

Electrochemical energy storage in ordered porous carbon

Carbon

43, 1293-1302

DOI: [10.1016/j.carbon.2004.12.028](https://doi.org/10.1016/j.carbon.2004.12.028)

Citation Report

#	ARTICLE	IF	CITATIONS
1	On the electrical double-layer capacitance of mesoporous templated carbons. <i>Carbon</i> , 2005, 43, 3012-3015.	5.4	45
2	Preparation and Hydrogen Storage Properties of Zeolite-Templated Carbon Materials Nanocast via Chemical Vapor Deposition: A Effect of the Zeolite Template and Nitrogen Doping. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18424-18431.	1.2	243
3	Textural and electrochemical properties of carbon replica obtained from styryl organo-modified layered double hydroxide. <i>Journal of Materials Chemistry</i> , 2006, 16, 2074-2081.	6.7	54
4	Chapter 6 Application of nanotextured carbons for supercapacitors and hydrogen storage. <i>Interface Science and Technology</i> , 2006, 7, 293-343.	1.6	9
5	Ordered Porous Carbon with Tailored Pore Size for Electrochemical Hydrogen Storage Application. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4875-4880.	1.2	147
6	Anomalous Increase in Carbon Capacitance at Pore Sizes Less Than 1 Nanometer. <i>Science</i> , 2006, 313, 1760-1763.	6.0	3,404
7	Relationship between the nanoporous texture of activated carbons and their capacitance properties in different electrolytes. <i>Carbon</i> , 2006, 44, 2498-2507.	5.4	878
8	State of hydrogen electrochemically stored using nanoporous carbons as negative electrode materials in an aqueous medium. <i>Carbon</i> , 2006, 44, 2392-2398.	5.4	96
9	Optimisation of supercapacitors using carbons with controlled nanotexture and nitrogen content. <i>Electrochimica Acta</i> , 2006, 51, 2209-2214.	2.6	308
10	Transformation of mesoporous benzene silica to nanoporous carbon. <i>Microporous and Mesoporous Materials</i> , 2006, 91, 276-285.	2.2	12
11	Effect of pore size and surface area of carbide derived carbons on specific capacitance. <i>Journal of Power Sources</i> , 2006, 158, 765-772.	4.0	591
12	Preparation, structural characterization, and electrochemical properties of chemically modified mesoporous carbon. <i>Microporous and Mesoporous Materials</i> , 2006, 96, 357-362.	2.2	129
13	High-performance supercapacitors of hydrous ruthenium oxide/mesoporous carbon composites. <i>Journal of Solid State Electrochemistry</i> , 2006, 11, 283-290.	1.2	16
15	Pore characteristics and electrochemical performance of ordered mesoporous carbons for electric double-layer capacitors. <i>Electrochimica Acta</i> , 2006, 51, 5715-5720.	2.6	104
16	Novel Megalo-Capacitance Capacitor Based on Graphitic Carbon Cathode. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, A561.	2.2	39
17	An Ordered Mesoporous Carbon with Short Pore Length and Its Electrochemical Performances in Supercapacitor Applications. <i>Journal of the Electrochemical Society</i> , 2007, 154, A731.	1.3	138
19	Enhanced Hydrogen Storage Capacity of High Surface Area Zeolite-like Carbon Materials. <i>Journal of the American Chemical Society</i> , 2007, 129, 1673-1679.	6.6	568
20	Mesoporous carbons with KOH activated framework and their hydrogen adsorption. <i>Journal of Materials Chemistry</i> , 2007, 17, 4204.	6.7	127

#	ARTICLE	IF	CITATIONS
21	Experimental and Atomistic Simulation Study of the Structural and Adsorption Properties of Faujasite Zeolite-templated Nanostructured Carbon Materials. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15863-15876.	1.5	54
22	The Large Electrochemical Capacitance of Microporous Doped Carbon Obtained by Using a Zeolite Template. <i>Advanced Functional Materials</i> , 2007, 17, 1828-1836.	7.8	492
23	High Electroactivity of Polyaniline in Supercapacitors by Using a Hierarchically Porous Carbon Monolith as a Support. <i>Advanced Functional Materials</i> , 2007, 17, 3083-3087.	7.8	411
24	Nanocrystalline diamond/carbon felt as a novel composite for electrochemical storage energy in capacitor. <i>Chemical Physics Letters</i> , 2007, 438, 47-52.	1.2	30
25	Resorcinol-formaldehyde based porous carbon as an electrode material for supercapacitors. <i>Carbon</i> , 2007, 45, 160-165.	5.4	90
26	Activation, characterization and hydrogen storage properties of the mesoporous carbon CMK-3. <i>Carbon</i> , 2007, 45, 1989-1996.	5.4	221
27	Electrochemical properties of an ordered mesoporous carbon prepared by direct tri-constituent co-assembly. <i>Carbon</i> , 2007, 45, 2628-2635.	5.4	171
28	Causes of supercapacitors ageing in organic electrolyte. <i>Journal of Power Sources</i> , 2007, 171, 1046-1053.	4.0	348
29	Carbon materials for supercapacitor application. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1774.	1.3	1,772
30	Performance of templated mesoporous carbons in supercapacitors. <i>Electrochimica Acta</i> , 2007, 52, 3207-3215.	2.6	116
31	CO ₂ activation of ordered porous carbon CMK-1 for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 116-123.	3.8	71
32	Preparation and electrochemical hydrogen storage of mesoporous carbons by degradation of polyethylene in supercritical water. <i>Journal of Materials Science</i> , 2008, 43, 1376-1381.	1.7	9
33	Electrochemical performance of Co-Al layered double hydroxide nanosheets mixed with multiwall carbon nanotubes. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 1129-1134.	1.2	77
34	A Universal Model for Nanoporous Carbon Supercapacitors Applicable to Diverse Pore Regimes, Carbon Materials, and Electrolytes. <i>Chemistry - A European Journal</i> , 2008, 14, 6614-6626.	1.7	545
35	Theoretical Model for Nanoporous Carbon Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 520-524.	7.2	526
37	On the performance of supercapacitors with electrodes based on carbon nanotubes and carbon activated material—A review. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2596-2605.	1.3	375
38	Mechanism for electrochemical hydrogen insertion in carbonaceous materials. <i>Journal of Power Sources</i> , 2008, 179, 310-316.	4.0	78
39	Synthesis and properties of new nitrogen-doped nanostructured carbon materials obtained by templating of mesoporous silicas with aminosugars. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1808-1814.	1.9	35

#	ARTICLE	IF	CITATIONS
40	Effect of surface chemistry on electrochemical storage of hydrogen in porous carbon materials. Carbon, 2008, 46, 1053-1059.	5.4	83
41	Hierarchical porous carbons with controlled micropores and mesopores for supercapacitor electrode materials. Carbon, 2008, 46, 1718-1726.	5.4	575
42	KOH activated lignin based nanostructured carbon exhibiting high hydrogen electrosorption. Carbon, 2008, 46, 1948-1956.	5.4	130
43	Post-synthesis modifications of SBA-15 carbon replicas: Improving hydrogen storage by increasing microporous volume. Catalysis Today, 2008, 138, 244-248.	2.2	35
44	Nanoporous carbon electrode from waste coffee beans for high performance supercapacitors. Electrochemistry Communications, 2008, 10, 1594-1597.	2.3	435
45	Electrochemical characterizations of carbon nanomaterials by the cavity microelectrode technique. Electrochimica Acta, 2008, 53, 7675-7680.	2.6	114
46	Carbon molecular sieves as model active electrode materials in supercapacitors. Microporous and Mesoporous Materials, 2008, 110, 431-435.	2.2	28
47	Physical and electrochemical characterization of hydrous ruthenium oxide/ordered mesoporous carbon composites as supercapacitor. Microporous and Mesoporous Materials, 2008, 111, 32-38.	2.2	97
48	Role of microporosity in hydrogen adsorption on templated nanoporous carbons. Microporous and Mesoporous Materials, 2008, 112, 411-418.	2.2	62
49	Materials for electrochemical capacitors. Nature Materials, 2008, 7, 845-854.	13.3	14,090
50	Carbon Electrode Material with High Densities of Energy and Power. Acta Physico-chimica Sinica, 2008, 24, 13-19.	0.6	39
51	Suspension assisted synthesis of triblock copolymer-templated ordered mesoporous carbon spheres with controlled particle size. Chemical Communications, 2008, , 2647.	2.2	39
52	Electrochemical Energy Storage. , 2008, , 593-629.		2
53	Controllable Synthesis of Hierarchical Nanostructured Hollow Core/Mesopore Shell Carbon for Electrochemical Hydrogen Storage. Langmuir, 2008, 24, 12068-12072.	1.6	114
54	Synthesis and High Hydrogen Storage Capacity of Zeolite-Like Carbons Nanocast Using As-Synthesized Zeolite Templates. Journal of Physical Chemistry C, 2008, 112, 2764-2769.	1.5	95
55	Some Effects of Textural Properties of Carbon Fibers from Phenolic Resins on Double-Layer Capacitance in Aprotic Electrolyte. Journal of the Electrochemical Society, 2008, 155, F124.	1.3	3
56	Electrochemical Double Layer Capacitance in Activated Carbon: Ion Size Effects. ECS Transactions, 2010, 25, 163-171.	0.3	7
57	Electrically Modulated Drug Delivery using Nanoporous Electrodes. Materials Research Society Symposia Proceedings, 2009, 1239, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
58	Tuning Carbon Materials for Supercapacitors by Direct Pyrolysis of Seaweeds. <i>Advanced Functional Materials</i> , 2009, 19, 1032-1039.	7.8	566
59	Nitrogen-Enriched Nonporous Carbon Electrodes with Extraordinary Supercapacitance. <i>Advanced Functional Materials</i> , 2009, 19, 1800-1809.	7.8	720
60	Combined Effect of Nitrogen- and Oxygen-Containing Functional Groups of Microporous Activated Carbon on its Electrochemical Performance in Supercapacitors. <i>Advanced Functional Materials</i> , 2009, 19, 438-447.	7.8	1,475
61	Influence of the OMCs pore structures on the capacitive performances of supercapacitor. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 654-659.	0.8	8
62	Quantitative assessment of hysteresis in voltammetric curves of electrochemical capacitors. <i>Adsorption</i> , 2009, 15, 172-180.	1.4	10
63	Striking capacitance of carbon/iodide interface. <i>Electrochemistry Communications</i> , 2009, 11, 87-90.	2.3	248
64	Solvent effect on the ion adsorption from ionic liquid electrolyte into sub-nanometer carbon pores. <i>Electrochimica Acta</i> , 2009, 54, 7025-7032.	2.6	181
65	Electrochemical behaviour of single walled carbon nanotubes – Hydrogen storage and hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8115-8126.	3.8	51
66	Influence of charging parameters on the effectiveness of electrochemical hydrogen storage in activated carbon. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9431-9435.	3.8	23
67	A short review of activated carbon assisted electrosorption process: An overview, current stage and future prospects. <i>Journal of Hazardous Materials</i> , 2009, 170, 552-559.	6.5	169
68	Effect of template and precursor chemistry on pore architectures of triblock copolymer-templated mesoporous carbons. <i>Microporous and Mesoporous Materials</i> , 2009, 121, 58-66.	2.2	24
69	Influence of the carbon precursors on the structural properties of EMT-type nanocasted-carbon replicas. <i>Microporous and Mesoporous Materials</i> , 2009, 126, 101-106.	2.2	22
70	Nanoporous H-sorbed carbon as anode of secondary cell. <i>Journal of Power Sources</i> , 2009, 188, 617-620.	4.0	9
71	Influence of the mesoporous structure on capacitance of the RuO ₂ electrode. <i>Journal of Power Sources</i> , 2009, 189, 1284-1291.	4.0	41
72	Hollow spherical carbon with mesoporous shell as a superb anode catalyst support in proton exchange membrane fuel cell. <i>Catalysis Today</i> , 2009, 146, 25-30.	2.2	60
73	Saturation of subnanometer pores in an electric double-layer capacitor. <i>Electrochemistry Communications</i> , 2009, 11, 554-556.	2.3	107
74	Ordered mesoporous carbons synthesized by a modified sol-gel process for electrosorptive removal of sodium chloride. <i>Carbon</i> , 2009, 47, 775-781.	5.4	229
75	Highly Ordered Mesoporous Carbon as Catalyst for Oxidative Dehydrogenation of Ethylbenzene to Styrene. <i>Chemistry - an Asian Journal</i> , 2009, 4, 1108-1113.	1.7	65

#	ARTICLE	IF	CITATIONS
76	Empirical Analysis of the Contributions of Mesopores and Micropores to the Double-Layer Capacitance of Carbons. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19335-19343.	1.5	70
77	Preparation and Electrochemical Performance of Novel Ordered Mesoporous Carbon with an Interconnected Channel Structure. <i>Langmuir</i> , 2009, 25, 7783-7785.	1.6	91
78	Hierarchical Porous Core-Shell Carbon Nanoparticles. <i>Chemistry of Materials</i> , 2009, 21, 1524-1530.	3.2	41
79	Confinement of Symmetric Tetraalkylammonium Ions in Nanoporous Carbon Electrodes of Electric Double-Layer Capacitors. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13443-13449.	1.5	49
80	Mesoporous Carbon Nanofibers for Supercapacitor Application. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1093-1097.	1.5	196
81	Capacitance of KOH activated carbide-derived carbons. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4943.	1.3	89
82	Hydrogen Storage in High Surface Area Carbons: Experimental Demonstration of the Effects of Nitrogen Doping. <i>Journal of the American Chemical Society</i> , 2009, 131, 16493-16499.	6.6	174
83	Materials for electrochemical capacitors. , 2009, , 320-329.		205
84	Electrical Double-Layer Capacitors and Pseudocapacitors. <i>Advanced Materials and Technologies</i> , 2009, , 329-375.	0.4	13
85	Materials for electrochemical capacitors. , 2010, , 138-147.		25
87	Electrolytes in porous electrodes: Effects of the pore size and the dielectric constant of the medium. <i>Journal of Chemical Physics</i> , 2010, 132, 144705.	1.2	72
88	Supercapacitive transport of pharmacologic agents using nanoporous gold electrodes. <i>Biotechnology Journal</i> , 2010, 5, 192-200.	1.8	24
89	Qualitative Electrochemical Impedance Spectroscopy study of ion transport into sub-nanometer carbon pores in Electrochemical Double Layer Capacitor electrodes. <i>Electrochimica Acta</i> , 2010, 55, 7489-7494.	2.6	156
90	Development of mesoporous structure and high adsorption capacity of biomass-based activated carbon by phosphoric acid and zinc chloride activation. <i>Chemical Engineering Journal</i> , 2010, 158, 129-142.	6.6	423
91	Carbon materials for electrochemical capacitors. <i>Journal of Power Sources</i> , 2010, 195, 7880-7903.	4.0	1,271
92	Preparation of porous doped carbons and the high performance in electrochemical capacitors. <i>Microporous and Mesoporous Materials</i> , 2010, 131, 89-96.	2.2	86
93	Recent Advances in Understanding the Capacitive Storage in Microporous Carbons. <i>Fuel Cells</i> , 2010, 10, 819-824.	1.5	36
94	Pseudocapacitance Effects for Enhancement of Capacitor Performance. <i>Fuel Cells</i> , 2010, 10, 848-855.	1.5	30

#	ARTICLE	IF	CITATIONS
95	Nanostructured Carbon and Carbon Nanocomposites for Electrochemical Energy Storage Applications. <i>ChemSusChem</i> , 2010, 3, 136-168.	3.6	611
96	Nitrogen-Containing Hydrothermal Carbons with Superior Performance in Supercapacitors. <i>Advanced Materials</i> , 2010, 22, 5202-5206.	11.1	849
97	Electrochemical cell studies based on non-aqueous magnesium electrolyte for electric double layer capacitor applications. <i>Journal of Power Sources</i> , 2010, 195, 662-666.	4.0	24
98	Enhanced electrochemical hydrogen storage capacity of activated mesoporous carbon materials containing nickel inclusions. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 12410-12420.	3.8	21
99	Study on synergistic effect of ordered mesoporous carbon and carbon aerogel during electrochemical charge-discharge process. <i>Microporous and Mesoporous Materials</i> , 2010, 131, 261-264.	2.2	51
100	The effects on pore size and particle morphology of heptane additions to the synthesis of mesoporous silica SBA-15. <i>Microporous and Mesoporous Materials</i> , 2010, 133, 66-74.	2.2	58
101	Specific anion and cation capacitance in porous carbon blacks. <i>Carbon</i> , 2010, 48, 1767-1778.	5.4	45
102	Functionalisation and chemical characterisation of cellulose-derived carbon aerogels. <i>Carbon</i> , 2010, 48, 2297-2307.	5.4	103
103	Adjusting the texture and nitrogen content of ordered mesoporous nitrogen-doped carbon materials prepared using SBA-15 silica as a template. <i>Carbon</i> , 2010, 48, 3579-3591.	5.4	99
104	Structure and electrochemical capacitance of carbon cryogels derived from phenol-formaldehyde resins. <i>Carbon</i> , 2010, 48, 3874-3883.	5.4	54
105	Fabrication of porous carbon micropillars using a block copolymer as porogen. <i>Carbon</i> , 2010, 48, 4109-4115.	5.4	22
106	Facile synthesis of bimodal porous silica and multimodal porous carbon as an anode catalyst support in proton exchange membrane fuel cell. <i>Electrochimica Acta</i> , 2010, 55, 7628-7633.	2.6	33
107	1-Methyl-3-butylimidazolium tetrafluoroborate with activated carbon for electrochemical double layer supercapacitors. <i>Electrochimica Acta</i> , 2010, 55, 7506-7510.	2.6	54
108	Effect of diffuse layer and pore shapes in mesoporous carbon supercapacitors. <i>Journal of Materials Research</i> , 2010, 25, 1469-1475.	1.2	53
109	Computational modeling of carbon nanostructures for energy storage applications. , 2010, , .		1
110	Nanostructured materials for the construction of asymmetrical supercapacitors. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2010, 224, 479-503.	0.8	69
111	INFLUENCE OF PORE STRUCTURE ON THE ELECTROCHEMICAL PERFORMANCE OF ACTIVATED CARBON AS ELECTRODE MATERIAL FOR AQUEOUS SUPERCAPACITORS. <i>Functional Materials Letters</i> , 2010, 03, 201-205.	0.7	3
112	Modern Theories of Carbon-Based Electrochemical Capacitors: A Short Review. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
113	Enhancement of Hydrogen Insertion into Carbon Interlayers by Surface Catalytic Poisoning. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19108-19115.	1.5	21
114	Growth of Polyaniline on Hollow Carbon Spheres for Enhancing Electrocapacitance. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19867-19874.	1.5	197
115	A comparative study of chemical treatment by FeCl_3 , MgCl_2 , and ZnCl_2 on microstructure, surface chemistry, and double-layer capacitance of carbons from waste biomass. <i>Journal of Materials Research</i> , 2010, 25, 1451-1459.	1.2	76
116	Influence of the Surface Chemistry of Modified Mesoporous Carbon on the Electrochemical Behavior of Solid-State Supercapacitors. <i>Energy & Fuels</i> , 2010, 24, 3313-3320.	2.5	43
117	Curvature effects in carbon nanomaterials: Exohedral versus endohedral supercapacitors. <i>Journal of Materials Research</i> , 2010, 25, 1525-1531.	1.2	142
118	Hydrogen adsorption in metal-doped highly ordered mesoporous carbon molecular sieve. <i>Journal of Alloys and Compounds</i> , 2010, 498, 168-171.	2.8	19
119	Molecular dynamics simulations of atomically flat and nanoporous electrodes with a molten salt electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 170-182.	1.3	114
120	Evolution of optimal porosity for improved hydrogen storage in templated zeolite-like carbons. <i>Energy and Environmental Science</i> , 2010, 3, 1773.	15.6	63
121	One-Pot Synthesis of PtRu Nanoparticle Decorated Ordered Mesoporous Carbons with Improved Hydrogen Storage Capacity. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22012-22018.	1.5	13
122	Dual diffusion mechanism of argon confined in single-walled carbon nanotube bundles. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6632.	1.3	25
123	Hybrid MnO_2 "disordered mesoporous carbon nanocomposites: synthesis and characterization as electrochemical pseudocapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2010, 20, 390-398.	6.7	78
124	Morphology control of ordered mesoporous carbons by changing HCl concentration. <i>Journal of Materials Chemistry</i> , 2011, 21, 5345.	6.7	24
125	Mesoporous carbon nanospheres with an excellent electrocapacitive performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 2274-2281.	6.7	169
126	Electrochemical capacitance and ionic transport in the mesoporous shell of a hierarchical porous core-shell carbon structure. <i>Journal of Materials Chemistry</i> , 2011, 21, 8880.	6.7	63
127	Monolithic electrode for electric double-layer capacitors based on macro/meso/microporous S-Containing activated carbon with high surface area. <i>Journal of Materials Chemistry</i> , 2011, 21, 2060.	6.7	151
128	Simulating Electric Double Layer Capacitance of Mesoporous Electrodes with Cylindrical Pores. <i>Journal of the Electrochemical Society</i> , 2011, 158, A1106.	1.3	49
129	Recycle of Silicate Waste into Mesoporous Materials. <i>Environmental Science & Technology</i> , 2011, 45, 3695-3701.	4.6	12
130	Oscillation of Capacitance inside Nanopores. <i>Nano Letters</i> , 2011, 11, 5373-5377.	4.5	290

#	ARTICLE	IF	CITATIONS
131	Nitrogen-Doped Graphene for High-Performance Ultracapacitors and the Importance of Nitrogen-Doped Sites at Basal Planes. <i>Nano Letters</i> , 2011, 11, 2472-2477.	4.5	1,547
132	Direct synthesis of flat cake-type ordered mesoporous carbon in a double surfactant system of P123/CTAB. <i>Journal of Materials Chemistry</i> , 2011, 21, 5576.	6.7	19
133	Designing Nanostructured Carbon Xerogels. , 0, , .		5
134	Preparation and characterization of ordered porous carbons for increasing hydrogen storage behaviors. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2655-2660.	1.4	30
135	Preparation of activated carbon from sorghum pith and its structural and electrochemical properties. <i>Materials Research Bulletin</i> , 2011, 46, 413-419.	2.7	82
136	Improvement of electrochemical capacitor electrodes using SiO ₂ nanoparticles. <i>Electrochimica Acta</i> , 2011, 56, 10137-10144.	2.6	28
137	Correlation of hydrogen capacity in carbon material with the parameters of electrosorption. <i>Open Chemistry</i> , 2011, 9, 20-24.	1.0	9
138	Supercapacitive behaviors of worm-like mesoporous carbon in non-aqueous electrolyte. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 71-75.	1.5	7
139	Material advancements in supercapacitors: From activated carbon to carbon nanotube and graphene. <i>Canadian Journal of Chemical Engineering</i> , 2011, 89, 1342-1357.	0.9	154
140	A simplified synthesis of N-doped zeolite-templated carbons, the control of the level of zeolite-like ordering and its effect on hydrogen storage properties. <i>Carbon</i> , 2011, 49, 844-853.	5.4	94
141	The synthesis of microporous carbon by the fluorination of titanium carbide. <i>Carbon</i> , 2011, 49, 2998-3009.	5.4	22
142	Surface and electrochemical properties of amino-fluorinated activated carbon. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 377, 243-250.	2.3	22
143	Simulation of electric double layer capacitors with mesoporous electrodes: Effects of morphology and electrolyte permittivity. <i>Electrochimica Acta</i> , 2011, 56, 6189-6197.	2.6	78
144	Syntheses of polyaniline/ordered mesoporous carbon composites with interpenetrating framework and their electrochemical capacitive performance in alkaline solution. <i>Journal of Power Sources</i> , 2011, 196, 1608-1614.	4.0	55
145	The effect of Al content of zeolite template on the properties and hydrogen storage capacity of zeolite templated carbons. <i>Microporous and Mesoporous Materials</i> , 2011, 144, 140-147.	2.2	27
146	Asymmetric electrochemical capacitors—Stretching the limits of aqueous electrolytes. <i>MRS Bulletin</i> , 2011, 36, 513-522.	1.7	368
147	Synthesis, Characterization and Capacitive Behaviors of Nanoporous Carbons Obtained by Using the Template of Zeolite-13X/MCM-48 Biporous Molecular Sieve. <i>Materials Science Forum</i> , 2011, 688, 326-333.	0.3	1
148	Development of an Ordered Mesoporous Carbon/MoO ₂ Nanocomposite for High Performance Supercapacitor Electrode. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, A157.	2.2	24

#	ARTICLE	IF	CITATIONS
149	Nanodiamond Films for Applications in Electrochemical Systems. <i>International Journal of Electrochemistry</i> , 2012, 2012, 1-16.	2.4	24
150	New Trends on the Boron-Doped Diamond Electrode: From Fundamental Studies to Applications. <i>International Journal of Electrochemistry</i> , 2012, 2012, 1-2.	2.4	7
151	Electrochemical double-layer charging of ultramicroporous synthetic carbons in aqueous electrolytes. <i>Electrochimica Acta</i> , 2012, 86, 232-240.	2.6	12
152	Synthesis of 3D hierarchical porous carbon as electrode material for electric double layer capacitors. <i>New Carbon Materials</i> , 2012, 27, 87-92.	2.9	35
153	Electrochemical hydrogen storage in activated carbons with different pore structures derived from certain lignocellulose materials. <i>Carbon</i> , 2012, 50, 5017-5026.	5.4	70
154	Formation of graphitic tubules from ordered mesoporous carbon and their effect on supercapacitive energy storage. <i>Journal of Materials Chemistry</i> , 2012, 22, 21472.	6.7	32
155	Reversible transient hydrogen storage in a fuel cellâ€“supercapacitor hybrid device. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3816.	1.3	10
156	Hydrogen Storage in High Surface Area Carbons with Identical Surface Areas but Different Pore Sizes: Direct Demonstration of the Effects of Pore Size. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25734-25740.	1.5	80
157	Electrocatalysis, sensors and biosensors in analytical chemistry based on ordered mesoporous and macroporous carbon-modified electrodes. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 38, 79-97.	5.8	132
158	Influence of the pore size in multi-walled carbon nanotubes on the hydrogen storage behaviors. <i>Journal of Solid State Chemistry</i> , 2012, 194, 307-312.	1.4	52
159	Nanostructured carbon for energy storage and conversion. <i>Nano Energy</i> , 2012, 1, 195-220.	8.2	895
160	Uniform mesoporous carbon as a carrier for poorly water soluble drug and its cytotoxicity study. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 80, 535-543.	2.0	82
161	Effect of pore characteristics on electrochemical capacitance of activated carbons. <i>Russian Journal of Electrochemistry</i> , 2012, 48, 1179-1186.	0.3	6
163	Adsorption by Carbon Gels. , 2012, , 207-244.		9
164	Preparation and hydrogen storage capacity of templated and activated carbons nanocast from commercially available zeolitic imidazolate framework. <i>Journal of Materials Chemistry</i> , 2012, 22, 146-152.	6.7	156
165	Exploring the large voltage range of carbon/carbon supercapacitors in aqueous lithium sulfate electrolyte. <i>Energy and Environmental Science</i> , 2012, 5, 9611.	15.6	297
166	Titanium carbide derived nanoporous carbon for supercapacitor applications. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 19395-19400.	3.8	43
167	Porous graphene: Properties, preparation, and potential applications. <i>Science Bulletin</i> , 2012, 57, 2948-2955.	1.7	98

#	ARTICLE	IF	CITATIONS
168	Preparation of sulfur-doped microporous carbons for the storage of hydrogen and carbon dioxide. <i>Carbon</i> , 2012, 50, 5543-5553.	5.4	213
169	Fabrication of hollow core carbon spheres with hierarchical nanoarchitecture for ultrahigh electrical charge storage. <i>Journal of Materials Chemistry</i> , 2012, 22, 19031.	6.7	112
170	Ordered mesoporous graphitized pyrolytic carbon materials: synthesis, graphitization, and electrochemical properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 8835.	6.7	87
171	Batteries and Supercapacitors for Electric Vehicles. , 2012, , .		8
172	Recent Advances in the Synthesis and Application of Layered Double Hydroxide (LDH) Nanosheets. <i>Chemical Reviews</i> , 2012, 112, 4124-4155.	23.0	2,796
173	Hierarchically Structured Porous Materials for Energy Conversion and Storage. <i>Advanced Functional Materials</i> , 2012, 22, 4634-4667.	7.8	796
174	Templated Nanocarbons for Energy Storage. <i>Advanced Materials</i> , 2012, 24, 4473-4498.	11.1	672
175	Carbon-Based Electrochemical Capacitors. <i>ChemSusChem</i> , 2012, 5, 480-499.	3.6	491
176	Electrochemical behavior and capacitance properties of carbon xerogel/multiwalled carbon nanotubes composites. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1067-1076.	1.2	13
177	Structural evolution during annealing of thermally reduced graphene nanosheets for application in supercapacitors. <i>Carbon</i> , 2012, 50, 3572-3584.	5.4	362
178	CVD generated mesoporous hollow carbon spheres as supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 396, 246-250.	2.3	68
179	Steric effects in adsorption of ions from mixed electrolytes into microporous carbon. <i>Electrochemistry Communications</i> , 2012, 15, 63-65.	2.3	61
180	Polystyrene-based carbon spheres as electrode for electrochemical capacitors. <i>Electrochimica Acta</i> , 2012, 59, 424-428.	2.6	30
181	Pore structure and electrochemical performances of tannin-based carbon cryogels. <i>Biomass and Bioenergy</i> , 2012, 39, 274-282.	2.9	58
182	Electrochemical capacitive behaviors of ordered mesoporous carbons with controllable pore sizes. <i>Journal of Power Sources</i> , 2012, 209, 243-250.	4.0	72
183	Hydrothermal co-doping of boron and phosphorus into porous carbons prepared from petroleum coke to improve oxidation resistance. <i>Materials Letters</i> , 2012, 82, 124-126.	1.3	11
184	Improving the electrocapacitive properties of mesoporous CMK-5 carbon with carbon nanotubes and nitrogen doping. <i>Microporous and Mesoporous Materials</i> , 2012, 147, 86-93.	2.2	49
185	Preparation of mesoporous carbon spheres with a bimodal pore size distribution and its application for electrochemical double layer capacitors based on ionic liquid as the electrolyte. <i>Microporous and Mesoporous Materials</i> , 2012, 151, 282-286.	2.2	31

#	ARTICLE	IF	CITATIONS
186	Electrochemical double-layer capacitor performance of novel carbons derived from SAPO zeolite templates. <i>Microporous and Mesoporous Materials</i> , 2012, 160, 25-31.	2.2	19
187	Rapid synthesis of foam-like mesoporous carbon monolith using an ultrasound-assisted air bubbling strategy. <i>Carbon</i> , 2013, 62, 322-329.	5.4	19
188	Small Particles of Chemically-Reduced Graphene with Improved Electrochemical Capacity. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15496-15504.	1.5	14
189	Nanocarbons for Supercapacitors. , 2013, , 393-421.		4
190	Inductive component of impedance of supercapacitor porous interface. <i>Technical Physics Letters</i> , 2013, 39, 533-535.	0.2	4
191	Nanostructured Electrodes for High-Performance Pseudocapacitors. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1882-1889.	7.2	501
192	Carbon nano-onions for supercapacitor electrodes: recent developments and applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13703.	5.2	132
193	Pore morphology: a vital factor in determining electrochemical properties of electrical double layer capacitors. <i>Chemical Communications</i> , 2013, 49, 9998.	2.2	28
194	3-D ordered bimodal porous carbon/nickel oxide hybrid electrodes for supercapacitors. <i>Synthetic Metals</i> , 2013, 177, 105-109.	2.1	2
195	Relation of micropores/mesopore ratio on high electrochemical performance of nano-porous carbons. <i>Journal of Power Sources</i> , 2013, 244, 792-798.	4.0	14
196	Highly confined ions store charge more efficiently in supercapacitors. <i>Nature Communications</i> , 2013, 4, 2701.	5.8	570
197	Enhanced Electrosorption Capacitance of Porous Carbon Particles Synthesized by Spray Pyrolysis. <i>Journal of the Electrochemical Society</i> , 2013, 160, E84-E89.	1.3	4
198	Electrochemical hydrogen storage of the graphene sheets prepared by DC arc-discharge method. <i>Surface and Coatings Technology</i> , 2013, 228, S120-S125.	2.2	58
199	Improvement of electric double-layer capacitance of ordered mesoporous carbon CMK-3 by partial graphitization using metal oxide catalysts. <i>Microporous and Mesoporous Materials</i> , 2013, 179, 136-143.	2.2	29
200	Prospects for using multi-walled carbon nanotubes formed from renewable feedstock in hydrogen energy. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2013, 49, 153-157.	0.2	0
201	New mesoporous carbon materials synthesized by a templating procedure. <i>Ceramics International</i> , 2013, 39, 4035-4043.	2.3	10
202	A perspective: carbon nanotube macro-films for energy storage. <i>Energy and Environmental Science</i> , 2013, 6, 3183-3201.	15.6	168
203	Microporous and mesoporous carbon nanostructures with the inverse opal lattice. <i>Physics of the Solid State</i> , 2013, 55, 1105-1110.	0.2	8

#	ARTICLE	IF	CITATIONS
204	Surface state of carbon materials and accumulation of hydrogen in multiwalled carbon nanotubes. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2013, 49, 669-676.	0.3	3
205	A general conversion of polyacrylate-metal complexes into porous carbons especially evinced in the case of magnesium polyacrylate. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4017.	5.2	26
206	Tunable nitrogen-doped carbon aerogels as sustainable electrocatalysts in the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4002.	5.2	85
207	Synthesis of carbon nano-onion and nickel hydroxide/oxide composites as supercapacitor electrodes. <i>RSC Advances</i> , 2013, 3, 25891.	1.7	60
208	Tuning the porous texture and specific surface area of nanoporous carbons for supercapacitor electrodes by adjusting the hydrothermal synthesis temperature. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12962.	5.2	42
209	Preparation and one-step activation of microporous carbon nanofibers for use as supercapacitor electrodes. <i>Carbon</i> , 2013, 51, 290-300.	5.4	169
210	Mass transport and electrolyte accessibility through hexagonally ordered channels of self-assembled mesoporous carbons. <i>Journal of Power Sources</i> , 2013, 228, 24-31.	4.0	20
211	Microwave synthesis of micro-mesoporous activated carbon xerogels for high performance supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2013, 168, 206-212.	2.2	63
212	Ion Size to Pore Width Ratio as a Factor that Determines the Electrochemical Stability Window of Activated Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 2013, 160, A629-A635.	1.3	21
213	In situ deposition of Pd nanoparticles with controllable diameters in hollow carbon spheres for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16179-16184.	3.8	33
214	Multimodal porous carbon as a highly efficient electrode material in an electric double layer capacitor. <i>Microporous and Mesoporous Materials</i> , 2013, 182, 1-7.	2.2	70
215	Preparation and gases storage capacities of N-doped porous activated carbon materials derived from mesoporous polymer. <i>Materials Chemistry and Physics</i> , 2013, 141, 318-323.	2.0	25
216	Exploring electrolyte organization in supercapacitor electrodes with solid-state NMR. <i>Nature Materials</i> , 2013, 12, 351-358.	13.3	210
217	Mesoporous materials and electrochemistry. <i>Chemical Society Reviews</i> , 2013, 42, 4098.	18.7	541
222	Critical role of small micropores in high CO ₂ uptake. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2523.	1.3	228
223	High performance supercapacitor prepared from hollow mesoporous carbon capsules with hierarchical nanoarchitecture. <i>Journal of Power Sources</i> , 2013, 244, 799-805.	4.0	126
224	Fabrication of porous carbon nanofibers with adjustable pore sizes as electrodes for supercapacitors. <i>Journal of Power Sources</i> , 2013, 235, 289-296.	4.0	243
225	Determination of surface area of carbon-black by simple cyclic-voltammetry measurements in aqueous H ₂ SO ₄ . <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1730-1734.	2.9	10

#	ARTICLE	IF	CITATIONS
226	Carbon nanofibers with radially grown graphene sheets derived from electrospinning for aqueous supercapacitors with high working voltage and energy density. <i>Nanoscale</i> , 2013, 5, 4902.	2.8	112
227	Porous carbon-based materials for hydrogen storage: advancement and challenges. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9365.	5.2	320
229	Carbon/carbon supercapacitors. <i>Journal of Energy Chemistry</i> , 2013, 22, 226-240.	7.1	275
230	Mesoporous carbon as a novel drug carrier of fenofibrate for enhancement of the dissolution and oral bioavailability. <i>International Journal of Pharmaceutics</i> , 2013, 452, 382-389.	2.6	57
231	Sulfur-containing activated carbons with greatly reduced content of bottle neck pores for double-layer capacitors: a case study for pseudocapacitance detection. <i>Energy and Environmental Science</i> , 2013, 6, 2465.	15.6	309
232	Carbons for Supercapacitors. , 2013, , 211-222.		8
233	Correlation between the capacitor performance and pore structure of ordered mesoporous carbons. <i>Advanced Powder Technology</i> , 2013, 24, 737-742.	2.0	24
234	Supercritical CO ₂ Mediated Incorporation of Pd onto Templated Carbons: A Route to Optimizing the Pd Particle Size and Hydrogen Uptake Density. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5639-5647.	4.0	24
235	Competition of Desolvation and Stabilization of Organic Electrolytes in Extremely Narrow Nanopores. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17092-17098.	1.5	33
236	Mesoscale modeling of electric double layer capacitors with three-dimensional ordered structures. <i>Journal of Power Sources</i> , 2013, 221, 252-260.	4.0	71
237	Flexible and Weaveable Capacitor Wire Based on a Carbon Nanocomposite Fiber. <i>Advanced Materials</i> , 2013, 25, 5965-5970.	11.1	441
239	Quantifying the Effects of Carbon Sub-Nanoporous Structures on Electrochemical Capacitance. <i>ECS Meeting Abstracts</i> , 2013, , .	0.0	0
240	Electrochemical Hydrogen Storage in a Highly Ordered Mesoporous Carbon. <i>Frontiers in Energy Research</i> , 2014, 2, .	1.2	7
241	Thermodynamics of nano-porous carbon materials as adsorbents and electrochemical double-layer capacitor electrodes. <i>Tanso</i> , 2014, 2014, 67-75.	0.1	2
242	New mesoporous silica/carbon composites by in situ transformation of silica template in carbon/silica nanocomposite. <i>Journal of Experimental Nanoscience</i> , 2014, 9, 221-229.	1.3	9
243	Cu ₂ O ₃ Supported on Ordered Multimodal Porous Carbon as High Performance Electrode Material for Supercapacitors. <i>ChemSusChem</i> , 2014, 7, 3102-3111.	3.6	90
244	Components of Power Sources/(or of Electrochemical Energetics). <i>Engineering Materials and Processes</i> , 2014, , 19-81.	0.2	0
245	7. Sustainable carbon hybrid materials made by hydrothermal carbonization and their use in energy applications. , 2014, , 201-226.		2

#	ARTICLE	IF	CITATIONS
246	Binderfree synthesis of high-surface-area carbon electrodes via CO ₂ activation of resorcinol-formaldehyde carbon xerogel disks: Analysis of activation process. <i>Carbon</i> , 2014, 76, 240-249.	5.4	36
247	Influence of electrolyte ion-solvent interactions on the performances of supercapacitors porous carbon electrodes. <i>Journal of Power Sources</i> , 2014, 263, 130-140.	4.0	44
248	The influence of microporosity creation in highly mesoporous N-containing carbons obtained from chitosan on their catalytic and electrochemical properties. <i>Catalysis Today</i> , 2014, 227, 223-232.	2.2	24
249	A universal equivalent circuit for carbon-based supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1377-1387.	1.2	128
250	Carbons and Electrolytes for Advanced Supercapacitors. <i>Advanced Materials</i> , 2014, 26, 2219-2251.	11.1	2,152
251	Poly(3-methylthiophene)/Vertically Aligned Multi-walled Carbon Nanotubes: Electrochemical Synthesis, Characterizations and Electrochemical Storage Properties in Ionic Liquids. <i>Electrochimica Acta</i> , 2014, 130, 754-765.	2.6	31
252	MnO ₂ /ordered mesoporous carbon nanocomposite for electrochemical supercapacitor. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1117-1125.	1.2	29
253	Electrochemical studies of few-layered graphene as an anode material for Li ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 941-949.	1.2	82
254	One-Step Template-Free Synthesis of Highly Porous Boron Nitride Microsponges for Hydrogen Storage. <i>Advanced Energy Materials</i> , 2014, 4, 1301525.	10.2	117
255	Improving the energy density of Li-ion capacitors using polymer-derived porous carbons as cathode. <i>Electrochimica Acta</i> , 2014, 130, 766-770.	2.6	74
256	Large area, flexible ordered mesoporous carbon films from soft templating on polymer substrates. <i>RSC Advances</i> , 2014, 4, 3669-3677.	1.7	7
257	Strategies for enhancing the performance of carbon/carbon supercapacitors in aqueous electrolytes. <i>Electrochimica Acta</i> , 2014, 128, 210-217.	2.6	48
258	Carbon Materials for Electrochemical Capacitors. , 2014, , 237-265.		9
259	Template Carbonization. , 2014, , 133-163.		3
260	Carbon Materials for Adsorption of Molecules and Ions. , 2014, , 335-361.		7
261	New insights on electrochemical hydrogen storage in nanoporous carbons by in situ Raman spectroscopy. <i>Carbon</i> , 2014, 69, 401-408.	5.4	47
262	Effect of Mesopore Ordering in Otherwise Similar Micro/Mesoporous Carbons on the High-Rate Performance of Electric Double-Layer Capacitors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27715-27720.	1.5	28
263	Random Graft Polymer-Directed Synthesis of Inorganic Mesostructures with Ultrathin Frameworks. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5117-5121.	7.2	36

#	ARTICLE	IF	CITATIONS
264	Nitrogen-doped porous carbon nanosheets made from biomass as highly active electrocatalyst for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2014, 272, 8-15.	4.0	198
265	Easy procedure to prepare nitrogen-containing activated carbons for supercapacitors. <i>RSC Advances</i> , 2014, 4, 39037-39044.	1.7	18
266	Catalyst-free soft-template synthesis of ordered mesoporous carbon tailored using phloroglucinol/glyoxylic acid environmentally friendly precursors. <i>Green Chemistry</i> , 2014, 16, 3079.	4.6	74
267	N-doped carbon spheres with hierarchical micropore-nanosheet networks for high performance supercapacitors. <i>Chemical Communications</i> , 2014, 50, 12091-12094.	2.2	90
268	P/N/O co-doped carbonaceous material based supercapacitor with voltage up to 1.9 V in aqueous electrolyte. <i>RSC Advances</i> , 2014, 4, 55971-55979.	1.7	21
270	Factors influencing high voltage performance of coconut char derived carbon based electrical double layer capacitor made using acetonitrile and propylene carbonate based electrolytes. <i>Journal of Power Sources</i> , 2014, 272, 90-99.	4.0	18
271	Electric double layer capacitors of high volumetric energy based on ionic liquids and hierarchical-pore carbon. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14963-14972.	5.2	40
272	Optimizing supercapacitor electrode density: achieving the energy of organic electrolytes with the power of aqueous electrolytes. <i>RSC Advances</i> , 2014, 4, 42942-42946.	1.7	26
273	On the development of activated carbons with high affinity for high voltage propylene carbonate based electrolytes. <i>Journal of Power Sources</i> , 2014, 270, 379-385.	4.0	9
274	Sustainable activated carbon fibers from liquefied wood with controllable porosity for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11706-11715.	5.2	129
275	Synthesis of Few-Layer Reduced Graphene Oxide for Lithium-Ion Battery Electrode Materials. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 13348-13355.	1.8	32
276	Mosaic-Structured SnO ₂ @C Porous Microspheres for High-Performance Supercapacitor Electrode Materials. <i>Electrochimica Acta</i> , 2014, 142, 157-166.	2.6	67
277	Nitrogen- and oxygen-containing hierarchical porous carbon frameworks for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2014, 134, 471-477.	2.6	48
278	Enhancement of Electrochemical Hydrogen Insertion in N-Doped Highly Ordered Mesoporous Carbon. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2370-2374.	1.5	30
279	Electrochemical properties of boron-doped ordered mesoporous carbon as electrocatalyst and Pt catalyst support. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 133-140.	5.0	35
281	Nitrogen-Enriched Fe ₃ O ₄ @Carbon Nanospheres Derived from Fe ₃ O ₄ @3-Aminophenol/Formaldehyde Resin Nanospheres Based on a Facile Hydrothermal Strategy: Towards a Robust Catalyst Scaffold for Platinum Nanocrystals. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2651-2659.	1.7	4
283	Electrical-potential induced surface wettability of porous metallic nanostructures. <i>Applied Surface Science</i> , 2015, 351, 460-465.	3.1	28
284	SANS investigations of CO ₂ adsorption in microporous carbon. <i>Carbon</i> , 2015, 95, 535-544.	5.4	33

#	ARTICLE	IF	CITATIONS
285	Investigation of different aqueous electrolytes on the electrochemical performance of activated carbon-based supercapacitors. <i>RSC Advances</i> , 2015, 5, 107482-107487.	1.7	83
286	Facile fabrication of N-doped hierarchical porous carbon@CNT coaxial nanocables with high performance for energy storage and conversion. <i>RSC Advances</i> , 2015, 5, 96580-96586.	1.7	18
287	Superior Capacitive Performance of Hydrochar-Based Porous Carbons in Aqueous Electrolytes. <i>ChemSusChem</i> , 2015, 8, 1049-1057.	3.6	65
288	Soft matter in hard confinement: phase transition thermodynamics, structure, texture, diffusion and flow in nanoporous media. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 103102.	0.7	205
289	Low temperature synthesized carbon nanotube superstructures with superior CO ₂ and hydrogen storage capacity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5148-5161.	5.2	84
290	Contribution of mesopores in MgO-templated mesoporous carbons to capacitance in non-aqueous electrolytes. <i>Journal of Power Sources</i> , 2015, 276, 176-180.	4.0	23
291	A silver-nanoparticle-catalyzed graphite composite for electrochemical energy storage. <i>Journal of Power Sources</i> , 2015, 275, 688-693.	4.0	19
292	Supercapacitor performance of carbon nanofiber electrodes derived from immiscible PAN/PMMA polymer blends. <i>RSC Advances</i> , 2015, 5, 19865-19873.	1.7	122
293	Au nanoparticle decorated N-containing polymer spheres: additive-free synthesis and remarkable catalytic behavior for reduction of 4-nitrophenol. <i>Journal of Materials Science</i> , 2015, 50, 1323-1332.	1.7	32
294	Surface Modification and Performance Enhancement of Carbon Derived from Chromium Carbide for Supercapacitor Applications. <i>Journal of the Electrochemical Society</i> , 2015, 162, A845-A851.	1.3	20
295	Recent Advances in Continuum Modeling of Interfacial and Transport Phenomena in Electric Double Layer Capacitors. <i>Journal of the Electrochemical Society</i> , 2015, 162, A5158-A5178.	1.3	105
296	Preparation and characterization of activated CMK-1 with Zn and Ni species applied in hydrogen storage. <i>International Journal of Energy Research</i> , 2015, 39, 941-953.	2.2	13
297	Capacitance behavior of ordered mesoporous carbon/Fe ₂ O ₃ composites: Comparison between 1D cylindrical, 2D hexagonal, and 3D bicontinuous mesostructures. <i>Carbon</i> , 2015, 93, 903-914.	5.4	37
298	Facile simulation of carbon with wide pore size distribution for electric double-layer capacitance based on Helmholtz models. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16535-16543.	5.2	37
299	Water Assistance in Ion Transfer during Charge and Discharge Cycles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15185-15194.	1.5	9
300	High-surface area carbons from renewable sources with a bimodal micro-mesoporosity for high-performance ionic liquid-based supercapacitors. <i>Carbon</i> , 2015, 94, 41-52.	5.4	98
301	Improve Electrochemical Hydrogen Insertion on the Carbon Materials Loaded with Pt nano-particles through H spillover. <i>Electrochimica Acta</i> , 2015, 174, 400-405.	2.6	13
302	Non-Faradaic Energy Storage by Room Temperature Ionic Liquids in Nanoporous Electrodes. <i>ACS Nano</i> , 2015, 9, 5999-6017.	7.3	108

#	ARTICLE	IF	CITATIONS
303	In situ NMR and electrochemical quartz crystal microbalance techniques reveal the structure of the electrical double layer in supercapacitors. <i>Nature Materials</i> , 2015, 14, 812-819.	13.3	296
304	Interfacial Redox Phenomena for Enhanced Aqueous Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2015, 162, A5140-A5147.	1.3	75
305	Facile synthesis of three-dimensional structured carbon fiber-NiCo ₂ O ₄ -Ni(OH) ₂ high-performance electrode for pseudocapacitors. <i>Scientific Reports</i> , 2015, 5, 9277.	1.6	78
306	Mesoporous Materials-Based Electrochemical Sensors. <i>Electroanalysis</i> , 2015, 27, 1303-1340.	1.5	111
307	Insights on the reactivity of ordered porous carbons exposed to different fluorinating agents and conditions. <i>Carbon</i> , 2015, 84, 567-583.	5.4	22
308	Thermal and mechanical properties of novel nanocomposites from modified ordered mesoporous carbon FDU-15 and poly(methyl methacrylate). <i>Applied Surface Science</i> , 2015, 346, 182-188.	3.1	43
309	Separating Faradaic and Non-Faradaic Charge Storage Contributions in Activated Carbon Electrochemical Capacitors Using Electrochemical Methods. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1246-A1254.	1.3	47
310	Hydrothermally treated aminated tannin as precursor of N-doped carbon gels for supercapacitors. <i>Carbon</i> , 2015, 90, 63-74.	5.4	67
313	Hierarchically porous sulfur-containing activated carbon monoliths via ice-templating and one-step pyrolysis. <i>Carbon</i> , 2015, 95, 268-278.	5.4	48
314	Nitrogen-enriched carbon sheets derived from egg white by using expanded perlite template and its high-performance supercapacitors. <i>Nanotechnology</i> , 2015, 26, 345401.	1.3	20
315	Effect of the Porous Texture of Activated Carbons on the Electrochemical Properties of Molecule-Grafted Carbon Products in Organic Media. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2289-A2295.	1.3	6
316	Activated carbon nanospheres derived from bio-waste materials for supercapacitor applications – a review. <i>RSC Advances</i> , 2015, 5, 88339-88352.	1.7	168
317	Capacitive Energy Storage: Current and Future Challenges. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3594-3609.	2.1	99
318	Supercapacitors with ultrahigh energy density based on mesoporous carbon nanofibers: Enhanced double-layer electrochemical properties. <i>Journal of Alloys and Compounds</i> , 2015, 653, 212-218.	2.8	53
319	Preparation and electrochemical performance of corn straw-based nanoporous carbon. <i>Journal of Porous Materials</i> , 2015, 22, 1351-1355.	1.3	2
320	Synthesis, characterisation and electrochemical evaluation of reduced graphene oxide modified antimony nanoparticles. <i>Thin Solid Films</i> , 2015, 592, 124-134.	0.8	23
321	Facile fabrication of highly flexible graphene paper for photocatalytic reduction of 4-nitrophenol. <i>Bulletin of Materials Science</i> , 2015, 38, 1457-1463.	0.8	8
322	Novel tannin-based Si, P co-doped carbon for supercapacitor applications. <i>Journal of Power Sources</i> , 2015, 275, 835-844.	4.0	48

#	ARTICLE	IF	CITATIONS
323	High capacitive performance of exfoliated biochar nanosheets from biomass waste corn cob. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2903-2913.	5.2	207
324	Activated Carbon, Carbon Blacks and Graphene Based Nanoplatelets as Active Materials for Electrochemical Double Layer Capacitors: A Comparative Study. <i>Journal of the Electrochemical Society</i> , 2015, 162, A44-A51.	1.3	35
325	Comparison of melamine resin and melamine network as precursors for carbon electrodes. <i>Carbon</i> , 2015, 81, 239-250.	5.4	29
326	The influence of layered double hydroxide composition on the morphology, porosity and capacitive properties of nitrogen-doped carbon materials prepared via chemical vapor deposition. <i>Microporous and Mesoporous Materials</i> , 2015, 201, 1-9.	2.2	9
327	Carbons with narrow pore size distribution prepared by simultaneous carbonization and self-activation of tobacco stems and their application to supercapacitors. <i>Carbon</i> , 2015, 81, 148-157.	5.4	144
328	Synthesis and characterization of Pt-CMK-3 hybrid nanocomposite for hydrogen storage. <i>International Journal of Energy Research</i> , 2015, 39, 128-139.	2.2	23
329	Performance Enhancement of Carbon Nanomaterials for Supercapacitors. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-17.	1.5	54
330	Efficient Oxidative Removal of Organic Pollutants by Ordered Mesoporous Carbon-Supported Cobalt Phthalocyanine. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-10.	1.5	2
331	An Aqueous Metal-Ion Capacitor with Oxidized Carbon Nanotubes and Metallic Zinc Electrodes. <i>Frontiers in Energy Research</i> , 2016, 4, .	1.2	75
332	Catalytic graphitization of ordered mesoporous carbon CMK-3 with iron oxide catalysts: Evaluation of different synthesis pathways. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1395-1402.	0.8	17
333	Surface engineering of nanomaterials for improved energy storage – A review. <i>Chemical Engineering Science</i> , 2016, 154, 3-19.	1.9	49
334	Bifacial carbon nanofoam-fibrous PEDOT composite supercapacitor in the 3-electrode configuration for electrical energy storage. <i>Synthetic Metals</i> , 2016, 219, 1-10.	2.1	42
335	Modifications in development of graphene oxide synthetic routes. <i>Chemical Engineering Journal</i> , 2016, 294, 458-477.	6.6	77
336	Nitrogen-doped mesoporous carbons for high performance supercapacitors. <i>Applied Surface Science</i> , 2016, 379, 132-139.	3.1	44
337	A Study of Hydrogen Accumulation in Multiwall Carbon Nanotubes by Electrochemical Techniques. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016, 52, 211-217.	0.3	3
338	Boron-doped ordered mesoporous carbons for the application of supercapacitors. <i>Electrochimica Acta</i> , 2016, 207, 266-274.	2.6	98
339	Effects of buffer agents on hydrogen adsorption and desorption at/within activated carbon for the negative electrode of aqueous asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2016, 205, 1-7.	2.6	18
340	Active carbon/graphene hydrogel nanocomposites as a symmetric device for supercapacitors. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 427-434.	1.0	14

#	ARTICLE	IF	CITATIONS
341	Relationship between the carbon nano-onions (CNOs) surface chemistry/defects and their capacitance in aqueous and organic electrolytes. <i>Carbon</i> , 2016, 105, 628-637.	5.4	84
342	Nanouids: Potential Future Coolants. , 2016, , 805-810.		0
343	The influences of operating conditions and design configurations on the performance of symmetric electrochemical capacitors. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28626-28647.	1.3	10
344	A flexible and high-performance all-solid-state supercapacitor device based on Ni ₃ S ₂ nanosheets coated ITO nanowire arrays on carbon fabrics. <i>RSC Advances</i> , 2016, 6, 75186-75193.	1.7	29
345	Environmentally Friendly Supercapacitors. , 2016, , 351-492.		7
346	Electrolytes for Electrochemical Supercapacitors. <i>Electrochemical Energy Storage and Conversion</i> , 2016, , 31-254.	0.0	5
347	Activated Carbon Prepared from Lignite as Supercapacitor Electrode Materials. <i>Electroanalysis</i> , 2016, 28, 243-248.	1.5	41
348	Interconnected nitrogen and sulfur dual-doped porous carbon as efficient electrocatalyst for triiodide reduction in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 327, 289-296.	4.0	21
349	Electrochemical performance of rod-type ordered mesoporous carbons with different rod lengths for electric double-layer capacitors. <i>New Carbon Materials</i> , 2016, 31, 328-335.	2.9	3
350	Metal-Organic Framework/Layered Carbon Nitride Nano“sandwiches for Superior Asymmetric Supercapacitor. <i>ChemistrySelect</i> , 2016, 1, 3730-3738.	0.7	27
351	Sugarcane molasses as a pseudocapacitive material for supercapacitors. <i>RSC Advances</i> , 2016, 6, 88826-88836.	1.7	18
352	Wearable Solid-State Supercapacitors Operating at High Working Voltage with a Flexible Nanocomposite Electrode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25905-25914.	4.0	46
353	Hierarchical porous activated carbon for supercapacitor derived from corn stalk core by potassium hydroxide activation. <i>Electrochimica Acta</i> , 2016, 212, 839-847.	2.6	144
354	Differentiation of the non-faradaic and pseudocapacitive electrochemical response of graphite felt/CuFeS ₂ composite electrodes. <i>Electrochimica Acta</i> , 2016, 212, 979-991.	2.6	26
355	Three-dimensional and highly ordered porous carbon-MnO ₂ composite foam for excellent electromagnetic interference shielding efficiency. <i>RSC Advances</i> , 2016, 6, 100713-100722.	1.7	53
356	Hydrogen storage capacity of selected activated carbon electrodes made from brown coal. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 23099-23108.	3.8	23
357	Electrochemical performance of a superporous activated carbon in ionic liquid-based electrolytes. <i>Journal of Power Sources</i> , 2016, 336, 419-426.	4.0	31
358	Tailored activated carbons for supercapacitors derived from hydrothermally carbonized sugars by chemical activation. <i>RSC Advances</i> , 2016, 6, 110629-110641.	1.7	17

#	ARTICLE	IF	CITATIONS
359	Ruthenium nanoparticles decorated curl-like porous carbons for high performance supercapacitors. <i>Scientific Reports</i> , 2016, 6, 19949.	1.6	45
360	Effect of pristine graphene incorporation on charge storage mechanism of three-dimensional graphene oxide: superior energy and power density retention. <i>Scientific Reports</i> , 2016, 6, 31555.	1.6	26
361	Electrolytic hydrogen absorption by double- or triple-walled carbon nanotubes. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016, 52, 771-777.	0.3	1
362	Facile Synthesis of Nitrogen-Containing Mesoporous Carbon for High-Performance Energy Storage Applications. <i>Chemistry - A European Journal</i> , 2016, 22, 4256-4262.	1.7	17
363	Nitrogen and Phosphorous Co-Doped Graphene Monolith for Supercapacitors. <i>ChemSusChem</i> , 2016, 9, 513-520.	3.6	90
364	Templated mesoporous carbons: Synthesis and applications. <i>Carbon</i> , 2016, 107, 448-473.	5.4	208
365	Tin/vanadium redox electrolyte for battery-like energy storage capacity combined with supercapacitor-like power handling. <i>Energy and Environmental Science</i> , 2016, 9, 3392-3398.	15.6	121
366	Nitrogen-enriched meso-macroporous carbon fiber network as a binder-free flexible electrode for supercapacitors. <i>Carbon</i> , 2016, 107, 629-637.	5.4	130
367	Boron-manganese-carbon nanocomposites synthesized from CO ₂ for electrode applications in both supercapacitors and fuel cells. <i>RSC Advances</i> , 2016, 6, 54889-54897.	1.7	12
368	Graphene- and Graphene-Oxide-Based Gas Sensors. , 2016, , 317-328.		0
369	Enhancing graphene capacitance by nitrogen: effects of doping configuration and concentration. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4668-4674.	1.3	110
370	Honeycomb-like mesoporous cobalt nickel phosphate nanospheres as novel materials for high performance supercapacitor. <i>Electrochimica Acta</i> , 2016, 190, 118-125.	2.6	133
371	Review on supercapacitors: Technologies and materials. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 1189-1206.	8.2	2,197
372	Preparation and applications of self-assembled natural and synthetic nanostructures. , 2016, , 29-55.		6
373	Functionalized, hierarchical and ordered mesoporous carbons for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6140-6148.	5.2	32
374	Ultrahigh specific surface area porous carbon nanospheres and its composite with polyaniline: preparation and application for supercapacitors. <i>RSC Advances</i> , 2016, 6, 25519-25524.	1.7	27
375	Understanding Capacitance Variation in Sub-nanometer Pores by <i>In Situ</i> Tuning of Interlayer Constrictions. <i>ACS Nano</i> , 2016, 10, 747-754.	7.3	64
376	Beyond graphene foam, a new form of three-dimensional graphene for supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1876-1886.	5.2	55

#	ARTICLE	IF	CITATIONS
377	The composite capacitive behaviors of the N and S dual doped ordered mesoporous carbon with ultrahigh doping level. <i>Applied Surface Science</i> , 2016, 360, 807-815.	3.1	31
378	Structural Evolution of the Thermally Reduced Graphene Nanosheets During Annealing. <i>Springer Theses</i> , 2016, , 51-71.	0.0	1
379	Effect of nitrogen doping on titanium carbonitride-derived adsorbents used for arsenic removal. <i>Journal of Hazardous Materials</i> , 2016, 302, 375-385.	6.5	24
380	Electrochemical Supercapacitor Design, Fabrication, and Operation. , 2017, , 203-246.		0
381	Novel templated mesoporous carbons as electrode for electrochemical capacitors with aqueous neutral electrolytes. <i>Microporous and Mesoporous Materials</i> , 2017, 242, 221-230.	2.2	8
382	Novel π -conjugated iron oxide/reduced graphene oxide nanocomposites for high performance electrochemical supercapacitors. <i>RSC Advances</i> , 2017, 7, 327-335.	1.7	30
383	Deconvolution of electrochemical double layer capacitance between fractions of active and total surface area of graphite felts. <i>Carbon</i> , 2017, 111, 782-788.	5.4	39
384	Preparation and formation mechanism of porous carbon nanosheets by thermal decomposition of polyvinyl alcohol films impregnated with zinc (II) and nitrate ions. <i>Solid State Sciences</i> , 2017, 65, 33-40.	1.5	5
385	Nitrogen-rich activated carbon monoliths via ice-templating with high CO_2 and H_2 adsorption capacities. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2811-2820.	5.2	34
386	Mn_3O_4 hollow microcubes and solid nanospheres derived from a metal formate framework for electrochemical capacitor applications. <i>RSC Advances</i> , 2017, 7, 11129-11134.	1.7	24
387	Nanotechnology in Electrochemical Capacitors. , 2017, , 131-169.		4
388	Poly(ionic liquid)-derived, N, S-codoped ultramicroporous carbon nanoparticles for supercapacitors. <i>Chemical Engineering Journal</i> , 2017, 317, 651-659.	6.6	140
389	Low-cost and massive preparation of nitrogen-doped porous carbon for supercapacitor application. <i>RSC Advances</i> , 2017, 7, 10901-10905.	1.7	24
390	One-pot synthesis of highly activated carbons from melamine and terephthalaldehyde as electrodes for high energy aqueous supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14619-14629.	5.2	58
391	Polymer Nanocomposites for Energy and Fuel Cell Applications. , 2017, , 107-137.		2
392	Anatase CMK-3 nanocomposite development for hydrogen uptake and storage. <i>Bulletin of Materials Science</i> , 2017, 40, 271-280.	0.8	7
393	Recent advances in cathode materials for Li-S battery: structure and performance. <i>Rare Metals</i> , 2017, 36, 365-380.	3.6	27
394	Outstanding electrochemical performance of highly N- and O-doped carbons derived from pine tannin. <i>Green Chemistry</i> , 2017, 19, 2653-2665.	4.6	63

#	ARTICLE	IF	CITATIONS
395	Synthesis of MnO ₂ /N-doped ultramicroporous carbon nanospheres for high-performance supercapacitor electrodes. Chinese Chemical Letters, 2017, 28, 1324-1329.	4.8	91
396	Comparative operando study of degradation mechanisms in carbon-based electrochemical capacitors with Li ₂ SO ₄ and LiNO ₃ electrolytes. Carbon, 2017, 120, 281-293.	5.4	46
397	Design of carbon materials with ultramicro-, supermicro- and mesopores using solvent- and self-template strategy for supercapacitors. Microporous and Mesoporous Materials, 2017, 253, 1-9.	2.2	91
398	Modelling and optimization of electrodes utilization in symmetric electrochemical capacitors for high energy and power. Journal of Energy Storage, 2017, 12, 261-275.	3.9	5
399	Facile large-scale synthesis of three-dimensional graphene-like ordered microporous carbon via ethylene carbonization in CaX zeolite template. Carbon, 2017, 118, 517-523.	5.4	37
400	Self-assembled porous carbon microparticles derived from halloysite clay as a lithium battery anode. Journal of Materials Chemistry A, 2017, 5, 7345-7354.	5.2	56
401	Novel Preparation of Titania-Modified CMK-3 Nanostructured Material as Support for Ir Catalyst Applied in Hydrodenitrogenation of Indole. Catalysis Letters, 2017, 147, 1029-1039.	1.4	14
402	Polysaccharides in Supercapacitors. Springer Briefs in Molecular Science, 2017, , 15-53.	0.1	1
403	Ni-catalyzed carbonization of furfuryl alcohol polymer in ordered mesoporous silica MCM-48 giving ordered mesoporous carbon CMK-1 with high electric double-layer capacitance. Microporous and Mesoporous Materials, 2017, 241, 123-131.	2.2	14
404	Materials for Electrochemical Capacitors. , 2017, , 495-561.		25
405	Influence of nickel nanoparticles on hydrogen storage behaviors of MWCNTs. Applied Surface Science, 2017, 415, 85-89.	3.1	48
406	Pulsed Electrochemical Mass Spectrometry for Operando Tracking of Interfacial Processes in Small-Time-Constant Electrochemical Devices such as Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 41224-41232.	4.0	23
407	Stability and catalytic properties of nanostructured carbons in electrochemical environments. Journal of Catalysis, 2017, 355, 156-166.	3.1	13
408	Catalysts Encapsulated in Nanostructured Carbon Systems. , 2017, , 71-122.		1
409	B, N co-doped carbon from cross-linking induced self-organization of boronate polymer for supercapacitor and oxygen reduction reaction. Journal of Power Sources, 2017, 365, 354-361.	4.0	61
410	SFG Study of the Potential-Dependent Adsorption of the <i>p</i> -Toluenesulfonate Anion at an Activated Carbon/Propylene Carbonate Interface. Journal of Physical Chemistry C, 2017, 121, 20567-20575.	1.5	6
411	Electrochemical capacitor performance of 2-(trimethylsilyloxy)ethyl methacrylate-derived highly mesoporous carbon nanofiber composite containing MnO ₂ . Journal of Electroanalytical Chemistry, 2017, 801, 403-409.	1.9	5
412	On energy accumulation in double layer on the surface of materials with low electron state density. Russian Journal of Electrochemistry, 2017, 53, 561-566.	0.3	1

#	ARTICLE	IF	CITATIONS
413	Preparation and characterization of microporous carbon spheres from high amylose pea maltodextrin. <i>RSC Advances</i> , 2017, 7, 36117-36123.	1.7	21
414	Electrochemical Hydrogen Storage in Facile Synthesized Co@N-Doped Carbon Nanoparticle Composites. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41332-41338.	4.0	19
415	Significance of optimal N-doping in mesoporous carbon framework to achieve high specific capacitance. <i>Applied Surface Science</i> , 2017, 418, 40-48.	3.1	41
416	Monoliths: A Review of the Basics, Preparation Methods and Their Relevance to Oxidation. <i>Catalysts</i> , 2017, 7, 62.	1.6	152
417	The Influence of the Activation Temperature on the Structural Properties of the Activated Carbon Xerogels and Their Electrochemical Performance. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-9.	1.0	8
418	A Novel Kind of Activated Carbon Foam Electrode for Electric Double Layer Capacitors. <i>International Journal of Electrochemical Science</i> , 2017, 12, 1846-1862.	0.5	20
419	Technical feasibility of a proton battery with an activated carbon electrode. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6197-6209.	3.8	28
420	Electrochemical characterization of laser-carbonized polyacrylonitrile nanofiber nonwovens. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46398.	1.3	6
421	Ultramicroporous carbon nanoparticles derived from metal-organic framework nanoparticles for high-performance supercapacitors. <i>Materials Chemistry and Physics</i> , 2018, 211, 234-241.	2.0	68
422	Cooking carbon with protic salt: Nitrogen and sulfur self-doped porous carbon nanosheets for supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 347, 233-242.	6.6	160
423	Graphene decorated Pd-Ag nanoparticles for H ₂ sensing. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11397-11402.	3.8	44
424	Ion Sieving Effects in Chemically Tuned Pillared Graphene Materials for Electrochemical Capacitors. <i>Chemistry of Materials</i> , 2018, 30, 3040-3047.	3.2	37
425	Decomposition of the Thermal Boundary Resistance across Carbon Nanotube-Graphene Junctions to Different Mechanisms. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15226-15231.	4.0	10
426	Silica microsphere templated self-assembly of a three-dimensional carbon network with stable radio-frequency negative permittivity and low dielectric loss. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5239-5249.	2.7	143
427	Materials for supercapacitors: When Li-ion battery power is not enough. <i>Materials Today</i> , 2018, 21, 419-436.	8.3	335
428	Transition metal assisted synthesis of tunable pore structure carbon with high performance as sodium/lithium ion battery anode. <i>Carbon</i> , 2018, 129, 667-673.	5.4	58
429	Polymer nanosheets derived porous carbon nanosheets as high efficient electrocatalysts for oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2018, 516, 9-15.	5.0	13
430	Pomelo peels-derived porous activated carbon microsheets dual-doped with nitrogen and phosphorus for high performance electrochemical capacitors. <i>Journal of Power Sources</i> , 2018, 378, 499-510.	4.0	170

#	ARTICLE	IF	CITATIONS
431	Synergistic relationship between the three-dimensional nanostructure and electrochemical performance in biocarbon supercapacitor electrode materials. <i>Sustainable Energy and Fuels</i> , 2018, 2, 772-785.	2.5	53
432	Deep eutectic solvents-assisted cost-effective synthesis of nitrogen-doped hierarchical porous carbon xerogels from phenol-formaldehyde by two-stage polymerization. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 795-806.	1.1	9
433	High capacity and reversible hydrogen storage on two dimensional C 2 N monolayer membrane. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 9895-9901.	3.8	64
434	Study on effects of applied current and voltage on the ageing of supercapacitors. <i>Electrochimica Acta</i> , 2018, 276, 343-351.	2.6	22
435	Facile synthesis of MoS ₂ /N-doped macro-mesoporous carbon hybrid as efficient electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 7326-7337.	3.8	23
436	Recent advances in functionalized micro and mesoporous carbon materials: synthesis and applications. <i>Chemical Society Reviews</i> , 2018, 47, 2680-2721.	18.7	737
437	Carbon-based core-shell nanostructured materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7310-7337.	5.2	102
438	Doping and controllable pore size enhanced electrochemical performance of free-standing 3D graphene films. <i>Applied Surface Science</i> , 2018, 427, 598-604.	3.1	11
439	An overview of engineered porous material for energy applications: a mini-review. <i>Ionics</i> , 2018, 24, 1-17.	1.2	61
440	Obtainment and Comparative Study of Electrochemical Behavior of Composite Electrodes Based on Polyaniline and Its N-Substituted Derivatives. <i>Polymer Science - Series B</i> , 2018, 60, 780-788.	0.3	4
441	The "In Situ Electrolyte" Concept: Using Activation Chemicals as Electrolytes for Carbon-Based Supercapacitors. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800087.	2.7	7
442	High-performance Activated Carbons Prepared by KOH Activation of Gulfweed for Supercapacitors. <i>International Journal of Electrochemical Science</i> , 2018, 13, 1728-1743.	0.5	44
443	Novel and simple one-pot method for the synthesis of TiO ₂ modified-CMK-3 applied in oxidative desulfurization of refractory organosulfur compounds. <i>Fuel</i> , 2018, 226, 498-507.	3.4	15
444	All-carbon hybrids for high performance supercapacitors. <i>International Journal of Energy Research</i> , 2018, 42, 3575-3587.	2.2	43
445	Effect of benzoquinone additives on the performance of symmetric carbon/carbon capacitors " electrochemical impedance study. <i>Journal of Energy Storage</i> , 2018, 18, 340-348.	3.9	6
446	2.12 Electrolytic Materials. , 2018, , 329-367.		5
447	Electrochemical hydrogen storage in a nitrogen-doped uniformed microporous carbon. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14096-14102.	3.8	17
448	Direct electron transfer of bilirubin oxidase at a carbon flow-through electrode. <i>Electrochimica Acta</i> , 2018, 283, 88-96.	2.6	13

#	ARTICLE	IF	CITATIONS
449	Correlating electrochemical impedance with hierarchical structure for porous carbon-based supercapacitors using a truncated transmission line model. <i>Electrochimica Acta</i> , 2018, 284, 597-608.	2.6	36
450	Cutting-Processed Single-Wall Carbon Nanotubes with Additional Edge Sites for Supercapacitor Electrodes. <i>Nanomaterials</i> , 2018, 8, 464.	1.9	8
451	Rice Husk Derived Micro-Mesoporous Carbon Materials as Active Components of Supercapacitor Electrodes. <i>Catalysis in Industry</i> , 2018, 10, 173-180.	0.3	9
452	Nitrogen-Enriched Hollow Porous Carbon Nanospheres with Tailored Morphology and Microstructure for All-Solid-State Symmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2018, 1, 4293-4303.	2.5	72
453	Electrochemical behaviour of ZnO@AC based nanocomposite electrode for supercapacitor. <i>Materials Research Express</i> , 2018, 5, 085503.	0.8	25
454	Improvement in the pore structure of gulfweed-based activated carbon via two-step acid treatment for high performance supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2018, 820, 103-110.	1.9	17
455	Ultramicroporous Carbon Synthesis Using Lithium-Ion Effect in ZSM-5 Zeolite Template. <i>Chemistry of Materials</i> , 2018, 30, 6513-6520.	3.2	16
456	New insights into the electrochemical behaviour of porous carbon electrodes for supercapacitors. <i>Journal of Energy Storage</i> , 2018, 19, 337-347.	3.9	42
457	Effects of activation temperatures on the surface structures and supercapacitive performances of porous carbon fibers. <i>Surface and Coatings Technology</i> , 2018, 349, 384-391.	2.2	16
458	<i>Nanomaterials for Electrical Energy Storage.</i> , 2019, , 165-206.		12
459	Preparation of Highly Porous Carbon through Slow Oxidative Torrefaction, Pyrolysis, and Chemical Activation of Lignocellulosic Biomass for High-Performance Supercapacitors. <i>Energy & Fuels</i> , 2019, 33, 9309-9329.	2.5	34
460	Revisited insights into charge storage mechanisms in electrochemical capacitors with Li ₂ SO ₄ -based electrolyte. <i>Energy Storage Materials</i> , 2019, 22, 1-14.	9.5	43
461	Hierarchical Metal-Organic Frameworks with Macroporosity: Synthesis, Achievements, and Challenges. <i>Nano-Micro Letters</i> , 2019, 11, 54.	14.4	87
462	Ordered mesoporous carbons obtained from low-value coal tar products for electrochemical energy storage and water remediation. <i>Fuel Processing Technology</i> , 2019, 196, 106152.	3.7	27
463	Advanced materials and technologies for hybrid supercapacitors for energy storage – A review. <i>Journal of Energy Storage</i> , 2019, 25, 100852.	3.9	417
464	From upcycled waste polyethylene plastic to graphene/mesoporous carbon for high-voltage supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 55-64.	5.0	43
465	Enhanced heteroelements doping content in biomass waste-derived carbon for high performance supercapacitor. <i>International Journal of Energy Research</i> , 2019, 43, 8811.	2.2	15
466	Carbon Dioxide Confined between Two Charged Single Layers of Graphene: Molecular Dynamics Studies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23705-23710.	1.5	3

#	ARTICLE	IF	CITATIONS
467	Surface Engineering of Porous Carbon for Self-Healing Nanocomposite Hydrogels by Mussel-Inspired Chemistry and PET-ATRP. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38126-38135.	4.0	30
468	A Novel Porous N- and S-Self-Doped Carbon Derived from Chinese Rice Wine Lees as High-Performance Electrode Materials in a Supercapacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	3.2	17
469	Organic and Carbon Gels. <i>Advances in Sol-gel Derived Materials and Technologies</i> , 2019, , .	0.3	15
470	Carbon Gels for Electrochemical Applications. <i>Advances in Sol-gel Derived Materials and Technologies</i> , 2019, , 149-189.	0.3	1
471	Redox activity of selenocyanate anion in electrochemical capacitor application. <i>Synthetic Metals</i> , 2019, 253, 62-72.	2.1	22
472	Multivalent metal ion hybrid capacitors: a review with a focus on zinc-ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13810-13832.	5.2	312
473	Supercapacitors (electrochemical capacitors). , 2019, , 383-427.		6
474	Nitrogen doped microporous carbon nanospheres derived from chitin nanogels as attractive materials for supercapacitors. <i>RSC Advances</i> , 2019, 9, 10976-10982.	1.7	36
475	Biomass-Derived Porous Carbon Materials for Supercapacitor. <i>Frontiers in Chemistry</i> , 2019, 7, 274.	1.8	162
476	Molten-salt strategy for fabrication of hierarchical porous N-doped carbon nanosheets towards high-performance supercapacitors. <i>Materials Chemistry and Physics</i> , 2019, 230, 178-186.	2.0	25
477	Solid-state NMR and electrochemical dilatometry study of charge storage in supercapacitor with redox ionic liquid electrolyte. <i>Energy Storage Materials</i> , 2019, 20, 80-88.	9.5	19
478	Advanced carbon electrode for electrochemical capacitors. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 1061-1081.	1.2	43
479	Electrochemical oxidation of ordered mesoporous carbons and the influence of graphitization. <i>Electrochimica Acta</i> , 2019, 303, 167-175.	2.6	26
480	Electrochemical hydrogen storage in iron nitrogen dual-doped ordered mesoporous carbon. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7326-7336.	3.8	16
481	Effect of Pore Size on the Ion Electrosorption and Hydrogen/Deuterium Electrosorption Using Sodium Chloride in H ₂ O and D ₂ O. <i>Journal of the Electrochemical Society</i> , 2019, 166, A4158-A4167.	1.3	8
482	Fabrication and Characterization of Electrospun Aligned Porous PAN/Graphene Composite Nanofibers. <i>Nanomaterials</i> , 2019, 9, 1782.	1.9	14
483	Porous Graphene-like Carbon from Fast Catalytic Decomposition of Biomass for Energy Storage Applications. <i>ACS Omega</i> , 2019, 4, 21446-21458.	1.6	21
484	Porous Organic-Polymer-Derived Nitrogen-Doped Porous Carbon Nanoparticles for Efficient Oxygen Reduction Electrocatalysis and Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2236-2244.	3.2	31

#	ARTICLE	IF	CITATIONS
485	A review on porous polymer composite materials for multifunctional electronic applications. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1253-1294.	0.6	19
486	Carbon Nanomaterials for Energy Storage Devices. , 2019, , 1-29.		2
487	A Novel Electrochemical Hydrogen Storage-Based Proton Battery for Renewable Energy Storage. <i>Energies</i> , 2019, 12, 82.	1.6	23
488	Renewable Resource-Based Waste Materials for Supercapacitor Application. <i>ChemistrySelect</i> , 2019, 4, 492-501.	0.7	11
489	A study of the optical, electrical and structural properties of poly(pyrrole-3,4-dicarboxylic acid). <i>Polymer</i> , 2019, 164, 142-153.	1.8	10
490	Sparsely Pillared Graphene Materials for High-Performance Supercapacitors: Improving Ion Transport and Storage Capacity. <i>ACS Nano</i> , 2019, 13, 1443-1453.	7.3	81
491	Optimization of pore-opening condition in single-walled carbon nanohorns to achieve high capacity in double layer capacitor at high charge-discharge rate: Critical effect of their hierarchical pore structures. <i>Carbon</i> , 2019, 142, 150-155.	5.4	21
492	Redox-electrolytes for non-flow electrochemical energy storage: A critical review and best practice. <i>Progress in Materials Science</i> , 2019, 101, 46-89.	16.0	111
493	Three-dimensional graphene-like porous carbon nanosheets derived from molecular precursor for high-performance supercapacitor application. <i>Electrochimica Acta</i> , 2019, 296, 8-17.	2.6	95
494	Rational design of novel nanostructured arrays based on porous AAO templates for electrochemical energy storage and conversion. <i>Nano Energy</i> , 2019, 55, 234-259.	8.2	71
495	A review on recent advances in hybrid supercapacitors: Design, fabrication and applications. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 101, 123-145.	8.2	1,049
496	Template-free preparation of nitrogen-doped activated carbon with porous architecture for high-performance supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2019, 276, 280-291.	2.2	44
497	Carbon electrodes for capacitive technologies. <i>Energy Storage Materials</i> , 2019, 16, 126-145.	9.5	214
498	Short time synthesis of titania modified-CMK-3 carbon mesostructure as support for Ir-catalyst applied in catalytic hydrotreating. <i>Catalysis Today</i> , 2020, 349, 210-216.	2.2	8
499	Water desalination by capacitive electrodialysis: Experiments and modelling. <i>Desalination</i> , 2020, 473, 114150.	4.0	23
500	Improving the pore-ion size compatibility between poly(ionic liquid)-derived carbons and high-voltage electrolytes for high energy-power supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 382, 122945.	6.6	81
501	Porous carbon particles as metal-free superior catalyst for hydrogen release from methanolysis of sodium borohydride. <i>Renewable Energy</i> , 2020, 147, 69-76.	4.3	40
503	Facile preparation of CoO nanoparticles embedded N-doped porous carbon from conjugated microporous polymer for oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 550-557.	5.0	20

#	ARTICLE	IF	CITATIONS
504	Low cost, catalyst free, high performance supercapacitors based on porous nano carbon derived from agriculture waste. <i>Journal of Energy Storage</i> , 2020, 32, 101829.	3.9	81
505	Structural and thermodynamic properties of the electrical double layer in slit nanopores: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2020, 153, 134703.	1.2	4
506	Metal-Free Carbon-Based Supercapacitors—A Comprehensive Review. <i>Electrochem</i> , 2020, 1, 410-438.	1.7	18
507	In Situ Two-Step Activation Strategy Boosting Hierarchical Porous Carbon Cathode for an Aqueous Zn-Based Hybrid Energy Storage Device with High Capacity and Ultra-Long Cycling Life. <i>Small</i> , 2020, 16, e2003174.	5.2	105
508	Energy Storage in Supercapacitors: Focus on Tannin-Derived Carbon Electrodes. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	72
509	Synthesis of porous carbon nanostructure formation from peel waste for low cost flexible electrode fabrication towards energy storage applications. <i>Journal of Energy Storage</i> , 2020, 32, 101735.	3.9	8
510	Catalytic HTL-derived biochar and sol-gel synthesized (Mn, Ti) oxides for asymmetric supercapacitors. <i>International Journal of Energy Research</i> , 2020, 44, 12546-12558.	2.2	7
511	Fitting the porous texture of carbon electrodes to a binary ionic liquid electrolyte for the realization of low temperature EDLCs. <i>Electrochimica Acta</i> , 2020, 350, 136416.	2.6	15
512	Achievement of high energy carbon based supercapacitors in acid solution enabled by the balance of SSA with abundant micropores and conductivity. <i>Electrochimica Acta</i> , 2020, 353, 136562.	2.6	9
513	2D materials as the basis of supercapacitor devices. , 2020, , 97-130.		3
514	Fundamentals and energy storage mechanisms—overview. , 2020, , 15-33.		3
515	3D printing of cellular materials for advanced electrochemical energy storage and conversion. <i>Nanoscale</i> , 2020, 12, 7416-7432.	2.8	56
516	Recent advances in dual-carbon based electrochemical energy storage devices. <i>Nano Energy</i> , 2020, 72, 104728.	8.2	78
517	Influence of surface properties on electrochemical supercapacitors utilizing <i>Callerya atropurpurea</i> pod derived porous nanocarbons: Structure property relationship between porous structures to energy storage devices. <i>Nano Select</i> , 2020, 1, 226-243.	1.9	37
518	Synthesis of porous carbon derived from poly(vinylidene fluoride) and its adsorption characteristics for CO ₂ and CH ₄ . <i>Microporous and Mesoporous Materials</i> , 2020, 299, 110121.	2.2	11
519	Ex-situ nitrogen-doped porous carbons as electrode materials for high performance supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 332-345.	5.0	61
520	Facile Multivalent Redox Chemistries in Water-in-Bisalt Hydrogel Electrolytes for Hybrid Energy Storage Full Cells. <i>ACS Energy Letters</i> , 2020, 5, 1054-1061.	8.8	26
521	Hybrid electrochemical capacitors in aqueous electrolytes: Challenges and prospects. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 167-174.	2.5	15

#	ARTICLE	IF	CITATIONS
522	Activation of electrospun lignin-based carbon fibers and their performance as self-standing supercapacitor electrodes. <i>Separation and Purification Technology</i> , 2020, 241, 116724.	3.9	67
523	Free energy barriers for TMEA ⁺ , TMA ⁺ , and BF ₄ ⁻ ion diffusion through nanoporous carbon electrodes. <i>Carbon</i> , 2020, 161, 550-561.	5.4	11
524	Hierarchical N-Doped Porous Carbons for Zn ²⁺ /Air Batteries and Supercapacitors. <i>Nano-Micro Letters</i> , 2020, 12, 20.	14.4	73
525	Electrochemical capacitors operating in aqueous electrolyte with volumetric characteristics improved by sustainable templating of electrode materials. <i>Electrochimica Acta</i> , 2020, 338, 135788.	2.6	20
526	Novel hierarchical porous carbon prepared by a one-step template route for electric double layer capacitors and Li ⁺ /Se battery devices. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4376-4385.	5.2	25
527	Multi-Scale Model for Describing the Effect of Pore Structure on Carbon-Based Electric Double Layer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3952-3961.	1.5	20
528	Graphene-like nitrogen-doped porous carbon nanosheets as both cathode and anode for high energy density lithium-ion capacitor. <i>Electrochimica Acta</i> , 2020, 349, 136303.	2.6	23
529	Electrochemical reduction of europium(III) using tetra-n-octyl diglycolamide functionalized ordered mesoporous carbon microelectrodes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6689-6700.	2.7	11
530	Nanoporous carbon for electrochemical capacitive energy storage. <i>Chemical Society Reviews</i> , 2020, 49, 3005-3039.	18.7	391
531	Preparation and adsorption property of novel inverse-opal hierarchical porous N-doped carbon microspheres. <i>Chinese Chemical Letters</i> , 2021, 32, 866-869.	4.8	7
532	Capacitor performance of MgO-templated carbons synthesized using hydrothermally treated MgO particles. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110646.	2.2	10
533	Engineered hierarchical porous carbons for supercapacitor applications through chemical pretreatment and activation of biomass precursors. <i>Renewable Energy</i> , 2021, 163, 276-287.	4.3	108
534	Biomass waste derived functionalized hierarchical porous carbon with high gravimetric and volumetric capacitances for supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110659.	2.2	135
535	Inorganic matter in rice husk derived carbon and its effect on the capacitive performance. <i>Journal of Energy Chemistry</i> , 2021, 57, 639-649.	7.1	10
536	Synergetic modulation of graphene oxide and metal oxide particles for exploring integrated capacitance of milk colloid-derived carbon. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 608, 125599.	2.3	2
537	Emerging carbon nanostructures in electrochemical processes. , 2021, , 353-388.		3
538	In situ analysis of pore size effect of ionic solvation during the formation of double electric layers. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114846.	1.9	3
539	Biomass waste conversion into low-cost carbon-based materials for supercapacitors: A sustainable approach for the energy scenario. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114899.	1.9	39

#	ARTICLE	IF	CITATIONS
540	Electrochemical Hydrogen Storage in Amine-Activated Polydopamine. <i>Advanced Sustainable Systems</i> , 2021, 5, 2000176.	2.7	7
541	Building next-generation supercapacitors with battery type Ni(OH) ₂ . <i>Journal of Materials Chemistry A</i> , 2021, 9, 15542-15585.	5.2	74
542	Control of hydrogen release during borohydride electrooxidation with porous carbon materials. <i>RSC Advances</i> , 2021, 11, 15639-15655.	1.7	9
543	Link between Alkali Metals in Salt Templates and in Electrolytes for Improved Carbon-Based Electrochemical Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2584-2599.	4.0	20
544	Mechanism orienting structure construction of electrodes for aqueous electrochemical energy storage systems: a review. <i>Nanoscale</i> , 2021, 13, 3412-3435.	2.8	15
545	A review on the recent advances in hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15880-15918.	5.2	484
546	Capacitance with Different Electrode Surface Topology. , 2021, , 1-9.		0
547	A complex study of the dependence of the reduced graphite oxide electrochemical behavior on the annealing temperature and the type of electrolyte. <i>Electrochimica Acta</i> , 2021, 370, 137832.	2.6	18
548	Renewable biomass-derived carbons for electrochemical capacitor applications. <i>SusMat</i> , 2021, 1, 211-240.	7.8	98
549	Comparative Studies of Solutions of Homogeneous Electrochemical Capacitors Models. <i>Journal of Energy Storage</i> , 2021, 35, 102221.	3.9	1
550	Nano-channel carbon fiber film with enhanced mechanical and electrochemical properties by centrifuged electrospinning for all-solid-state flexible symmetric supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2021, 316, 110972.	2.2	13
551	Supercapacitance Property Study of 3D Open-Framework Prussian Blue in Neutral Electrolyte. <i>Science of Advanced Materials</i> , 2021, 13, 436-446.	0.1	2
552	Mesoporous Carbon: A Versatile Material for Scientific Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4498.	1.8	34
553	In-situ evolution process understanding from a salen-ligated manganese cluster to supercapacitive application. <i>Nano Research</i> , 2022, 15, 346.	5.8	12
554	Synthesis of ordered mesoporous carbon by soft template method. <i>Materials Today: Proceedings</i> , 2023, 81, 842-847.	0.9	10
555	Differentiating between the effects of nitrogen plasma and hydrothermal treatment on electrospun carbon fibers used as supercapacitor electrodes. <i>Electrochimica Acta</i> , 2021, 381, 138255.	2.6	10
556	Cucurbit[8]uril-derived porous carbon as high-performance electrode material for ionic liquid-based supercapacitor. <i>Journal of Energy Storage</i> , 2021, 38, 102527.	3.9	11
557	A dual shape pore model to analyze the gas adsorption data of hierarchical micro-mesoporous carbons. <i>Carbon</i> , 2021, 178, 113-124.	5.4	34

#	ARTICLE	IF	CITATIONS
558	Developing Anisotropy in Self-Assembled Block Copolymers: Methods, Properties, and Applications. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100300.	2.0	9
559	On the need for simultaneous electrochemical testing of positive and negative electrodes in carbon supercapacitors. <i>Electrochimica Acta</i> , 2021, 384, 138372.	2.6	5
560	Synthesis and use of hollow carbon spheres for electric double-layer capacitors. <i>New Carbon Materials</i> , 2021, 36, 794-809.	2.9	12
561	Flexible 6-in-1 Microsensor for Real-Time Microscopic Monitoring of Proton Battery. <i>Membranes</i> , 2021, 11, 615.	1.4	0
562	Milk derived highly ordered mesoporous carbon with CaF ₂ nanoclusters as an efficient electrode for supercapacitors. <i>Carbon</i> , 2021, 180, 101-109.	5.4	22
563	Elucidating the effects of oxygen- and nitrogen-containing functional groups in graphene nanomaterials for applied electrochemistry by density functional theory. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	2
564	Charge Capacitance and Hydrogen Storage Capacity of Drop Cast and Electrodeposited Reduced Graphene Oxide Coatings. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090506.	1.3	3
565	Lignin-derived Zn single atom/N-codoped porous carbon for α -alkylation of aromatic ketones with alcohols via borrowing hydrogen strategy. <i>Nano Research</i> , 2022, 15, 1874-1881.	5.8	28
566	Enhancing capacitor lifetime by alternate constant polarization. <i>Journal of Power Sources</i> , 2021, 506, 230131.	4.0	7
567	Carbon-based slurry electrodes for energy storage and power supply systems. <i>Energy Storage Materials</i> , 2021, 40, 461-489.	9.5	36
568	Mechanisms of Porous Carbon-based Supercapacitors. <i>ChemNanoMat</i> , 2021, 7, 1273-1290.	1.5	15
569	A systematic preparation mechanism for directional regulation of pore structure in activated carbon including specific surface area and pore hierarchy. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 158, 105266.	2.6	8
570	Electrochemical hydrogen storage in porous carbons with acidic electrolytes: Uncovering the potential. <i>Current Opinion in Electrochemistry</i> , 2022, 31, 100850.	2.5	14
571	Nitrogen self-doped activated carbons with narrow pore size distribution from bamboo shoot shells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 629, 127408.	2.3	12
572	Monolithic Electrode for Electric Double-Layer Capacitors Based on Macro/Meso/Microporous S-Containing Activated Carbon with High Surface Area. <i>Springer Theses</i> , 2013, , 79-89.	0.0	6
573	Unraveling the effect of nitrogen doping on graphene nanoflakes and the adsorption properties of ionic liquids: A DFT study. <i>Journal of Molecular Liquids</i> , 2020, 312, 113400.	2.3	16
574	Nanotextured Carbons for Electrochemical Energy Storage. , 2006, , .		6
575	Carbide-Derived Carbons and Templated Carbons. <i>Advanced Materials and Technologies</i> , 2009, , 77-113.	0.4	3

#	ARTICLE	IF	CITATIONS
576	Preparation of Carbon Materials from Lignocellulosic Biomass. , 2014, , 47-75.		1
577	Electrolytes for Electrochemical Supercapacitors. , 0, , .		44
578	Metal hydrideâ€“nafion composite electrode with dual proton and electron conductivity. International Journal of Smart Grid and Clean Energy, 2014, , .	0.4	2
579	Novel Flexible Supercapacitors Fabricated by Simple Integration of Electrodes, Binders, and Electrolytes into Glass Fibre Separators. Journal of the Korean Electrochemical Society, 2014, 17, 237-244.	0.1	2
580	Local Ordered Structure of Propylene Carbonate in Slit-Shaped Carbon Nanopores by GCMC Simulation. ISRN Nanotechnology, 2011, 2011, 1-5.	1.3	7
581	Potassium hydroxide activation of activated carbon: a commentary. Carbon Letters, 2015, 16, 275-280.	3.3	176
582	Effect of nickel on hydrogen storage behaviors of carbon aerogel hybrid. Carbon Letters, 2015, 16, 281-285.	3.3	7
583	Nanotextured Carbons for Electrochemical Energy Storage. Advanced Materials and Technologies, 2006, , 295-319.	0.4	0
584	Modification via KOH attack of the porosity of templated and amorphous carbons. Studies in Surface Science and Catalysis, 2008, , 129-134.	1.5	0
585	Nanocarbons nanocarbon for Supercapacitors nanocarbon for supercapacitors. , 2012, , 6769-6790.		0
586	ELECTROCHEMICAL PERFORMANCE OF ORDERED MESOPOROUS CARBON MODIFIED BY OXIDATIVE TREATMENT WITH AQUEOUS NITRIC ACID. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
588	Introduction to hydrogen storage in carbon materials. , 2018, , 333-341.		0
590	Electrochemical storage reactions of hydrogen in activated carbon from phenolic resin. Catalysis Today, 2022, 397-399, 155-164.	2.2	10
591	Scalable preparation of high-strength hierarchically porous carbon beads with bicontinuous macroporous network by solvent induced phase separation technique for NOx removal. Microporous and Mesoporous Materials, 2022, 330, 111620.	2.2	2
592	Supercapacitive properties of nickel molybdate/rGO hybrids prepared by the hydrothermal method. Surfaces and Interfaces, 2022, 29, 101638.	1.5	7
595	Porous carbons for energy storage and conversion. , 2022, , 239-540.		1
596	Perspectives on Working Voltage of Aqueous Supercapacitors. Small, 2022, 18, e2106360.	5.2	93
597	Structure and Pore Size Distribution in Nanoporous Carbon. Chemistry of Materials, 2022, 34, 617-628.	3.2	29

#	ARTICLE	IF	CITATIONS
598	Effects of the composition of active carbon electrodes on the impedance performance of the AC/AC supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 591-605.	1.2	6
599	Toxicological Profiling of Onion-Peel-Derived Mesoporous Carbon Nanospheres Using In Vivo <i>Drosophila melanogaster</i> Model. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1528.	1.3	1
600	Microscopic Simulations of Electrochemical Double-Layer Capacitors. <i>Chemical Reviews</i> , 2022, 122, 10860-10898.	23.0	81
602	Preparation of High Cycle Performance Carbon-Based Anode Materials Based on Cellulose Aerogels for Lithium-Ion Batteries. <i>International Journal of Electrochemical Science</i> , 2022, 17, 220625.	0.5	1
603	Fundamentals, Mechanism, and Materials for Hybrid Supercapacitors. <i>Advances in Material Research and Technology</i> , 2022, , 71-100.	0.3	1
605	Design and synthesis of highly efficient nitrogen-doped carbon nano-onions for asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165609.	2.8	12
606	Hierarchical nanoarchitectonics of ordered mesoporous carbon from lignin for high-performance supercapacitors. <i>International Journal of Biological Macromolecules</i> , 2022, 213, 610-620.	3.6	19
607	Hierarchically Ordered Nanoporous Carbon with Exclusively Surface-Anchored Cobalt as Efficient Electrocatalyst. <i>Small Methods</i> , 2022, 6, .	4.6	5
608	Dealumination of small-pore zeolites through pore-opening migration process with the aid of pore-filler stabilization. <i>Science Advances</i> , 2022, 8, .	4.7	9
609	Recent development and prospective of carbonaceous material, conducting polymer and their composite electrode materials for supercapacitor " A review. <i>Journal of Energy Storage</i> , 2022, 52, 104937.	3.9	61
610	Performance evaluation of electrochemical capacitors with activated carbon spheres as electrode material and aqueous electrolyte. <i>Journal of Power Sources</i> , 2022, 542, 231714.	4.0	4
611	Understanding the effects of electrode meso-macropore structure and solvent polarity on electric double layer capacitors based on a continuum model. <i>Chinese Journal of Chemical Engineering</i> , 2022, 50, 423-434.	1.7	1
612	Accurate Computational Prediction of Core-Electron Binding Energies in Carbon-Based Materials: A Machine-Learning Model Combining Density-Functional Theory and <i>GW</i> . <i>Chemistry of Materials</i> , 2022, 34, 6240-6254.	3.2	22
613	CO ₂ outperforms KOH as an activator for high-rate supercapacitors in aqueous electrolyte. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112716.	8.2	12
614	Nanoconfined Space: Revisiting the Charge Storage Mechanism of Electric Double Layer Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 37259-37269.	4.0	13
615	Operando Monitoring of Local pH Value Changes at the Carbon Electrode Surface in Neutral Sulfate-Based Aqueous Electrochemical Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 37782-37792.	4.0	8
616	A review of carbon materials for supercapacitors. <i>Materials and Design</i> , 2022, 221, 111017.	3.3	128
617	3D ordered hierarchically porous carbon derived from colloidal crystal templates towards alkali metal-ion batteries. <i>Carbon</i> , 2023, 201, 76-99.	5.4	18

#	ARTICLE	IF	CITATIONS
618	Ion accumulation-induced capacitance elevation in a microporous graphene-based supercapacitor. RSC Advances, 2022, 12, 27082-27093.	1.7	10
619	Synthesis of manganese molybdate/MWCNT nanostructure composite with a simple approach for supercapacitor applications. RSC Advances, 2022, 12, 27868-27876.	1.7	11
620	Electrochemical Capacitor Based on Reduced Graphene Oxide/NiS ₂ Composite. ChemElectroChem, 2022, 9, .	1.7	2
621	Synthesis of Polynorbornadiene within the Pores of Activated Carbons: Effects on EDLC and Hydrogen Adsorption Performances. Langmuir, 2022, 38, 12024-12034.	1.6	5
622	Smart Electronic Textile-Based Wearable Supercapacitors. Advanced Science, 2022, 9, .	5.6	59
623	Recent development of carbon electrode materials for electrochemical supercapacitors. Energy Reports, 2022, 8, 656-661.	2.5	21
624	Structurally Controllable Hay-Slag-Based Porous Carbons for Supercapacitor and CO ₂ Adsorption Applications. International Journal of Nanoscience, 0, , .	0.4	0
625	Mesoporous carbon-based materials and their applications as non-precious metal electrocatalysts in the oxygen reduction reaction. Electrochimica Acta, 2023, 439, 141678.	2.6	6
627	Pyrolysis of Schiff-Based Manganese Clusters: Effect of Ligand Modulation on Properties as Supercapacitor Electrode Material. Batteries and Supercaps, 0, , .	2.4	0
628	Recent Advances on Heteroatom-Doped Porous Carbon-Based Electrocatalysts for Oxygen Reduction Reaction. Energies, 2023, 16, 128.	1.6	3
629	A new strategy for the preparation of multi-walled carbon nanotubes/NiMoO ₄ nanostructures for high-performance asymmetric supercapacitors. Journal of Energy Storage, 2023, 59, 106438.	3.9	24
630	Capacitance with Different Electrode Surface Topology. , 2022, , 159-167.		0
631	Novel designs of carbon electrodes for the technological improvement of electrochemical capacitors. , 2023, , 321-358.		1
632	Supercapacitor and electrochemical techniques: A brief review. Results in Chemistry, 2023, 5, 100885.	0.9	30
633	NaOH solution-assisted pyrolysis of waste polycarbonate for co-production of phenolic compounds and supercapacitor material. Polymer Degradation and Stability, 2023, 212, 110363.	2.7	5
634	Vinylene carbonate, toluene and diethyl ether as electrolyte additives for a wide-temperature range operating of EDLCs. Journal of Power Sources, 2023, 560, 232658.	4.0	4
635	Electrochemical properties of activated carbon from waste coffee grounds with hydrothermal-microwave radiation technique. Journal of Materials Science: Materials in Electronics, 2023, 34, .	1.1	2
636	Facile and Tunable Synthesis of Nitrogen-Doped Graphene with Different Microstructures for High-Performance Supercapacitors. , 2023, 5, 944-954.		21

#	ARTICLE	IF	CITATIONS
637	Lignin-Derived Carbonaceous Materials for Supercapacitor Applications. Materials Horizons, 2023, , 65-115.	0.3	0
638	Application of Porous Carbon Material for Water Treatment and Gas Storage. Materials Horizons, 2023, , 623-654.	0.3	0
639	Storage of atomic hydrogen in multilayer graphene. International Journal of Hydrogen Energy, 2023, 48, 27944-27959.	3.8	3
654	Introduction to Low-carbon Supercapacitors: New Prospects. , 2023, , 34-62.		0
656	Advanced electrode materials of supercapacitors. , 2024, , 321-365.		0