordered mesoporous carbons for the application of supercapacitors. Electrochimica Acta, 2016, 207, 266-274.	2.6	98
378	Preparation of edge-nitrogenated graphene nanoplatelets as an efficient electrode material for supercapacitors. Electrochimica Acta, 2016, 208, 47-54.	2.6	19
379	A two-dimensional conjugated polymer framework with fully sp²-bonded carbon skeleton. Polymer Chemistry, 2016, 7, 4176-4181.	1.9	350

#	Article	IF	Citations
380	A melamine-assisted chemical blowing synthesis of N-doped activated carbon sheets for supercapacitor application. Journal of Power Sources, 2016, 319, 262-270.	4.0	186
381	Ni3Si2 nanowires grown in situ on Ni foam for high-performance supercapacitors. Journal of Power Sources, 2016, 320, 13-19.	4.0	44
382	ZIF-8@Polyvinylpyrrolidone Nanocomposites Based N-Doped Porous Carbon for Highly Efficient Oxygen Reduction Reaction in Alkaline Solution. Journal of the Electrochemical Society, 2016, 163, H459-H464.	1.3	19
383	Supercapacitive performance of electrochemically doped TiO₂ nanotube arrays decorated with Cu₂O nanoparticles. RSC Advances, 2016, 6, 47669-47675.	1.7	14
384	Activated hierarchical porous carbon as electrode membrane accommodated with triblock copolymer for supercapacitors. Journal of Membrane Science, 2016, 514, 366-375.	4.1	41
385	Kinetically Controlled Assembly of Nitrogenâ€Doped Invaginated Carbon Nanospheres with Tunable Mesopores. Chemistry - A European Journal, 2016, 22, 14962-14967.	1.7	21
386	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. Journal of Materials Chemistry A, 2016, 4, 15041-15048.	5.2	35
387	Ultrathin paper-like boron-doped carbon nanosheet electrodes combined with boron-enriched gel polymer electrolytes for high-performance energy storage. Journal of Materials Chemistry A, 2016, 4, 15589-15596.	5.2	16
388	Sodium-ion supercapacitors based on nanoporous pyroproteins containing redox-active heteroatoms. Journal of Power Sources, 2016, 329, 536-545.	4.0	26
389	Mesoporous and Nanostructured TiO₂ layer with Ultraâ€High Loading on Nitrogenâ€Doped Carbon Foams as Flexible and Freeâ€Standing Electrodes for Lithiumâ€Ion Batteries. Small, 2016, 12, 6724-6734.	5.2	79
390	Buffering agents-assisted synthesis of nitrogen-doped graphene with oxygen-rich functional groups for enhanced electrochemical performance. Journal of Power Sources, 2016, 333, 125-133.	4.0	31
391	Binder-free hierarchically-porous carbon nanofibers decorated with cobalt nanoparticles as efficient cathodes for lithiumâ€"oxygen batteries. RSC Advances, 2016, 6, 103072-103080.	1.7	20
392	A super high performance asymmetric supercapacitor based on Co₃S₄/NiS nanoplates electrodes. RSC Advances, 2016, 6, 97482-97490.	1.7	30
393	Efficient Access of Voltammetric Charge in Hybrid Supercapacitor Configured with Potassium Incorporated Nanographitic Structure Derived from Cotton (Gossypium arboreum) as Negative and Ni(OH)₂/rGO Composite as Positive Electrode. Industrial & Engineering Chemistry Research, 2016, 55, 11074-11084.	1.8	16
394	Mesoporous Carbon Nanomaterials. , 2016, , 505-540.		0
395	Nitrogen-rich carbon spheres made by a continuous spraying process for high-performance supercapacitors. Nano Research, 2016, 9, 3209-3221.	5.8	78
396	Highly microporous carbons derived from a complex of glutamic acid and zinc chloride for use in supercapacitors. Journal of Power Sources, 2016, 327, 535-542.	4.0	32
397	Bridging the performance gap between electric double-layer capacitors and batteries with high-energy/high-power carbon nanotube-based electrodes. Journal of Materials Chemistry A, 2016, 4, 14586-14594.	5.2	44

#	Article	IF	Citations
398	Simultaneous micropore development and nitrogen doping of ordered mesoporous carbons for enhanced supercapacitor and Li-S cathode performance. Electrochimica Acta, 2016, 214, 231-240.	2.6	21
399	Mesoporous graphitic carbon microtubes derived from fullerene C₇₀tubes as a high performance electrode material for advanced supercapacitors. Journal of Materials Chemistry A, 2016, 4, 13899-13906.	5.2	81
400	Three-Dimensional Porous Nitrogen doped Graphene Hydrogel for High Energy Density supercapacitors. Electrochimica Acta, 2016, 213, 291-297.	2.6	84
401	Electroactive polymer/graphene oxide nanostructured composites; evidence for direct chemical interactions between PEDOT and GOx. Synthetic Metals, 2016, 220, 334-346.	2.1	23
402	Nitrogen-Doped Porous Carbon/Graphene Aerogel with Much Enhanced Capacitive Behaviors. Electrochimica Acta, 2016, 215, 100-107.	2.6	30
403	N-P-O co-doped high performance 3D graphene prepared through red phosphorous-assisted â€œcutting-thinâ€•technique: A universal synthesis and multifunctional applications. Nano Energy, 2016, 28, 346-355.	8.2	217
404	A shiitake-derived nitrogen/oxygen/phosphorus co-doped carbon framework with hierarchical tri-modal porosity for high-performance electrochemical capacitors. RSC Advances, 2016, 6, 81527-81533.	1.7	12
405	2D Thin Nanoflakes Assembled on Mesoporous Carbon Nanorods for Enhancing Electrocatalysis and for Improving Asymmetric Supercapacitors. Advanced Functional Materials, 2016, 26, 7766-7774.	7.8	75
406	Highly conjugated graphitic 3D carbon frameworks for supercapacitors with long cycling stability. Carbon, 2016, 109, 650-657.	5.4	19
407	Interface miscibility induced double-capillary carbon nanofibers for flexible electric double layer capacitors. Nano Energy, 2016, 28, 232-240.	8.2	67
408	Preparation and modification of high performance porous carbons from petroleum coke for use as supercapacitor electrodes. New Carbon Materials, 2016, 31, 343-351.	2.9	28
409	Thermally removable in-situ formed ZnO template for synthesis of hierarchically porous N-doped carbon nanofibers for enhanced electrocatalysis. Nano Research, 2016, 9, 2270-2283.	5.8	52
410	Role of Graphene Oxide Liquid Crystals in Hydrothermal Reduction and Supercapacitor Performance. ACS Applied Materials & Interfaces, 2016, 8, 22316-22323.	4.0	37
411	Porous nitrogen-rich carbon materials from carbon self-repairing g-C₃N₄ assembled with graphene for high-performance supercapacitor. Journal of Materials Chemistry A, 2016, 4, 14307-14315.	5.2	93
412	Flexible micro supercapacitors based on laser-scribed graphene/ZnO nanocomposite. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	30
413	Graphene supported nitrogen-doped porous carbon nanosheets derived from zeolitic imidazolate framework for high performance supercapacitors. RSC Advances, 2016, 6, 78947-78953.	1.7	26
414	Engineering the Li Storage Properties of Graphene Anodes: Defect Evolution and Pore Structure Regulation. ACS Applied Materials & Interfaces, 2016, 8, 33712-33722.	4.0	20
415	Ultrafine N-doped carbon nanoparticles with controllable size to enhance electrocatalytic activity for oxygen reduction reaction. RSC Advances, 2016, 6, 110758-110764.	1.7	10

#	Article	IF	Citations
416	Nanostructured core-shell electrode materials for electrochemical capacitors. Journal of Power Sources, 2016, 331, 408-425.	4.0	102
417	N-doped interconnected carbon sheets for energy storage application. Materials Research Bulletin, 2016, 84, 350-354.	2.7	3
418	2D graphene-like hierarchically porous carbon nanosheets from a nano-MgO template and ZnCl₂activation: morphology, porosity and supercapacitance performance. RSC Advances, 2016, 6, 71360-71369.	1.7	24
419	Hierarchical polypyrrole/Ni₃S₂@MoS₂ coreâ€"shell nanostructures on a nickel foam for high-performance supercapacitors. RSC Advances, 2016, 6, 68460-68467.	1.7	32
420	Nanomaterials in Advanced Batteries and Supercapacitors. Nanostructure Science and Technology, 2016, , .	0.1	34
421	Asymmetric Supercapacitor Based on Porous N-doped Carbon Derived from Pomelo Peel and NiO Arrays. ACS Applied Materials & Interfaces, 2016, 8, 20822-20830.	4.0	106
422	Carbon Materials for Supercapacitors. Nanostructure Science and Technology, 2016, , 271-315.	0.1	7
423	Space-Confined Synthesis of Three-Dimensional Boron/Nitrogen-Doped Carbon Nanotubes/Carbon Nanosheets Line-in-Wall Hybrids and Their Electrochemical Energy Storage Applications. Electrochimica Acta, 2016, 212, 621-629.	2.6	42
424	Enhanced Capacitive Performance Based on Diverse Layered Structure of Two-Dimensional Ti₃C₂MXene with Long Etching Time. Journal of the Electrochemical Society, 2016, 163, A1975-A1982.	1.3	80
425	Freeâ€Standing 3D Nanoporous Ductâ€Like and Hierarchical Nanoporous Graphene Films for Micronâ€Level Flexible Solidâ€State Asymmetric Supercapacitors. Advanced Energy Materials, 2016, 6, 1600755.	10.2	66
426	In situ construction of carbon nanotubes/nitrogen-doped carbon polyhedra hybrids for supercapacitors. Energy Storage Materials, 2016, 5, 132-138.	9.5	76
427	Enhanced Electrocatalytic Performance of a Porous gâ€C₃N₄/Graphene Composite as a Counter Electrode for Dyeâ€Sensitized Solar Cells. Chemistry - A European Journal, 2016, 22, 11763-11769.	1.7	31
428	Bilayered Biofoam for Highly Efficient Solar Steam Generation. Advanced Materials, 2016, 28, 9400-9407.	11.1	457
429	Is the conductive agent useful in electrodes of graphitized activated carbon?. RSC Advances, 2016, 6, 100708-100712.	1.7	8
430	Facile fabrication of Co₂CuS₄nanoparticle anchored N-doped graphene for high-performance asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 17560-17571.	5.2	147
431	Multi-template synthesis of hierarchically porous carbon spheres with potential application in supercapacitors. RSC Advances, 2016, 6, 111406-111414.	1.7	12
432	Synthesis of Nitrogen and Sulfur Co-Doped Carbon Derived from Chromium Carbide for the High Performance Supercapacitor. Journal of the Electrochemical Society, 2016, 163, A2991-A2998.	1.3	31
433	Heteroatomâ€"doped hollow carbon microspheres based on amphiphilic supramolecular vesicles and highly crosslinked polyphosphazene for high performance supercapacitor electrode materials. Electrochimica Acta, 2016, 222, 543-550.	2.6	19

#	Article	IF	Citations
434	Activated Carbon Nanofibers. , 2016, , 267-285.		0
435	Porous N-doped carbon microfibres derived from cattail as high-performance electrodes for supercapacitors. International Journal of Nanomanufacturing, 2016, 12, 225.	0.3	1
436	Controllable-multichannel carbon nanofibers-based amorphous vanadium as binder-free and conductive-free electrode materials for supercapacitor. International Journal of Hydrogen Energy, 2016, 41, 22144-22154.	3.8	22
437	Use of Nutrient Rich Hydrophytes to Create N,P-Dually Doped Porous Carbon with Robust Energy Storage Performance. Environmental Science & Technology, 2016, 50, 12421-12428.	4.6	52
438	Heteroatom Polymer-Derived 3D High-Surface-Area and Mesoporous Graphene Sheet-Like Carbon for Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 30212-30224.	4.0	61
439	Nitrogen-doped Carbon Microfiber with Wrinkled Surface for High Performance Supercapacitors. Scientific Reports, 2016, 6, 21750.	1.6	24
440	Magnetic properties of N-doped graphene with high Curie temperature. Scientific Reports, 2016, 6, 21832.	1.6	71
441	Direct interfacial growth of MnO₂ nanoparticles on carbon nanofiber surfaces for high-performance asymmetric supercapacitors. RSC Advances, 2016, 6, 107638-107643.	1.7	9
442	Enhanced cycle performance of ultraflexible asymmetric supercapacitors based on a hierarchical MnO₂@NiMoO₄ coreâ€“shell nanostructure and porous carbon. Journal of Materials Chemistry A, 2016, 4, 18181-18187.	5.2	73
443	Elastic Carbon Nanotube Aerogel Meets Tellurium Nanowires: A Binderâ€•and Collectorâ€Free Electrode for Liâ€Te Batteries. Advanced Functional Materials, 2016, 26, 3580-3588.	7.8	73
444	Facile Synthesis of Nitrogenâ€Containing Mesoporous Carbon for Highâ€Performance Energy Storage Applications. Chemistry - A European Journal, 2016, 22, 4256-4262.	1.7	17
445	Facile preparation of N,S-doped hierarchical porous carbons based on 3-aminophenol-3-mercaptophenol co-resins for supercapacitor applications. RSC Advances, 2016, 6, 58764-58770.	1.7	16
446	Biomass-derived dendritic-like porous carbon aerogels for supercapacitors. Electrochimica Acta, 2016, 210, 897-904.	2.6	42
447	Pyrrole modified biomass derived hierarchical porous carbon as high performance symmetrical supercapacitor electrodes. International Journal of Hydrogen Energy, 2016, 41, 13109-13115.	3.8	38
448	Plasma-assisted nitrogen doping of VACNTs for efficiently enhancing the supercapacitor performance. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	10
449	Interconnected honeycomb-like porous carbon derived from plane tree fluff for high performance supercapacitors. Journal of Materials Chemistry A, 2016, 4, 10869-10877.	5.2	83
450	Construction of nitrogen-doped porous carbon buildings using interconnected ultra-small carbon nanosheets for ultra-high rate supercapacitors. Journal of Materials Chemistry A, 2016, 4, 11388-11396.	5.2	151
451	Nano nickel oxide coated graphene/polyaniline composite film with high electrochemical performance for flexible supercapacitor. Electrochimica Acta, 2016, 211, 1066-1075.	2.6	84

#	Article	IF	Citations
452	Fabrication of ultrafine manganese oxide-decorated carbon nanofibers for high-performance electrochemical capacitors. Electrochimica Acta, 2016, 211, 524-532.	2.6	13
453	Preparation of a two-dimensional flexible MnO₂/graphene thin film and its application in a supercapacitor. Journal of Materials Chemistry A, 2016, 4, 10618-10626.	5.2	90
454	Hierarchical networks of redox-active reduced crumpled graphene oxide and functionalized few-walled carbon nanotubes for rapid electrochemical energy storage. Nanoscale, 2016, 8, 12330-12338.	2.8	31
455	All-solid-state asymmetric supercapacitors based on ZnO quantum dots/carbon/CNT and porous N-doped carbon/CNT electrodes derived from a single ZIF-8/CNT template. Journal of Materials Chemistry A, 2016, 4, 10282-10293.	5.2	109
456	High-performance supercapacitor electrode from cellulose-derived, inter-bonded carbon nanofibers. Journal of Power Sources, 2016, 324, 302-308.	4.0	124
457	Enhanced microwave absorption properties of N-doped ordered mesoporous carbon plated with metal Co. Journal of Alloys and Compounds, 2016, 680, 553-559.	2.8	47
458	Enhanced electrochemical performance of phosphorus incorporated carbon nanofibers by the spin-on dopant method. RSC Advances, 2016, 6, 58823-58830.	1.7	13
459	Nitrogen-doped porous carbon derived from a bimetallic metalâ€"organic framework as highly efficient electrodes for flow-through deionization capacitors. Journal of Materials Chemistry A, 2016, 4, 10858-10868.	5.2	164
460	Nitrogen-Doped High Surface Area Carbon as Efficient Electrode Material for Supercapacitors. Nano, 2016, 11, 1650076.	0.5	7
461	Hierarchically Flower-like N-Doped Porous Carbon Materials Derived from an Explosive 3-Fold Interpenetrating Diamondoid Copper Metalâ€"Organic Framework for a Supercapacitor. Inorganic Chemistry, 2016, 55, 6552-6562.	1.9	74
462	Porous and high electronic conductivity nitrogen-doped nano-sheet carbon derived from polypyrrole for high-power supercapacitors. Carbon, 2016, 107, 638-645.	5.4	93
463	Twisted yarns for fiber-shaped supercapacitors based on wetspun PEDOT:PSS fibers from aqueous coagulation. Journal of Materials Chemistry A, 2016, 4, 11616-11624.	5.2	107
464	A flexible, transparent and super-long-life supercapacitor based on ultrafine Co₃O₄nanocrystal electrodes. Nanoscale, 2016, 8, 4227-4235.	2.8	205
465	Dual tuning of 1 D heteroatoms doped porous carbon nanoarchitectures for supercapacitors: the role of balanced P/N doping and core@shell nano-networks. RSC Advances, 2016, 6, 9180-9185.	1.7	9
466	Bamboo-like carbon nanotubes containing sulfur for high performance supercapacitors. Electrochimica Acta, 2016, 191, 846-853.	2.6	40
467	New Graphene Form of Nanoporous Monolith for Excellent Energy Storage. Nano Letters, 2016, 16, 349-354.	4.5	100
468	Biomass-Derived Carbon Fiber Aerogel as a Binder-Free Electrode for High-Rate Supercapacitors. Journal of Physical Chemistry C, 2016, 120, 2079-2086.	1.5	274
469	Sustainable Low-Cost Green Electrodes with High Volumetric Capacitance for Aqueous Symmetric Supercapacitors with High Energy Density. ACS Sustainable Chemistry and Engineering, 2016, 4, 1422-1430.	3.2	116

#	Article	IF	Citations
470	Porous carbon nanoflakes with a high specific surface area derived from a kapok fiber for high-performance electrode materials of supercapacitors. RSC Advances, 2016, 6, 6967-6977.	1.7	19
471	Fabrication of high surface area graphene electrodes with high performance towards enzymatic oxygen reduction. Electrochimica Acta, 2016, 191, 500-509.	2.6	40
472	One-step synthesis of NiCo2S4 ultrathin nanosheets on conductive substrates as advanced electrodes for high-efficient energy storage. Journal of Power Sources, 2016, 306, 100-106.	4.0	163
473	Simultaneous sulfur doping and exfoliation of graphene from graphite using an electrochemical method for supercapacitor electrode materials. Journal of Materials Chemistry A, 2016, 4, 233-240.	5.2	151
474	Promising Nitrogen-Rich Porous Carbons Derived from One-Step Calcium Chloride Activation of Biomass-Based Waste for High Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2016, 4, 177-187.	3.2	231
475	Bacterial Cellulose: A Robust Platform for Design of Three Dimensional Carbon-Based Functional Nanomaterials. Accounts of Chemical Research, 2016, 49, 96-105.	7.6	322
476	Carbon materials for high volumetric performance supercapacitors: design, progress, challenges and opportunities. Energy and Environmental Science, 2016, 9, 729-762.	15.6	1,037
477	Fabrication of flexible hierarchical porous nitrogen-doped carbon nanofiber films for application in binder-free supercapacitors. Materials Chemistry and Physics, 2016, 169, 1-5.	2.0	29
478	Space-confined assembly of all-carbon hybrid fibers for capacitive energy storage: realizing a built-to-order concept for micro-supercapacitors. Energy and Environmental Science, 2016, 9, 611-622.	15.6	94
479	Nitrogen-doped hierarchical porous carbon derived from block copolymer for supercapacitor. Energy Storage Materials, 2016, 3, 140-148.	9.5	67
480	Recent approaches and future prospects of bacterial cellulose-based electroconductive materials. Journal of Materials Science, 2016, 51, 5573-5588.	1.7	48
481	Bendable and flexible supercapacitor based on polypyrrole-coated bacterial cellulose core-shell composite network. Composites Science and Technology, 2016, 128, 33-40.	3.8	105
482	A facile one-step approach to hierarchically assembled coreâ€“shell-like MnO2@MnO2 nanoarchitectures on carbon fibers: An efficient and flexible electrode material to enhance energy storage. Nano Research, 2016, 9, 1507-1522.	5.8	98
483	Flexible solid-state supercapacitors based on freestanding nitrogen-doped porous carbon nanofibers derived from electrospun polyacrylonitrile@polyaniline nanofibers. Journal of Materials Chemistry A, 2016, 4, 4180-4187.	5.2	203
484	3D hierarchical porous N-doped carbon aerogel from renewable cellulose: an attractive carbon for high-performance supercapacitor electrodes and CO‹sub›2‹/sub› adsorption. RSC Advances, 2016, 6, 15788-15795.	1.7	127
485	Rapid Preparation of Crosslinked N-doped Graphene by Burning Method for High-Performance Electrochemical Capacitors. Electrochimica Acta, 2016, 192, 243-250.	2.6	12
486	Organic Amine-Mediated Synthesis of Polymer and Carbon Microspheres: Mechanism Insight and Energy-Related Applications. ACS Applied Materials & Interfaces, 2016, 8, 4851-4861.	4.0	29
487	One-pot synthesis of graphene/zinc oxide by microwave irradiation with enhanced supercapacitor performance. RSC Advances, 2016, 6, 19394-19403.	1.7	57

#	Article	IF	Citations
488	Outstanding capacitive performance of reticular porous carbon/graphene sheets with superhigh surface area. Electrochimica Acta, 2016, 190, 923-931.	2.6	32
489	Preparation and electrochemical performances of CoÏ‡Ni(1â€‰â^'â€‰Ï‡)(OH)2coated carbon nanotube free standing films as flexible electrode for supercapacitors. Materials Technology, 2016, , 1-7.	1.5	1
490	Three-dimensional freestanding hierarchically porous carbon materials as binder-free electrodes for supercapacitors: high capacitive property and long-term cycling stability. Journal of Materials Chemistry A, 2016, 4, 5623-5631.	5.2	89
491	Preparation and electrochemical performance of attapulgite/citric acid template carbon electrode materials. Journal of Applied Electrochemistry, 2016, 46, 299-307.	1.5	13
492	Hydrogel-derived heteroatom-doped porous carbon networks for supercapacitor and electrocatalytic oxygen reduction. Carbon, 2016, 103, 9-15.	5.4	140
493	Nitrogen-modified biomass-derived cheese-like porous carbon for electric double layer capacitors. RSC Advances, 2016, 6, 26738-26744.	1.7	22
494	Hierarchically structured nitrogen-doped carbon for advanced supercapacitor electrode materials. Ionics, 2016, 22, 1197-1207.	1.2	15
495	Nitrogen-doped interconnected carbon nanosheets from pomelo mesocarps for high performance supercapacitors. Electrochimica Acta, 2016, 190, 862-871.	2.6	174
496	Nitrogen Doped Microporous Carbons with Tunable and Selective performances in Supercapacitor and Heterogeneous Catalysis. Electrochimica Acta, 2016, 190, 912-922.	2.6	25
497	Pyrolytic cyanobacteria derived activated carbon as high performance electrode in symmetric supercapacitor. Energy, 2016, 94, 666-671.	4.5	29
498	Novel 3-D network SeS /NCPAN composites prepared by one-pot in-situ solid-state method and its electrochemical performance as cathode material for lithium-ion battery. Journal of Alloys and Compounds, 2016, 664, 92-98.	2.8	28
499	Porous carbon@MnO2 and nitrogen-doped porous carbon from carbonized loofah sponge for asymmetric supercapacitor with high energy and power density. Journal of Electroanalytical Chemistry, 2016, 763, 90-96.	1.9	64
500	Preparation and capacitive performance of porous carbon materials derived from eulaliopsis binata. Electrochimica Acta, 2016, 189, 93-100.	2.6	49
501	Probing the electrochemical properties of TiO2/graphene composite by cyclic voltammetry and impedance spectroscopy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 206, 22-29.	1.7	28
502	Graphene/N-doped carbon sandwiched nanosheets with ultrahigh nitrogen doping for boosting lithium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 1423-1431.	5.2	146
503	Mesoporous TiO2 and Co-doped TiO2 Nanotubes/Reduced Graphene Oxide Composites as Electrodes for Supercapacitors. Electrochimica Acta, 2016, 190, 104-117.	2.6	81
504	Systematic investigation of reduced graphene oxide foams for high-performance supercapacitors. Electrochimica Acta, 2016, 190, 168-177.	2.6	30
505	A new approach of structural and chemical modification on graphene electrodes for high-performance supercapacitors. Carbon, 2016, 100, 7-15.	5.4	52

#	Article	IF	Citations
506	Polyaniline-coated electrospun carbon nanofibers with high mass loading and enhanced capacitive performance as freestanding electrodes for flexible solid-state supercapacitors. Energy, 2016, 95, 233-241.	4.5	122
507	Conversion of uniform graphene oxide/polypyrrole composites into functionalized 3D carbon nanosheet frameworks with superior supercapacitive and sodium-ion storage properties. Journal of Power Sources, 2016, 307, 17-24.	4.0	23
508	A simple CaCO 3 -assisted template carbonization method for producing nitrogen doped porous carbons as electrode materials for supercapacitors. Electrochimica Acta, 2016, 188, 757-766.	2.6	48
509	Ultrathin nanoflakes of cobaltâ€“manganese layered double hydroxide with high reversibility for asymmetric supercapacitor. Journal of Power Sources, 2016, 306, 526-534.	4.0	257
510	Design of a layered nanoreactor to produce nitrogen doped carbon nanosheets as highly efficient material for supercapacitors. Materials and Design, 2016, 89, 708-714.	3.3	27
511	N,P-co-doped carbon nanowires prepared from bacterial cellulose for supercapacitor. Journal of Materials Science, 2016, 51, 2627-2633.	1.7	76
512	Review on recent advances in nitrogen-doped carbons: preparations and applications in supercapacitors. Journal of Materials Chemistry A, 2016, 4, 1144-1173.	5.2	879
513	Nitrogen-doped porous carbon derived from residuary shaddock peel: a promising and sustainable anode for high energy density asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 372-378.	5.2	123
514	Bifunctional Nitrogen-Doped Microporous Carbon Microspheres Derived from Poly(o-methylaniline) for Oxygen Reduction and Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 3601-3608.	4.0	89
515	Synthesis of porous carbon nanofiber with bamboo-like carbon nanofiber branches by one-step carbonization process. Applied Surface Science, 2017, 402, 456-462.	3.1	16
516	Porous Oneâ€Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage. Advanced Materials, 2017, 29, 1602300.	11.1	615
517	Preparation of electrospun Ag/g-C₃N₄ loaded composite carbon nanofibers for catalytic applications. Materials Research Express, 2017, 4, 015603.	0.8	16
518	One-step synthesis of Co-TiC-carbon composite nanofibers at low temperature. Ceramics International, 2017, 43, 5828-5831.	2.3	18
519	Doping with Graphitic Nitrogen Triggers Ferromagnetism in Graphene. Journal of the American Chemical Society, 2017, 139, 3171-3180.	6.6	202
520	Superior lithium storage in nitrogen-doped carbon nanofibers with open-channels. Chemical Engineering Journal, 2017, 315, 1-9.	6.6	28
521	Anchoring samarium oxide nanoparticles on reduced graphene oxide for high-performance supercapacitor. Applied Surface Science, 2017, 402, 245-253.	3.1	96
522	Microwave Electromagnetic and Absorption Properties of N-Doped Ordered Mesoporous Carbon Decorated with Ferrite Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 3846-3853.	1.5	66
523	Recent Progress in Metalâ€“Organic Frameworks and Their Derived Nanostructures for Energy and Environmental Applications. ChemSusChem, 2017, 10, 1645-1663.	3.6	199

#	Article	IF	Citations
524	Materials Design and System Construction for Conventional and Newâ€Concept Supercapacitors. Advanced Science, 2017, 4, 1600382.	5.6	365
525	Controlled synthesis of hierarchical CoMn2O4 nanostructures for flexible all-solid-state battery-type electrodes. Journal of Solid State Electrochemistry, 2017, 21, 1579-1587.	1.2	11
526	A protic salt-derived porous carbon for efficient capacitive deionization: Balance between porous structure and chemical composition. Carbon, 2017, 116, 21-32.	5.4	82
527	Design and preparation of a ternary composite of graphene oxide/carbon dots/polypyrrole for supercapacitor application: Importance and unique role of carbon dots. Carbon, 2017, 115, 134-146.	5.4	211
528	A high-power lithium-ion hybrid electrochemical capacitor based on citrate-derived electrodes. Electrochimica Acta, 2017, 228, 76-81.	2.6	49
529	A Continuous Carbon Nitride Polyhedron Assembly for Highâ€Performance Flexible Supercapacitors. Advanced Functional Materials, 2017, 27, 1606219.	7.8	141
530	Three-dimensional nitrogen-doped graphene derived from poly- o -phenylenediamine for high-performance supercapacitors. Journal of Electroanalytical Chemistry, 2017, 787, 103-109.	1.9	32
531	Fabrication of free-standing N-doped carbon/TiO2 hierarchical nanofiber films and their application in lithium and sodium storages. Journal of Alloys and Compounds, 2017, 701, 372-379.	2.8	29
532	Improvement in the surface properties of activated carbon via steam pretreatment for high performance supercapacitors. Applied Surface Science, 2017, 404, 88-93.	3.1	41
533	Facile synthesis of novel bowl-like hollow carbon spheres by the combination of hydrothermal carbonization and soft templating. Chemical Communications, 2017, 53, 2922-2925.	2.2	51
534	Construction of cobalt sulfide/graphitic carbon nitride hybrid nanosheet composites for high performance supercapacitor electrodes. Journal of Alloys and Compounds, 2017, 706, 41-47.	2.8	91
535	Low-cost counter electrodes based on nitrogen-doped porous carbon nanorods for dye-sensitized solar cells. Materials Science in Semiconductor Processing, 2017, 63, 190-195.	1.9	16
536	Fabrication of flexible nanoporous nitrogen-doped graphene film for high-performance supercapacitors. Journal of Solid State Electrochemistry, 2017, 21, 1653-1663.	1.2	19
537	Poly(ionic liquid)-derived, N, S-codoped ultramicroporous carbon nanoparticles for supercapacitors. Chemical Engineering Journal, 2017, 317, 651-659.	6.6	140
538	Cyclomatrix polyphosphazenes frameworks (Cyclo-POPs) and the related nanomaterials: Synthesis, assembly and functionalisation. Materials Today Communications, 2017, 11, 38-60.	0.9	44
539	H 2 -rich gases production from Catalytic Decomposition of Biogas: Viability of the process associated to the co-production of carbon nanofibers. International Journal of Hydrogen Energy, 2017, 42, 23484-23493.	3.8	7
540	Dendritic unzipped carbon nanofibers enable uniform loading of surfactant-free Pd nanoparticles for the electroanalysis of small biomolecules. Journal of Materials Chemistry B, 2017, 5, 2254-2262.	2.9	2
541	Flower-like hierarchical porous nitrogen-doped carbon spheres from a facile one-step carbonization method for supercapacitors. Journal of Materials Science: Materials in Electronics, 2017, 28, 9301-9308.	1.1	9

#	Article	IF	Citations
542	Template-free synthesis of N-doped carbon with pillared-layered pores as bifunctional materials for supercapacitor and environmental applications. Carbon, 2017, 118, 98-105.	5.4	98
543	One-step hydrothermal synthesis of nitrogen doping graphene based cobalt oxide and its supercapacitive properties. Journal of Alloys and Compounds, 2017, 705, 801-805.	2.8	28
544	Excellent electrochemical properties and large CO 2 capture of nitrogen-doped activated porous carbon synthesised from waste longan shells. Electrochimica Acta, 2017, 231, 403-411.	2.6	105
545	One-pot synthesis of rice-like TiO 2 /graphene hydrogels as advanced electrodes for supercapacitors and the resulting aerogels as high-efficiency dye adsorbents. Electrochimica Acta, 2017, 229, 239-252.	2.6	63
546	Nitrogen-Enriched Porous Carbon Nanofiber Mat as Efficient Flexible Electrode Material for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2017, 5, 2109-2118.	3.2	67
547	Polyaniline silver nanoparticle coffee waste extracted porous graphene oxide nanocomposite structures as novel electrode material for rechargeable batteries. Materials Research Express, 2017, 4, 035501.	0.8	22
548	Creating Nitrogen-Doped Hollow Multiyolk@Shell Carbon as High Performance Electrodes for Flow-Through Deionization Capacitors. ACS Sustainable Chemistry and Engineering, 2017, 5, 3329-3338.	3.2	69
549	Low-cost and massive preparation of nitrogen-doped porous carbon for supercapacitor application. RSC Advances, 2017, 7, 10901-10905.	1.7	24
550	Multiscale Pore Network Boosts Capacitance of Carbon Electrodes for Ultrafast Charging. Nano Letters, 2017, 17, 3097-3104.	4.5	251
551	High Performance Asymmetric Supercapacitors Based on Dual Phosphorus (P) and Nitrogen (N) co-Doped Carbon and Graphene-Polyaniline Electrodes. ECS Journal of Solid State Science and Technology, 2017, 6, M3168-M3172.	0.9	10
552	Doped porous carbon nanostructures as non-precious metal catalysts prepared by amino acid glycine for oxygen reduction reaction. Applied Catalysis B: Environmental, 2017, 211, 235-244.	10.8	51
553	ZIF-derived nitrogen-doped porous carbons as highly efficient adsorbents for removal of organic compounds from wastewater. Chemical Engineering Journal, 2017, 323, 502-511.	6.6	140
554	Three-dimensional polypyrrole-derived carbon nanotube framework for dye adsorption and electrochemical supercapacitor. Applied Surface Science, 2017, 414, 218-223.	3.1	67
555	In Situ Expanding Pores of Dodecahedron-like Carbon Frameworks Derived from MOFs for Enhanced Capacitive Deionization. ACS Applied Materials & Interfaces, 2017, 9, 15068-15078.	4.0	134
556	Conjugated Microporous Polycarbazole Networks as Precursors for Nitrogen-Enriched Microporous Carbons for CO₂ Storage and Electrochemical Capacitors. Chemistry of Materials, 2017, 29, 4885-4893.	3.2	140
557	Boosting Supercapacitor Performance of TiO₂ Nanobelts by Efficient Nitrogen Doping. ChemElectroChem, 2017, 4, 2328-2335.	1.7	14
558	Stepwise Crosslinking: A Facile Yet Versatile Conceptual Strategy to Nanomorphologyâ€Persistent Porous Organic Polymers. Advanced Materials, 2017, 29, 1700723.	11.1	47
559	Mild-temperature hydrodeoxygenation of vanillin over porous nitrogen-doped carbon black supported nickel nanoparticles. Green Chemistry, 2017, 19, 3126-3134.	4.6	147

#	Article	IF	Citations
560	The carbonization temperature effect on the electrochemical performance of nitrogen-doped carbon monoliths. Electrochimica Acta, 2017, 242, 100-106.	2.6	51
561	A Fe₃O₄â€“carbon nanofiber/gold nanoparticle hybrid for enzymatic biofuel cells with larger power output. Journal of Materials Chemistry A, 2017, 5, 11026-11031.	5.2	18
562	Multifunctional bio carbon: a coir pith waste derived electrode for extensive energy storage device applications. RSC Advances, 2017, 7, 23663-23670.	1.7	21
563	Submicron silicon encapsulated with graphene and carbon as a scalable anode for lithium-ion batteries. Carbon, 2017, 119, 438-445.	5.4	53
564	Nanosized coreâ€“shell structured grapheneâ€“MnO₂nanosheet arrays as stable electrodes for superior supercapacitors. Journal of Materials Chemistry A, 2017, 5, 10678-10686.	5.2	54
565	Rational construction the composite of graphene and hierarchical structure assembled by Fe 2 O 3 nanosheets for lithium storage. Electrochimica Acta, 2017, 243, 18-25.	2.6	45
566	Interconnected open-channel carbon nanosheets derived from pineapple leaf fiber as a sustainable active material for supercapacitors. Industrial Crops and Products, 2017, 104, 13-20.	2.5	78
567	Promising carbon nanosheet-based supercapacitor electrode materials from low-grade coals. Microporous and Mesoporous Materials, 2017, 253, 80-90.	2.2	35
568	The fabrication and application of magnetite coated N-doped carbon microtubes hybrid nanomaterials with sandwich structures. Dalton Transactions, 2017, 46, 9172-9179.	1.6	29
569	Rapid synthesis of self-supported three-dimensional bubble-like graphene frameworks as high-performance electrodes for supercapacitors. Sustainable Energy and Fuels, 2017, 1, 1557-1567.	2.5	22
570	Hierarchical CuO octahedra inherited from copper metalâ€“organic frameworks: high-rate and high-capacity lithium-ion storage materials stimulated by pseudocapacitance. Journal of Materials Chemistry A, 2017, 5, 12828-12837.	5.2	80
571	Benzoate Acid-Dependent Lattice Dimension of Co-MOFs and MOF-Derived CoS₂@CNTs with Tunable Pore Diameters for Supercapacitors. Inorganic Chemistry, 2017, 56, 6184-6196.	1.9	119
572	Hierarchical Porous Graphene/Ni Foam Composite with High Performances in Energy Storage Prepared by Flame Reduction of Graphene Oxide. ChemElectroChem, 2017, 4, 2243-2249.	1.7	12
573	Synthesis of layered microporous carbons from coal tar by directing, space-confinement and self-sacrificed template strategy for supercapacitors. Electrochimica Acta, 2017, 246, 634-642.	2.6	52
574	Musselâ€Inspired, Biomimeticsâ€Assisted Selfâ€Assembly of Co₃O₄ on Carbon Fibers for Flexible Supercapacitors. ChemElectroChem, 2017, 4, 2269-2277.	1.7	18
575	Electrospun CoCr7C3-supported C nanofibers: Effective, durable, and chemically stable catalyst for H2 gas generation from ammonia borane. Molecular Catalysis, 2017, 434, 32-38.	1.0	25
576	Biomass based nitrogen-doped structure-tunable versatile porous carbon materials. Journal of Materials Chemistry A, 2017, 5, 12958-12968.	5.2	133
577	Preparation and dispersity of carbon nanospheres by carbonizing polyacrylonitrile microspheres. RSC Advances, 2017, 7, 16341-16347.	1.7	7

#	Article	IF	Citations
578	Unrivaled combination of surface area and pore volume in micelle-templated carbon for supercapacitor energy storage. Journal of Materials Chemistry A, 2017, 5, 13511-13525.	5.2	63
579	Electrochemical performance of Bi 2 O 2 CO 3 nanosheets as negative electrode material for supercapacitors. Ceramics International, 2017, 43, 9310-9316.	2.3	20
580	Balanced mesoporous nickle cobaltite-graphene and doped carbon electrodes for high-performance asymmetric supercapacitor. Chemical Engineering Journal, 2017, 326, 401-410.	6.6	34
581	Porous nitrogenâ€"doped carbon derived from biomass for electrocatalytic reduction of CO2 to CO. Electrochimica Acta, 2017, 245, 561-568.	2.6	76
582	Impact of binder concentration and pressure on performance of symmetric CNFs based supercapacitors. Electrochimica Acta, 2017, 245, 531-538.	2.6	20
583	Nitrogen and Sulfur Co-Doped Glucose-Based Porous Carbon Materials with Excellent Electrochemical Performance for Supercapacitors. Journal of the Electrochemical Society, 2017, 164, A1601-A1607.	1.3	14
584	Nitrogen/sulfur co-doping assisted chemical activation for synthesis of hierarchical porous carbon as an efficient electrode material for supercapacitors. Electrochimica Acta, 2017, 246, 59-67.	2.6	46
585	Supercapacitance of nitrogen-sulfur-oxygen co-doped 3D hierarchical porous carbon in aqueous and organic electrolyte. Journal of Power Sources, 2017, 359, 556-567.	4.0	121
586	Highly nitrogen and sulfur dual-doped carbon microspheres for supercapacitors. Science Bulletin, 2017, 62, 1011-1017.	4.3	52
587	Electrode and electrolyte materials for electrochemical capacitors. International Journal of Hydrogen Energy, 2017, 42, 25565-25587.	3.8	93
588	Nitrogen and oxygen dual-doped carbon nanohorn for electrochemical capacitors. Carbon, 2017, 118, 511-516.	5.4	52
589	Biomass derived porous nitrogen doped carbon for electrochemical devices. Green Energy and Environment, 2017, 2, 84-99.	4.7	141
590	Nanocellulose-based conductive materials and their emerging applications in energy devices - A review. Nano Energy, 2017, 35, 299-320.	8.2	329
591	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIFâ€67 Crystals. Angewandte Chemie, 2017, 129, 8555-8560.	1.6	33
592	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIFâ€67 Crystals. Angewandte Chemie - International Edition, 2017, 56, 8435-8440.	7.2	362
593	Pd 3 Cu coupling with nitrogen-doped mesoporous carbon to boost performance in glycerol oxidation. Applied Catalysis A: General, 2017, 538, 123-130.	2.2	27
594	Highly Nitrogen-Doped Porous Carbon Obtained Using Nicotinic Acid by a Template Carbonization Approach for Supercapacitors. Nano, 2017, 12, 1750038.	0.5	3
595	Functional porous carbon nanospheres from sustainable precursors for high performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 16263-16272.	5.2	53

#	Article	IF	Citations
596	Designed formation of hollow particle-based nitrogen-doped carbon nanofibers for high-performance supercapacitors. Energy and Environmental Science, 2017, 10, 1777-1783.	15.6	782
597	Flexible and Binder-Free Hierarchical Porous Carbon Film for Supercapacitor Electrodes Derived from MOFs/CNT. ACS Applied Materials & Interfaces, 2017, 9, 14043-14050.	4.0	167
598	Porous Functionalized Self-Standing Carbon Fiber Paper Electrodes for High-Performance Capacitive Energy Storage. ACS Applied Materials & Interfaces, 2017, 9, 13173-13180.	4.0	40
599	Remarkable supercapacitor performance of petal-like LDHs vertically grown on graphene/polypyrrole nanoflakes. Journal of Materials Chemistry A, 2017, 5, 8964-8971.	5.2	53
600	Crab Chitinâ€Based 2D Soft Nanomaterials for Fully Biobased Electric Devices. Advanced Materials, 2017, 29, 1606895.	11.1	109
601	Robust ambient pressure dried polyimide aerogels and their graphene oxide directed growth of 1Dâ€"2D nanohybrid aerogels using water as the only solvent. RSC Advances, 2017, 7, 16210-16216.	1.7	12
602	New insights on laser-induced graphene electrodes for flexible supercapacitors: tunable morphology and physical properties. Nanotechnology, 2017, 28, 174002.	1.3	80
603	Heteroatom-doped multilocular carbon nanospheres with high surface utilization and excellent rate capability as electrode material for supercapacitors. Electrochimica Acta, 2017, 236, 53-60.	2.6	31
604	MnO 2 -introduced-tunnels strategy for the preparation of nanotunnel inserted hierarchical-porous carbon as electrode material for high-performance supercapacitors. Chemical Engineering Journal, 2017, 320, 634-643.	6.6	33
605	N-Doped hierarchical porous carbon from waste boat-fruited sterculia seed for high performance supercapacitors. RSC Advances, 2017, 7, 16678-16687.	1.7	52
606	Combined Optoelectronic and Electrochemical Study of Nitrogenated Carbon Electrodes. Journal of Physical Chemistry C, 2017, 121, 6596-6604.	1.5	22
607	Solvothermal synthesis of cobalt/nickel layered double hydroxides for energy storage devices. Journal of Alloys and Compounds, 2017, 695, 3522-3529.	2.8	68
608	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.	4.5	241
609	Hollow carbon nanospheres using an asymmetric triblock copolymer structure directing agent. Chemical Communications, 2017, 53, 236-239.	2.2	37
610	Boron and nitrogen co-doped porous carbon with a high concentration of boron and its superior capacitive behavior. Carbon, 2017, 113, 266-273.	5.4	147
611	Template-directed synthesis of nitrogen- and sulfur-codoped carbon nanowire aerogels with enhanced electrocatalytic performance for oxygen reduction. Nano Research, 2017, 10, 1888-1895.	5.8	34
612	Polypyrrole composites with carbon materials for supercapacitors. Chemical Papers, 2017, 71, 293-316.	1.0	49
613	Molybdenum carbide nanoparticles embedded in nitrogen-doped porous carbon nanofibers as a dual catalyst for hydrogen evolution and oxygen reduction reactions. Carbon, 2017, 114, 628-634.	5.4	94

#	Article	IF	Citations
614	Oxygen and nitrogen co-doped porous carbon nanosheets derived from Perilla frutescens for high volumetric performance supercapacitors. Journal of Power Sources, 2017, 341, 309-317.	4.0	408
615	Nitrogen-doped reduced graphene oxide as electrode material for high rate supercapacitors. Applied Surface Science, 2017, 399, 265-271.	3.1	107
616	Improved capacitance of nitrogen-doped delaminated two-dimensional titanium carbide by urea-assisted synthesis. Electrochimica Acta, 2017, 225, 416-424.	2.6	120
617	Facile approach for synthesis of doped carbon electrocatalyst from cellulose nanofibrils toward high-performance metal-free oxygen reduction and hydrogen evolution. Nano Energy, 2017, 32, 336-346.	8.2	132
618	Ferric citrate-derived N-doped hierarchical porous carbons for oxygen reduction reaction and electrochemical supercapacitors. Carbon, 2017, 115, 1-10.	5.4	102
619	Ultrafine Co-based Nanoparticle@Mesoporous Carbon Nanospheres toward High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 1746-1758.	4.0	69
620	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. Nanoscale, 2017, 9, 1237-1243.	2.8	154
621	Metalâ€"Organic Coordination Polymer to Prepare Density Controllable and High Nitrogen-Doped Content Carbon/Graphene for High Performance Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 317-326.	4.0	29
622	Facile preparation of nanoflake-structured nickel oxide/carbon nanotube composite films by electrophoretic deposition as binder-free electrodes for high-performance pseudocapacitors. Current Applied Physics, 2017, 17, 240-248.	1.1	18
623	Co embedded within biomass-derived mesoporous N-doped carbon as an acid-resistant and chemoselective catalyst for transfer hydrodeoxygenation of biomass with formic acid. Green Chemistry, 2017, 19, 5714-5722.	4.6	106
624	Synthesis of Ni/Co/Al-layered triple hydroxide@brominated graphene hybrid on nickel foam as electrode material for high-performance supercapacitors. RSC Advances, 2017, 7, 46553-46565.	1.7	38
625	Cocoon derived nitrogen enriched activated carbon fiber networks for capacitive deionization. Journal of Electroanalytical Chemistry, 2017, 804, 179-184.	1.9	47
626	Highly N-doped microporous carbon nanospheres with high energy storage and conversion efficiency. Scientific Reports, 2017, 7, 14400.	1.6	23
627	Eco-friendly fabricated nonporous carbon nanofibers with high volumetric capacitance: improving rate performance by tri-dopants of nitrogen, phosphorus, and silicon. Inorganic Chemistry Frontiers, 2017, 4, 2024-2032.	3.0	20
628	Boosting the Specific Surface Area of Hierarchical Porous Carbon Aerogel through the Multiple Roles of the Catalyst for Highâ€Performance Supercapacitors. ChemElectroChem, 2017, 4, 3119-3125.	1.7	22
629	Two-Dimensional Carbon Nanosheets for High-Performance Supercapacitors: Large-Scale Synthesis and Codoping with Nitrogen and Phosphorus. Industrial & Engineering Chemistry Research, 2017, 56, 12344-12353.	1.8	22
630	On site formation of N-doped carbon nanofibers, an efficient electrocatalyst for fuel cell applications. International Journal of Hydrogen Energy, 2017, 42, 30339-30348.	3.8	16
631	In situ nitrogen-doped mesoporous carbon nanofibers as flexible freestanding electrodes for high-performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 23620-23627.	5.2	95

#	Article	IF	Citations
632	Influence of nitrogen-doping in carbon on equivalent distributed resistance and capacitance â€“ Implications to electrocatalysis of oxygen reduction reaction. Journal of Electroanalytical Chemistry, 2017, 805, 184-192.	1.9	59
633	Electrospun carbon nanofibers containing Co-TiC nanoparticles-like superficial protrusions as a catalyst for H2 gas production from ammonia borane complex. Ceramics International, 2017, 43, 15735-15742.	2.3	22
634	N-Doped Porous Carbon Nanofibers/Porous Silver Network Hybrid for High-Rate Supercapacitor Electrode. ACS Applied Materials & Interfaces, 2017, 9, 30832-30839.	4.0	53
635	Nitrogen and oxygen-codoped carbon nanospheres for excellent specific capacitance and cyclic stability supercapacitor electrodes. Chemical Engineering Journal, 2017, 330, 1166-1173.	6.6	106
636	Macroscopicâ€Scale Threeâ€Dimensional Carbon Nanofiber Architectures for Electrochemical Energy Storage Devices. Advanced Energy Materials, 2017, 7, 1700826.	10.2	152
637	Highly Microporous Nitrogenâ€doped Carbon Synthesized from Azineâ€linked Covalent Organic Framework and its Supercapacitor Function. Chemistry - A European Journal, 2017, 23, 17504-17510.	1.7	67
638	Activated Carbon Monolith Derived from Amygdalus Pedunculata Shell and Polyacrylonitrile for Supercapacitors. Bulletin of the Chemical Society of Japan, 2017, 90, 1333-1336.	2.0	9
639	Fabrication of Hierarchical Porous Carbon Nanoflakes for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 34944-34953.	4.0	72
640	Urine to highly porous heteroatom-doped carbons for supercapacitor: A value added journey for human waste. Scientific Reports, 2017, 7, 10910.	1.6	55
641	Protonated g-C3N4@polypyrrole derived N-doped porous carbon for supercapacitors and oxygen electrocatalysis. Carbon, 2017, 124, 599-610.	5.4	94
642	Composites of hierarchical metalâ€“organic framework derived nitrogen-doped porous carbon and interpenetrating 3D hollow carbon spheres from lotus pollen for high-performance supercapacitors. New Journal of Chemistry, 2017, 41, 12835-12842.	1.4	17
643	Facile Fabrication of Urchin-like Polyaniline Microspheres for Electrochemical Energy Storage. Electrochimica Acta, 2017, 254, 25-35.	2.6	34
644	Heteroatom functionalized activated porous biocarbons and their excellent performance forÂCO₂ capture at high pressure. Journal of Materials Chemistry A, 2017, 5, 21196-21204.	5.2	91
645	Fabrication of N-doped and shape-controlled porous monolithic carbons from polyacrylonitrile for supercapacitors. RSC Advances, 2017, 7, 43172-43180.	1.7	17
646	Facile and controllable synthesis of N/P co-doped graphene for high-performance supercapacitors. Journal of Power Sources, 2017, 365, 380-388.	4.0	100
647	Recent advances in chemical methods for activating carbon and metal oxide based electrodes for supercapacitors. Journal of Materials Chemistry A, 2017, 5, 17151-17173.	5.2	135
648	Hierarchical Hybrids Integrated by Dual Polypyrroleâ€Based Porous Carbons for Enhanced Capacitive Performance. Chemistry - A European Journal, 2017, 23, 13474-13481.	1.7	28
649	Design and preparation of porous carbons from conjugated polymer precursors. Materials Today, 2017, 20, 629-656.	8.3	133

#	Article	IF	Citations
650	Sonication-assisted depositionâ€"precipitation synthesis of graphitic C3N4/BiOCl heterostructured photocatalysts with enhanced rhodamine B photodegradation activity. Journal of Materials Science: Materials in Electronics, 2017, 28, 15861-15869.	1.1	9
651	Anchovy-derived nitrogen and sulfur co-doped porous carbon materials for high-performance supercapacitors and dye-sensitized solar cells. RSC Advances, 2017, 7, 35565-35574.	1.7	31
652	Bioâ€Nanotechnology in Highâ€Performance Supercapacitors. Advanced Energy Materials, 2017, 7, 1700592.	10.2	168
653	Hierarchical metal-organic framework derived nitrogen-doped porous carbon/graphene composite for high performance supercapacitors. Electrochimica Acta, 2017, 248, 215-224.	2.6	44
654	Hierarchical CoMn-layered double hydroxide nanowires on nickel foam as electrode material for high-capacitance supercapacitor. Journal of Alloys and Compounds, 2017, 729, 866-873.	2.8	62
655	A facile template approach to nitrogen-doped hierarchical porous carbon nanospheres from polydopamine for high-performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 18242-18252.	5.2	115
656	N- and O-doped hollow carbonaceous spheres with hierarchical porous structure for potential application in high-performance capacitance. Journal of Power Sources, 2017, 363, 356-364.	4.0	45
657	Investigation on electrochemical behaviors of NiCo₂O₄ battery-type supercapacitor electrodes: the role of an aqueous electrolyte. Inorganic Chemistry Frontiers, 2017, 4, 1642-1648.	3.0	172
658	Balancing the electrical double layer capacitance and pseudocapacitance of hetero-atom doped carbon. Nanoscale, 2017, 9, 13119-13127.	2.8	108
659	Highly Nitrogen-Doped Three-Dimensional Carbon Fibers Network with Superior Sodium Storage Capacity. ACS Applied Materials & Interfaces, 2017, 9, 28604-28611.	4.0	38
660	Morphochemical imprinting of melamine cyanurate mesocrystals in glucose-derived carbon for high performance lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 20635-20642.	5.2	31
661	Strontium doped lanthanum manganite (LSM) effects on electrochemical performance of LSM/MnO2 composites for supercapacitor. Journal of Materials Science: Materials in Electronics, 2017, 28, 17020-17025.	1.1	9
662	High-frequency electrochemical capacitors based on plasma pyrolyzed bacterial cellulose aerogel for current ripple filtering and pulse energy storage. Nano Energy, 2017, 40, 107-114.	8.2	75
663	Î´-MnO₂nanofiber/single-walled carbon nanotube hybrid film for all-solid-state flexible supercapacitors with high performance. Journal of Materials Chemistry A, 2017, 5, 19107-19115.	5.2	44
664	Nitrogen-doped two-dimensional porous carbon sheets derived from clover biomass for high performance supercapacitors. Journal of Power Sources, 2017, 363, 375-383.	4.0	192
665	Polydopamine-filled bacterial nanocellulose as a biodegradable interfacial photothermal evaporator for highly efficient solar steam generation. Journal of Materials Chemistry A, 2017, 5, 18397-18402.	5.2	257
666	Template-free synthesis of nitrogen doped carbon materials from an organic ionic dye (murexide) for supercapacitor application. RSC Advances, 2017, 7, 54626-54637.	1.7	16
667	Generalized Synthesis of a Family of Highly Heteroatom-Doped Ordered Mesoporous Carbons. Chemistry of Materials, 2017, 29, 10178-10186.	3.2	74

#	Article	IF	Citations
668	Analysis of graphene-like activated carbon derived from rice straw for application in supercapacitor. Chinese Chemical Letters, 2017, 28, 2290-2294.	4.8	51
669	Hierarchical porous carbon with network morphology derived from natural leaf for superior aqueous symmetrical supercapacitors. Electrochimica Acta, 2017, 258, 504-511.	2.6	60
670	Surface-coating synthesis of nitrogen-doped inverse opal carbon materials with ultrathin micro/mesoporous graphene-like walls for oxygen reduction and supercapacitors. Journal of Materials Chemistry A, 2017, 5, 25237-25248.	5.2	32
671	Macropore- and Micropore-Dominated Carbon Derived from Poly(vinyl alcohol) and Polyvinylpyrrolidone for Supercapacitor and Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2017, 5, 11324-11333.	3.2	61
672	Electrocapacitive properties of nitrogen-containing porous carbon derived from cellulose. Journal of Power Sources, 2017, 360, 634-641.	4.0	29
673	High-Performance Liâ€"Se Batteries Enabled by Selenium Storage in Bottom-Up Synthesized Nitrogen-Doped Carbon Scaffolds. ACS Applied Materials & Interfaces, 2017, 9, 25232-25238.	4.0	50
674	Oxygen and nitrogen co-doped porous carbons with finely-layered schistose structure for high-rate-performance supercapacitors. Carbon, 2017, 122, 538-546.	5.4	91
675	Nitrogen doped and hierarchically porous carbons derived from chitosan hydrogel via rapid microwave carbonization for high-performance supercapacitors. Carbon, 2017, 122, 592-603.	5.4	114
676	Single-Step Synthesis of N-Doped Three-Dimensional Graphitic Foams for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2017, 5, 6950-6957.	3.2	45
677	Bio-Derived Hierarchical 3D Architecture from Seeds for Supercapacitor Application. Jom, 2017, 69, 1513-1518.	0.9	7
678	A facile approach for graphdiyne preparation under atmosphere for an advanced battery anode. Chemical Communications, 2017, 53, 8074-8077.	2.2	142
679	Graphene-based materials for capacitive deionization. Journal of Materials Chemistry A, 2017, 5, 13907-13943.	5.2	242
680	Transition Metal Ions Enable the Transition from Electrospun Prolamin Protein Fibers to Nitrogen-Doped Freestanding Carbon Films for Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 23731-23740.	4.0	15
681	Facile synthesis of nitrogen-doped porous carbons for CO2 capture and supercapacitors. Journal of Materials Science, 2017, 52, 10308-10320.	1.7	21
682	Nitrogen-Doped Hollow Mesoporous Carbon Spheres for Efficient Water Desalination by Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2017, 5, 6635-6644.	3.2	157
683	Synthesis of uniform discrete cage-like nitrogen-doped hollow porous carbon spheres with tunable direct large mesoporous for ultrahigh supercapacitive performance. Applied Surface Science, 2017, 425, 69-76.	3.1	27
684	N-doped porous reduced graphene oxide as an efficient electrode material for high performance flexible solid-state supercapacitor. Applied Materials Today, 2017, 8, 141-149.	2.3	69
685	Cotton fabric derived hierarchically porous carbon and nitrogen doping for sustainable capacitor electrode. Carbon, 2017, 111, 839-848.	5.4	140

#	Article	IF	Citations
686	Biotemplated synthesis of three-dimensional porous MnO/C-N nanocomposites from renewable rapeseed pollen: An anode material for lithium-ion batteries. Nano Research, 2017, 10, 1-11.	5.8	208
687	Nano Metalâ€Organic Frameworkâ€Derived Inorganic Hybrid Nanomaterials: Synthetic Strategies and Applications. Chemistry - A European Journal, 2017, 23, 5631-5651.	1.7	104
688	Mesoporous carbon/sulfur composite with N-doping and tunable pore size for high-performance Li-S batteries. Journal of Solid State Electrochemistry, 2017, 21, 1101-1109.	1.2	12
689	Boron-doped nanoporous carbons as promising materials for supercapacitors and hydrogen storage. Journal of Materials Science, 2017, 52, 1523-1533.	1.7	27
690	A facile one-step synthesis of Mn3O4 nanoparticles-decorated TiO2 nanotube arrays as high performance electrode for supercapacitors. Journal of Solid State Chemistry, 2017, 246, 269-277.	1.4	25
691	Novel Hybrid Nanoparticles of Vanadium Nitride/Porous Carbon as an Anode Material for Symmetrical Supercapacitor. Nano-Micro Letters, 2017, 9, 6.	14.4	93
692	Random alloy nanoparticles of Pd and Au immobilized on reducible metal oxides and their catalytic investigation. Applied Catalysis B: Environmental, 2017, 203, 505-514.	10.8	19
693	High performance aqueous supercapacitor based on highly nitrogen-doped carbon nanospheres with unimodal mesoporosity. Journal of Power Sources, 2017, 337, 189-196.	4.0	99
694	Porous carbons derived from pyrene-based conjugated microporous polymer for supercapacitors. Microporous and Mesoporous Materials, 2017, 240, 73-79.	2.2	31
695	Carbon electrode materials for supercapacitors obtained by co-carbonization of coal-tar pitch and sawdust. Journal of Materials Science, 2017, 52, 760-769.	1.7	34
696	Effects of CNTâ€film Pretreatment on the Characteristics of NiCo₂O₄/CNT Coreâ€shell Hybrids as Electrode Material for Electrochemistry Capacitor. Electroanalysis, 2017, 29, 778-786.	1.5	12
697	Hierarchical graphene network sandwiched by a thin carbon layer for capacitive energy storage. Carbon, 2017, 113, 100-107.	5.4	39
698	Significance of optimal N-doping in mesoporous carbon framework to achieve high specific capacitance. Applied Surface Science, 2017, 418, 40-48.	3.1	41
699	Rational design of carbon shell endows TiN@C nanotube based fiber supercapacitors with significantly enhanced mechanical stability and electrochemical performance. Nano Energy, 2017, 31, 432-440.	8.2	112
700	Chemical blowing strategy synthesis of nitrogen-rich porous graphitized carbon nanosheets: Morphology, pore structure and supercapacitor application. Chemical Engineering Journal, 2017, 312, 191-203.	6.6	110
701	Fabrication of nitrogen and sulfur co-doped graphene nanoribbons with porous architecture for high-performance supercapacitors. Chemical Engineering Journal, 2017, 312, 180-190.	6.6	130
702	The effect of nitrogen and/or boron doping on the electrochemical performance of non-caking coal-derived activated carbons for use as supercapacitor electrodes. New Carbon Materials, 2017, 32, 442-450.	2.9	43
703	Synthesis of conducting polymer/carbon material composites and their application in electrical energy storage. , 2017, , 173-209.		27

#	Article	IF	Citations
704	Nitrogen Doped Macroporous Carbon as Electrode Materials for High Capacity of Supercapacitor. Polymers, 2017, 9, 2.	2.0	40
705	Ni(OH)2 Aerogels Incorporated with Polypyrrole as Electrodes for Supercapacitors. Journal of Electronic Materials, 2017, 46, 5232-5239.	1.0	11
706	Direct Formation of Reduced Graphene Oxide and Graphene Quantum dot Composites by Using Ascorbic Acid as High-Performance Binder-Free Supercapacitor Electrodes. International Journal of Electrochemical Science, 2017, 12, 8820-8831.	0.5	10
707	Study on Preparation of Nanocarbon Fibers from Wheat-Straw Based on Electrostatic Spinning Method and its Application in Supercapacitor. International Journal of Electrochemical Science, 2017, 12, 5587-5597.	0.5	16
708	Nitrogen Self-Doped Porous Carbon Materials Derived from a New Biomass Source for Highly Stable Supercapacitors. International Journal of Electrochemical Science, 2017, 12, 12084-12097.	0.5	12
709	Catalytically Active Bacterial Nanocelluloseâ€Based Ultrafiltration Membrane. Small, 2018, 14, e1704006.	5.2	59
710	Stability and Reactivity: Positive and Negative Aspects for Nanoparticle Processing. Chemical Reviews, 2018, 118, 3209-3250.	23.0	261
711	Facile synthesis of microporous sulfur-doped carbon spheres as electrodes for ultrasensitive detection of ascorbic acid in food and pharmaceutical products. New Journal of Chemistry, 2018, 42, 5037-5044.	1.4	62
712	A dyeing-induced heteroatom-co-doped route toward flexible carbon electrode derived from silk fabric. Journal of Materials Science, 2018, 53, 7735-7743.	1.7	19
713	Activated polypyrrole-derived carbon spheres for superior CO2 uptake at ambient conditions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 549, 147-154.	2.3	25
714	Intrinsically microporous polymer-based hierarchical nanostructuring of electrodesvianonsolvent-induced phase separation for high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 8909-8915.	5.2	23
715	Performance of Partially Exfoliated Nitrogen-Doped Carbon Nanotubes Wrapped with Hierarchical Porous Carbon in Electrolytes. ChemSusChem, 2018, 11, 1664-1677.	3.6	23
716	Biomass-Based Nitrogen-Doped Hollow Carbon Nanospheres Derived Directly from Glucose and Glucosamine: Structural Evolution and Supercapacitor Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 7380-7389.	3.2	65
717	Design of graphitic carbon nitride nanowires with captured mesoporous carbon spheres for EDLC electrode materials. Ionics, 2018, 24, 3957-3965.	1.2	24
718	Confined Assembly of Hollow Carbon Spheres in Carbonaceous Nanotube: A Spheresâ€inâ€Tube Carbon Nanostructure with Hierarchical Porosity for Highâ€Performance Supercapacitor. Small, 2018, 14, e1704015.	5.2	64
719	The effects of melamine on the formation of carbon xerogel derived from resorcinol and formaldehyde and its performance for supercapacitor. Journal of Colloid and Interface Science, 2018, 524, 209-218.	5.0	27
720	Rapid Synthesis of 3D Porous Nitrogen-Doped Carbon Nanospheres (N-CNSs) and Carbon Nanoboxes (CNBs) for Supercapacitor Electrodes. Journal of the Electrochemical Society, 2018, 165, A918-A923.	1.3	3
721	Boron/Nitrogen/Oxygen Co-Doped Carbon with High Volumetric Performance for Aqueous Symmetric Supercapacitors. Journal of the Electrochemical Society, 2018, 165, A856-A866.	1.3	20

#	Article	IF	Citations
722	An unusual low-surface-area nitrogen doped carbon for ultrahigh gravimetric and volumetric capacitances. Journal of Materials Chemistry A, 2018, 6, 8868-8873.	5.2	18
723	Polystyrene activated linear tube carbon nanofiber for durable and high-performance supercapacitors. Surface and Coatings Technology, 2018, 345, 113-122.	2.2	42
724	Novel polyaniline/manganese hexacyanoferrate nanoparticles on carbon fiber as binder-free electrode for flexible supercapacitors. Composites Part B: Engineering, 2018, 143, 141-147.	5.9	65
725	CaTiO3 perovskite in the framework of activated carbon and its effect on enhanced electrochemical capacitance. Electrochimica Acta, 2018, 268, 73-81.	2.6	29
726	Hierarchically porous carbon derived from biomass: Effect of mesopore and heteroatom-doping on electrochemical performance. Applied Surface Science, 2018, 460, 8-16.	3.1	69
727	Nitrogen doped carbon derived from polyimide/multiwall carbon nanotube composites for high performance flexible all-solid-state supercapacitors. Journal of Power Sources, 2018, 380, 55-63.	4.0	62
728	Green Synthesis of Hierarchically Porous Carbon Nanotubes as Advanced Materials for Highâ€Efficient Energy Storage. Small, 2018, 14, e1703950.	5.2	100
729	Influence of phosphorus doping on surface chemistry and capacitive behaviors of porous carbon electrode. Electrochimica Acta, 2018, 266, 420-430.	2.6	93
730	Nitrogen-incorporated carbon nanotube derived from polystyrene and polypyrrole as hydrogen storage material. International Journal of Hydrogen Energy, 2018, 43, 5077-5088.	3.8	89
731	Facile synthesis of nitrogen-doped porous carbon as robust electrode for supercapacitors. Materials Research Bulletin, 2018, 101, 140-145.	2.7	16
732	Pyridinic-nitrogen highly doped nanotubular carbon arrays grown on a carbon cloth for high-performance and flexible supercapacitors. Nanoscale, 2018, 10, 3981-3989.	2.8	27
733	Recent advances in three-dimensional graphene based materials for catalysis applications. Chemical Society Reviews, 2018, 47, 2165-2216.	18.7	412
734	Tunable Synthesis of Colorful Nitrogen-Doped Titanium Oxide and Its Application in Energy Storage. ACS Applied Energy Materials, 2018, 1, 876-882.	2.5	18
735	Nitrogen-containing novolac-derived carbon beads as electrode material for supercapacitors. Carbon, 2018, 132, 220-231.	5.4	75
736	Phosphorus-assisted solid-phase approach to three-dimensional highly porous graphene sheets and their capacitance properties. Carbon, 2018, 132, 8-15.	5.4	15
737	Dodecylamineâ€Induced Synthesis of a Nitrogenâ€Doped Carbon Comb for Advanced Lithiumâ€"Sulfur Battery Cathodes. Advanced Materials Interfaces, 2018, 5, 1701659.	1.9	21
738	Spray drying assisted synthesis of porous carbons from whey powders for capacitive energy storage. Energy, 2018, 147, 308-316.	4.5	15
739	Super-hierarchical porous carbons derived from mixed biomass wastes by a stepwise removal strategy for high-performance supercapacitors. Journal of Power Sources, 2018, 377, 151-160.	4.0	152

#	Article	IF	Citations
740	Nitrogen-doped carbon â€œspider websâ€•derived from pyrolysis of polyaniline nanofibers in ammonia for capacitive energy storage. Journal of Materials Research, 2018, 33, 1109-1119.	1.2	16
741	Nanocasting in ball mills â€“ combining ultra-hydrophilicity and ordered mesoporosity in carbon materials. Journal of Materials Chemistry A, 2018, 6, 859-865.	5.2	29
742	Direct chitin conversion to N-doped amorphous carbon nanofibers for high-performing full sodium-ion batteries. Nano Energy, 2018, 45, 220-228.	8.2	190
743	85â€¯MeV C6+ swift heavy ion irradiation of in-situ reduced graphene oxideâ€“polypyrrole nanotubes nanocomposite films for supercapacitor electrodes. Electrochimica Acta, 2018, 261, 1-13.	2.6	11
744	Hierarchical metal-organic framework derived nitrogen-doped porous carbon by controllable synthesis for high performance supercapacitors. Journal of Electroanalytical Chemistry, 2018, 813, 200-207.	1.9	27
745	Chemically Exfoliating Biomass into a Grapheneâ€like Porous Active Carbon with Rational Pore Structure, Good Conductivity, and Large Surface Area for Highâ€Performance Supercapacitors. Advanced Energy Materials, 2018, 8, 1702545.	10.2	367
746	Recent progress of unconventional and multifunctional integrated supercapacitors. Chinese Chemical Letters, 2018, 29, 564-570.	4.8	24
747	Nitrogen and phosphorus co-doped carbon hollow spheres derived from polypyrrole for high-performance supercapacitor electrodes. Applied Surface Science, 2018, 437, 169-175.	3.1	66
748	Surface oxo-functionalized hard carbon spheres enabled superior high-rate capability and long-cycle stability for Li-ion storage. Electrochimica Acta, 2018, 260, 430-438.	2.6	21
749	The application of ZIF-67 and its derivatives: adsorption, separation, electrochemistry and catalysts. Journal of Materials Chemistry A, 2018, 6, 1887-1899.	5.2	452
750	Activated nitrogen-doped porous carbon ensemble on montmorillonite for high-performance supercapacitors. Journal of Alloys and Compounds, 2018, 743, 44-51.	2.8	29
751	Preparation of hierarchically porous carbon spheres by hydrothermal carbonization process for high-performance electrochemical capacitors. Journal of Applied Electrochemistry, 2018, 48, 233-241.	1.5	27
752	Hierarchically porous nitrogen-doped carbon derived from the activation of agriculture waste by potassium hydroxide and urea for high-performance supercapacitors. Journal of Power Sources, 2018, 378, 579-588.	4.0	246
753	Enhanced electrochemical performances of agglomeration-free LaMnO3 perovskite nanoparticles and achieving high energy and power densities with symmetric supercapacitor design. Chemical Engineering Journal, 2018, 338, 147-156.	6.6	83
754	Polymer nanosheets derived porous carbon nanosheets as high efficient electrocatalysts for oxygen reduction reaction. Journal of Colloid and Interface Science, 2018, 516, 9-15.	5.0	13
755	Nitrogen-Doped Porous Carbons Derived from Polypyrrole-Based Aerogels for Gas Uptake and Supercapacitors. ACS Applied Nano Materials, 2018, 1, 609-616.	2.4	46
756	Observation of High Capacitance from Molecular Gd@C₈₂ in Aqueous Electrolyte Derived from Energyâ€Level Matching with Proton. Advanced Materials Interfaces, 2018, 5, 1800240.	1.9	5
757	Nitrogen and Sulfur Self-Doped Activated Carbon Directly Derived from Elm Flower for High-Performance Supercapacitors. ACS Omega, 2018, 3, 4724-4732.	1.6	122

#	Article	IF	Citations
758	Nitrogen-doped graphitic hierarchically porous carbon nanofibers obtained via bimetallic-coordination organic framework modification and their application in supercapacitors. Dalton Transactions, 2018, 47, 7316-7326.	1.6	27
759	Heteroatom-doped porous carbons derived from moxa floss of different storage years for supercapacitors. RSC Advances, 2018, 8, 16433-16443.	1.7	4
760	Negative electrode materials of molybdenum nitride/N-doped carbon nano-fiber via electrospinning method for high-performance supercapacitors. Electrochimica Acta, 2018, 277, 41-49.	2.6	60
761	Bioconcentration of organic dyes via fungal hyphae and their derived carbon fibers for supercapacitors. Journal of Materials Chemistry A, 2018, 6, 10710-10717.	5.2	54
762	Green Synthesis of Three-Dimensional MnO₂/Graphene Hydrogel Composites as a High-Performance Electrode Material for Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 16474-16481.	4.0	147
763	Facile Preparation of Self-Standing Hierarchical Porous Nitrogen-Doped Carbon Fibers for Supercapacitors from Plant Proteinâ€"Lignin Electrospun Fibers. ACS Omega, 2018, 3, 4647-4656.	1.6	38
764	Template-free synthesis of nitrogen-doped hierarchical porous carbon for supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2018, 29, 9673-9682.	1.1	4
765	Highly nitrogen doped carbon nanofibers with superior rate capability and cyclability for potassium ion batteries. Nature Communications, 2018, 9, 1720.	5.8	871
766	Melamine as a single source for fabrication of mesoscopic 3D composites of N-doped carbon nanotubes on graphene. RSC Advances, 2018, 8, 12157-12164.	1.7	23
767	Nanosized graphitic carbon with balanced micro/mesoporosity for robust supercapacitor with superior volumetric capacitance and cyclic performance. Electrochimica Acta, 2018, 271, 406-416.	2.6	25
768	Nitrogen-rich hollow carbon spheres decorated with FeCo/fluorine-rich carbon for high performance symmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 7522-7531.	5.2	33
769	Heteroatom-doped carbonaceous electrode materials for high performance energy storage devices. Sustainable Energy and Fuels, 2018, 2, 1398-1429.	2.5	59
770	Hierarchical porous carbon materials from nanosized metal-organic complex for high-performance symmetrical supercapacitor. Electrochimica Acta, 2018, 269, 580-589.	2.6	47
771	N-Doped hierarchically porous carbon derived from heterogeneous coreâ€"shell ZIF-L(Zn)@ZIF-67 for supercapacitor application. New Journal of Chemistry, 2018, 42, 6719-6726.	1.4	53
772	Large scale production of polyacrylonitrile-based porous carbon nanospheres for asymmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 6891-6903.	5.2	21
773	High electrochemical capacitor performance of oxygen and nitrogen enriched activated carbon derived from the pyrolysis and activation of squid gladius chitin. Journal of Power Sources, 2018, 386, 66-76.	4.0	116
774	N/P co-doped hierarchical porous carbon materials for superior performance supercapacitors. Electrochimica Acta, 2018, 271, 49-57.	2.6	91
775	Self-assembled 3D N-CNFs/V2O5 aerogels with core/shell nanostructures through vacancies control and seeds growth as an outstanding supercapacitor electrode material. Carbon, 2018, 132, 667-677.	5.4	68

#	Article	IF	Citations
776	Electrochemical capacitors using nitrogen-doped vertically aligned multi-walled carbon nanotube electrodes prepared by defluorination. Carbon, 2018, 132, 539-547.	5.4	13
777	Hydrothermal Synthesis and Electrochemical Properties of CoS₂â€"Reduced Graphene Oxide Nanocomposite for Supercapacitor Application. International Journal of Nanoscience, 2018, 17, 1760020.	0.4	18
778	Mechanically robust and highly compressible electrochemical supercapacitors from nitrogen-doped carbon aerogels. Carbon, 2018, 127, 236-244.	5.4	99
779	Electrospun mulberry-like hierarchical carbon fiber web for high-performance supercapacitors. Journal of Colloid and Interface Science, 2018, 512, 713-721.	5.0	33
780	One-pot synthesis of nitrogen-doped ordered mesoporous carbon spheres for high-rate and long-cycle life supercapacitors. Carbon, 2018, 127, 85-92.	5.4	337
781	Nitrogen-Enriched Carbon Nanofiber Aerogels Derived from Marine Chitin for Energy Storage and Environmental Remediation. ACS Sustainable Chemistry and Engineering, 2018, 6, 177-185.	3.2	83
782	MOF-derived N-doped carbon bubbles on carbon tube arrays for flexible high-rate supercapacitors. Energy Storage Materials, 2018, 10, 75-84.	9.5	150
783	Application of yolkâ€"shell Fe3O4@N-doped carbon nanochains as highly effective microwave-absorption material. Nano Research, 2018, 11, 1500-1519.	5.8	321
784	Chestnut shell-like Li4Ti5O12 hollow spheres for high-performance aqueous asymmetric supercapacitors. Chemical Engineering Journal, 2018, 332, 253-259.	6.6	78
785	Preparation and one-step activation of nanoporous ultrafine carbon fibers derived from polyacrylonitrile/cellulose blend for used as supercapacitor electrode. Journal of Materials Science, 2018, 53, 4527-4539.	1.7	21
786	Activated carbon derived from chitosan as air cathode catalyst for high performance in microbial fuel cells. Journal of Power Sources, 2018, 378, 1-9.	4.0	57
787	Hierarchical porous nitrogen-doped carbon beads derived from biosourced chitosan polymer. Microporous and Mesoporous Materials, 2018, 263, 42-52.	2.2	29
788	Amino acid-mediated N-doped graphene aerogels and its electrochemical properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 228, 198-205.	1.7	26
789	Electrochemical capacitive energy storage in PolyHIPE derived nitrogen enriched hierarchical porous carbon nanosheets. Carbon, 2018, 128, 287-295.	5.4	47
790	Porous carbon with interpenetrating framework from Osmanthus flower as electrode materials for high-performance supercapacitor. Journal of Environmental Chemical Engineering, 2018, 6, 258-265.	3.3	35
791	N-doped graphdiyne for high-performance electrochemical electrodes. Nano Energy, 2018, 44, 144-154.	8.2	182
792	Extraordinary Porous Few-Layer Carbons of High Capacitance from Pechini Combustion of Magnesium Nitrate Gel. ACS Applied Materials & Interfaces, 2018, 10, 381-388.	4.0	13
793	One-step radiolytic synthesis of heteroatom (N and S) co-doped graphene for supercapacitors. Electrochimica Acta, 2018, 259, 587-597.	2.6	91

#	Article	IF	Citations
794	All-solid-state asymmetric supercapacitor based on N-doped activated carbon derived from polyvinylidene fluoride and ZnCo2O4 nanosheet arrays. Journal of Materials Science: Materials in Electronics, 2018, 29, 2120-2130.	1.1	10
795	Solution synthesis of CuSbS 2 nanocrystals: A new approach to control shape and size. Journal of Alloys and Compounds, 2018, 736, 190-201.	2.8	17
796	Facile synthesis of nitrogen-containing porous carbon as electrode materials for superior-performance electrical double-layer capacitors. Journal of Materials Science, 2018, 53, 2137-2148.	1.7	17
797	Nanocrystalline celluloses-assisted preparation of hierarchical carbon monoliths for hexavalent chromium removal. Journal of Colloid and Interface Science, 2018, 510, 77-85.	5.0	22
798	Conducting Polymer Nanostructures and their Derivatives for Flexible Supercapacitors. Israel Journal of Chemistry, 2018, 58, 1299-1314.	1.0	40
799	Nitrogen-doped micro-nano carbon spheres with multi-scale pore structure obtained from interpenetrating polymer networks for electrochemical capacitors. RSC Advances, 2018, 8, 35083-35093.	1.7	3
800	Introducing catalytic gasification into chemical activation for the conversion of natural coal into hierarchically porous carbons with broadened pore size for enhanced supercapacitive utilization. RSC Advances, 2018, 8, 37880-37889.	1.7	9
801	Bioresource derived porous carbon from cottonseed hull for removal of triclosan and electrochemical application. RSC Advances, 2018, 8, 42405-42414.	1.7	15
802	Amphiphilic spherical nanoparticles with a nitrogen-enriched carbon-like surface by using Î²-lactoglobulin as a template. Chemical Communications, 2018, 54, 13204-13207.	2.2	8
803	Potassium Dual-Ion Hybrid Batteries with Ultrahigh Rate Performance and Excellent Cycling Stability. ACS Applied Materials & Interfaces, 2018, 10, 42294-42300.	4.0	52
804	Dopamine Assisted One-Step Pyrolysis of Glucose for the Preparation of Porous Carbon with A High Surface Area. Nanomaterials, 2018, 8, 854.	1.9	11
805	In Situ Constructing Flexible V₂O₅@GO Composite Thin Film Electrode for Superior Electrochemical Energy Storage. Journal of the Electrochemical Society, 2018, 165, A3738-A3747.	1.3	21
806	Selection of Carbon Electrode Materials. Interface Science and Technology, 2018, , 65-83.	1.6	12
807	N/P Codoped Porous Carbon-Coated Graphene Nanohybrid as a High-Performance Electrode for Supercapacitors. ACS Applied Nano Materials, 2018, 1, 6742-6751.	2.4	33
808	Biomassâ€derived Nitrogen and Phosphorus Coâ€doped Hierarchical Micro/mesoporous Carbon Materials for Highâ€performance Nonâ€enzymatic H₂O₂ Sensing. Electroanalysis, 2019, 31, 527-534.	1.5	12
809	Hierarchically Interconnected N-Doped Carbon Aerogels Derived from Cellulose Nanofibrils as High Performance and Stable Electrodes for Supercapacitors. Journal of Physical Chemistry C, 2018, 122, 23852-23860.	1.5	30
810	Synthesis of coaxial carbon@NiMoO₄ composite nanofibers for supercapacitor electrodes. RSC Advances, 2018, 8, 32979-32984.	1.7	19
811	Freeâ€Standing Electrodes Derived from Metalâ€“Organic Frameworks/ Nanofibers Hybrids for Membrane Capacitive Deionization. Advanced Materials Technologies, 2018, 3, 1800135.	3.0	41

#	Article	IF	Citations
812	Flexible Nitrogenâ€Doped 2D Titanium Carbides (MXene) Films Constructed by an Ex Situ Solvothermal Method with Extraordinary Volumetric Capacitance. Advanced Energy Materials, 2018, 8, 1802087.	10.2	205
813	N-doped hierarchically micro- and mesoporous carbons with superior performance in supercapacitors. Electrochimica Acta, 2018, 291, 103-113.	2.6	40
814	Tuning the structure of three dimensional nanostructured molybdenum disulfide/nitrogen-doped carbon composite for high lithium storage. Electrochimica Acta, 2018, 291, 197-205.	2.6	8
815	Magnetic-field assisted synthesis of carbon dots-doped polyaniline nanotubes with a high-performance supercapacitance. Synthetic Metals, 2018, 246, 23-30.	2.1	5
816	High-Performance Supercapacitor Based on Nitrogen and Phosphorus Co-Doped Nonporous Polybenzoxazine-Based Carbon Electrodes. Journal of the Electrochemical Society, 2018, 165, A3313-A3320.	1.3	23
817	Metal oxides in supercapacitors. , 2018, , 169-203.		38
818	Highâ€"performance Activated Carbons Prepared by KOH Activation of Gulfweed for Supercapacitors. International Journal of Electrochemical Science, 2018, 13, 1728-1743.	0.5	44
819	A high-performance carbon-carbon(C/C) Quasi-Solid-State Supercapacitor with Conducting Gel Electrolyte. International Journal of Electrochemical Science, 2018, 13, 2530-2543.	0.5	13
820	Synthesis of High Surface Area Carbon Nanospheres with Wrinkled Cages and Their CO₂ Capture Studies. ChemistrySelect, 2018, 3, 10684-10688.	0.7	12
821	Self-template and self-activation synthesis of nitrogen-doped hierarchical porous carbon for supercapacitors. Journal of Power Sources, 2018, 405, 132-141.	4.0	97
822	ZIF-8 nanocrystals derived N-doped carbon decorated graphene sheets for symmetric supercapacitors. Electrochimica Acta, 2018, 289, 494-502.	2.6	65
823	Understanding the Roles of Sulfur Doping for Enhancing of Hydrophilicity and Electrochemical Performance of N,S-Codoped Hierarchically Porous Carbon. ACS Applied Energy Materials, 0, , .	2.5	5
824	Self-Templated Synthesis of Hierarchically Porous N-Doped Carbon Derived from Biomass for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 13932-13939.	3.2	58
825	Electrochemical Material Processing via Continuous Chargeâ€Discharge Cycling: Enhanced Performance upon Cycling for Porous LaMnO₃ Perovskite Supercapacitor Electrodes. ChemElectroChem, 2018, 5, 3723-3730.	1.7	23
826	Tuning the Electrochemical Properties of Nitrogen-Doped Carbon Aerogels in a Blend of Ammonia and Nitrogen Gases. ACS Applied Energy Materials, 2018, 1, 5043-5053.	2.5	21
827	In Situ Doping Boron Atoms into Porous Carbon Nanoparticles with Increased Oxygen Graft Enhances both Affinity and Durability toward Electrolyte for Greatly Improved Supercapacitive Performance. Advanced Functional Materials, 2018, 28, 1804190.	7.8	149
828	A biomass-derived nitrogen-doped porous carbon for high-energy supercapacitor. Carbon, 2018, 140, 404-412.	5.4	102
829	Emerging Carbonâ€Nanofiber Aerogels: Chemosynthesis versus Biosynthesis. Angewandte Chemie - International Edition, 2018, 57, 15646-15662.	7.2	92

#	Article	IF	Citations
830	Kohlenstoffnanofaserâ€Aerogele: Vergleich von Chemosynthese und Biosynthese. Angewandte Chemie, 2018, 130, 15872-15889.	1.6	8
831	Large-scale synthesis of porous carbon via one-step CuCl₂ activation of rape pollen for high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 12046-12055.	5.2	126
832	Hierarchical porous carbons from a sodium alginate/bacterial cellulose composite for high-performance supercapacitor electrodes. Applied Surface Science, 2018, 455, 795-807.	3.1	52
833	Synthesis of mesoporous tubular carbon using natural tubular Halloysite as template for supercapacitor. Journal of Materials Science: Materials in Electronics, 2018, 29, 12187-12194.	1.1	9
834	Template-Oriented Synthesis of Nitrogen-Enriched Porous Carbon Nanowhisker by Hollow TiO₂ Spheres Nanothorns for Methanol Electrooxidation. ACS Applied Energy Materials, 2018, 1, 2758-2768.	2.5	18
835	Gyroidal Porous Carbon Activated with NH₃ or CO₂ as Lithiumâ^'Sulfur Battery Cathodes. Batteries and Supercaps, 2018, 1, 83-94.	2.4	11
836	Carbon aerogel-based supercapacitors modified by hummers oxidation method. Journal of Colloid and Interface Science, 2018, 527, 25-32.	5.0	34
837	Facile synthesis of a BiFeO3/nitrogen-doped graphene nanocomposite system with enhanced photocatalytic activity. Journal of Physics and Chemistry of Solids, 2018, 121, 8-16.	1.9	27
838	Turning gelidium amansii residue into nitrogen-doped carbon nanofiber aerogel for enhanced multiple energy storage. Carbon, 2018, 137, 31-40.	5.4	48
839	Highly nitrogen-doped graphitic carbon fibers from sustainable plant protein for supercapacitor. Industrial Crops and Products, 2018, 121, 226-235.	2.5	47
840	Camellia pollen-derived carbon for supercapacitor electrode material. Journal of Power Sources, 2018, 394, 9-16.	4.0	83
841	Enhanced electrochemical performances of heteroatom-enriched carbon with hierarchical pores prepared by trehalose as a pore-forming agent and a simple one-step carbonization/activation process for supercapacitors. Journal of Materials Science: Materials in Electronics, 2018, 29, 10689-10701.	1.1	6
842	Facile preparation of nitrogen-enriched hierarchical porous carbon nanofibers by Mg(OAc)2-assisted electrospinning for flexible supercapacitors. Applied Surface Science, 2018, 456, 827-834.	3.1	29
843	CO2-activated porous self-templated N-doped carbon aerogel derived from banana for high-performance supercapacitors. Applied Surface Science, 2018, 457, 477-486.	3.1	118
844	The way to improve the energy density of supercapacitors: Progress and perspective. Science China Materials, 2018, 61, 1517-1526.	3.5	102
845	Sustainable nitrogen-rich hierarchical porous carbon nest for supercapacitor application. Carbohydrate Polymers, 2018, 198, 364-374.	5.1	33
846	Nitrogen-enriched carbon spheres coupled with graphitic carbon nitride nanosheets for high performance supercapacitors. Dalton Transactions, 2018, 47, 9724-9732.	1.6	19
847	Synthesis of ZnO/activated carbon with high surface area for supercapacitor electrodes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 482-490.	2.3	55

#	Article	IF	Citations
848	Lignin-based hierarchical porous carbon nanofiber films with superior performance in supercapacitors. Applied Surface Science, 2018, 456, 568-576.	3.1	110
849	Coal tar pitch derived N-doped porous carbon nanosheets by the in-situ formed g-C3N4 as a template for supercapacitor electrodes. Electrochimica Acta, 2018, 283, 132-140.	2.6	92
850	Efficient synthesis of nitrogen and oxygen co-doped hierarchical porous carbons derived from soybean meal for high-performance supercapacitors. Journal of Alloys and Compounds, 2018, 766, 705-715.	2.8	33
851	Heteroatom-doped porous carbon electrodes derived from a carbonyl-based aromatic porous polymer for supercapacitors. Synthetic Metals, 2018, 243, 115-120.	2.1	17
852	One-pot synthesis of g-C₃N₄/MnO₂ and g-C₃N₄/SnO₂ hybrid nanocomposites for supercapacitor applications. Sustainable Energy and Fuels, 2018, 2, 2244-2251.	2.5	88
853	Highly Tunable and Facile Synthesis of Uniform Carbon Flower Particles. Journal of the American Chemical Society, 2018, 140, 10297-10304.	6.6	86
854	Nitrogenâ€Doped Porous Carbon Derived from Carbazoleâ€Substituted Tetraphenylethyleneâ€Based Hypercrosslinked Polymer for Highâ€Performance Supercapacitor. ChemistrySelect, 2018, 3, 8483-8490.	0.7	18
855	Transition metalâ€"assisted carbonization of small organic molecules toward functional carbon materials. Science Advances, 2018, 4, eaat0788.	4.7	172
856	Graphitic carbon nitride modified graphene/Ni Al layered double hydroxide and 3D functionalized graphene for solid-state asymmetric supercapacitors. Chemical Engineering Journal, 2018, 353, 824-838.	6.6	59
857	Microporosityâ€Controlled Synthesis of Heteroatom Codoped Carbon Nanocages by Wrapâ€Bakeâ€Sublime Approach for Flexible Allâ€Solidâ€Stateâ€Supercapacitors. Advanced Functional Materials, 2018, 28, 1803786.	7.8	92
858	N,Oâ€Codoped Hierarchically Porous Carbons Derived from Squid Pen for Highâ€Capacity Supercapacitors. ChemistrySelect, 2018, 3, 8144-8150.	0.7	4
859	High performance carbon supercapacitor electrodes derived from a triazine-based covalent organic polymer with regular porosity. Electrochimica Acta, 2018, 284, 98-107.	2.6	43
860	Synthesis of mesoporous ribbon-shaped graphitic carbon nanofibers with superior performance as efficient supercapacitor electrodes. Electrochimica Acta, 2018, 292, 364-373.	2.6	30
861	Direct synthesis of graphene-based hybrid films as flexible supercapacitor electrodes. Synthetic Metals, 2018, 244, 99-105.	2.1	3
862	PVP-assisted synthesis of nitrogen-doped hollow carbon spheres for supercapacitors. Journal of Alloys and Compounds, 2018, 768, 42-48.	2.8	38
863	Recent advances in 2-D nanostructured metal nitrides, carbides, and phosphides electrodes for electrochemical supercapacitors â€" A brief review. Journal of Industrial and Engineering Chemistry, 2018, 67, 12-27.	2.9	111
864	Carbon nanomaterial-enabled pesticide biosensors: Design strategy, biosensing mechanism, and practical application. TrAC - Trends in Analytical Chemistry, 2018, 106, 62-83.	5.8	131
865	Marine and Freshwater Feedstocks as a Precursor for Nitrogen-Containing Carbons: A Review. Marine Drugs, 2018, 16, 142.	2.2	11

#	Article	IF	Citations
866	Nitrogen-Doped Hierarchical Porous Carbon from Wheat Straw for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 11595-11605.	3.2	123
867	Electrochemical performance of polyaniline-derivated nitrogen-doped carbon nanowires. Electrochimica Acta, 2018, 283, 1618-1631.	2.6	33
868	Hierarchical Titanium Dioxide Nanowire/Metalâ€"Organic Framework/Carbon Nanofiber Membranes for Highly Efficient Photocatalytic Degradation of Hydrogen Sulfide. Chemistry - A European Journal, 2018, 24, 15019-15025.	1.7	25
869	Surface modification of biomass-derived hard carbon by grafting porous carbon nanosheets for high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 15954-15960.	5.2	216
870	Nanoimprint lithography of nanoporous carbon materials for micro-supercapacitor architectures. Nanoscale, 2018, 10, 10109-10115.	2.8	51
871	Absorption of Ethylene on Membranes Containing Potassium Permanganate Loaded into Alumina-Nanoparticle-Incorporated Alumina/Carbon Nanofibers. Journal of Agricultural and Food Chemistry, 2018, 66, 5635-5643.	2.4	32
872	Hierarchically Macroporous Graphitic Nanowebs Exhibiting Ultra-fast and Stable Charge Storage Performance. Nanoscale Research Letters, 2018, 13, 36.	3.1	3
873	Electrochemical and photocatalytic investigation of nickel oxide for energy storage and wastewater treatment. Research on Chemical Intermediates, 2018, 44, 5653-5667.	1.3	24
874	Improvement in the pore structure of gulfweedâ€"based activated carbon via twoâ€"step acid treatment for high performance supercapacitors. Journal of Electroanalytical Chemistry, 2018, 820, 103-110.	1.9	17
875	Rollâ€toâ€Roll Production of Graphitic Petals on Carbon Fiber Tow. Advanced Engineering Materials, 2018, 20, 1800004.	1.6	13
876	Fast supercapacitors based on vertically oriented MoS2 nanosheets on plasma pyrolyzed cellulose filter paper. Journal of Power Sources, 2018, 400, 277-283.	4.0	46
877	Nitrogen-oxygen co-doped corrugation-like porous carbon for high performance supercapacitor. Frontiers of Materials Science, 2018, 12, 283-291.	1.1	7
878	Novel collagen waste derived Mn-doped nitrogen-containing carbon for supercapacitors. Electrochimica Acta, 2018, 285, 292-300.	2.6	35
879	Elaborate construction of N/S-co-doped carbon nanobowls for ultrahigh-power supercapacitors. Journal of Materials Chemistry A, 2018, 6, 17653-17661.	5.2	102
880	Temperature-induced hierarchical Tremella-like and Pinecone-like NiO microspheres for high-performance supercapacitor electrode materials. Journal of Materials Science, 2018, 53, 12477-12491.	1.7	19
881	3Dâ€Ridge Stocked Layers of Nitrogenâ€Doped Mesoporous Carbon Nanosheets for Ultrasensitive Monitoring of Dopamine Released from PC12 Cells under K⁺ Stimulation. Advanced Healthcare Materials, 2018, 7, e1701459.	3.9	53
882	2.21 Supercapacitors. , 2018, , 663-695.		8
883	A novel strategy for the high performance supercapacitor based on polyacrylonitrile-derived porous nanofibers as electrode and separator in ionic liquid electrolyte. Electrochimica Acta, 2018, 282, 97-104.	2.6	48

#	Article	IF	Citations
884	Towards enhanced energy density of graphene-based supercapacitors: Current status, approaches, and future directions. Journal of Power Sources, 2018, 396, 182-206.	4.0	111
885	Nitrogen-doped porous carbons with ultrahigh specific surface area as bifunctional materials for dye removal of wastewater and supercapacitors. Applied Surface Science, 2018, 456, 184-194.	3.1	47
886	Improved hydrothermal stability of Pd nanoparticles on nitrogen-doped carbon supports. Catalysis Science and Technology, 2018, 8, 3548-3561.	2.1	20
887	Facile synthesis of chitosan-based carbon with rich porous structure for supercapacitor with enhanced electrochemical performance. Journal of Electroanalytical Chemistry, 2018, 823, 563-572.	1.9	50
888	Nitrogenâ€Decorated Porous Carbon Supported AgPd Nanoparticles for Boosting Hydrogen Generation from Formic Acid. Energy Technology, 2019, 7, 140-145.	1.8	30
889	Enhanced electrochemical performance of porous Co-doped TiO2 nanomaterials prepared by a solvothermal method. Microporous and Mesoporous Materials, 2019, 273, 148-155.	2.2	98
890	Multiscale Porous Carbon Nanomaterials for Applications in Advanced Rechargeable Batteries. Batteries and Supercaps, 2019, 2, 9-36.	2.4	56
891	Microwave/freeze casting assisted fabrication of carbon frameworks derived from embedded upholder in tremella for superior performance supercapacitors. Energy Storage Materials, 2019, 18, 447-455.	9.5	70
892	New comprehensions on structure superiority of asymmetric carbon membrane and controlled construction of advanced hierarchical inner-structure for high performance supercapacitors. Microporous and Mesoporous Materials, 2019, 275, 14-25.	2.2	30
893	Preparation of stable composite porous nanofibers carried SnOx-ZnO as a flexible supercapacitor material with excellent electrochemical and cycling performance. Journal of Alloys and Compounds, 2019, 807, 151652.	2.8	20
894	High Entropy Oxidesâ€"A Cost-Effective Catalyst for the Growth of High Yield Carbon Nanotubes and Their Energy Applications. ACS Applied Materials & Interfaces, 2019, 11, 30846-30857.	4.0	72
895	Indium tin oxide nanowires as voltage self-stabilizing supercapacitor electrodes. Journal of Materials Research, 2019, 34, 3195-3203.	1.2	5
896	Component Degradation-Enabled Preparation of Biomass-Based Highly Porous Carbon Materials for Energy Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 15259-15266.	3.2	36
897	Carbon-based catalysts for electrochemical CO₂ reduction. Sustainable Energy and Fuels, 2019, 3, 2890-2906.	2.5	67
898	Ultra-high nitrogen content biomass carbon supercapacitors and nitrogen forms analysis. Journal of Alloys and Compounds, 2019, 809, 151664.	2.8	36
899	Architectural design and promises of carbon materials for energy conversion and storage: in laboratory and industry. , 2019, , 25-61.		8
900	Li-Ion Capacitor Integrated with Nano-network-Structured Ni/NiO/C Anode and Nitrogen-Doped Carbonized Metalâ€"Organic Framework Cathode with High Power and Long Cyclability. ACS Applied Materials & Interfaces, 2019, 11, 30694-30702.	4.0	46
901	Nanocellulose applications in sustainable electrochemical and piezoelectric systems: A review. Carbohydrate Polymers, 2019, 224, 115149.	5.1	61

#	Article	IF	Citations
902	Nitrogen-doped hierarchical porous carbons prepared via freeze-drying assisted carbonization for high-performance supercapacitors. Applied Surface Science, 2019, 496, 143643.	3.1	26
903	Bark-Based 3D Porous Carbon Nanosheet with Ultrahigh Surface Area for High Performance Supercapacitor Electrode Material. ACS Sustainable Chemistry and Engineering, 2019, 7, 13827-13835.	3.2	63
904	Tamarind shell derived N-doped carbon for capacitive deionization (CDI) studies. Journal of Electroanalytical Chemistry, 2019, 848, 113307.	1.9	25
905	High-capacitance supercapacitor based on nitrogen-doped porous carbons-sandwiched graphene hybrid frameworks. Ionics, 2019, 25, 6017-6023.	1.2	7
906	Harvesting Biomass-Based Niâ€"N Doped Carbonaceous Materials with High Capacitance by Fast Pyrolysis of Ni Enriched Spent Wetland Biomass. Industrial & Engineering Chemistry Research, 2019, 58, 13868-13878.	1.8	17
907	Boosting the performance of supercapacitors based hierarchically porous carbon from natural Juncus effuses by incorporation of MnO2. Journal of Alloys and Compounds, 2019, 805, 822-830.	2.8	30
908	Carbothermal process-derived porous N-doped carbon for flexible energy storage: Influence of carbon surface area and conductivity. Chemical Engineering Journal, 2019, 378, 122158.	6.6	19
909	Facile Preparation of 2D Nitrogen and Sulfur Co-Doped Porous Carbon Nanosheets for High-Performance Supercapacitors. Journal of the Electrochemical Society, 2019, 166, A2459-A2466.	1.3	2
910	Carbon-Based Composites for Supercapacitor. , 0, , .		7
911	Interfacial Engineering of Nickel Boride/Metaborate and Its Effect on High Energy Density Asymmetric Supercapacitors. ACS Nano, 2019, 13, 9376-9385.	7.3	129
912	Sustainable synthesis of N/S-doped porous carbon sheets derived from waste newspaper for high-performance asymmetric supercapacitor. Materials Research Express, 2019, 6, 095605.	0.8	9
913	Buckled Amorphous Hollow Carbon Spheres: Facile Fabrication, Buckling Process, and Applications as Electrode Materials for Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 30116-30124.	4.0	14
914	Nitrogen/sulfur co-doped ordered carbon nanoarrays for superior sulfur hosts in lithium-sulfur batteries. Journal of Colloid and Interface Science, 2019, 554, 711-721.	5.0	41
915	Interconnected nanoporous carbon structure delivering enhanced mass transport and conductivity toward exceptional performance in supercapacitor. Journal of Power Sources, 2019, 435, 226811.	4.0	24
916	Hierarchical porous carbon with optimized mesopore structure and nitrogen doping for supercapacitor electrodes. Microporous and Mesoporous Materials, 2019, 288, 109576.	2.2	38
917	Enhancing Lithium Insertion with Electrostatic Nanoconfinement in a Lithography Patterned Precision Cell. ACS Nano, 2019, 13, 8481-8489.	7.3	3
918	Frequency-Dependent Effective Capacitance of Supercapacitors Using Electrospun Cobalt-Carbon Composite Nanofibers. Journal of the Electrochemical Society, 2019, 166, A2403-A2408.	1.3	6
919	Achieving high-energy-density and ultra-stable zinc-ion hybrid supercapacitors by engineering hierarchical porous carbon architecture. Electrochimica Acta, 2019, 327, 134999.	2.6	116

#	Article	IF	Citations
920	Nanowire Genome: A Magic Toolbox for 1D Nanostructures. Advanced Materials, 2019, 31, e1902807.	11.1	44
921	Low-frequency noise suppression for desert seismic data based on a wide inference network. Journal of Geophysics and Engineering, 2019, 16, 801-810.	0.7	7
922	Review: new insights into optimizing chemical and 3D surface structures of carbon electrodes for neurotransmitter detection. Analytical Methods, 2019, 11, 247-261.	1.3	68
923	Nitrogen-rich hierarchical porous carbon materials with interconnected channels for high stability supercapacitors. New Journal of Chemistry, 2019, 43, 1864-1873.	1.4	6
924	Thermally Durable Lithiumâ€Ion Capacitors with High Energy Density from All Hydroxyapatite Nanowireâ€Enabled Fireâ€Resistant Electrodes and Separators. Advanced Energy Materials, 2019, 9, 1902497.	10.2	34
925	Direct Fabrication of Reduced Graphene Oxide@SnO2 Hollow Nanofibers by Single-Capillary Electrospinning as Fast NO2 Gas Sensor. Journal of Nanomaterials, 2019, 2019, 1-7.	1.5	3
926	Engineering Redox Activity in Conjugated Microporous Polytriphenylamine Networks Using Pyridyl Building Blocks toward Efficient Supercapacitors. Macromolecular Rapid Communications, 2019, 40, e1900455.	2.0	35
927	The mechanistic actions of different silver species at the surfaces of polyacrylonitrile nanofibers regarding antibacterial activities. Materials Today Communications, 2019, 21, 100622.	0.9	15
928	Nitrogen-rich porous carbon modified electrochemical sensor for the detection of acetaminophen. Journal of Electroanalytical Chemistry, 2019, 855, 113496.	1.9	26
929	Macroscopic synthesis of ultrafine Nâ€"doped carbon nanofibers for superior capacitive energy storage. Science Bulletin, 2019, 64, 1617-1624.	4.3	66
930	Using FeCl₃ as a Solvent, Template, and Activator To Prepare B, N Co-Doping Porous Carbon with Excellent Supercapacitance. ACS Sustainable Chemistry and Engineering, 2019, 7, 15983-15994.	3.2	48
931	N-Doped Hierarchical Continuous Hollow Thin Porous Carbon Nanostructure for High-Performance Flexible Gel-Type Symmetric Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 17020-17029.	3.2	9
932	One-pot synthesis of activated porous graphitic carbon spheres with cobalt nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 582, 123884.	2.3	11
933	CuO nanoparticles derived from metal-organic gel with excellent electrocatalytic and peroxidase-mimicking activities for glucose and cholesterol detection. Biosensors and Bioelectronics, 2019, 145, 111704.	5.3	68
934	Biomass derived carbon as binder-free electrode materials for supercapacitors. Carbon, 2019, 155, 706-726.	5.4	273
935	Nitrogen-doped grapheneâ€"TiO_xN_y nanocomposite electrode for highly efficient capacitive deionization. RSC Advances, 2019, 9, 28186-28193.	1.7	8
936	Three-dimensional nitrogen and phosphorus co-doped carbon quantum dots/reduced graphene oxide composite aerogels with a hierarchical porous structure as superior electrode materials for supercapacitors. Journal of Materials Chemistry A, 2019, 7, 26311-26325.	5.2	175
937	Nanowires for Electrochemical Energy Storage. Chemical Reviews, 2019, 119, 11042-11109.	23.0	309

#	Article	IF	Citations
938	Facile synthesis of nitrogen and oxygen co-doped C@Ti3C2 MXene for high performance symmetric supercapacitors. Journal of Power Sources, 2019, 439, 227068.	4.0	109
939	Bimetallic-organic coordination polymers to prepare N-doped hierarchical porous carbon for high performance supercapacitors. Progress in Natural Science: Materials International, 2019, 29, 495-503.	1.8	15
940	Making Porous Materials Respond to Visible Light. ACS Energy Letters, 2019, 4, 2656-2667.	8.8	18
941	A high-energy sodium-ion capacitor enabled by a nitrogen/sulfur co-doped hollow carbon nanofiber anode and an activated carbon cathode. Nanoscale Advances, 2019, 1, 746-756.	2.2	24
942	Synthesis of n-doped mesoporous carbon by silica assistance as electrode for supercapacitor. Journal of Materials Science: Materials in Electronics, 2019, 30, 3214-3221.	1.1	14
943	Fabrication of three-dimensional microtubular kapok fiber carbon aerogel/RuO2 composites for supercapacitors. Electrochimica Acta, 2019, 300, 225-234.	2.6	52
944	From ZIF nanoparticles to hierarchically porous carbon: toward very high surface area and high-performance supercapacitor electrode materials. Inorganic Chemistry Frontiers, 2019, 6, 32-39.	3.0	14
945	A molecular engineering approach to pore-adjustable nanoporous carbons with narrow distribution for high-performance supercapacitors. Chemical Communications, 2019, 55, 2305-2308.	2.2	24
946	Preparation of Feâ€"C nanofiber composites by metal organic complex and potential application in supercapacitors. Journal of Materials Science: Materials in Electronics, 2019, 30, 4665-4675.	1.1	10
947	Iron oxide-based nanomaterials for supercapacitors. Nanotechnology, 2019, 30, 204002.	1.3	47
948	Hierarchical Porous Carbon Spheres from Low-Density Polyethylene for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 3801-3810.	3.2	70
949	Advances in constructing polymeric carbon-nitride-based nanocomposites and their applications in energy chemistry. Sustainable Energy and Fuels, 2019, 3, 611-655.	2.5	47
950	A novel way to synthesize nitrogen doped porous carbon materials with high rate performance and energy density for supercapacitors. Journal of Alloys and Compounds, 2019, 785, 110-116.	2.8	41
951	Boron/nitrogen co-doped carbon synthesized from waterborne polyurethane and graphene oxide composite for supercapacitors. RSC Advances, 2019, 9, 1679-1689.	1.7	33
952	Multi-layered zeolitic imidazolate framework based self-templated synthesis of nitrogen-doped hollow porous carbon dodecahedrons as robust substrates for supercapacitors. New Journal of Chemistry, 2019, 43, 2171-2178.	1.4	15
953	CO2-induced architectural transition of hierarchically porous carbon in reverse microemulsion system. Carbon, 2019, 151, 18-27.	5.4	9
954	Heteroatom-doped hollow carbon spheres made from polyaniline as an electrode material for supercapacitors. RSC Advances, 2019, 9, 15868-15873.	1.7	8
955	In situ fabrication of nitrogen doped porous carbon nanorods derived from metal-organic frameworks and its application as supercapacitor electrodes. Journal of Solid State Chemistry, 2019, 277, 100-106.	1.4	21

#	Article	IF	Citations
956	N/O Codoped Porous Carbons with Layered Structure for High-Rate Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 11219-11227.	3.2	31
957	An Ecoâ€Friendly Nitrogen Source for the Preparation of Vanadium Nitride/Nitrogenâ€Doped Carbon Nanocomposites for Supercapacitors. ChemElectroChem, 2019, 6, 3445-3453.	1.7	11
958	Improved surface charge storage properties of Prosopis juliflora (pods) derived onionâ€"like porous carbon through redox-mediated reactions for electric double layer capacitors. Applied Surface Science, 2019, 492, 896-908.	3.1	30
959	Hydrothermal synthesis of nitrogen, sulfur co-doped graphene and its high performance in supercapacitor and oxygen reduction reaction. Microporous and Mesoporous Materials, 2019, 290, 109556.	2.2	44
960	A Novel Porous N- and S-Self-Doped Carbon Derived from Chinese Rice Wine Lees as High-Performance Electrode Materials in a Supercapacitor. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	17
961	Free-standing N-self-doped carbon nanofiber aerogels for high-performance all-solid-state supercapacitors. Nano Energy, 2019, 63, 103836.	8.2	178
962	Low-cost high-performance asymmetric supercapacitors based on ribbon-like Ni(OH)2 and biomass carbon nanofibers enriched with nitrogen and phosphorus. Ionics, 2019, 25, 4341-4350.	1.2	10
963	Free-standing macro-porous nitrogen doped graphene film for high energy density supercapacitor. Electrochimica Acta, 2019, 318, 865-874.	2.6	34
964	Novel Synthesis of Nitrogen-Containing Bio-Phenol Resin and Its Molten Salt Activation of Porous Carbon for Supercapacitor Electrode. Materials, 2019, 12, 1986.	1.3	14
965	Hollow Carbon Nanobelts Codoped with Nitrogen and Sulfur via a Selfâ€Templated Method for a Highâ€Performance Sodiumâ€Ion Capacitor. Small, 2019, 15, e1902659.	5.2	50
966	Comparison of ionic liquid electrolyte to aqueous electrolytes on carbon nanofibres supercapacitor electrode derived from oxygen-functionalized graphene. Chemical Engineering Journal, 2019, 375, 121906.	6.6	45
967	A N, P Dualâ€Doped Carbon with High Porosity as an Advanced Metalâ€Free Oxygen Reduction Catalyst. Advanced Materials Interfaces, 2019, 6, 1900592.	1.9	27
968	Tin-embedded carbon nanofibers as flexible and freestanding electrode materials for high-performance supercapacitors. Ionics, 2019, 25, 4875-4890.	1.2	6
969	Fabrication of Hierarchical Porous Carbon Frameworks from Metal-Ion-Assisted Step-Activation of Biomass for Supercapacitors with Ultrahigh Capacitance. ACS Sustainable Chemistry and Engineering, 2019, 7, 10763-10772.	3.2	56
970	Tuning Ni/Al Ratio to Enhance Pseudocapacitive Charge Storage Properties of Nickelâ€"Aluminum Layered Double Hydroxide. Advanced Electronic Materials, 2019, 5, 1900215.	2.6	39
971	Nanocellulose based functional materials for supercapacitor applications. Journal of Science: Advanced Materials and Devices, 2019, 4, 333-340.	1.5	47
972	Conducting Polymers Based Composite Electrode Materials in Supercapacitor Application. IOP Conference Series: Earth and Environmental Science, 2019, 267, 042047.	0.2	11
973	Rapid synthesis of nitrogen-doped hollow carbon microspheres with hierarchical macro/mesoporous shell for supercapacitors. Materials Chemistry and Physics, 2019, 232, 513-519.	2.0	8

#	Article	IF	Citations
974	Supercapacitive performance of a ternary nanocomposite based on carbon nanofibers with nanostructured chitosan and cobalt particles. Materials Chemistry and Physics, 2019, 233, 353-365.	2.0	16
975	Coreâ€"shell assembly of carbon nanofibers and a 2D conductive metalâ€"organic framework as a flexible free-standing membrane for high-performance supercapacitors. Inorganic Chemistry Frontiers, 2019, 6, 1824-1830.	3.0	70
976	Fast microwave self-activation from chitosan hydrogel bead to hierarchical and O, N co-doped porous carbon at an air-free atmosphere for high-rate electrodes material. Carbohydrate Polymers, 2019, 219, 229-239.	5.1	31
977	High Performance of Chitosan Derived Porous Carbon as Supercapacitor Electrodes. International Journal of Electrochemical Science, 2019, 14, 4034-4046.	0.5	6
978	Effective synthetic strategy for Zn_{0.76}Co_{0.24}S encapsulated in stabilized N-doped carbon nanoarchitecture towards ultra-long-life hybrid supercapacitors. Journal of Materials Chemistry A, 2019, 7, 14670-14680.	5.2	59
979	Study of the supercapacitive activity of a Eu-MOF as an electrode material. New Journal of Chemistry, 2019, 43, 9260-9264.	1.4	17
980	Bioconcentration and bioassembly of N/S co-doped carbon with excellent stability for supercapacitors. Applied Surface Science, 2019, 488, 316-325.	3.1	68
981	Synthesis of nitrogen-doped carbon spheres using the modified StÃ¶ber method for supercapacitors. Frontiers of Materials Science, 2019, 13, 156-164.	1.1	6
982	Green and facile fabrication of Cu-doped carbon aerogels from sodium alginate for supercapacitors. Organic Electronics, 2019, 70, 246-251.	1.4	39
983	Facile synthesis of nitrogen-doped carbon materials with hierarchical porous structures for high-performance supercapacitors in both acidic and alkaline electrolytes. Journal of Materials Chemistry A, 2019, 7, 13154-13163.	5.2	50
984	Enhanced Microwave Absorption Performance from Magnetic Coupling of Magnetic Nanoparticles Suspended within Hierarchically Tubular Composite. Advanced Functional Materials, 2019, 29, 1901448.	7.8	566
985	Multivalent metal ion hybrid capacitors: a review with a focus on zinc-ion hybrid capacitors. Journal of Materials Chemistry A, 2019, 7, 13810-13832.	5.2	312
986	Nitrogen-doped 3D web-like interconnected porous carbon prepared by a simple method for supercapacitors. Ionics, 2019, 25, 4333-4340.	1.2	8
987	An efficient electrode material for high performance solid-state hybrid supercapacitors based on a Cu/CuO/porous carbon nanofiber/TiO₂ hybrid composite. Beilstein Journal of Nanotechnology, 2019, 10, 781-793.	1.5	36
988	Mesoporous carbon cubes derived from fullerene crystals as a high rate performance electrode material for supercapacitors. Journal of Materials Chemistry A, 2019, 7, 12654-12660.	5.2	86
989	Hierarchical porous carbon sheets derived on a MgO template for high-performance supercapacitor applications. Nanotechnology, 2019, 30, 295703.	1.3	29
990	CO₂-Assisted synthesis of hierarchically porous carbon as a supercapacitor electrode and dye adsorbent. Inorganic Chemistry Frontiers, 2019, 6, 1141-1151.	3.0	7
991	AÂN, S dual doping strategy via electrospinning to prepare hierarchically porous carbon polyhedra embedded carbon nanofibers for flexible supercapacitors. Journal of Materials Chemistry A, 2019, 7, 9040-9050.	5.2	112

#	Article	IF	Citations
992	Constructed nitrogen and sulfur codoped multilevel porous carbon from lignin for high-performance supercapacitors. Journal of Alloys and Compounds, 2019, 789, 435-442.	2.8	45
993	Tannic Acid-Assisted Fabrication of N/B-Codoped Hierarchical Carbon Nanofibers from Electrospun Zeolitic Imidazolate Frameworks as Free-Standing Electrodes for High-Performance Supercapacitors. Journal of Electronic Materials, 2019, 48, 3050-3058.	1.0	17
994	Heteroatomâ€Doped Mesoporous Hollow Carbon Spheres for Fast Sodium Storage with an Ultralong Cycle Life. Advanced Energy Materials, 2019, 9, 1900036.	10.2	212
995	Calcium Chloride Activation of Mung Bean: A Lowâ€Cost, Green Route to Nâ€Doped Porous Carbon for Supercapacitors. ChemistrySelect, 2019, 4, 3432-3439.	0.7	21
996	Synthesis of a porous interconnected nitrogen-doped graphene aerogel matrix incorporated with ytterbium oxide nanoparticles and its application in superior symmetric supercapacitors. Electrochimica Acta, 2019, 306, 480-488.	2.6	33
997	Bi-metal organic framework nanosheets assembled on nickel wire films for volumetric-energy-dense supercapacitors. Journal of Power Sources, 2019, 423, 80-89.	4.0	50
998	A novel way to synthesize nitrogen and oxygen co-doped porous carbon for high performance supercapacitors. Microporous and Mesoporous Materials, 2019, 282, 114-120.	2.2	33
999	Wall thickness-tunable AgNPs-NCNTs for hydrogen peroxide sensing and oxygen reduction reaction. Electrochimica Acta, 2019, 306, 466-476.	2.6	25
1000	Solution Self-Assembly of an Alternating Copolymer toward Hollow Carbon Nanospheres with Uniform Micropores. ACS Macro Letters, 2019, 8, 331-336.	2.3	28
1001	Preparation and electrochemical studies of electrospun phosphorus doped porous carbon nanofibers. RSC Advances, 2019, 9, 6898-6906.	1.7	31
1002	N-doped 3D porous carbon-graphene/polyaniline hybrid and N-doped porous carbon coated gC3N4 nanosheets for excellent energy density asymmetric supercapacitors. Electrochimica Acta, 2019, 305, 264-277.	2.6	43
1003	Mass production of hierarchically porous carbon nanosheets by carbonizing â€œreal-worldâ€•mixed waste plastics toward excellent-performance supercapacitors. Waste Management, 2019, 87, 691-700.	3.7	76
1004	Biomass derived interconnected hierarchical micro-meso-macro- porous carbon with ultrahigh capacitance for supercapacitors. Carbon, 2019, 147, 540-549.	5.4	374
1005	Fast one-pot microwave preparation and plasma modification of porous carbon from waste lignin for energy storage application. Waste Management, 2019, 89, 129-140.	3.7	30
1006	Versatile Nanoemulsion Assembly Approach to Synthesize Functional Mesoporous Carbon Nanospheres with Tunable Pore Sizes and Architectures. Journal of the American Chemical Society, 2019, 141, 7073-7080.	6.6	388
1007	N-doped Carbon Coated CoO Nanowire Arrays Derived from Zeolitic Imidazolate Framework-67 as Binder-free Anodes for High-performance Lithium Storage. Scientific Reports, 2019, 9, 5934.	1.6	12
1008	Ni3ZnC0.7 nanodots decorating nitrogen-doped carbon nanotube arrays as a self-standing bifunctional electrocatalyst for water splitting. Carbon, 2019, 148, 496-503.	5.4	65
1009	Preparation of Hierarchical Porous Carbon Based on CornStraw Carbon Nanofiber as an Efficient Electrode Material for Supercapacitors. International Journal of Electrochemical Science, 2019, 14, 4020-4031.	0.5	0

#	Article	IF	Citations
1010	Novel nitrogen-doped ordered mesoporous carbon as high-performance anode material for sodium-ion batteries. Journal of Alloys and Compounds, 2019, 791, 874-882.	2.8	47
1011	Highly Hydrophilic Carbon Dots' Decoration on NiCo₂O₄ Nanowires for Greatly Increased Electric Conductivity, Supercapacitance, and Energy Density. Advanced Materials Interfaces, 2019, 6, 1900049.	1.9	14
1012	Spectroscopic Fingerprints of Graphitic, Pyrrolic, Pyridinic, and Chemisorbed Nitrogen in N-Doped Graphene. Journal of Physical Chemistry C, 2019, 123, 10695-10702.	1.5	181
1013	Camphor wood waste-derived microporous carbons as high-performance electrode materials for supercapacitors. Carbon Letters, 2019, 29, 213-218.	3.3	11
1014	Oxygen vacancies modulation in graphene/MnOx composite for high performance supercapacitors. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 569, 10-17.	2.3	22
1015	Synthesis of Ultrathin MnO2 Nanosheets/Bagasse Derived Porous Carbon Composite for Supercapacitor with High Performance. Journal of Electronic Materials, 2019, 48, 3026-3035.	1.0	14
1016	Pinecone-derived porous activated carbon for high performance all-solid-state electrical double layer capacitors fabricated with flexible gel polymer electrolytes. Electrochimica Acta, 2019, 304, 94-108.	2.6	70
1017	Progress, status and prospects of non-porous, heteroatom-doped carbons for supercapacitors and other electrochemical applications. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	13
1018	Preparation and capacitive performance of modified carbon black-doped porous carbon nanofibers. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	8
1019	Temperature-Dependent Morphologies of Precursors: Metalâ€"Organic Framework-Derived Porous Carbon for High-Performance Electrochemical Double-Layer Capacitors. Inorganic Chemistry, 2019, 58, 2856-2864.	1.9	17
1020	Yeast protein derived hierarchical mesoporous carbon for symmetrical capacitor with excellent electrochemical performances. Microporous and Mesoporous Materials, 2019, 281, 50-56.	2.2	10
1021	Carbon Nanomaterials in Renewable Energy Production and Storage Applications. Environmental Chemistry for A Sustainable World, 2019, , 51-104.	0.3	14
1022	Advanced aqueous energy storage devices based on flower-like nanosheets-assembled Ni0.85Se microspheres and porous Fe2O3 nanospheres. Electrochimica Acta, 2019, 302, 449-458.	2.6	16
1023	High density grapheneâ€"carbon nanosphere films for capacitive energy storage. Journal of Materials Chemistry A, 2019, 7, 6126-6133.	5.2	30
1024	Hierarchical porous carbon microrods derived from albizia flowers for high performance supercapacitors. Carbon, 2019, 147, 242-251.	5.4	192
1025	Study of the structure-properties relations of carbon spheres affecting electrochemical performances of EDLCs. Electrochimica Acta, 2019, 304, 210-220.	2.6	43
1026	Polymer/block copolymer blending system as the compatible precursor system for fabrication of mesoporous carbon nanofibers for supercapacitors. Journal of Power Sources, 2019, 419, 137-147.	4.0	37
1027	Deep eutectic solvents as active media for the preparation of highly conducting 3D free-standing PANI xerogels and their derived N-doped and N-, P-codoped porous carbons. Carbon, 2019, 146, 813-826.	5.4	11

#	Article	IF	Citations
1028	A facile in-situ activation of protonated histidine-derived porous carbon for electrochemical capacitive energy storage. Journal of Industrial and Engineering Chemistry, 2019, 73, 316-327.	2.9	6
1029	Natural Plant Template-Derived Cellular Framework Porous Carbon as a High-Rate and Long-Life Electrode Material for Energy Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 5845-5855.	3.2	53
1030	Novel mesoporous electrode materials for symmetric, asymmetric and hybrid supercapacitors. Nanotechnology, 2019, 30, 202001.	1.3	75
1031	Ultra-small Ni-VN nanoparticles co-embedded in N-doped carbons as an effective electrode material for energy storage. Electrochimica Acta, 2019, 302, 385-393.	2.6	15
1032	Facile synthesis of Gd and Sn co-doped BiFeO3 supported on nitrogen doped graphene for enhanced photocatalytic activity. Journal of Physics and Chemistry of Solids, 2019, 130, 222-229.	1.9	22
1033	g-C₃N₄/CuO and g-C₃N₄/Co₃O₄ nanohybrid structures as efficient electrode materials in symmetric supercapacitors. RSC Advances, 2019, 9, 38430-38437.	1.7	33
1034	Fabrication and Characterization of Electrospun Aligned Porous PAN/Graphene Composite Nanofibers. Nanomaterials, 2019, 9, 1782.	1.9	14
1035	A carbonized porous aromatic framework to achieve customized nitrogen atoms for enhanced supercapacitor performance. New Journal of Chemistry, 2019, 43, 18158-18164.	1.4	12
1036	Nitrogen self-doped porous carbon nanosheets derived from azo dye flocs for efficient supercapacitor electrodes. Carbon Letters, 2019, 29, 455-460.	3.3	3
1037	Almond Shellâ€Derived Carbons under Lowâ€Temperature Activation with Ultraâ€High Surface Area and Superior Performance for Supercapacitors. ChemistrySelect, 2019, 4, 12472-12478.	0.7	7
1038	Nitrogen-Doped Hollow Mesoporous Carbon Tube for Supercapacitors Application. Journal of the Electrochemical Society, 2019, 166, A4047-A4055.	1.3	5
1039	The Effect of Chitosanâ€™s Addition to Resorcinol/Formaldehyde Xerogels on the Characteristics of Resultant Activated Carbon. Materials, 2019, 12, 3847.	1.3	2
1040	Design of high specific surface area N-doped carbon aerogels via a microwave reduction method. Journal of Materials Science, 2019, 54, 1580-1592.	1.7	6
1041	Fe3O4 nanorods in N-doped carbon matrix with pseudo-capacitive behaviors as an excellent anode for subzero lithium-ion batteries. Journal of Alloys and Compounds, 2019, 772, 557-564.	2.8	42
1042	Photothermally Active Reduced Graphene Oxide/Bacterial Nanocellulose Composites as Biofouling-Resistant Ultrafiltration Membranes. Environmental Science & Technology, 2019, 53, 412-421.	4.6	56
1043	Nitrogen-doped carbon mesh from pyrolysis of cotton in ammonia as binder-free electrodes of supercapacitors. Microporous and Mesoporous Materials, 2019, 274, 313-317.	2.2	38
1044	Novel porous carbon nanosheet derived from a 2D Cu-MOF: Ultrahigh porosity and excellent performances in the supercapacitor cell. Carbon, 2019, 144, 540-548.	5.4	118
1045	Biobased Nitrogen- and Oxygen-Codoped Carbon Materials for High-Performance Supercapacitor. ACS Sustainable Chemistry and Engineering, 2019, 7, 2763-2773.	3.2	95

#	Article	IF	Citations
1046	Effect of graphitization degree of electrospinning carbon fiber on catalytic oxidation of styrene and electrochemical properties. Chemical Physics Letters, 2019, 715, 299-309.	1.2	12
1047	MnCo2O4@nitrogen-doped carbon nanofiber composites with meso-microporous structure for high-performance symmetric supercapacitors. Journal of Alloys and Compounds, 2019, 782, 251-262.	2.8	68
1048	Porous Organic-Polymer-Derived Nitrogen-Doped Porous Carbon Nanoparticles for Efficient Oxygen Reduction Electrocatalysis and Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 2236-2244.	3.2	31
1049	Nâ€Doped Hierarchical Porous Carbon with Openâ€Ended Structure for Highâ€Performance Supercapacitors. ChemElectroChem, 2019, 6, 1696-1703.	1.7	21
1050	Robust, Environmentally Benign Synthesis of Nanoporous Graphene Sheets from Biowaste for Ultrafast Supercapacitor Application. ACS Sustainable Chemistry and Engineering, 2019, 7, 2516-2529.	3.2	76
1051	Synthesis of Ultrahigh Surface Area of Nitrogenâ€Doped Porous Carbon Materials from Alginicâ€Based Protic Polyanion Ionic Liquids for Highâ€Performance Supercapacitors. Energy Technology, 2019, 7, 1800734.	1.8	11
1052	Nitrogen-doped porous carbon monoliths from molecular-level dispersion of carbon nanotubes into polyacrylonitrile (PAN) and the effect of carbonization process for supercapacitors. Carbon, 2019, 143, 776-785.	5.4	46
1053	Oxygen-enriched crumpled graphene-based symmetric supercapacitor with high gravimetric and volumetric performances. Journal of Electroanalytical Chemistry, 2019, 833, 119-125.	1.9	21
1054	The synthesis and electrochemical performance of NiCo₂O₄ embedded carbon nanofibers for high-performance supercapacitors. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 189-197.	1.0	22
1055	Supercapacitor Energy Storage Device Using Biowastes: A Sustainable Approach to Green Energy. Sustainability, 2019, 11, 414.	1.6	163
1056	g-C3N4 nanosheet@CoAl-layered double hydroxide composites for electrochemical energy storage in supercapacitors. Chemical Engineering Journal, 2019, 362, 743-757.	6.6	94
1057	One-step preparation of nitrogen-doped porous carbons with excellent properties for high-performance supercapacitors. Journal of Physics and Chemistry of Solids, 2019, 129, 122-127.	1.9	25
1058	Flexible all-solid planar fibrous cellulose nonwoven fabric-based supercapacitor via capillarity-assisted graphene/MnO2 assembly. Journal of Alloys and Compounds, 2019, 782, 986-994.	2.8	61
1059	Ureaâ€Modified Phenolâ€Formaldehyde Resins for the Templateâ€Assisted Synthesis of Nitrogenâ€Doped Carbon Nanosheets as Electrode Material for Supercapacitors. ChemElectroChem, 2019, 6, 885-891.	1.7	34
1060	Template-free method for fabricating carbon nanotube combined with thin N-doped porous carbon composite for supercapacitor. Journal of Materials Science, 2019, 54, 6451-6460.	1.7	25
1061	Renewableâ€Resourceâ€Based Waste Materials forÂSupercapacitorÂApplication. ChemistrySelect, 2019, 4, 492-501.	0.7	11
1062	Nitrogen-containing activated carbon of improved electrochemical performance derived from cotton stalks using indirect chemical activation. Journal of Colloid and Interface Science, 2019, 540, 285-294.	5.0	24
1063	Tuning Charge Storage Properties of Supercapacitive Electrodes Evidenced by In Situ Gravimetric and Viscoelastic Explorations. Analytical Chemistry, 2019, 91, 2885-2893.	3.2	16

#	Article	IF	Citations
1064	A Robust and Scalable Polydopamine/Bacterial Nanocellulose Hybrid Membrane for Efficient Wastewater Treatment. ACS Applied Nano Materials, 2019, 2, 1092-1101.	2.4	89
1065	Co,N-doped mesoporous carbons cobalt derived from coordination polymer as supercapacitors. Electrochimica Acta, 2019, 299, 987-998.	2.6	24
1066	Capacitance improvements of V4C3T by NH3 annealing. Journal of Alloys and Compounds, 2019, 784, 923-930.	2.8	36
1067	Creating binder-free supercapacitor electrodes from biomass resources: a nitrogen-doped pomelo peel derived carbon foam. International Journal of Nanomanufacturing, 2019, 15, 170.	0.3	2
1068	Three-Dimensional Porous Ti3C2Tx-NiO Composite Electrodes with Enhanced Electrochemical Performance for Supercapacitors. Materials, 2019, 12, 188.	1.3	44
1069	A review of performance optimization of MOF-derived metal oxide as electrode materials for supercapacitors. International Journal of Energy Research, 2019, 43, 697-716.	2.2	150
1070	Hybrid dual-functioning electrodes for combined ambient energy harvesting and charge storage: Towards self-powered systems. Biosensors and Bioelectronics, 2019, 126, 275-291.	5.3	28
1071	Facile in Situ Synthesis of Multiple-Heteroatom-Doped Carbons Derived from Polyimide Precursors for Flexible All-Solid-State Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 1996-2005.	4.0	37
1072	Facile synthesis of B/N co-doped 2D porous carbon nanosheets derived from ammonium humate for supercapacitor electrodes. Electrochimica Acta, 2019, 298, 1-13.	2.6	61
1073	Effects of Sodium Alginate on the Composition, Morphology, and Electrochemical Properties of Electrospun Carbon Nanofibers as Electrodes for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 632-640.	3.2	30
1074	An adenine-originated N-doped carbon supporting Pd3Ru nanoparticle with high performance for glycerol electrooxidation. Journal of Materials Science, 2019, 54, 4579-4588.	1.7	5
1075	Nitrogen-doped carbon materials as a promising platform toward the efficient catalysis for hydrogen generation. Applied Catalysis A: General, 2019, 571, 25-41.	2.2	61
1076	Carbon materials for high-voltage supercapacitors. Carbon, 2019, 145, 529-548.	5.4	252
1077	A self-healable and mechanical toughness flexible supercapacitor based on polyacrylic acid hydrogel electrolyte. Chemical Engineering Journal, 2019, 357, 428-434.	6.6	87
1078	Molten salt synthesis of hierarchical porous N-doped carbon submicrospheres for multifunctional applications: High performance supercapacitor, dye removal and CO2 capture. Carbon, 2019, 141, 739-747.	5.4	91
1079	Template-free preparation of nitrogen-doped activated carbon with porous architecture for high-performance supercapacitors. Microporous and Mesoporous Materials, 2019, 276, 280-291.	2.2	44
1080	Diameter effect of silver nanowire doped in activated carbon as thin film electrode for high performance supercapacitor. Applied Surface Science, 2019, 477, 257-263.	3.1	20
1081	Wet-spinning assembly of nitrogen-doped graphene film for stable graphene-polyaniline supercapacitor electrodes with high mass loading. Science China Materials, 2020, 63, 1889-1897.	3.5	9

#	Article	IF	Citations
1082	Porous nitrogen-doped MXene-based electrodes for capacitive deionization. Energy Storage Materials, 2020, 25, 731-739.	9.5	122
1083	Synthesis of nitrogen-doped flower-like carbon microspheres from urea-formaldehyde resins for high-performance supercapacitor. Journal of Alloys and Compounds, 2020, 812, 152109.	2.8	19
1084	High-voltage aqueous asymmetric pseudocapacitors based on methyl blue-doped polyaniline hydrogels and the derived N/S-codoped carbon aerogels. Chemical Engineering Journal, 2020, 383, 123153.	6.6	35
1085	Residue metals and intrinsic moisture in excess sludge improve pore formation during its carbonization process. Carbon, 2020, 156, 320-328.	5.4	30
1086	Defectâ€Rich Graphene Architecture Induced by Nitrogen and Phosphorus Dual Doping for Highâ€Performance Supercapacitors. Energy Technology, 2020, 8, 1900685.	1.8	6
1087	Facile large-scaled fabrication of graphene-like materials by ultrasonic assisted shear exfoliation method for enhanced performance on flexible supercapacitor applications. Applied Nanoscience (Switzerland), 2020, 10, 1131-1139.	1.6	6
1088	Thermal conversion of polypyrrole nanotubes to nitrogen-doped carbon nanotubes for efficient water desalination using membrane capacitive deionization. Separation and Purification Technology, 2020, 235, 116196.	3.9	45
1089	Integrated structural design of polyaniline-modified nitrogen-doped hierarchical porous carbon nanofibers as binder-free electrodes toward all-solid-state flexible supercapacitors. Applied Surface Science, 2020, 501, 144001.	3.1	25
1090	Controlling the physical and electrochemical properties of block copolymer-based porous carbon fibers by pyrolysis temperature. Molecular Systems Design and Engineering, 2020, 5, 153-165.	1.7	34
1091	Silicaâ€assisted ureaâ€formaldehydeâ€based carbon microspheres with enhanced supercapacitor performances as electrode. Journal of Applied Polymer Science, 2020, 137, 48388.	1.3	3
1092	N-activated carbon fiber produced by oxidation process design and its application as supercapacitor electrode. Journal of Porous Materials, 2020, 27, 141-149.	1.3	13
1093	Development and application of self-healing materials in smart batteries and supercapacitors. Chemical Engineering Journal, 2020, 380, 122565.	6.6	127
1094	Nitrogenâ€Doped Carbon Nanomaterials: Synthesis, Characteristics and Applications. Chemistry - an Asian Journal, 2020, 15, 2282-2293.	1.7	100
1095	Nitrogen doping polyvinylpyrrolidone-based carbon nanofibers via pyrolysis of g-C3N4 with tunable chemical states and capacitive energy storage. Electrochimica Acta, 2020, 330, 135212.	2.6	38
1096	Porous nitrogen-doped carbon/carbon nanocomposite electrodes enable sodium ion capacitors with high capacity and rate capability. Nano Energy, 2020, 67, 104240.	8.2	56
1097	Phytic acid assisted preparation of high-performance supercapacitor electrodes from noncarbonizable polyvinylpyrrolidone. Journal of Power Sources, 2020, 448, 227402.	4.0	14
1098	Heteroatoms-doped hierarchical porous carbon derived from chitin for flexible all-solid-state symmetric supercapacitors. Chemical Engineering Journal, 2020, 384, 123263.	6.6	213
1099	Use of Gemini surfactant as emulsion interface microreactor for the synthesis of nitrogen-doped hollow carbon spheres for high-performance supercapacitors. Chemical Engineering Journal, 2020, 384, 123309.	6.6	52

#	Article	IF	Citations
1100	Walnut shell-derived hierarchical porous carbon with high performances for electrocatalytic hydrogen evolution and symmetry supercapacitors. International Journal of Hydrogen Energy, 2020, 45, 443-451.	3.8	55
1101	Multifunctional microporous activated carbon nanotubes anchored on graphite fibers for high-strength and high-rate flexible all-solid-state supercapacitors. Applied Surface Science, 2020, 502, 144423.	3.1	15
1102	Tetragonal MF2 (M=Ni, Co) micro/nanocrystals anodes for lithium/sodium-ion capacitors. Electrochimica Acta, 2020, 329, 135138.	2.6	24
1103	Coaxial electrospun free-standing and mechanically stable hierarchical porous carbon nanofiber membranes for flexible supercapacitors. Carbon, 2020, 160, 80-87.	5.4	75
1104	Influence of annealing temperature in nitrogen doped porous carbon balls derived from hypercross-linked polymer of anthracene for supercapacitor applications. Journal of Energy Storage, 2020, 28, 101196.	3.9	36
1105	A facile self-catalyzed CVD method to synthesize Fe3C/N-doped carbon nanofibers as lithium storage anode with improved rate capability and cyclability. Journal of Materials Science and Technology, 2020, 44, 229-236.	5.6	37
1106	Electrospun Sb2Se3@C nanofibers with excellent lithium storage properties. Chinese Chemical Letters, 2020, 31, 909-914.	4.8	40
1107	Progress in supercapacitors: roles of two dimensional nanotubular materials. Nanoscale Advances, 2020, 2, 70-108.	2.2	164
1108	Synthesis of Benzoxazine-Based N-Doped Mesoporous Carbons as High-Performance Electrode Materials. Applied Sciences (Switzerland), 2020, 10, 422.	1.3	13
1109	Rational Design of Electrochemical Iodine-Based Redox Mediators for Water-Proofed Flexible Fiber Supercapacitors. ACS Sustainable Chemistry and Engineering, 2020, 8, 2409-2415.	3.2	15
1110	A new generation of energy storage electrode materials constructed from carbon dots. Materials Chemistry Frontiers, 2020, 4, 729-749.	3.2	70
1111	The synthesis and performance analysis of various biomassâ€based carbon materials for electric doubleâ€layer capacitors: A review. International Journal of Energy Research, 2020, 44, 2426-2454.	2.2	58
1112	A facile route to high nitrogen-containing porous carbon fiber sheets from biomass-flax for high-performance flexible supercapacitors. Applied Surface Science, 2020, 507, 145108.	3.1	48
1113	Synthesis of rich N-doped hierarchically porous carbon flowers for electrochemical energy storage. Diamond and Related Materials, 2020, 102, 107691.	1.8	8
1114	Methanol and Diethanolamine Assisted Synthesis of Flexible Nitrogen-Doped Ti₃C₂ (MXene) Film for Ultrahigh Volumetric Performance Supercapacitor Electrodes. ACS Applied Energy Materials, 2020, 3, 586-596.	2.5	40
1115	Controllable synthesis of porous CuO-Cu2O/rGO microspheres composite as high-performance electrode material for supercapacitors. Composite Interfaces, 2020, 27, 845-858.	1.3	9
1116	Nitrogen-doped asphaltene-based porous carbon fibers as supercapacitor electrode material with high specific capacitance. Electrochimica Acta, 2020, 330, 135270.	2.6	56
1117	Sulfur doped carbon porous as an efficient catalyst for sustainable energy processes. Environmental Progress and Sustainable Energy, 2020, 39, 13299.	1.3	4

#	Article	IF	Citations
1118	A photoelectrochemical supercapacitor based on a single BiVO4-RGO bilayer photocapacitive electrode. Electrochimica Acta, 2020, 329, 135170.	2.6	22
1119	Synthesis of mesoporous carbon with tunable pore size for supercapacitors. New Journal of Chemistry, 2020, 44, 1036-1044.	1.4	29
1120	Flexible all-solid-state supercapacitors based on an integrated electrode of hollow N-doped carbon nanofibers embedded with graphene nanosheets. Electrochimica Acta, 2020, 332, 135398.	2.6	28
1121	Hierarchical porous carbon monolith derived from lignin for high areal capacitance supercapacitors. Microporous and Mesoporous Materials, 2020, 297, 109960.	2.2	69
1122	Rapid synthesis of chitinâ€based porous carbons with high yield, high nitrogen retention, and low cost for highâ€rate supercapacitors. International Journal of Energy Research, 2020, 44, 1167-1178.	2.2	15
1123	Facile preparation of N-O codoped hierarchically porous carbon from alginate particles for high performance supercapacitor. Journal of Colloid and Interface Science, 2020, 563, 414-425.	5.0	49
1124	Metal-Free H₂ Activation for Highly Selective Hydrogenation of Nitroaromatics Using Phosphorus-Doped Carbon Nanotubes. ACS Applied Materials & Interfaces, 2020, 12, 654-666.	4.0	53
1125	Self-organized bowl-like hollow carbon submicrospheres with hierarchical mesopore-rich structure as superior electrode materials for supercapacitors. Applied Surface Science, 2020, 509, 144841.	3.1	13
1126	One-step carbonization production of B/N co-doped carbon from polyurethane/phenolic/GO composite for supercapacitors. Journal of Materials Science: Materials in Electronics, 2020, 31, 715-727.	1.1	5
1127	Elastic and hierarchical carbon nanofiber aerogels and their hybridsÂwith carbon nanotubes and cobalt oxide nanoparticles forÂhigh-performance asymmetric supercapacitors. Carbon, 2020, 158, 873-884.	5.4	35
1128	Different strategies to simultaneously N-doping and reduce graphene oxide for electrocatalytic applications. Journal of Electroanalytical Chemistry, 2020, 857, 113695.	1.9	18
1129	N, S codoped activated mesoporous carbon derived from the Datura metel seed pod as active electrodes for supercapacitors. Diamond and Related Materials, 2020, 102, 107687.	1.8	26
1130	Self-assembled reduced graphene oxide films with different thicknesses as high performance supercapacitor electrodes. Journal of Energy Storage, 2020, 32, 101795.	3.9	16
1131	N-doped porous carbon nanotubes derived from polypyrrole for supercapacitors with high performance. Journal of Analytical and Applied Pyrolysis, 2020, 152, 104925.	2.6	16
1132	One-pot and surfactant-free synthesis of N-doped mesoporous carbon spheres for the sensitive and selective screening of small biomolecules. Journal of Electroanalytical Chemistry, 2020, 873, 114462.	1.9	3
1133	Encapsulation of Fe/Fe3O4 in carbon nanotubes grown over carbon nanofibers for high performance supercapacitor electrodes. Synthetic Metals, 2020, 269, 116575.	2.1	12
1134	Two-step synthesis of B and N co-doped porous carbon composites by microwave-assisted hydrothermal and pyrolysis process for supercapacitor application. Electrochimica Acta, 2020, 360, 137010.	2.6	50
1135	High performance electrode of few-layer-carbon@bulk-carbon synthesized via controlling diffusion depth from liquid phase to solid phase for supercapacitors. Journal of Energy Storage, 2020, 32, 101672.	3.9	12

#	Article	IF	Citations
1136	High surface N-/O-doped microporous carbons for stable supercapacitor and carbon dioxide sorption applications. Microporous and Mesoporous Materials, 2020, 308, 110526.	2.2	8
1137	Graphene bubble film encapsulated Si@C hollow spheres as a durable anode material for lithium storage. Electrochimica Acta, 2020, 361, 137074.	2.6	25
1138	Nitrogen-doped nanostructured carbons: A new material horizon for water desalination by capacitive deionization. EnergyChem, 2020, 2, 100043.	10.1	73
1139	Towards new routes to increase the electrocatalytic activity for oxygen reduction reaction of n-doped graphene nanofibers. Journal of Electroanalytical Chemistry, 2020, 878, 114631.	1.9	8
1140	N/P Codoped Carbon Materials with an Ultrahigh Specific Surface Area and Hierarchical Porous Structure Derived from Durian Peel for High-Performance Supercapacitors. Energy & Fuels, 2020, 34, 14948-14957.	2.5	10
1141	â€œWater-in-saltâ€•electrolyte enhanced high voltage aqueous supercapacitor with carbon electrodes derived from biomass waste-ground grain hulls. RSC Advances, 2020, 10, 35545-35556.	1.7	28
1142	N-doped porous carbon derived from rGO-Incorporated polyphenylenediamine composites for CO2 adsorption and supercapacitors. Journal of Power Sources, 2020, 472, 228610.	4.0	46
1143	Constructing Nitrogen, Selenium Coâ€Doped Graphene Aerogel Electrode Materials for Synergistically Enhanced Capacitive Performance. ChemElectroChem, 2020, 7, 3311-3318.	1.7	39
1144	Manganeseoxide with rich oxygen vacancies based on plasma modification for high performance supercapacitors. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 603, 125254.	2.3	12
1145	Design of compressible and elastic N-doped porous carbon nanofiber aerogels as binder-free supercapacitor electrodes. Journal of Materials Chemistry A, 2020, 8, 17257-17265.	5.2	61
1146	Insight into the Effect of ZIFâ€8 Particle Size on the Performance in Nanocarbonâ€Based Supercapacitors. Chemistry - A European Journal, 2020, 26, 16328-16337.	1.7	14
1147	Hierarchically porous biochar for supercapacitor and electrochemical H2O2 production. Chemical Engineering Journal, 2020, 402, 126171.	6.6	64
1148	Molybdate incorporated poly(acrylic acid) electrolytes for use in quasi-solid state carbon based supercapacitors: Redox-active polychelates. Electrochimica Acta, 2020, 354, 136770.	2.6	32
1149	A Comprehensive Review on the Synthesis and Energy Applications of Nano-structured Metal Nitrides. Frontiers in Materials, 2020, 7, .	1.2	43
1150	Three-dimensional nitrogen doped hierarchically porous carbon aerogels with ultrahigh specific surface area for high-performance supercapacitors and flexible micro-supercapacitors. Carbon, 2020, 168, 701-709.	5.4	118
1151	Synthesis of Hybrid Carbon Materials Consisting of N-Doped Microporous Carbon and Amorphous Carbon Nanotubes. Materials, 2020, 13, 2997.	1.3	5
1152	Nitrogenâ€Rich Hierarchical Porous Carbon Prepared by Solâ€Gel Assisted Inorganic Template Methods for Supercapacitors. Batteries and Supercaps, 2020, 3, 1165-1171.	2.4	8
1153	Metal-Free Carbon-Based Supercapacitorsâ€"A Comprehensive Review. Electrochem, 2020, 1, 410-438.	1.7	18

#	Article	IF	Citations
1154	High temperature all-solid flexible supercapacitor based on novel cross-linked polybenzimidazole electrolyte. Journal of Energy Storage, 2020, 32, 101901.	3.9	10
1155	Application of Biomassâ€Derived Nitrogenâ€Doped Carbon Aerogels in Electrocatalysis and Supercapacitors. ChemElectroChem, 2020, 7, 3695-3712.	1.7	52
1156	Dexterous and friendly preparation of N/P co-doping hierarchical porous carbon nanofibers via electrospun chitosan for high performance supercapacitors. Journal of Electroanalytical Chemistry, 2020, 878, 114473.	1.9	16
1157	Polymer-Derived Heteroatom-Doped Porous Carbon Materials. Chemical Reviews, 2020, 120, 9363-9419.	23.0	492
1158	Isolated Ni single atoms in nitrogen doped ultrathin porous carbon templated from porous g-C3N4 for high-performance CO2 reduction. Nano Energy, 2020, 77, 105158.	8.2	83
1159	StÃ¶ber synthesis of salen-formaldehyde resin polymer- and carbon spheres with high nitrogen content and application of the corresponding Mn-containing carbon spheres as efficient electrocatalysts for the oxygen reduction reaction. RSC Advances, 2020, 10, 27575-27584.	1.7	6
1160	Fabrication of a vanadium nitride/N-doped carbon hollow nanosphere composite as an efficient electrode material for asymmetric supercapacitors. Nanoscale Advances, 2020, 2, 3865-3871.	2.2	27
1161	Biomass-derived porous activated carbon from Syzygium cumini fruit shells and Chrysopogon zizanioides roots for high-energy density symmetric supercapacitors. Biomass and Bioenergy, 2020, 143, 105838.	2.9	91
1162	Directly synthesized nitrogen-and-oxygenâ€"doped microporous carbons derived from a bio-derived polybenzoxazine exhibiting high-performance supercapacitance and CO2 uptake. European Polymer Journal, 2020, 138, 109954.	2.6	52
1163	Design bifunctional vanadium carbide embedded in mesoporous carbon electrode for supercapacitor and dye-sensitized solar cell. Solar Energy, 2020, 206, 848-854.	2.9	15
1164	Metal-Induced Self-Assembly Template for Controlled Growth of ZIF-8 Nanorods. Chemistry of Materials, 2020, 32, 7941-7950.	3.2	31
1165	Electrode Materials for Supercapacitors: A Review of Recent Advances. Catalysts, 2020, 10, 969.	1.6	269
1166	Vanadium sulfide based materials: synthesis, energy storage and conversion. Journal of Materials Chemistry A, 2020, 8, 20781-20802.	5.2	73
1167	Synthesis of ordered mesoporous carbons by Teflon-assisted removal of silica template in tri-constituent co-assembly for supercapacitors. Emergent Materials, 2020, 3, 339-346.	3.2	5
1168	â€œOne-Stepâ€•Carbonization Activation of Garlic Seeds for Honeycomb-like Hierarchical Porous Carbon and Its High Supercapacitor Properties. ACS Omega, 2020, 5, 29913-29921.	1.6	26
1169	Construction of Dualâ€Mesoporous Carbon Fibers Via Coassembly for Supercapacitors. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000365.	0.8	2
1170	Synthesis of nitrogen-doped porous carbon by solid grinding for supercapacitors. Journal of Materials Science: Materials in Electronics, 2020, 31, 21478-21485.	1.1	1
1171	Transforming waste sugar solution into N-doped hierarchical porous carbon for high performance supercapacitors in aqueous electrolytes and ionic liquid. International Journal of Hydrogen Energy, 2020, 45, 31367-31379.	3.8	17

#	Article	IF	Citations
1172	A lignin dissolution-precipitation strategy for porous biomass carbon materials derived from cherry stones with excellent capacitance. Journal of Alloys and Compounds, 2020, 832, 155029.	2.8	27
1173	Biomass-derived multi-heteroatom-doped carbon materials for high-performance solid-state symmetric supercapacitors with superior long-term cycling stability. Ionics, 2020, 26, 4141-4151.	1.2	12
1174	Nickel nanoparticles embedded in porous carbon nanofibers and its electrochemical properties. Nanotechnology, 2020, 31, 305705.	1.3	14
1175	Targeted Synthesis of Polymer and Microporous Carbon Nanofibers via Temperatureâ€Dependent and Molecularlyâ€Triggered Interfacial Assembly. Advanced Materials Interfaces, 2020, 7, 2000381.	1.9	4
1176	Ingenious preparation of N/NiO_x co-doped hierarchical porous carbon nanosheets derived from chitosan nanofibers for high-performance supercapacitors. Nanotechnology, 2020, 31, 335713.	1.3	18
1177	Oxygen-deficient BiFeO3-NC nanoflake anodes for flexible battery-supercapacitor hybrid devices with high voltage and long-term stability. Chemical Engineering Journal, 2020, 397, 125524.	6.6	37
1178	Multifaceted applications of cellulosic porous materials in environment, energy, and health. Progress in Polymer Science, 2020, 106, 101253.	11.8	63
1179	Nitrogen-doped microporous carbon coated on carbon nanotubes for high performance supercapacitors. Microporous and Mesoporous Materials, 2020, 305, 110300.	2.2	23
1180	A novel synthesis of controllable nitrogen-doped SnOx-ZnO supercapacitors to enhance electrochemical performance. Journal of Molecular Structure, 2020, 1217, 128363.	1.8	6
1181	Effect of an activating agent on the physicochemical properties and supercapacitor performance of naturally nitrogen-enriched carbon derived from Albizia procera leaves. Arabian Journal of Chemistry, 2020, 13, 6161-6173.	2.3	61
1182	Terbium metalâ€“organic frameworks as capable electrodes for supercapacitors. New Journal of Chemistry, 2020, 44, 11615-11621.	1.4	13
1183	Plasma Treated Nitrogen-doped Graphite Oxide by using Melamine for Supercapacitor Applications. Journal of Energy Storage, 2020, 30, 101545.	3.9	15
1184	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general hostâ€“guest strategy. Nature Chemistry, 2020, 12, 764-772.	6.6	452
1185	3D porous oxygen-enriched graphene hydrogels with well-balanced volumetric and gravimetric performance for symmetric supercapacitors. Journal of Materials Science, 2020, 55, 12214-12231.	1.7	14
1186	Unique carbon nanofiber@ Co/C aerogel derived bacterial cellulose embedded zeolitic imidazolate frameworks for high-performance electromagnetic interference shielding. Carbon, 2020, 167, 575-584.	5.4	92
1187	Synthesis, morphology, magnetic and electrochemical studies of nitrogen-doped multiwall carbon nanotubes fabricated using banded iron-formation as catalyst. Journal of Alloys and Compounds, 2020, 835, 155200.	2.8	15
1188	Rare earth metal lanthanum-organic frameworks derived three-dimensional mesoporous interconnected carbon nanosheets for advanced energy storage. Electrochimica Acta, 2020, 353, 136597.	2.6	13
1189	A novel path towards synthesis of nitrogen-rich porous carbon nanofibers for high performance supercapacitors. Chemical Engineering Journal, 2020, 399, 125788.	6.6	63

#	Article	IF	Citations
1190	Orderly Arranged Bead-Chain Cu₂O-Mn₃O₄-NiO Ternary Nanocomposites with High Specific Capacitance for Supercapacitors. Nano, 2020, 15, 2050082.	0.5	4
1191	Graphene Based Aerogels: Fundamentals and Applications as Supercapacitors. Journal of Energy Storage, 2020, 30, 101549.	3.9	53
1192	Fast Charging Materials for High Power Applications. Advanced Energy Materials, 2020, 10, 2001128.	10.2	136
1193	Achievement of high energy carbon based supercapacitors in acid solution enabled by the balance of SSA with abundant micropores and conductivity. Electrochimica Acta, 2020, 353, 136562.	2.6	9
1194	Nitrogen-doped porous carbon materials derived from ionic liquids as electrode for supercapacitor. Inorganic Chemistry Communication, 2020, 115, 107856.	1.8	22
1195	RuO₂ Nanorods on Electrospun Carbon Nanofibers for Supercapacitors. ACS Applied Nano Materials, 2020, 3, 3847-3858.	2.4	104
1196	Cagelike CoSe₂@N-Doped Carbon Aerogels with Pseudocapacitive Properties as Advanced Materials for Sodium-Ion Batteries with Excellent Rate Performance and Cyclic Stability. ACS Applied Materials & Interfaces, 2020, 12, 33621-33630.	4.0	56
1197	Ferrites for Electrochemical Supercapacitors. , 2020, , 83-122.		7
1198	Oriented Synthesis of Pyridinic-N Dopant within the Highly Efficient Multifunction Carbon-Based Materials for Oxygen Transformation and Energy Storage. ACS Sustainable Chemistry and Engineering, 2020, 8, 10431-10443.	3.2	14
1199	Ultrahigh rate capability supercapacitors based on tremella-like nitrogen and phosphorus co-doped graphene. Materials Chemistry Frontiers, 2020, 4, 2704-2715.	3.2	24
1200	N-doped hierarchical porous hollow carbon nanofibers based on PAN/PVP@SAN structure for high performance supercapacitor. Composites Part B: Engineering, 2020, 186, 107825.	5.9	71
1201	Rational design of hierarchical carbon hybrid microassemblies via reductive-catalytic chemical vapor deposition. Carbon, 2020, 167, 422-430.	5.4	6
1202	Honeycomb-structured carbon aerogels from nanocellulose and skin secretion of Andrias davidianus for highly compressible binder-free supercapacitors. Carbohydrate Polymers, 2020, 245, 116554.	5.1	44
1203	Preparation of Porous Carbon Nanofibers with Tailored Porosity for Electrochemical Capacitor Electrodes. Materials, 2020, 13, 729.	1.3	13
1204	Polyaniline functionalized reduced graphene oxide/carbon nanotube ternary nanocomposite as a supercapacitor electrode. Chemical Communications, 2020, 56, 4003-4006.	2.2	68
1205	Highly efficient visible-light-induced photoactivity of carbonized polyimide aerogel for antibiotic degradation. Nanotechnology, 2020, 31, 235707.	1.3	13
1206	Porous nanofiber composite membrane with 3D interpenetrating networks towards ultrafast and isotropic proton conduction. Journal of Materials Chemistry A, 2020, 8, 5128-5137.	5.2	20
1207	Ex-situ nitrogen-doped porous carbons as electrode materials for high performance supercapacitor. Journal of Colloid and Interface Science, 2020, 569, 332-345.	5.0	61

#	Article	IF	Citations
1208	Porous Carbons: Structureâ€Oriented Design and Versatile Applications. Advanced Functional Materials, 2020, 30, 1909265.	7.8	316
1209	Nitrogen and sulfur co-doped NaTi2(PO4)3/hole graphene composite as high-performance electrosorption electrodes for hybrid capacitive deionization. Journal of Materials Science, 2020, 55, 6017-6029.	1.7	23
1210	Orderly and highly dense polyaniline nanorod arrays fenced on carbon nanofibers for all-solid-state flexible electrochemical energy storage. Electrochimica Acta, 2020, 338, 135846.	2.6	34
1211	N-doped honeycomb-like porous carbon towards high-performance supercapacitor. Chinese Chemical Letters, 2020, 31, 1986-1990.	4.8	116
1212	Improved performance and long-term stability of activated carbon doped with nitrogen for capacitive deionization. Desalination, 2020, 481, 114362.	4.0	53
1213	Direct synthesis of nitrogen-doped mesoporous carbons from triazine-functionalized resol for CO2 uptake and highly efficient removal of dyes. Journal of Hazardous Materials, 2020, 391, 122163.	6.5	77
1214	UZnCl2-DES assisted synthesis of phenolic resin-based carbon aerogels for capacitors. Journal of Porous Materials, 2020, 27, 789-800.	1.3	23
1215	Advanced Electrode Materials Comprising of Structureâ€Engineered Quantum Dots for Highâ€Performance Asymmetric Microâ€Supercapacitors. Advanced Energy Materials, 2020, 10, 1903724.	10.2	36
1216	A novel RGO/N-RGO supercapacitor architecture for a wide voltage window, high energy density and long-life via voltage holding tests. Chemical Communications, 2020, 56, 2893-2896.	2.2	40
1217	Facile and scalable synthesis of nitrogen-doped ordered mesoporous carbon for high performance supercapacitors. Korean Journal of Chemical Engineering, 2020, 37, 166-175.	1.2	31
1218	Large-scale multirole Zn(II) programmed synthesis of ultrathin hierarchically porous carbon nanosheets. Science China Technological Sciences, 2020, 63, 1730-1738.	2.0	11
1219	Liquidâ€Phase Synthesis of Iron Oxide Nanostructured Materials and Their Applications. Chemistry - A European Journal, 2020, 26, 9180-9205.	1.7	13
1220	CoFe Nanoparticles in Carbon Nanofibers as an Electrode for Ultra-Stable Supercapacitor. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 3608-3616.	1.9	15
1221	Engineering the interface for promoting ionic/electronic transmission of organic flexible supercapacitors with high volumetric energy density. Journal of Power Sources, 2020, 460, 228097.	4.0	21
1222	Energetic Cost for Being â€œRedox-Site-Richâ€• in Pseudocapacitive Energy Storage with Nickelâ€“Aluminum Layered Double Hydroxide Materials. Journal of Physical Chemistry Letters, 2020, 11, 3745-3753.	2.1	11
1223	Nitrogenâ€Doped Ti₃C₂ MXene: Mechanism Investigation and Electrochemical Analysis. Advanced Functional Materials, 2020, 30, 2000852.	7.8	166
1224	Hierarchically Porous Biomass Carbon Derived from Natural Withered Rose Flowers as Highâ€Performance Material for Advanced Supercapacitors. Batteries and Supercaps, 2020, 3, 731-737.	2.4	57
1225	Partially graphitic hierarchical porous carbon nanofiber for high performance supercapacitors and lithium ion batteries. Journal of Power Sources, 2020, 462, 228098.	4.0	42

#	Article	IF	Citations
1226	Nanofiber-reinforced biocomposites. , 2020, , 199-233.		18
1227	Application and Properties of Microporous Carbons Activated by ZnCl₂: Adsorption Behavior and Activation Mechanism. ACS Omega, 2020, 5, 9398-9407.	1.6	46
1228	In-situ Growth of Flower-Like MnO2/Graphene Hydrogel Mesoporous Electrode Material for Supercapacitors. Integrated Ferroelectrics, 2020, 206, 87-95.	0.3	0
1229	Free-standing flexible graphene-based aerogel film with high energy density as an electrode for supercapacitors. Nano Materials Science, 2021, 3, 68-74.	3.9	33
1230	A review on electronically conducting polymers for lithium-sulfur battery and lithium-selenium battery: Progress and prospects. Journal of Energy Chemistry, 2021, 58, 523-556.	7.1	63
1231	Coal-derived porous activated carbon with ultrahigh specific surface area and excellent electrochemical performance for supercapacitors. Journal of Alloys and Compounds, 2021, 859, 157856.	2.8	39
1232	Urgently reveal longly hidden toxicant in a familiar fabrication process of biomass-derived environment carbon material. Journal of Environmental Sciences, 2021, 100, 250-256.	3.2	6
1233	Redox active polymer metal chelates for use in flexible symmetrical supercapacitors: Cobalt-containing poly(acrylic acid) polymer electrolytes. Journal of Energy Chemistry, 2021, 55, 145-153.	7.1	54
1234	Carbon black-based porous sub-micron carbon fibers for flexible supercapacitors. Applied Surface Science, 2021, 537, 147914.	3.1	33
1235	A novel in-situ preparation of N-rich spherical porous carbon as greatly enhanced material for high-performance supercapacitors. Carbon, 2021, 171, 62-71.	5.4	76
1236	rGO/N-porous carbon composites for enhanced CO2 capture and energy storage performances. Journal of Alloys and Compounds, 2021, 857, 157534.	2.8	33
1237	Templating preparation of cannular congeries of MnO2 and porous spheres of carbon and their applications to high performance asymmetric supercapacitor and lithium-sulfur battery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125740.	2.3	12
1238	Biomass waste derived functionalized hierarchical porous carbon with high gravimetric and volumetric capacitances for supercapacitors. Microporous and Mesoporous Materials, 2021, 310, 110659.	2.2	135
1239	Recent progress in energy storage and conversion of flexible symmetric transducers. Journal of Materials Chemistry A, 2021, 9, 753-781.	5.2	17
1240	Straightforward Solution Polymerization Synthesis of Porous Carbon@Gold Nanoparticles Electrode for High-Performance Supercapacitor. Journal of Energy Storage, 2021, 33, 102041.	3.9	12
1241	Preparation of hollow mesoporous carbon spheres by pyrolysis-deposition using surfactant as carbon precursor. Journal of Power Sources, 2021, 484, 229274.	4.0	23
1242	A core-shell structured metal-organic frameworks-derived porous carbon nanowires as a superior anode for alkaline metal-ion batteries. Applied Surface Science, 2021, 541, 148473.	3.1	14
1243	Microrecycling of waste flexible printed circuit boards for in-situ generation of O- and N-doped activated carbon with outstanding supercapacitance performance. Resources, Conservation and Recycling, 2021, 167, 105221.	5.3	13

#	Article	IF	Citations
1244	N-doped mesoporous carbon nanosheets for supercapacitors with high performance. Diamond and Related Materials, 2021, 111, 108206.	1.8	21
1245	Sequential doping of nitrogen and oxygen in single-walled carbon nanohorns for use as supercapacitor electrodes. Microporous and Mesoporous Materials, 2021, 310, 110595.	2.2	8
1246	High-performance Bi2O3-NC anodes through constructing carbon shells and oxygen vacancies for flexible battery-supercapacitor hybrid devices. Nanoscale Advances, 2021, 3, 593-603.	2.2	8
1247	Facile Preparation of Low-Cost and Cross-Linked Carbon Nanofibers Derived from PAN/PMMA/Lignin as Supercapacitor Electrodes. Energy & Fuels, 2021, 35, 796-805.	2.5	29
1248	Design of hollow carbon-based materials derived from metalâ€“organic frameworks for electrocatalysis and electrochemical energy storage. Journal of Materials Chemistry A, 2021, 9, 3880-3917.	5.2	117
1249	One-step carbonization of a nickel-containing nitrogen-doped porous carbon material for electrochemical supercapacitors. New Journal of Chemistry, 2021, 45, 1822-1833.	1.4	9
1250	Defect-rich N-doped porous carbon derived from alginate by HNO3 etching combined with a hard template method for high-performance supercapacitors. Materials Chemistry and Physics, 2021, 260, 124121.	2.0	18
1251	Construction of high-performance electrode materials of NiCo₂O₄ nanoparticles encapsulated in ultrathin N-doped carbon nanosheets for supercapacitors. Dalton Transactions, 2021, 50, 1097-1105.	1.6	9
1252	Oneâ€Step Activation of Anode Materials from Spent Lithiumâ€Ion Batteries as Highâ€Performance Electrodes for Capacitive Deionization. ChemElectroChem, 2021, 8, 370-376.	1.7	2
1253	In-situ formation of mesoporous SnO2@C nanocomposite electrode for supercapacitors. Electrochimica Acta, 2021, 365, 137284.	2.6	37
1254	Boehmite Nanofiberâ€“Polymethylsilsesquioxane Composite Aerogels: Synthesis, Analysis, and Thermal Conductivity Control via Compression Processing. Bulletin of the Chemical Society of Japan, 2021, 94, 70-75.	2.0	3
1255	Nanofibers modified through carbon and nitrogen coâ€doping and phase transformation for application in pseudocapacitors. International Journal of Energy Research, 2021, 45, 2343-2352.	2.2	1
1256	Green Precursors and Soft Templating for Printing Porous Carbonâ€Based Microâ€supercapacitors. Chemistry - A European Journal, 2021, 27, 1356-1363.	1.7	6
1257	MOF(ZM)/Potassium Citrate-Derived Composite Porous Carbon and Its Electrochemical Properties. Journal of Minerals and Materials Characterization and Engineering, 2021, 09, 462-479.	0.1	0
1258	Electrode Materials for Electrochemical Double-Layer Capacitors. , 2022, , 341-350.		2
1259	Untangling the respective effects of heteroatom-doped carbon materials in batteries, supercapacitors and the ORR to design high performance materials. Energy and Environmental Science, 2021, 14, 2036-2089.	15.6	351
1260	Carbon nanoflakes and nanofibers. , 2021, , 399-459.		0
1261	Room Temperature Gas Sensor Based on Reduced Graphene Oxide for Environmental Monitoring. , 2021, , 3243-3261.		0

#	Article	IF	Citations
1262	Laserâ€Assisted Printing of Electrodes Using Metalâ€“Organic Frameworks for Microâ€Supercapacitors. Advanced Functional Materials, 2021, 31, 2009057.	7.8	75
1263	Overview of Electrode Materials Progressed for Application in Electrochemical Supercapacitors: An Update. Asian Journal of Chemistry, 2021, 33, 1039-1050.	0.1	1
1264	Fabrication of chlorine nitrogen co-doped carbon nanomaterials by an injection catalytic vapor deposition method. Materials Research Express, 2021, 8, 015007.	0.8	4
1265	Adsorbents based on nanofibers. Interface Science and Technology, 2021, 33, 389-443.	1.6	6
1266	Nanoporous nitrogen-doped graphitic carbon hollow spheres with enhanced electrochemical properties. Materials Chemistry Frontiers, 2021, 5, 7645-7653.	3.2	9
1267	Energetic carbon precursors for micro-supercapacitor printing. Materials Advances, 2021, 2, 6380-6387.	2.6	4
1269	Multistage Self-Assembly Strategy: Designed Synthesis of N-doped Mesoporous Carbon with High and Controllable Pyridine N Content for Ultrahigh Surface-Area-Normalized Capacitance. CCS Chemistry, 2021, 3, 870-881.	4.6	41
1270	Synthesis of highly porous activated carbon nanofibers derived from bamboo waste materials for application in supercapacitor. Journal of Materials Science: Materials in Electronics, 2021, 32, 7681-7691.	1.1	19
1271	A Short Review on the Electrochemical Performance of Hierarchical and Nitrogen-Doped Activated Biocarbon-Based Electrodes for Supercapacitors. Nanomaterials, 2021, 11, 424.	1.9	47
1272	Electrode response of NaFeTiO4 in aqueous supercapacitor cells. Ionics, 2021, 27, 1709-1721.	1.2	1
1273	Sustainable Bio-Energy Production in Microbial Fuel Cell Using MnO₂ Nanoparticle-Decorated Hollow Carbon Nanofibers as Active Cathode Materials. Journal of Nanoelectronics and Optoelectronics, 2021, 16, 127-135.	0.1	5
1274	Enhanced electrochemical performance of Si-carbon materials from Larch waste by filtration liquefaction residue process. Electrochimica Acta, 2021, 370, 137813.	2.6	4
1275	Investigation on the Mass Distribution and Chemical Compositions of Various Ionic Liquids-Extracted Coal Fragments and Their Effects on the Electrochemical Performance of Coal-Derived Carbon Nanofibers (CCNFs). Nanomaterials, 2021, 11, 664.	1.9	1
1276	Nitrogen-doped NiO prepared by magnetron sputtering and its electrochemical performance as an electrode material for supercapacitors. International Journal of Electrochemical Science, 0, , 210320.	0.5	0
1277	Oneâ€pot emulsion templating for simultaneous hydrothermal carbonization and hydrogel synthesis: porous structures, nitrogen contents and activation. Polymer International, 2021, 70, 1404-1412.	1.6	9
1278	Biomass derived phosphorous containing porous carbon material for hydrogen storage and high-performance supercapacitor applications. Journal of Energy Storage, 2021, 35, 102185.	3.9	54
1279	Thin metal film on porous carbon as a medium for electrochemical energy storage. Journal of Power Sources, 2021, 489, 229522.	4.0	19
1280	Nano-channel carbon fiber film with enhanced mechanical and electrochemical properties by centrifuged electrospinning for all-solid-state flexible symmetric supercapacitors. Microporous and Mesoporous Materials, 2021, 316, 110972.	2.2	13

#	Article	IF	Citations
1281	Designing an Interlayer-Widened MoS₂-Packed Nitrogen-Rich Carbon Nanotube Coreâ€"Shell Structure for Redox-Mediated Quasi-Solid-State Supercapacitors. ACS Applied Energy Materials, 2021, 4, 2218-2230.	2.5	17
1282	Promising nature-based activated carbon derived from flowers of Borassus flabellifer for supercapacitor applications. Carbon Letters, 2021, 31, 1145-1153.	3.3	9
1283	Preventing Graphene from Restacking via Bioinspired Chemical Inserts: Toward a Superior 2D Micro-supercapacitor Electrode. ACS Applied Nano Materials, 2021, 4, 4964-4973.	2.4	10
1284	A facile soft-template synthetic approach of surface integrated nitrogen-rich carbon nanospheres for light-weight supercapacitors. Journal of Molecular Structure, 2021, 1229, 129788.	1.8	6
1285	Nâ€Doped Porous Carbon Derived from Solventâ€Free Synthesis of Crossâ€Linked Triazine Polymers for Simultaneously Achieving CO₂ Capture and Supercapacitors. Chemistry - A European Journal, 2021, 27, 7908-7914.	1.7	29
1286	N-doped carbon/V2O3 microfibers as high-rate and ultralong-life cathode for rechargeable aqueous zinc-ion batteries. Journal of Alloys and Compounds, 2021, 861, 158560.	2.8	40
1287	Bamboo-like N/S-codoped carbon nanotube aerogels for high-power and high-energy supercapacitors. Journal of Alloys and Compounds, 2021, 861, 157946.	2.8	20
1288	H₃PO₄-Assisted Synthesis of Apricot Shell Lignin-Based Activated Carbon for Capacitors: Understanding the Pore Structure/Electrochemical Performance Relationship. Energy & Fuels, 2021, 35, 8303-8312.	2.5	29
1289	Polyacrylonitrile/polyvinyl alcoholâ€based porous carbon nanofiber electrodes for supercapacitor applications. International Journal of Energy Research, 2021, 45, 16497-16510.	2.2	18
1290	High energy density and extremely stable supercapacitors based on carbon aerogels with 100% capacitance retention up to 65,000 cycles. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	36
1291	Green preparation of hierarchical porous carbon with tunable pore size for supercapacitors. Ionics, 2021, 27, 3077-3087.	1.2	7
1292	Two-dimensional Conducting Metal-Organic Frameworks Enabled Energy Storage Devices. Energy Storage Materials, 2021, 37, 396-416.	9.5	44
1293	Hazardous Petroleum Sludge-Derived Nitrogen and Oxygen Co-Doped Carbon Material with Hierarchical Porous Structure for High-Performance All-Solid-State Supercapacitors. Materials, 2021, 14, 2477.	1.3	3
1294	A Review of Electrospun Carbon Nanofiber-Based Negative Electrode Materials for Supercapacitors. Electrochem, 2021, 2, 236-250.	1.7	21
1295	Preparation and characterization of N-doped porous carbon derived from chlorinated polypropylene with controllable nitrogen content and specific surface area. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 616, 126332.	2.3	3
1296	Facile Fabrication of Flexible Carbon Nanofiber Electrodes with Both High Packing Density and Capacity for Liâ€Ion Batteries. Advanced Energy and Sustainability Research, 2021, 2, 2100020.	2.8	2
1298	Nitrogen and sulfur dual-doped hierarchical porous carbon derived from bacterial cellulose for high performance supercapacitor. Diamond and Related Materials, 2021, 116, 108447.	1.8	25
1299	N-doped hollow carbon spheres with controllable shell numbers for high-performance electrical double-layer capacitors. Journal of Power Sources, 2021, 493, 229679.	4.0	23

#	Article	IF	Citations
1300	Silicaâ€Confined Activation for Biomassâ€Derived Porous Carbon Materials for Highâ€Performance Supercapacitors. ChemElectroChem, 2021, 8, 2028-2033.	1.7	5
1301	Gelatinâ€Derived 1D Carbon Nanofiber Architecture with Simultaneous Decoration of Single Feâˆ’N_x Sites and Fe/Fe₃C Nanoparticles for Efficient Oxygen Reduction. Chemistry - A European Journal, 2021, 27, 10987-10997.	1.7	8
1302	Highly defective, doping-free graphene framework: A rapid one-step formation avenue. Journal of Power Sources, 2021, 497, 229881.	4.0	5
1303	Magnetic Carbon Nanofibers Prepared with Ni and Ni/Graphitic Carbon Nanoparticle Catalysts for Glycine Detection Using Surface-Enhanced Raman Spectroscopy. ACS Applied Nano Materials, 2021, 4, 6594-6608.	2.4	5
1304	Novel synthesis route for the preparation of mesoporous nitrogen-doped carbons from forestry wastes for supercapacitors. Surfaces and Interfaces, 2021, 24, 101132.	1.5	4
1305	Multiwall carbon nanotubes derived from plastic packaging waste as a highâ€performance electrode material for supercapacitors. International Journal of Energy Research, 2021, 45, 19611-19622.	2.2	26
1306	Differentiating between the effects of nitrogen plasma and hydrothermal treatment on electrospun carbon fibers used as supercapacitor electrodes. Electrochimica Acta, 2021, 381, 138255.	2.6	10
1307	Promoting the energy density of lithium-ion capacitor by coupling the pore-size and nitrogen content in capacitive carbon cathode. Journal of Power Sources, 2021, 498, 229912.	4.0	36
1308	High-Performance Joule Heating and Electromagnetic Shielding Properties of Anisotropic Carbon Scaffolds. ACS Applied Materials & Interfaces, 2021, 13, 29101-29112.	4.0	51
1309	Investigation of H₂SO₄ and KOH aqueous electrolytes on the electrochemical performance of activated carbon derived from areca catechu husk. Journal of Physics: Conference Series, 2021, 1940, 012033.	0.3	3
1310	Template-free graphitic carbon nitride nanosheets coated with polyaniline nanofibers as an electrode material for supercapacitor applications. Renewable Energy, 2021, 171, 1246-1256.	4.3	26
1311	Exploring the impact of MoS2 on the performance of the planar solid micro-supercapacitor. Materials Chemistry and Physics, 2021, 265, 124490.	2.0	5
1312	Î±-MnO2 Nanowires and Amino-Modified Reduced Graphene Oxide Hybrid Films for Constructing the Flexible High-Performance Symmetrical Supercapacitors. Nano, 2021, 16, 2150080.	0.5	0
1313	Facile fabrication 1D/2D/3D Co3O4 nanostructure in hydrothermal synthesis for enhanced supercapacitor performance. Journal of Energy Storage, 2021, 38, 102586.	3.9	22
1314	Transition metal nitride electrodes as future energy storage devices: A review. Materials Today Communications, 2021, 27, 102363.	0.9	25
1315	Conformal Coating of a Carbon Film on 3D Hosts toward Stable Lithium Anodes. ACS Applied Energy Materials, 2021, 4, 7288-7297.	2.5	7
1316	A novel approach to synthesize porous graphene sheets by exploring KOH as pore inducing agent as well as a catalyst for supercapacitors with ultra-fast rate capability. Renewable Energy, 2021, 172, 502-513.	4.3	41
1317	Carbon Quantum Dots for Energy Applications: A Review. ACS Applied Nano Materials, 2021, 4, 6515-6541.	2.4	145

#	Article	IF	Citations
1318	High performance of activated carbons prepared from mangosteen (Garcinia mangostana) peels using the hydrothermal process. Journal of Energy Storage, 2021, 39, 102577.	3.9	19
1319	Co-activation Pore Engineering of Polyphthalocyanine-Derived Carbon Nanosheets for Supercapacitors in Organic Electrolytes. ACS Applied Energy Materials, 2021, 4, 7751-7758.	2.5	9
1320	Litchi-like porous carbon nanospheres prepared from crosslinked polymer precursors for supercapacitors and electromagnetic wave absorption. Chemical Engineering Journal, 2021, 416, 128926.	6.6	38
1321	Recovering renewable carbon materials from automotive shredder residue (ASR) for micro-supercapacitor electrodes. Journal of Cleaner Production, 2021, 304, 127131.	4.6	16
1322	Soybean root-derived N, O co-doped hierarchical porous carbon for supercapacitors. Applied Surface Science, 2021, 555, 149726.	3.1	51
1323	One-step solvothermal method to obtain flower-like NiCoMn Hydroxides for Super Capacitance Performance. Journal of Solid State Chemistry, 2021, 299, 122173.	1.4	5
1324	Naturally nitrogen-doped porous carbon derived from waste crab shell as anode material for high performance sodium-ion battery. Journal of Analytical and Applied Pyrolysis, 2021, 157, 105215.	2.6	14
1325	General, metalâ€free synthesis of carbon nanofiber assemblies from plant oils. Angewandte Chemie, 0, , .	1.6	2
1326	Self-organized hierarchically porous carbon coated on carbon cloth for high-performance freestanding supercapacitor electrodes. Journal of Electroanalytical Chemistry, 2021, 895, 115456.	1.9	18
1327	N-doped mesoporous thin carbon tubes obtained by exhaust directional deposition for supercapacitor. Chemical Engineering Science, 2021, 240, 116651.	1.9	19
1328	Synergistic approach of high-performance N-NiCo/PC environment benign electrode material for energy storage device. Journal of Materials Science: Materials in Electronics, 2021, 32, 22245-22255.	1.1	3
1329	Template-free assembly of 2D-electrolytes into nanofibres. Materials Today Chemistry, 2021, 21, 100542.	1.7	3
1330	Rich Oxygenâ€Containing Carbon Microparticles Derived from Selfâ€Assembled Polyimides for Highâ€Performance Supercapacitors. Energy Technology, 2021, 9, 2100305.	1.8	9
1331	Hierarchical and hollow boron/nitrogen co-doped yolk-shell mesoporous carbon nanospheres attached to reduced graphene oxide with high sensing performance for the simultaneous detection of xanthine and guanosine. Sensors and Actuators B: Chemical, 2021, 343, 130068.	4.0	34
1332	Advanced carbon materials with different spatial dimensions for supercapacitors. Nano Materials Science, 2021, 3, 241-267.	3.9	54
1333	High performance supercapacitor electrodes based on B/N Co-doped biomass porous carbon materials by KOH activation and hydrothermal treatment. International Journal of Hydrogen Energy, 2021, 46, 31927-31937.	3.8	44
1334	Tin derived antimony/nitrogen-doped porous carbon (Sb/NPC) composite for electrochemical sensing of albumin from hepatocellular carcinoma patients. Mikrochimica Acta, 2021, 188, 338.	2.5	1
1335	General, Metalâ€free Synthesis of Carbon Nanofiber Assemblies from Plant Oils. Angewandte Chemie - International Edition, 2021, 60, 24257-24265.	7.2	15

#	Article	IF	Citations
1336	Multi-Doped Interconnected Carbon Nanospheres for High-Performance Supercapacitor. Journal of Electrochemical Energy Conversion and Storage, 2022, 19, .	1.1	0
1337	Nitrogen/sulfur codoped FCC-slurry-based porous carbon materials in symmetric supercapacitors. Applied Surface Science, 2021, 561, 150063.	3.1	25
1338	Hierarchical Co3O4 decorated nitrogen-doped graphene oxide nanosheets for energy storage and gas sensing applications. Journal of Industrial and Engineering Chemistry, 2021, 101, 253-261.	2.9	17
1339	Highâ€Efficiency Monolithic Photosupercapacitors: Smart Integration of a Perovskite Solar Cell with a Mesoporous Carbon Doubleâ€Layer Capacitor. Solar Rrl, 2021, 5, 2100662.	3.1	30
1340	Tailoring the supercapacitive behaviors of Co/Zn-ZIF derived nanoporous carbon via incorporating transition metal species: A hybrid experimental-computational exploration. Chemical Engineering Journal, 2021, 419, 129636.	6.6	59
1341	Combined effect of nitrogen-doped functional groups and porosity of porous carbons on electrochemical performance of supercapacitors. Scientific Reports, 2021, 11, 18387.	1.6	20
1342	Nitrogen-doped hollow carbon nanospheres as highly efficient electrocatalysts for detection of triclosan. Journal of Environmental Chemical Engineering, 2021, 9, 106022.	3.3	10
1343	Co1-xS/N-doped graphene foam composite as efficient bifunctional electrocatalysts for the evolution reaction of oxygen and hydrogen. Electrochimica Acta, 2021, 393, 139081.	2.6	8
1344	N, S-doped silicon oxycarbide-drived carbon/amorphous ball-flower-like NiO as high performance electrode in asymmetric supercapacitors. Ceramics International, 2021, 47, 27833-27842.	2.3	11
1345	A printed highly stretchable supercapacitor by a combination of carbon ink and polymer network. Extreme Mechanics Letters, 2021, 49, 101459.	2.0	6
1346	2-amino-6-methylpyridine based salt converted to carbon electrode material for supercapacitive application. Journal of Molecular Structure, 2021, 1244, 130895.	1.8	0
1347	One-component nano-metal-organic frameworks with superior multienzyme-mimic activities for 1,4-dihydropyridine metabolism. Journal of Colloid and Interface Science, 2022, 605, 214-222.	5.0	13
1348	Binary doping of nitrogen and phosphorus into porous carbon: A novel di-functional material for enhancing CO2 capture and super-capacitance. Journal of Materials Science and Technology, 2022, 99, 73-81.	5.6	54
1349	Nitrogen/phosphorus co-doped porous carbon materials for supercapacitor electrodes. New Journal of Chemistry, 2021, 45, 7239-7246.	1.4	9
1350	Facile synthesis of nitrogen and oxygen co-doped hierarchical porous carbon materials for high performance super capacitors. Journal of Porous Materials, 2021, 28, 803-812.	1.3	7
1351	Carbon aerogels for environmental remediation. , 2021, , 217-243.		1
1352	Recent progress in emerging metal and covalent organic frameworks for electrochemical and functional capacitors. Journal of Materials Chemistry A, 2021, 9, 8832-8869.	5.2	37
1353	Covalent organic frameworks (COFs) for electrochemical applications. Chemical Society Reviews, 2021, 50, 6871-6913.	18.7	461

#	Article	IF	Citations
1354	Room Temperature Gas Sensor Based on Reduce Graphene Oxide for Environmental Monitoring. , 2020, , 1-19.		1
1355	Characteristics of Carbon Nanofibers. Springer Series in Materials Science, 2020, , 215-245.	0.4	27
1356	Activated Carbon as Electrode Materials for Supercapacitors. Springer Series in Materials Science, 2020, , 113-144.	0.4	19
1357	Carbon Nanofiber as Electrode Materials for Supercapacitors. Springer Series in Materials Science, 2020, , 179-200.	0.4	20
1358	Application of Nanofibers in Supercapacitors. Nanostructure Science and Technology, 2014, , 163-181.	0.1	8
1359	Carbon aerogels with modified pore structures as electrode materials for supercapacitors. Journal of Solid State Electrochemistry, 2017, 21, 3545-3555.	1.2	21
1360	Molten-salt-templated fabrication of N, S co-doped hierarchically porous carbons for high-performance supercapacitors. Journal of Materials Science: Materials in Electronics, 2020, 31, 10113-10122.	1.1	12
1361	Fe2O3/hemp straw-based porous carbon composite for supercapacitor electrode materials. Ionics, 2020, 26, 4039-4051.	1.2	31
1362	Gram-scale production of B, N co-doped graphene-like carbon for high performance supercapacitor electrodes. Applied Surface Science, 2018, 435, 937-944.	3.1	68
1363	Synthesis of dense but microporous graphene by Na+ ions intercalation toward high volumetric performance supercapacitors. Applied Surface Science, 2020, 526, 146728.	3.1	11
1364	Locking metal sulfide nanoparticles in interconnected porous carbon nanofibers with protective macro-porous skin as freestanding anodes for lithium ion batteries. Chemical Engineering Journal, 2020, 397, 125271.	6.6	19
1365	A polypyrrole-coated acetylene black/sulfur composite cathode material for lithiumâ€“sulfur batteries. Journal of Energy Chemistry, 2018, 27, 813-819.	7.1	45
1366	Pinus nigra pine derived hierarchical carbon foam for high performance supercapacitors. Journal of Electroanalytical Chemistry, 2020, 863, 114053.	1.9	24
1367	Carbon-Based Fibers for Advanced Electrochemical Energy Storage Devices. Chemical Reviews, 2020, 120, 2811-2878.	23.0	334
1368	Carbon Nanofibers Cross-Linked and Decorated with Graphene Quantum Dots as Binder-Free Electrodes for Flexible Supercapacitors. Journal of Physical Chemistry C, 2021, 125, 143-151.	1.5	10
1369	Shape-Shifting via Salt Crystallization: Conversion of a Nanostructured Polymer into a Site-Selective Nitrogen-Doped Carbon Sheet with Enhanced Supercapacitive Performance. ACS Applied Energy Materials, 2020, 3, 5984-5992.	2.5	10
1370	Sulfur Doping: Unique Strategy To Improve the Supercapacitive Performance of Carbon Nano-onions. ACS Applied Materials & Interfaces, 2019, 11, 8040-8050.	4.0	89
1371	Dual-Doping of Sulfur on Mesoporous Carbon as a Cathode for the Oxygen Reduction Reaction and Lithium-Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 8537-8548.	3.2	21

#	Article	IF	Citations
1372	Porous Hydrothermal Carbon Materials, Nanoparticles, Hybrids and Composites. RSC Green Chemistry, 2015, , 156-190.	0.0	2
1373	Editorsâ€™ Choiceâ€"Reviewâ€"Activated Carbon Electrode Design: Engineering Tradeoff with Respect to Capacitive Deionization Performance. Journal of the Electrochemical Society, 2020, 167, 143501.	1.3	47
1374	Highly Enhanced Electrochemical Performance of Novel based Electrode Materials for Supercapacitor Applications â€" An Overview. International Journal of Electrochemical Science, 2019, 14, 1634-1648.	0.5	5
1375	Biomass-derived nitrogen-doped porous carbons (NPC) and NPC/ polyaniline composites as high performance supercapacitor materials. Engineered Science, 2018, , .	1.2	62
1376	Nitrogen, Phosphorus and Sulfur Co-Doped Pyrolyzed Bacterial Cellulose Nanofibers for Supercapacitors. Nanomaterials, 2020, 10, 1912.	1.9	12
1377	Fabrication of Graphene Supercapacitors for Flexible Energy Storage. Korean Journal of Materials Research, 2017, 27, 248-254.	0.1	5
1378	MnO2/carbon nanocomposite based on silkworm excrement for high-performance supercapacitors. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1735-1744.	2.4	7
1379	Superior capacitive storage behavior of porous carbon electrode with high mass loading. Advanced Powder Technology, 2021, 32, 4677-4686.	2.0	4
1380	Synchronous-ultrahigh conductive-reactive N-atoms doping strategy of carbon nanofibers networks for highâ€performance flexible energy storage. Energy Storage Materials, 2022, 44, 250-262.	9.5	35
1381	Waste tire-derived porous nitrogen-doped carbon black as an electrode material for supercapacitors. Sustainable Chemistry and Pharmacy, 2021, 24, 100535.	1.6	6
1382	Boosting microbial electrocatalysis via localized high electron shuttles concentration by monolithic electrode based on nanostructured nitrogen-doped carbon microtubes. Journal of Power Sources, 2021, 514, 230557.	4.0	6
1383	Microwave synthesis of binder-free melamine sponge-derived NiSe2 electrodes for asymmetric supercapacitor. Solid State Ionics, 2021, 372, 115787.	1.3	2
1384	Pyrolytic carbon black-derived porous carbon with spherical skeleton as recovered and enduring electrode material for supercapacitor. Journal of Energy Storage, 2021, 44, 103372.	3.9	23
1385	Hierarchical Nanostructures: Application to Supercapacitors. RSC Nanoscience and Nanotechnology, 2014, , 204-229.	0.2	0
1386	Uniformly Polyaniline-decorated Carbon Nanofibers as Active Materials for Improved Supercapacitor Properties. , 2018, , 699-708.		0
1387	Diverse Properties of Carbon-Substituted Silicenes. Frontiers in Physics, 2020, 8, .	1.0	0
1388	In-situ design of porous vanadium nitride@carbon nanobelts: A promising material for high-performance asymmetric supercapacitors. Applied Surface Science, 2022, 575, 151734.	3.1	31
1389	Cobalt embedded in porous carbon fiber membranes for high-performance lithium-sulfur batteries. Carbon, 2022, 187, 187-195.	5.4	27

#	Article	IF	Citations
1390	Layered nanoreactor assisted to produce B-doped and P-doped 3D carbon nanostructures for supercapacitor electrodes. Journal of Energy Storage, 2021, 44, 103514.	3.9	13
1391	Flexible and self-standing polyimide/lignin-derived carbon nanofibers for high-performance supercapacitor electrode material applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 275, 115530.	1.7	10
1392	SWCNTs/phthalocyanine polymer composite derived nitrogen self-doped graphene-like carbon for high-performance supercapacitors electrodes. Materials Chemistry and Physics, 2022, 277, 125433.	2.0	4
1393	One-Step Hydrothermal Synthesis of Nitrogen-Doped Reduced Graphene Oxide/Hausmannite Manganese Oxide for Symmetric and Asymmetric Pseudocapacitors. ACS Omega, 2021, 6, 31421-31434.	1.6	6
1394	Black titania; novel researches in synthesis and applications. Inorganic Chemistry Communication, 2022, 135, 109092.	1.8	8
1395	Sustainable Lignin-Derived Hierarchical Porous Carbon for Supercapacitors: A Novel Approach for Holding Electrochemical Attraction Natural Texture Property of Precursor. ACS Omega, 2021, 6, 33171-33179.	1.6	15
1396	High-performance asymmetric supercapacitor achieved by CoS2 nanoparticles decorated polyaniline functionalized SBA-15-derived mesoporous nitrogen-doped carbon with rod-like architectures. Journal of Alloys and Compounds, 2022, 898, 162773.	2.8	6
1397	Nitrogen-doped porous carbon microsphere with high surface area for supercapacitors and capacitive deionization. Journal of Porous Materials, 2022, 29, 415-422.	1.3	8
1398	Hydrothermal, KOH-assisted synthesis of lignin-derived porous carbon for supercapacitors: value-added of lignin and constructing texture properties/specific capacitance relationships. Journal of Materials Research and Technology, 2022, 16, 570-580.	2.6	18
1399	A bubble-templated approach to holey N/S-codoped carbon nanosheet aerogels with honeycomb-like structure for supercapacitors. Electrochimica Acta, 2022, 404, 139741.	2.6	13
1400	Nitrogen rich hollow carbon spheres with well-developed mesoporous: An efficient adsorbent for tetracycline removal. Journal of Environmental Chemical Engineering, 2022, 10, 107043.	3.3	1
1401	Surface engineering of reclaimed carbon fiber (RCF) electrode for superimposed supercapacitor performance. Journal of Energy Storage, 2022, 46, 103786.	3.9	6
1402	Controlled synthesis of carbon spheres via the modulation of the hydrophobic length of fatty aldehyde for supercapacitors. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 636, 128064.	2.3	5
1403	Facile method to produce sub-1Ânm pore-rich carbon from biomass wastes for high performance supercapacitors. Journal of Colloid and Interface Science, 2022, 612, 213-222.	5.0	13
1404	A sustainable one-step strategy for highly graphitized capacitive carbons with hierarchical microâ€“mesoâ€“macro porosity. Nanoscale Advances, 2022, 4, 1394-1407.	2.2	13
1405	CoFe₂O₄ Nanoparticle Decorated Hierarchical Biomass Derived Porous Carbon Based Nanocomposites for High-Performance All-Solid-State Flexible Asymmetric Supercapacitor Devices. ACS Applied Electronic Materials, 2022, 4, 795-806.	2.0	24
1406	Preparation of hierarchically porous carbons with enhanced porosity and energy storage capacity through an internal phase-external phase coefficient HIPE templating. Microporous and Mesoporous Materials, 2022, 330, 111614.	2.2	5
1407	Oxides free materials for asymmetric capacitor. , 2022, , 95-113.		0

#	Article	IF	Citations
1408	Highly porous carbon nanoparticles from biowaste for wastewater treatment. , 2022, , 339-361.		1
1409	Structural design and mechanism analysis of hierarchical porous carbon fibers for advanced energy and environmental applications. Journal of Materials Chemistry A, 2021, 10, 10-49.	5.2	23
1410	Cellulose Nanocrystals in Sustainable Energy Systems. Advanced Sustainable Systems, 2022, 6, .	2.7	15
1411	Valorization of lignin: Application of lignin-derived activated carbon in capacitors and investigation of its textural properties and electrochemical performance. Diamond and Related Materials, 2022, 122, 108791.	1.8	11
1412	Hydrogen bonds to balance mechanical and adhesive properties of pectin/polyacrylic acid blends as efficient binders for cathode in lithium-sulfur battery. Materials Today Communications, 2022, 31, 103211.	0.9	5
1413	Heteroatom-doped porous carbon microspheres derived from ionic liquid-lignin solution for high performance supercapacitors. Journal of Colloid and Interface Science, 2022, 614, 566-573.	5.0	43
1414	Facile fabrication of oxygen and nitrogen co-doped 3D-carbon nanoarrays for high performance environmentally friendly wireless charging integration supercapacitor. Journal of Energy Storage, 2022, 49, 104082.	3.9	2
1415	Carbon and carbon paste electrodes. , 2022, , 79-114.		7
1416	Preparation of N/O-codoped quinoline pitch-based porous carbons for high-quality supercapacitor electrodes. New Journal of Chemistry, 2022, 46, 5266-5277.	1.4	5
1417	SnO2 nanosheets grown on in-situ formed N-doped branched TiO2/C nanofibers as binder-free anodes for sodium-ion storage. Electrochimica Acta, 2022, 411, 140049.	2.6	14
1418	Facile synthesis of phosphorus/oxygen co-doped hierarchically porous carbon nanosheets using a layered nanoreactor and moderate porosity for high-performance supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2022, 33, 5501.	1.1	1
1419	Biowaste-derived electrode and electrolyte materials for flexible supercapacitors. Chemical Engineering Journal, 2022, 435, 135058.	6.6	25
1421	N-doped porous carbons derived from Zn-porphyrin-MOF. RSC Advances, 2022, 12, 5979-5989.	1.7	1
1422	Ionic liquid surfactant-derived carbon micro/nanostructures toward application of supercapacitors. Inorganic Chemistry Frontiers, 2022, 9, 1609-1621.	3.0	5
1423	Characterization and capacitive performance assessment of potato peels derived salt-induced porous carbons. Biomass Conversion and Biorefinery, 0, , 1.	2.9	2
1424	Tailoring Mesopores and Nitrogen Groups of Carbon Nanofibers for Polysulfide Entrapment in Lithiumâ€“Sulfur Batteries. Polymers, 2022, 14, 1342.	2.0	2
1425	High-performance freestanding supercapacitor electrode based on polypyrrole coated nickel cobalt sulfide nanostructures. Scientific Reports, 2022, 12, 4628.	1.6	29
1426	Polymer Derived Carbon Nanostructure Electrodes for Solid-State Supercapacitor. ECS Journal of Solid State Science and Technology, 2022, 11, 043003.	0.9	3

#	Article	IF	Citations
1427	Recent progress on supercapacitive performance of agrowaste fibers: a review. Critical Reviews in Solid State and Materials Sciences, 2023, 48, 289-331.	6.8	6
1428	Enhancing the mechanical properties of fluororubber through the formation of crosslinked networks with aminated multi-walled carbon nanotubes and reduced graphene oxides. Composites Part C: Open Access, 2022, 7, 100245.	1.5	3
1429	Screen-printing of core-shell Mn3O4@C nanocubes based sensing microchip performing ultrasensitive recognition of allura red. Food and Chemical Toxicology, 2022, 162, 112908.	1.8	12
1430	Effect of the second heat treatment on the porosity and conductivity of a template-synthesized carbon material for use in supercapacitor electrodes. Solid State Sciences, 2022, 128, 106871.	1.5	5
1431	Methylene blue enhanced bamboo activated carbon as high performance supercapacitor electrode materials. Industrial Crops and Products, 2022, 180, 114786.	2.5	13
1432	Oxygenated N-doped porous carbon derived from ammonium alginate: Facile synthesis and superior electrochemical performance for supercapacitor. Journal of Energy Storage, 2022, 51, 104342.	3.9	14
1433	Schiffâ€bases for sustainable battery and supercapacitor electrodes. Exploration, 2021, 1, .	5.4	21
1434	Effective and Selective Removal of Phosphate from Wastewater Using Guanidinium-Functionalized Polyelectrolyte-Modified Electrodes in Capacitive Deionization. ACS ES&T Water, 2022, 2, 237-246.	2.3	15
1435	Flexible Solid-State Supercapacitor with High Energy Density Enabled by N/B/O-Codoped Porous Carbon Nanoparticles and Imidazolium-Based Gel Polymer Electrolyte. ACS Sustainable Chemistry and Engineering, 2022, 10, 5548-5558.	3.2	13
1436	Macroporous nitrogen-containing carbon for electrochemical capacitors. Electrochimica Acta, 2022, 418, 140370.	2.6	2
1437	N-Doped Two-Dimensional Carbon Nanosheets with Micropore-Dominant Porosity for High-Performance Supercapacitor. SSRN Electronic Journal, 0, , .	0.4	0
1438	Structures, properties, and applications of nitrogen-doped graphene. Theoretical and Computational Chemistry, 2022, , 211-248.	0.2	3
1439	Oxygen Vacanciesâ€rich Manganese Oxide with Floweâ€like Nanosheets for High Performance Supercapacitors. Electroanalysis, 2023, 35, .	1.5	2
1440	Molecular structure effects of mesophase pitch and isotropic pitch on morphology and properties of carbon nanofibers by electrospinning. Diamond and Related Materials, 2022, 126, 109079.	1.8	2
1441	Electrolyte as a panacea to contemporary scientific world of super-capacitive energy: A condense report. Journal of Energy Storage, 2022, 52, 104740.	3.9	13
1442	Ultrafast and selective adsorption of anionic dyes with amine-functionalized glucose-based adsorbents. Journal of Molecular Structure, 2022, 1263, 133150.	1.8	14
1443	Facile synthesis of porphyrin-MOFs with high photo-Fenton activity to efficiently degrade ciprofloxacin. Journal of Colloid and Interface Science, 2022, 622, 690-699.	5.0	16
1444	Supercapacitance in graphene oxide materials modified with tetrapyrrole dyes: a mechanistic study. Nanoscale, 2022, 14, 8534-8547.	2.8	1

#	Article	IF	Citations
1445	Sequential Infiltration Synthesis for High-Precision Fabrication of Applied Ceramic Fibers with Designed Nanostructuresâ"€Nanowires, Nanobelts, and Coreâ€"Shell Fibers. ACS Applied Nano Materials, 2022, 5, 7228-7236.	2.4	4
1446	Chemical co-activated modified small mesoporous carbon derived from nature anthracite toward enhanced supercapacitive behaviors. Journal of Electroanalytical Chemistry, 2022, 917, 116417.	1.9	3
1447	Symmetric supercapacitor devices based on pristine g-C3N4 mesoporous nanosheets with exceptional stability and wide operating voltage window. Journal of Energy Storage, 2022, 52, 104850.	3.9	16
1448	Self-Affinity of Aunps on Polyethyleneimine (Pei) Functionalized Polypyrrole-Derived Carbon Nanotubes Hybrid Nanocomposite: A Novel Interference-Free Electrochemical Sensing Platform for Caffeine Detection. SSRN Electronic Journal, 0, , .	0.4	0
1449	Hierarchical nanoarchitectonics of ordered mesoporous carbon from lignin for high-performance supercapacitors. International Journal of Biological Macromolecules, 2022, 213, 610-620.	3.6	19
1450	Electrochemical properties of modified poly(4-aminothiophenol)-Zn-Ni MOF-reduced graphene oxide nanocomposite for high-performance supercapacitors. Fuel, 2022, 324, 124724.	3.4	10
1451	Applications, drawbacks, and future scope of nanoparticle-based polymer composites. , 2022, , 243-275.		6
1452	Role of bacterial nanocellulose polymer composites on the adsorption of organic dyes from wastewater. , 2022, , 665-680.		1
1453	N-doped carbon-coated Cu2O nanowire arrays on copper foam for rapid and stable water disinfection. Journal of Colloid and Interface Science, 2022, 625, 761-773.	5.0	3
1454	Electrochemical performance of honeycomb graphene prepared from acidic graphene oxide via a chemical expansion method. Journal of Electroanalytical Chemistry, 2022, 920, 116545.	1.9	4
1455	Cross-linked copolymer derived nitrogen-doped hierarchical porous carbon with high-performance lithium storage capability. Materials Advances, 0, , .	2.6	0
1456	Nitrogen optimized highly stable carbon for increasing the efficiency of supercapacitors. International Journal of Energy Research, 2022, 46, 15850-15863.	2.2	2
1457	Supercapacitor performance of nitrogen doped graphene synthesized via DMF assisted single-step solvothermal method. FlatChem, 2022, 34, 100400.	2.8	14
1458	Electrodeposited cobalt sulfide nanolayer fenced nickel-copper carbonate hydroxide nanowires as an electrode for hybrid supercapacitors: A wind turbine-driven energy storage system for portable applications. Applied Surface Science, 2022, 602, 154288.	3.1	5
1459	Catalytic oxidation of acetaminophen through pristine and surface-modified nitrogen-doped carbon-nanotube-catalyzed peroxydisulfate activation. Journal of Environmental Chemical Engineering, 2022, 10, 108257.	3.3	20
1460	Preparation of Nitrogen Doped Carbon Materials and Analysis of Their Electrochemical Performance. International Journal of Electrochemical Science, 2022, 17, 220825.	0.5	3
1461	Facile preparation of nitrogen-doped hierarchical porous carbon derived from lignin with KCl for supercapacitors. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129622.	2.3	14
1462	Recent progress on biomass waste derived activated carbon electrode materials for supercapacitors applicationsâ€"A review. Journal of Energy Storage, 2022, 54, 105290.	3.9	79

#	Article	IF	Citations
1463	Efficient and reductive removal of bromate using a novel and stable nanoscale zero-valent iron embedded in N-doped carbon derived from metal-organic frameworks. Chemosphere, 2022, 306, 135503.	4.2	1
1464	Structural and Electrochemical Properties of KOH-Activated Carbon Soot Derived from Sinapis alba (Yellow Mustard Oil) for EDLC Application. Journal of Electronic Materials, 2022, 51, 5670-5685.	1.0	2
1465	A New Figure of Merit for Solar Charging Systems: Case Study for Monolithically Integrated Photosupercapacitors Composed of a Largeâ€Area Organic Solar Cell and a Carbon Doubleâ€Layer Capacitor. Solar Rrl, 2022, 6, .	3.1	9
1466	A comprehensive review of capacitive deionization technology with biochar-based electrodes: Biochar-based electrode preparation, deionization mechanism and applications. Chemosphere, 2022, 307, 136024.	4.2	20
1467	Role of co-existing anions in non-radical and radical processes of carbocatalyzed persulfate activation for acetaminophen degradation. Environmental Science: Water Research and Technology, 2022, 8, 2940-2955.	1.2	7
1468	Anchoring high-mass iodine to nanoporous carbon with large-volume micropores and rich pyridine-N sites for high-energy-density and long-life Zn-I2 aqueous battery. Science China Materials, 2023, 66, 556-566.	3.5	13
1469	Nanoemulsion Technique for the Syntheses of N-Doped Porous Carbon Nanospheres and Their Application in Energy Storage Devices. Energy & Fuels, 2022, 36, 12285-12298.	2.5	4
1470	Pd-Decorated Hierarchically Porous Carbon Nanofibers for Enhanced Selective Hydrogenation of Phenol. Industrial & Engineering Chemistry Research, 2022, 61, 13416-13430.	1.8	7
1471	Engineering Oxygen Vacancies on Mixed-Valent Mesoporous Î±-MnO₂ for High-Performance Asymmetric Supercapacitors. Langmuir, 2022, 38, 12530-12538.	1.6	8
1472	Preparation of N-doped porous carbon nanofibers derived from their phenolic-resin-based analogues for high performance supercapacitor. Journal of Electroanalytical Chemistry, 2022, 925, 116869.	1.9	4
1473	Self-affinity of AuNPs on polyethyleneimine (PEI) functionalized polypyrrole-derived carbon nanotubes hybrid nanocomposite: a novel interference-free electrochemical sensing platform for caffeine detection. Journal of Electroanalytical Chemistry, 2022, , 116882.	1.9	4
1474	The intercalation cathode of MOFs-driven vanadium-based composite embedded in N-doped carbon for aqueous zinc ion batteries. Chemical Engineering Journal, 2023, 452, 139573.	6.6	51
1475	Nanoarchitectonics with beetroot peel waste derived activated carbon for improved electrochemical performances in supercapacitors using redox additive electrolyte. Journal of Electroanalytical Chemistry, 2022, 924, 116857.	1.9	8
1476	Preparation and Electrochemical Characterization of Porous Carbon Foam from Waste Floral Foam for Supercapacitors. Korean Journal of Materials Research, 2022, 32, 369-378.	0.1	0
1477	N-Doped Two-Dimensional Carbon Nanosheets with Micropore-Dominant Porosity for High-Performance Supercapacitors. Energy & Fuels, 2022, 36, 13246-13255.	2.5	5
1478	Synthesis of Boron-Doped Non-Flammable Anhydrous Electrolytes for Flexible Quasi-Solid-State Supercapacitor Applications. Energy & Fuels, 2022, 36, 13229-13237.	2.5	5
1479	Recent Development of Multifunctional Nanocomposites Based on Bacterial Nanocellulose. Nanoscience and Technology, 2023, , 75-105.	1.5	0
1480	Recent development of carbon electrode materials for electrochemical supercapacitors. Energy Reports, 2022, 8, 656-661.	2.5	21

#	Article	IF	Citations
1481	Robust N-doping porous carbon nanofiber membranes with inter-fiber cross-linked structures for supercapacitors. Carbon, 2023, 202, 13-25.	5.4	16
1482	Structurally Controllable Hay-Slag-Based Porous Carbons for Supercapacitor and CO₂ Adsorption Applications. International Journal of Nanoscience, 0, , .	0.4	0
1483	Enhanced capacitance of phosphorus, nitrogen, and oxygen tri-doped balsa wood-based porous carbon for supercapacitors. Journal of Energy Storage, 2023, 58, 106339.	3.9	14
1484	Constructing conjugated microporous polymers containing triphenylamine moieties for high-performance capacitive energy storage. Polymer, 2023, 264, 125541.	1.8	23
1485	A novel Co3Mo3N self-embedded in porous carbon nanocomposite derived from Mo doped ZIF-67: An effective catalyst for electrochemical H2O2 sensing. Microchemical Journal, 2023, 185, 108296.	2.3	7
1486	Strategies for enhancing the catalytic activity and electronic conductivity of MOFs-based electrocatalysts. Coordination Chemistry Reviews, 2023, 478, 214969.	9.5	35
1488	Design of hierarchically porous carbon frameworks for enhanced CO2 capture performance. Journal of Environmental Chemical Engineering, 2023, 11, 109321.	3.3	3
1489	Oxygenated Hydrocarbons from Catalytic Hydrogenation of Carbon Dioxide. Catalysts, 2023, 13, 115.	1.6	6
1490	Regulating the specific surface area and porous structure of carbon for high performance supercapacitors. Applied Surface Science, 2023, 615, 156267.	3.1	26
1491	Ultrafine Carbon-Nanofiber-Reinforced Graphene Fiber Electrodes for Flexible Supercapacitors with High Specific Capacitance and Durable Cycle Stability. ACS Applied Energy Materials, 2023, 6, 353-361.	2.5	5
1492	Construction of a Molecularly Imprinted Sensor Modified with Tea Branch Biochar and Its Rapid Detection of Norfloxacin Residues in Animal-Derived Foods. Foods, 2023, 12, 544.	1.9	9
1493	Potential impact of smart-hybrid supercapacitors in novel electronic devices and electric vehicles. , 2023, , 795-850.		1
1494	Healable supercapacitors. , 2023, , 613-628.		0
1495	Fabrication of a flexible porous polypyrrole film with a 3D micro-nanostructure and its electrochemical properties. Physical Chemistry Chemical Physics, 2023, 25, 10925-10934.	1.3	0
1496	Binder-Free Supercapacitors. Springer Series in Materials Science, 2023, , 195-223.	0.4	0
1497	Performance evaluation of HCOOH micro-fluidic fuel cell using Ni wire electrode. Journal of Electroanalytical Chemistry, 2023, 932, 117245.	1.9	1
1498	Niobium- and cobalt-modified dual-source-derived porous carbon with a honeycomb-like stable structure for supercapacitor and hydrogen evolution reaction. Journal of Colloid and Interface Science, 2023, 639, 33-48.	5.0	6
1499	Construction of Mo2N nanoparticles embedded in N, O-doped carbon sheets and its supercapacitive behaviors. Journal of Alloys and Compounds, 2023, 946, 169458.	2.8	6

#	Article	IF	Citations
1500	Switching the locus of oxygen reduction and evolution reactions between spinel active phase and carbon carrier upon heteroatoms doping. Catalysis Today, 2023, 418, 114043.	2.2	1
1501	Electrospun amorphous CoOx/C composite nanofibers doped with heteroatoms for symmetric supercapacitors. Fuel, 2023, 341, 127735.	3.4	8
1502	Hydrogel-derived nitrogen-doped porous carbon framework with vanadium nitride decoration for supercapacitors with superior cycling performance. Journal of Materials Science and Technology, 2023, 155, 167-174.	5.6	3
1503	Lamellar and Nanofiber-Based Proton Exchange Membranes for Hydrogen Fuel Cell. , 2023, , 167-217.		0
1504	Porous Carbon Nanofiber Flexible Membranes via a Bottlebrush Copolymer Template for Enhanced High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2023, 15, 5644-5656.	4.0	2
1505	Synergistic effect in g-C3N4/CuO nanohybrid structures as efficient electrode material for supercapacitor applications. Inorganic Chemistry Communication, 2023, 150, 110557.	1.8	6
1506	Electrospun porous carbon nanofibers derived from bio-based phenolic resins as free-standing electrodes for high-performance supercapacitors. Frontiers of Chemical Science and Engineering, 2023, 17, 504-515.	2.3	5
1507	Fabrication of Porous Carbon Nanofibers from Polymer Blends Using Template Method for Electrode-Active Materials in Supercapacitor. Molecules, 2023, 28, 2228.	1.7	6
1508	Nanostructured Conducting Polymers and Their Applications in Energy Storage Devices. Polymers, 2023, 15, 1450.	2.0	12
1509	Polyaniline combining with ultrathin manganese dioxide nanosheets on carbon nanofibers as effective binder-free supercapacitor electrode. Electrochimica Acta, 2023, 450, 142275.	2.6	12
1510	Boosting the crystallinity of novel two-dimensional hexamine dipyrazino quinoxaline-based covalent organic frameworks for electrical double-layer supercapacitors. Materials Chemistry Frontiers, 2023, 7, 2464-2474.	3.2	9
1511	Heteroatom-Enhanced Porous Carbon Materials Based on Polybenzoxazine for Supercapacitor Electrodes and CO2 Capture. Polymers, 2023, 15, 1564.	2.0	3
1512	Ordered porous nitrogen-vacancy carbon nitride for efficient visible-light hydrogen evolution. Journal of Colloid and Interface Science, 2023, 642, 53-60.	5.0	1
1513	Boosting the electrochemical performance of ZnO nanomaterials through a conductive CuS matrix for aqueous supercapacitors. New Journal of Chemistry, 2023, 47, 7819-7829.	1.4	1
1514	Polymers/graphene derivativeâ€“based nanocomposites as electrode materials for supercapacitors. , 2023, , 451-474.		0
1515	Inâ€‰Situ Sâ€Doped Graphene Film using NaHSO ₃ as Sulfur Source for Highâ€Performance Flexible Supercapacitors. Energy Technology, 0, , .	1.8	0
1516	Waste plastic to energy storage materials: a state-of-the-art review. Green Chemistry, 2023, 25, 3738-3766.	4.6	8
1523	Carbon-/boron-/nitrogen-substituted germaneness. , 2023, , 113-172.		0

#	Article	IF	Citations
1536	Capacitive Deionization Water Desalination Technology, Process Optimization and Cost Analysis - A Review. Advances in Science and Technology, 0, , .	0.2	0
1541	Carbon Nanomaterials for Capacitive Deionization: Heteroatom Doping and Its Functionalities. , 2023, , 23-59.		0