Aibing Chen

List of Publications by Year
in descending order

102 papers	2,547 citations	185998 28 h-index	253896 43 g-index
102 all docs	102 docs citations	102 times ranked	2733 citing authors

#	Article	IF	Citations
1	N-doped hollow mesoporous carbon spheres by improved dissolution-capture for supercapacitors. Carbon, 2020, 156, 523-528.	5.4	118
2	Raw-Cotton-Derived N-Doped Carbon Fiber Aerogel as an Efficient Electrode for Electrochemical Capacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 4008-4015.	3.2	108
3	Thin-walled, mesoporous and nitrogen-doped hollow carbon spheres using ionic liquids as precursors. Journal of Materials Chemistry A, 2013, 1, 1045-1047.	5.2	100
4	Order Mesoporous Carbon Spheres with Precise Tunable Large Pore Size by Encapsulated Selfâ€Activation Strategy. Advanced Functional Materials, 2018, 28, 1802332.	7.8	91
5	Synthesis of hollow mesoporous carbon spheres via â€œdissolution-captureâ€•method for effective phenol adsorption. Carbon, 2016, 103, 157-162.	5.4	74
6	The origin of sulfuryl-containing components in SEI from sulfate additives for stable cycling of ultrathin lithium metal anodes. Journal of Energy Chemistry, 2020, 47, 128-131.	7.1	63
7	Controllable synthesis of nitrogen-doped hollow mesoporous carbon spheres using ionic liquids as template for supercapacitors. Applied Surface Science, 2017, 393, 151-158.	3.1	62
8	N-doped hollow mesoporous carbon spheres prepared by polybenzoxazines precursor for energy storage. Carbon, 2020, 160, 265-272.	5.4	61
9	Fabrication of Nitrogen-Doped Hollow Mesoporous Spherical Carbon Capsules for Supercapacitors. Langmuir, 2016, 32, 8934-8941.	1.6	57
10	Nitrogen-doped dual mesoporous carbon for the selective oxidation of ethylbenzene. Nanoscale, 2015, 7, 14684-14690.	2.8	56
11	Confined pyrolysis for direct conversion of solid resin spheres into yolkâ€“shell carbon spheres for supercapacitor. Journal of Materials Chemistry A, 2019, 7, 1038-1044.	5.2	56
12	N-doped ordered mesoporous carbon spheres derived by confined pyrolysis for high supercapacitor performance. Journal of Materials Science and Technology, 2019, 35, 2178-2186.	5.6	53
13	Crosstalk shielding of transition metal ions for long cycling lithiumâ€“metal batteries. Journal of Materials Chemistry A, 2020, 8, 4283-4289.	5.2	51
14	N-Doped Hollow Carbon Spheres/Sheets Composite for Electrochemical Capacitor. ACS Applied Materials & Interfaces, 2018, 10, 40062-40069.	4.0	48
15	Nitrogen-doped hollow carbon spheres for supercapacitors application. Journal of Alloys and Compounds, 2016, 688, 878-884.	2.8	44
16	Porous carbon derived from waste polystyrene foam for supercapacitor. Journal of Materials Science, 2018, 53, 12115-12122.	1.7	44
17	A Review on Applications of Layered Phosphorus in Energy Storage. Transactions of Tianjin University, 2020, 26, 104-126.	3.3	43
18	N/B-co-doped ordered mesoporous carbon spheres by ionothermal strategy for enhancing supercapacitor performance. Journal of Colloid and Interface Science, 2021, 587, 780-788.	5.0	42

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19	Tuning Confined Nanospace for Preparation of Nâ€doped Hollow Carbon Spheres for High Performance Supercapacitors. ChemSusChem, 2019, 12, 303-309.	3.6	39
20	PVP-assisted synthesis of nitrogen-doped hollow carbon spheres for supercapacitors. Journal of Alloys and Compounds, 2018, 768, 42-48.	2.8	38
21	Unlocking the dissolution mechanism of phosphorus anode for lithium-ion batteries. Energy Storage Materials, 2021, 37, 417-423.	9.5	36
22	Yeasts-derived nitrogen-doped porous carbon microcapsule prepared by silica-confined activation for supercapacitor. Journal of Colloid and Interface Science, 2021, 601, 467-473.	5.0	36
23	A confined space pyrolysis strategy for controlling the structure of hollow mesoporous carbon spheres with high supercapacitor performance. Nanoscale, 2019, 11, 4453-4462.	2.8	33
24	Nitrogen-enriched hierarchically porous carbon sheets anchored with ZIF-derived carbon for supercapacitors. Applied Surface Science, 2020, 527, 146845.	3.1	32
25	Carbon Nanotube@Nâ€Doped Mesoporous Carbon Composite Material for Supercapacitor Electrodes. Chemistry - an Asian Journal, 2019, 14, 634-639.	1.7	31
26	Synthesis of nitrogen doped graphene aerogels using solid supported strategy for supercapacitor. Materials Chemistry and Physics, 2019, 223, 145-151.	2.0	30
27	Co-assembly strategy for uniform and tunable hollow carbon spheres with supercapacitor application. Journal of Colloid and Interface Science, 2020, 565, 245-253.	5.0	30
28	Synthesis of hollow mesoporous carbon spheres via Friedel-Crafts reaction strategy for supercapacitor. Materials Letters, 2017, 197, 71-74.	1.3	29
29	Synthesis of mesoporous carbon with tunable pore size for supercapacitors. New Journal of Chemistry, 2020, 44, 1036-1044.	1.4	29
30	N-Doped yolkâ€“shell carbon nanotube composite for enhanced electrochemical performance in a supercapacitor. Nanoscale, 2019, 11, 22796-22803.	2.8	28
31	Confined-Space Pyrolysis of Polystyrene/Polyacrylonitrile for Nitrogen-Doped Hollow Mesoporous Carbon Spheres with High Supercapacitor Performance. ACS Applied Energy Materials, 2019, 2, 4402-4410.	2.5	27
32	Reasonable Construction of Hollow Carbon Spheres with an Adjustable Shell Surface for Supercapacitors. ACS Applied Materials & Interfaces, 2022, 14, 11750-11757.	4.0	27
33	Mesoporous carbon sheets embedded with vesicles for enhanced supercapacitor performance. Journal of Materials Chemistry A, 2019, 7, 15707-15713.	5.2	26
34	Template-free method for fabricating carbon nanotube combined with thin N-doped porous carbon composite for supercapacitor. Journal of Materials Science, 2019, 54, 6451-6460.	1.7	25
35	Coreâ€“Shell Structure of a Polypyrrole-Coated Phosphorus/Carbon Nanotube Anode for High-Performance Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 4112-4118.	2.5	25
36	N-Doped Mesoporous Carbon Sheets/Hollow Carbon Spheres Composite for Supercapacitors. Langmuir, 2018, 34, 15665-15673.	1.6	24

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37	Synthesis of Nitrogenâ€Doped Porous Carbon Monolith for Binderâ€Free Allâ€Carbon Supercapacitors. ChemElectroChem, 2019, 6, 535-542.	1.7	24
38	ZIF-derived mesoporous carbon materials prepared by activation via Na2SiO3 for supercapacitor. Chinese Chemical Letters, 2021, 32, 1485-1490.	4.8	24
39	Encapsulation pyrolysis synchronous deposition for hollow carbon sphere with tunable textural properties. Carbon, 2019, 143, 467-474.	5.4	23
40	Preparation of hollow mesoporous carbon spheres by pyrolysis-deposition using surfactant as carbon precursor. Journal of Power Sources, 2021, 484, 229274.	4.0	23
41	Solidâ€"solid grinding/templating route to magnetically separable nitrogen-doped mesoporous carbon for the removal of Cu2+ ions. Journal of Hazardous Materials, 2014, 279, 280-288.	6.5	22
42	Fabrication of monodisperse hollow mesoporous carbon spheres by using â€œconfined nanospace depositionâ€• method for supercapacitor. Journal of Alloys and Compounds, 2018, 736, 35-41.	2.8	22
43	Interpolation strategy for monodisperse hollow mesoporous carbon spheres in high performance supercapacitor. Journal of Power Sources, 2019, 434, 226720.	4.0	21
44	Controllable synthesis of N-doped hollow, yolk-shell and solid carbon spheres via template-free method. Journal of Alloys and Compounds, 2019, 778, 294-301.	2.8	21
45	N-doped mesoporous carbon nanosheets for supercapacitors with high performance. Diamond and Related Materials, 2021, 111, 108206.	1.8	21
46	Glycolide additives enrich organic components in the solid electrolyte interphase enabling stable ultrathin lithium metal anodes. Materials Chemistry Frontiers, 2021, 5, 2791-2797.	3.2	21
47	Solid-state grinding synthesis of ordered mesoporous MgO/carbon spheres composites for CO 2 capture. Materials Letters, 2016, 164, 520-523.	1.3	20
48	Sea urchin-like core/shell hierarchical porous carbon for supercapacitors. Journal of Alloys and Compounds, 2017, 719, 438-445.	2.8	19
49	N-doped mesoporous thin carbon tubes obtained by exhaust directional deposition for supercapacitor. Chemical Engineering Science, 2021, 240, 116651.	1.9	19
50	Self-catalyzed strategy to form hollow carbon nanospheres for CO2 capture. Materials Letters, 2016, 185, 63-66.	1.3	18
51	Synthesis of Nitrogen-Doped Micro-Mesoporous Carbon for Supercapacitors. Journal of the Electrochemical Society, 2016, 163, A1959-A1964.	1.3	18
52	Tailoring the structures and photonic properties of low-dimensional organic materials by crystal engineering. Nanoscale, 2018, 10, 4680-4685.	2.8	18
53	Nanocomposites of reduced graphene oxide modified with mesoporous carbon layers anchored by hollow carbon spheres for energy storage. Carbon, 2021, 173, 22-30.	5.4	18
54	Synthesis and characterization of nitrogen-doped graphene hollow spheres as electrode material for supercapacitors. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	17

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55	Synthesis of nitrogen-doped mesoporous carbon for high-performance supercapacitors. New Journal of Chemistry, 2019, 43, 2776-2782.	1.4	17
56	Nonsacrificial Nitrile Additive for Armoring Highâ€Voltage LiNi_{0.83}Co_{0.07}Mn_{0.1}O₂ Cathode with Reliable Electrodeâ€“Electrolyte Interface toward Durable Battery. Small, 2022, 18, .	5.2	17
57	N-doped porous carbon nanotubes derived from polypyrrole for supercapacitors with high performance. Journal of Analytical and Applied Pyrolysis, 2020, 152, 104925.	2.6	16
58	Suppressing interlayer-gliding and Jahn-Teller effect in P2-type layered manganese oxide cathode via Mo doping for sodium-ion batteries. Chemical Engineering Journal, 2021, 426, 130813.	6.6	16
59	Silica-Assisted Assembly for Synthesis of Nitrogen-Doped Hollow Mesoporous Carbon Spheres as Supercapacitors. Journal of the Electrochemical Society, 2017, 164, A1918-A1923.	1.3	15
60	Nitrogen-doping hierarchically porous carbon nanosheets for supercapacitor. Journal of Materials Science: Materials in Electronics, 2018, 29, 5363-5372.	1.1	15
61	Hollow carbon spheres/hollow carbon nanorods composites as electrode materials for supercapacitor. Journal of the Taiwan Institute of Chemical Engineers, 2019, 101, 244-250.	2.7	15
62	â€œDissolution-reassemblyâ€•for N-doped hollow micro/meso-carbon spheres with high supercapacitor performance. Chinese Chemical Letters, 2019, 30, 1423-1427.	4.8	15
63	N-doping carbon sheet and coreâ€“shell mesoporous carbon sphere composite for high-performance supercapacitor. Journal of Industrial and Engineering Chemistry, 2019, 76, 450-456.	2.9	15
64	Fe modified mesoporous hollow carbon spheres for selective oxidation of ethylbenzene. Science China Materials, 2017, 60, 1227-1233.	3.5	14
65	Nitrogen and oxygen co-doped ordered dual-mesoporous carbon for supercapacitors. Journal of Alloys and Compounds, 2019, 805, 859-867.	2.8	14
66	Synthesis of n-doped mesoporous carbon by silica assistance as electrode for supercapacitor. Journal of Materials Science: Materials in Electronics, 2019, 30, 3214-3221.	1.1	14
67	Controlling the Inner Structure of Carbon Spheres via â€œProtective-Dissolutionâ€•Strategy for Supercapacitor. Journal of Physical Chemistry C, 2019, 123, 2801-2807.	1.5	14
68	K₂Ti₆O₁₃/carbon coreâ€“shell nanorods as a superior anode material for high-rate potassium-ion batteries. Nanoscale, 2020, 12, 11427-11434.	2.8	14
69	Synthesis of mesoporous carbon nanospheres via â€œpyrolysis-depositionâ€•strategy for CO2 capture. Journal of Materials Science, 2017, 52, 9640-9647.	1.7	13
70	Hierarchical porous nitrogen-doped partial graphitized carbon monoliths for supercapacitor. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	13
71	Fabrication of hierarchical porous N-doping carbon membrane by using â€œconfined nanospace depositionâ€•method for supercapacitor. Applied Surface Science, 2018, 435, 424-431.	3.1	13
72	Monomer Selfâ€Deposition for Ordered Mesoporous Carbon for Highâ€Performance Supercapacitors. ChemSusChem, 2019, 12, 2409-2414.	3.6	13

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73	Conversion of waste plastic into ordered mesoporous carbon for electrochemical applications. Journal of Materials Research, 2019, 34, 941-949.	1.2	12
74	Acetone dissolution to prepare N-doped hierarchical porous carbon for supercapacitor. Diamond and Related Materials, 2020, 108, 107985.	1.8	12
75	Cauliflower-derived porous carbon without activation for electrochemical capacitor and CO2 capture applications. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	11
76	N-doped ordered mesoporous carbon prepared by solidâ€“solid grinding for supercapacitors. Journal of Materials Research, 2018, 33, 3408-3417.	1.2	11
77	â€œDissolution-Captureâ€•Strategy to Form Monodispersed Nitrogen-Doped Hollow Mesoporous Carbon Spheres. Journal of the Electrochemical Society, 2016, 163, A3063-A3068.	1.3	10
78	Waste chrysanthemum tea derived hierarchically porous carbon for CO2 capture. Journal of Renewable and Sustainable Energy, 2017, 9, 064901.	0.8	10
79	Hollow mesoporous carbon cages by pyrolysis of waste polyethylene for supercapacitors. New Journal of Chemistry, 2019, 43, 10899-10905.	1.4	10
80	Synthesis of mesoporous tubular carbon using natural tubular Halloysite as template for supercapacitor. Journal of Materials Science: Materials in Electronics, 2018, 29, 12187-12194.	1.1	9
81	Tunable N-doped hollow carbon spheres induced by an ionic liquid for energy storage applications. Materials Chemistry Frontiers, 2021, 5, 843-850.	3.2	9
82	Monomer self-deposition synthesis of N-doped mesoporous carbon tubes using halloysite as template for supercapacitors. Journal of Materials Science, 2021, 56, 3312-3324.	1.7	9
83	Silica-Assisted Controlled Engineering of Nitrogen-Doped Carbon Cages with Bulges for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2021, 13, 60327-60336.	4.0	9
84	CNT modified by mesoporous carbon anchored by Ni nanoparticles for CO₂ electrochemical reduction. , 2022, 4, 1274-1284.		9
85	Unlocking the side reaction mechanism of phosphorus anode with binder and the development of a multifunctional binder for enhancing the performance. Journal of Power Sources, 2022, 541, 231686.	4.0	8
86	Mesoporous carbon materials with different morphology for pesticide adsorption. Applied Nanoscience (Switzerland), 2020, 10, 151-157.	1.6	7
87	Synthesis of Three-Dimensional Hierarchically Porous Carbon Monolith via â€œPyrolysis-Captureâ€• Strategy for Supercapacitors. Journal of the Electrochemical Society, 2018, 165, A2415-A2420.	1.3	6
88	Synthesis of nitrogen-doped carbon spheres using the modified StÃ¶ber method for supercapacitors. Frontiers of Materials Science, 2019, 13, 156-164.	1.1	6
89	A layered-nanospace-confinement strategy for the synthesis of two-dimensional tin/carbon anode for Li-/Na-ion batteries. Materials Letters, 2020, 273, 127909.	1.3	6
90	Ionic liquid-induced tunable N-doped mesoporous carbon spheres for supercapacitors. Inorganic Chemistry Frontiers, 2020, 7, 2548-2555.	3.0	6

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91	Fabrication of N-doped carbon nanobelts from a polypyrrole tube by confined pyrolysis for supercapacitors. Frontiers of Chemical Science and Engineering, 2021, 15, 1312-1321.	2.3	6
92	Nitrogen-Doped Hollow Mesoporous Carbon Tube for Supercapacitors Application. Journal of the Electrochemical Society, 2019, 166, A4047-A4055.	1.3	5
93	Silicaâ€Confined Activation for Biomassâ€Derived Porous Carbon Materials for Highâ€Performance Supercapacitors. ChemElectroChem, 2021, 8, 2028-2033.	1.7	5
94	Luminogen-functionalized mesoporous SBA-15 for fluorescent detection of antibiotic cefalexin. Journal of Materials Research, 2018, 33, 1442-1448.	1.2	4
95	Synthesis of rich fluffy porous carbon spheres by dissolutionâ€"reassembly method for supercapacitors. Journal of Materials Science: Materials in Electronics, 2019, 30, 3316-3324.	1.1	4
96	Allâ€Carbon Electrode Directly Derived from Wax Gourd for Supercapacitor. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800798.	0.8	4
97	In-situ etching-activation towards carbon bowl-like hemispheres for energy storage. Carbon, 2022, 191, 67-74.	5.4	3
98	Construction of Dualâ€Mesoporous Carbon Fibers Via Coassembly for Supercapacitors. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000365.	0.8	2
99	Porous yolkâ€"shell-structured carbon nanospheres for electrochemical energy storage. Journal of Materials Science: Materials in Electronics, 2020, 31, 13321-13329.	1.1	2
100	Solvent-free carbon self-deposition of non-polymeric resin-based precursor toward N-doped porous carbon. Surface and Coatings Technology, 2021, 406, 126679.	2.2	2
101	Preparation of an N-doped mesoporous carbon sphere and sheet composite as a high-performance supercapacitor. Journal of Chemical Research, 2020, , 174751982093989.	0.6	1
102	Synthesis of nitrogen-doped porous carbon by solid grinding for supercapacitors. Journal of Materials Science: Materials in Electronics, 2020, 31, 21478-21485.	1.1	1