

Carbon/carbon supercapacitors

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Highly confined ions store charge more efficiently in supercapacitors. <i>Nature Communications</i> , 2013, 4, 2701.	5.8	570
3	Effect of unequal load of carbon xerogel in electrodes on the electrochemical performance of asymmetric supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 481-489.	1.5	11
4	On the Dynamics of Charging in Nanoporous Carbon-Based Supercapacitors. <i>ACS Nano</i> , 2014, 8, 1576-1583.	7.3	201
5	Metal-organic complexes as redox candidates for carbon based pseudo-capacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18132-18138.	5.2	19
6	Kroll-carbons based on silica and alumina templates as high-rate electrode materials in electrochemical double-layer capacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5131.	5.2	27
7	The effect of the carbon surface chemistry and electrolyte pH on the energy storage of supercapacitors. <i>RSC Advances</i> , 2014, 4, 32398-32404.	1.7	45
8	Lithium manganese spinel materials for high-rate electrochemical applications. <i>Journal of Energy Chemistry</i> , 2014, 23, 543-558.	7.1	59
9	Monovalent silicotungstate salts as electrolytes for electrochemical supercapacitors. <i>Electrochimica Acta</i> , 2014, 138, 240-246.	2.6	27
10	One-pot synthesis of microporous carbons highly enriched in nitrogen and their electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14439-14448.	5.2	74
11	Facile growth of hollow porous NiO microspheres assembled from nanosheet building blocks and their high performance as a supercapacitor electrode. <i>CrystEngComm</i> , 2014, 16, 10389-10394.	1.3	51
12	Electrochemical fabrication of a porous network MnO ₂ /poly(5-cyanoindole) composite and its capacitance performance. <i>Electrochimica Acta</i> , 2014, 138, 270-277.	2.6	42
13	Simultaneous reduction, exfoliation, and nitrogen doping of graphene oxide via a hydrothermal reaction for energy storage electrode materials. <i>Carbon</i> , 2014, 69, 66-78.	5.4	169
14	Effect of binder on the performance of carbon/carbon symmetric capacitors in salt aqueous electrolyte. <i>Electrochimica Acta</i> , 2014, 140, 132-138.	2.6	152
15	A dandelion-like carbon microsphere/MnO ₂ nanosheets composite for supercapacitors. <i>Journal of Energy Chemistry</i> , 2014, 23, 82-90.	7.1	34
16	Ionic liquid based EDLCs: influence of carbon porosity on electrochemical performance. <i>Faraday Discussions</i> , 2014, 172, 163-177.	1.6	15
17	Activated Carbon-Coated Carbon Nanotubes for Energy Storage in Supercapacitors and Capacitive Water Purification. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1289-1298.	3.2	209
18	Advanced Materials for Supercapacitors. <i>Electrochemical Energy Storage and Conversion</i> , 2015, , 423-449.	0.0	0
20	Influence of chemical structure of dyes on capacitive dye removal from solutions. <i>Electrochimica Acta</i> , 2015, 174, 588-595.	2.6	34

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21	Graphene oxides and carbon nanotubes embedded in polyacrylonitrile-based carbon nanofibers used as electrodes for supercapacitor. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 85, 62-68.	1.9	46
22	Preparation of activated carbon aerogel and its application to electrode material for electric double layer capacitor in organic electrolyte: Effect of activation temperature. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 248-254.	1.2	24
23	Simulations of room temperature ionic liquids: from polarizable to coarse-grained force fields. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14270-14279.	1.3	145
24	Effect of reduction heat treatment in H ₂ atmosphere on structure and electrochemical properties of activated carbon. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1437-1446.	1.2	17
25	Urea-assisted hydrothermal synthesis of manganese dioxides with various morphologies for hybrid supercapacitors. <i>Journal of Alloys and Compounds</i> , 2015, 648, 190-194.	2.8	21
26	Narrow-porous pitch-based carbon fibers of superior capacitance properties in aqueous electrolytes. <i>Electrochimica Acta</i> , 2015, 167, 348-356.	2.6	29
27	High rate capability Li ₃ V ₂ As _x Nix(PO ₄) ₃ /C (x = 0, 0.05, and 0.1) cathodes for Li-ion asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11807-11816.	5.2	34
29	High-rate supercapacitive performance of GO/r-GO electrodes interfaced with plastic-crystal-based flexible gel polymer electrolyte. <i>Electrochimica Acta</i> , 2015, 182, 995-1007.	2.6	37
30	Nanostructured Transition Metal Oxides Produced by Electrodeposition for Application as Redox Electrodes for Supercapacitors. , 2015, , 1-27.		4
31	Hydrothermal functionalization of ordered mesoporous carbons: The effect of boron on supercapacitor performance. <i>Carbon</i> , 2015, 95, 72-83.	5.4	102
32	Aligned carbon nanostructures based 3D electrodes for energy storage. <i>Journal of Energy Chemistry</i> , 2015, 24, 559-586.	7.1	19
33	The performance of supercapacitor electrodes developed from chemically activated carbon produced from waste tea. <i>Applied Surface Science</i> , 2015, 357, 696-703.	3.1	188
34	Graphene in Supercapacitor Applications. <i>Current Opinion in Colloid and Interface Science</i> , 2015, 20, 416-428.	3.4	154
35	Effects of structural design on the performance of electrical double layer capacitors. <i>Applied Energy</i> , 2015, 138, 631-639.	5.1	26
36	Non-aqueous gel polymer electrolyte with phosphoric acid ester and its application for quasi solid-state supercapacitors. <i>Journal of Power Sources</i> , 2015, 274, 1147-1154.	4.0	62
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38	A Comprehensive Study on Rechargeable Energy Storage Technologies. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2016, 13, .	1.1	25
39	Time-dependent density functional theory for the charging kinetics of electric double layer containing room-temperature ionic liquids. <i>Journal of Chemical Physics</i> , 2016, 145, 204707.	1.2	41

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40	Electrochemical impedance spectroscopy study of carbon electrodes prepared from date pits and fibers of oil palm empty fruit bunches. , 2016, , .		1
41	Facile synthesis and electrochemical properties of nanoflake VN for supercapacitors. CrystEngComm, 2016, 18, 3040-3047.	1.3	53
42	Pore size-controlled carbon aerogels for EDLC electrodes in organic electrolytes. Current Applied Physics, 2016, 16, 665-672.	1.1	40
43	A Generic Model for Electric Double Layers in Porous Electrodes. Journal of Physical Chemistry C, 2016, 120, 8704-8710.	1.5	73
44	Enhancing the Capacitive Performance of Electric Double-Layer Capacitors with Ionic Liquid Mixtures. ACS Energy Letters, 2016, 1, 21-26.	8.8	146
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66	Synthesis and characterization of γ -Ni(OH) ₂ embedded with MgO and ZnO nanoparticles as nanohybrids for energy storage devices. Materials Research Express, 2017, 4, 065503.	0.8	30
67	Sonochemical synthesis of porous nanowall Co ₃ O ₄ /nitrogen-doped reduced graphene oxide as an efficient electrode material for supercapacitors. Journal of Materials Science: Materials in Electronics, 2017, 28, 14504-14514.	1.1	13
68	Impurity Effects on Charging Mechanism and Energy Storage of Nanoporous Supercapacitors. Journal of Physical Chemistry C, 2017, 121, 14066-14072.	1.5	45
69	Li ₂ SO ₄ -polyacrylamide polymer electrolytes for 2.0 V solid symmetric supercapacitors. Electrochemistry Communications, 2017, 81, 52-55.	2.3	33
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75	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

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77	Decoration of nitrogen-doped reduced graphene oxide with cobalt tungstate nanoparticles for use in high-performance supercapacitors. Applied Surface Science, 2017, 423, 1025-1034.	3.1	180
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87	The supercapacitor performance of hierarchical porous activated carbon electrodes synthesised from demineralised (waste) cumin plant by microwave pretreatment. Journal of Industrial and Engineering Chemistry, 2018, 61, 124-132.	2.9	50
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89	Hydrothermal synthesis of CoMoO ₄ /Co 1- x S hybrid on Ni foam for high-performance supercapacitors. Journal of Energy Chemistry, 2018, 27, 478-485.	7.1	35
90	Sustainable materials for electrochemical capacitors. Materials Today, 2018, 21, 437-454.	8.3	255
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93	Reduced graphene oxide as a multi-functional conductive binder for supercapacitor electrodes. Energy Storage Materials, 2018, 12, 128-136.	9.5	167

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95	Metal sputtered graphene based hybrid films comprising tin oxide/reduced graphene oxide/Ni as electrodes for high-voltage electrochemical capacitors. <i>Carbon</i> , 2018, 129, 1-7.	5.4	7
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98	Highly activated porous carbon with 3D microspherical structure and hierarchical pores as greatly enhanced cathode material for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2018, 391, 162-169.	4.0	72
99	Electrochemical Behavior of Nanoporous Supercapacitors with Oligomeric Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14402-14407.	1.5	13
100	Amino-functionalized silica anchored to multiwall carbon nanotubes as hybrid electrode material for supercapacitors. <i>Materials Science for Energy Technologies</i> , 2018, 1, 70-76.	1.0	13
101	Solid-phase diffusion controlled growth of nickel silicide nanowires for supercapacitor electrode. <i>Applied Surface Science</i> , 2018, 456, 515-525.	3.1	16
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106	Contribution of surface oxygen groups to the measured capacitance of porous carbon supercapacitors. <i>Journal of Power Sources</i> , 2018, 395, 271-279.	4.0	62
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108	Three-Dimensional Interconnected Microporous Carbon Network Derived from Aniline Formaldehyde Resin/Sodium Polyacrylate Interpenetrating Polymer Networks (AF/PAAS IPNs) with Controllable Porosity for Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 6440-6452.	2.5	7
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110	Synthesis and characterization of modified chitosan membranes for applications in electrochemical capacitor. <i>Electrochimica Acta</i> , 2019, 320, 134632.	2.6	23
111	N-doped porous carbon film electrodes for electrochemical capacitor, made by electrospray of sol precursors. <i>Carbon</i> , 2019, 154, 33-41.	5.4	16

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120	Ion Dynamics at the Single Wall Carbon Nanotube Based Composite Electrode/Electrolyte Interface: Influence of the Cation Size and Electrolyte pH. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4262-4273.	1.5	9
121	Impurities Limit the Capacitance of Carbon-Based Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4085-4093.	1.5	24
122	Industrial Requirements of Materials for Electrical Double Layer Capacitors: Impact on Current and Future Applications. <i>Advanced Energy Materials</i> , 2019, 9, 1900334.	10.2	151
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125	Superbat: battery-like supercapacitor utilized by graphene foam and zinc oxide (ZnO) electrodes induced by structural defects. <i>Nanoscale Advances</i> , 2019, 1, 2586-2597.	2.2	97
126	From Polyethylene to Highly Graphitic and Magnetic Carbon Spheres Nanocomposites: Carbonization under Pressure. <i>Nanomaterials</i> , 2019, 9, 606.	1.9	6
127	Electroadsorptive Removal of Gaseous Pollutants. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1162.	1.3	2
128	Predicting the capacitance of carbon-based electric double layer capacitors by machine learning. <i>Nanoscale Advances</i> , 2019, 1, 2162-2166.	2.2	52
129	Machine learning models for solvent effects on electric double layer capacitance. <i>Chemical Engineering Science</i> , 2019, 202, 186-193.	1.9	38

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130	Compressed and Crumpled Porous Carbon Electrode for High Volumetric Performance Electrical Double-Layer Capacitors. <i>Energy Technology</i> , 2019, 7, 1900209.	1.8	9
131	Optimizing carbon/carbon supercapacitors in aqueous alkali sulfates electrolytes. <i>Journal of Energy Chemistry</i> , 2019, 38, 219-224.	7.1	34
132	Performance enhancement approach for supercapacitor by using mango kernels derived activated carbon electrode with p-hydroxyaniline based redox additive electrolyte. <i>Materials Chemistry and Physics</i> , 2019, 229, 66-77.	2.0	31
133	Template-Induced Self-Activation Route for Hierarchical Porous Carbon Derived from Interpenetrating Polymer Networks as Electrode Material for Supercapacitors. <i>ChemElectroChem</i> , 2019, 6, 2648-2658.	1.7	16
134	Homogeneous reduced graphene oxide supported NiO-MnO ₂ ternary hybrids for electrode material with improved capacitive performance. <i>Electrochimica Acta</i> , 2019, 303, 246-256.	2.6	140
135	Hexylsulfanyl-substituted CoPc and GO-CoPc on Ni foam as electroactive material for supercapacitors. <i>Journal of Porphyrins and Phthalocyanines</i> , 2019, 23, 1616-1621.	0.4	2
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138	High-temperature tungsten trioxides obtained by concentrated solar energy: physicochemical and electrochemical characterization. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 707-716.	1.2	3
139	Design of organic supercapacitors with high performances using pore size controlled active materials. <i>Current Applied Physics</i> , 2019, 19, 89-96.	1.1	10
140	Novel Keplerate type polyoxometalate-surfactant-graphene hybrids as advanced electrode materials for supercapacitors. <i>Energy Storage Materials</i> , 2019, 17, 186-193.	9.5	34
141	Microwave-assisted conversion of biomass wastes to pseudocapacitive mesoporous carbon for high-performance supercapacitor. <i>Journal of Energy Chemistry</i> , 2019, 39, 1-7.	7.1	156
142	A highly adhesive PIL/IL gel polymer electrolyte for use in flexible solid state supercapacitors. <i>Electrochimica Acta</i> , 2019, 299, 789-799.	2.6	63
143	Highly mesoporous carbon flakes derived from a tubular biomass for high power electrochemical energy storage in organic electrolyte. <i>Materials Chemistry and Physics</i> , 2019, 223, 16-23.	2.0	41
144	The role of conductive additives on the performance of hybrid carbon xerogels as electrodes in aqueous supercapacitors. <i>Electrochimica Acta</i> , 2019, 295, 693-702.	2.6	18
145	Ag@Activated Carbon Felt Composite as Electrode for Supercapacitors and a Study of Three Different Aqueous Electrolytes. <i>Materials Research</i> , 2019, 22, .	0.6	19
146	High-performance nitrogen-doped hierarchical porous carbon derived from cauliflower for advanced supercapacitors. <i>Journal of Materials Science</i> , 2019, 54, 2446-2457.	1.7	43
147	Flexible GO-CoPc and GO-NiPc nanocomposite electrodes for hybrid supercapacitors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 116, 113766.	1.3	10

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148	N-activated carbon fiber produced by oxidation process design and its application as supercapacitor electrode. <i>Journal of Porous Materials</i> , 2020, 27, 141-149.	1.3	13
149	Mesoporous graphene nanoflakes for high performance supercapacitors with ionic liquid electrolyte. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109851.	2.2	28
151	Supercapacitive and ORR performances of nitrogen-doped hollow carbon spheres pyrolyzed from polystyrene@polypyrrole-polyaniline. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152890.	2.8	25
152	Progress in supercapacitors: roles of two dimensional nanotubular materials. <i>Nanoscale Advances</i> , 2020, 2, 70-108.	2.2	164
153	Casein-Derived Activated Carbon: Turning Expired Milk into Active Material for Electrochemical Capacitors. <i>Energy Technology</i> , 2020, 8, 1901225.	1.8	2
154	Plane tree bark-derived mesopore-dominant hierarchical carbon for high-voltage supercapacitors. <i>Applied Surface Science</i> , 2020, 507, 145190.	3.1	50
155	Interfacial aspects induced by saturated aqueous electrolytes in electrochemical capacitor applications. <i>Electrochimica Acta</i> , 2020, 334, 135572.	2.6	23
156	Thermophysical study of graphene nanoflakes by differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 2641-2648.	2.0	8
157	Symmetric electric double-layer capacitor containing imidazolium ionic liquid-based solid polymer electrolyte: Effect of TiO ₂ and ZnO nanoparticles on electrochemical behavior. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48757.	1.3	27
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