Juan Du

List of Publications by Year in descending order

95 papers	2,283 citations	201674 27 h-index	265206 42 g-index
95 all docs	95 docs citations	95 times ranked	2784 citing authors

#	Article	IF	Citations
1	A comprehensive modification enables the high rate capability of P2-Na0.75Mn0.67Ni0.33O2 for sodium-ion cathode materials. Journal of Energy Chemistry, 2022, 69, 442-449.	12.9	15
2	Reasonable Construction of Hollow Carbon Spheres with an Adjustable Shell Surface for Supercapacitors. ACS Applied Materials & Interfaces, 2022, 14, 11750-11757.	8.0	27
3	Treatment of Cerebral Ischemia Through NMDA Receptors: Metabotropic Signaling and Future Directions. Frontiers in Pharmacology, 2022, 13, 831181.	3.5	5
4	Fast and extensive intercalation chemistry in Wadsley-Roth phase based high-capacity electrodes. Journal of Energy Chemistry, 2022, 69, 601-611.	12.9	6
5	Ni nanoparticles confined by yolk-shell structure of CNT-mesoporous carbon for electrocatalytic conversion of CO2: Switching CO to formate. Journal of Energy Chemistry, 2022, 70, 224-229.	12.9	14
6	Manipulating the Zinc Deposition Behavior in Hexagonal Patterns at the Preferential Zn (100) Crystal Plane to Construct Surficial Dendriteâ€Free Zinc Metal Anode. Small, 2022, 18, e2105978.	10.0	61
7	Biocompatible liquid metal coated stretchable electrospinning film for strain sensors monitoring system. Science China Materials, 2022, 65, 2235-2243.	6.3	14
8	CNT modified by mesoporous carbon anchored by Ni nanoparticles for CO₂ electrochemical reduction. , 2022, 4, 1274-1284.		9
9	Promise and challenge of vanadium-based cathodes for aqueous zinc-ion batteries. Journal of Energy Chemistry, 2021, 54, 655-667.	12.9	122
10	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.	9.4	42
11	Tunable N-doped hollow carbon spheres induced by an ionic liquid for energy storage applications. Materials Chemistry Frontiers, 2021, 5, 843-850.	5.9	9
12	Monomer self-deposition synthesis of N-doped mesoporous carbon tubes using halloysite as template for supercapacitors. Journal of Materials Science, 2021, 56, 3312-3324.	3.7	9
13	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.	5.1	25
14	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.	4.4	6
15	Modification of graphene photodetector by TiO2 prepared by oxygen plasma. Journal of Materials Science, 2021, 56, 10938-10946.	3.7	4
16	Silicaâ€Confined Activation for Biomassâ€Derived Porous Carbon Materials for Highâ€Performance Supercapacitors. ChemElectroChem, 2021, 8, 2028-2033.	3.4	5
17	Extraction Behavior of Indole from Simulated Wash Oil Using Halogen-Free Ionic Liquids. ACS Omega, 2021, 6, 16623-16630.	3.5	5
18	Cr3+ pre-intercalated hydrated vanadium oxide as an excellent performance cathode for aqueous zinc-ion batteries. Fundamental Research, 2021, 1, 418-424.	3.3	9

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19	Yeasts-derived nitrogen-doped porous carbon microcapsule prepared by silica-confined activation for supercapacitor. Journal of Colloid and Interface Science, 2021, 601, 467-473.	9.4	36
20	Glycolide additives enrich organic components in the solid electrolyte interphase enabling stable ultrathin lithium metal anodes. Materials Chemistry Frontiers, 2021, 5, 2791-2797.	5.9	21
21	Research Progress of Oxygen Evolution Reaction Catalysts for Electrochemical Water Splitting. ChemSusChem, 2021, 14, 5359-5383.	6.8	70
22	Sodium-Ion Battery Anode Construction with SnP _x Crystal Domain in Amorphous Phosphorus Matrix. Energy Material Advances, 2021, 2021, .	11.0	8
23	Silica-Assisted Controlled Engineering of Nitrogen-Doped Carbon Cages with Bulges for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2021, 13, 60327-60336.	8.0	9
24	Mesoporous carbon materials with different morphology for pesticide adsorption. Applied Nanoscience (Switzerland), 2020, 10, 151-157.	3.1	7
25	Co-assembly strategy for uniform and tunable hollow carbon spheres with supercapacitor application. Journal of Colloid and Interface Science, 2020, 565, 245-253.	9.4	30
26	Synthesis of mesoporous carbon with tunable pore size for supercapacitors. New Journal of Chemistry, 2020, 44, 1036-1044.	2.8	29
27	Crosstalk shielding of transition metal ions for long cycling lithiumâ€“metal batteries. Journal of Materials Chemistry A, 2020, 8, 4283-4289.	10.3	51
28	Preparation of an N-doped mesoporous carbon sphere and sheet composite as a high-performance supercapacitor. Journal of Chemical Research, 2020, , 174751982093989.	1.3	1
29	Construction of Dualâ€Mesoporous Carbon Fibers Via Coassembly for Supercapacitors. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000365.	1.8	2
30	Synthesis of nitrogen-doped porous carbon by solid grinding for supercapacitors. Journal of Materials Science: Materials in Electronics, 2020, 31, 21478-21485.	2.2	1
31	Ionic liquid-induced tunable N-doped mesoporous carbon spheres for supercapacitors. Inorganic Chemistry Frontiers, 2020, 7, 2548-2555.	6.0	6
32	Porous yolkâ€“shell-structured carbon nanospheres for electrochemical energy storage. Journal of Materials Science: Materials in Electronics, 2020, 31, 13321-13329.	2.2	2
33	A Review on Applications of Layered Phosphorus in Energy Storage. Transactions of Tianjin University, 2020, 26, 104-126.	6.4	43
34	K₂Ti₆O₁₃/carbon coreâ€“shell nanorods as a superior anode material for high-rate potassium-ion batteries. Nanoscale, 2020, 12, 11427-11434.	5.6	14
35	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.	10.3	56
36	Synthesis of n-doped mesoporous carbon by silica assistance as electrode for supercapacitor. Journal of Materials Science: Materials in Electronics, 2019, 30, 3214-3221.	2.2	14

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37	Synthesis of nitrogen-doped mesoporous carbon for high-performance supercapacitors. New Journal of Chemistry, 2019, 43, 2776-2782.	2.8	17
38	Synthesis of rich fluffy porous carbon spheres by dissolutionâ€“reassembly method for supercapacitors. Journal of Materials Science: Materials in Electronics, 2019, 30, 3316-3324.	2.2	4
39	Mesoporous carbon sheets embedded with vesicles for enhanced supercapacitor performance. Journal of Materials Chemistry A, 2019, 7, 15707-15713.	10.3	26
40	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.	5.1	27
41	Hollow mesoporous carbon cages by pyrolysis of waste polyethylene for supercapacitors. New Journal of Chemistry, 2019, 43, 10899-10905.	2.8	10
42	Synthesis of nitrogen-doped carbon spheres using the modified StÃ¶ber method for supercapacitors. Frontiers of Materials Science, 2019, 13, 156-164.	2.2	6
43	Monomer Selfâ€Deposition for Ordered Mesoporous Carbon for Highâ€Performance Supercapacitors. ChemSusChem, 2019, 12, 2409-2414.	6.8	13
44	Allâ€Carbon Electrode Directly Derived from Wax Gourd for Supercapacitor. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800798.	1.8	4
45	Conversion of waste plastic into ordered mesoporous carbon for electrochemical applications. Journal of Materials Research, 2019, 34, 941-949.	2.6	12
46	A confined space pyrolysis strategy for controlling the structure of hollow mesoporous carbon spheres with high supercapacitor performance. Nanoscale, 2019, 11, 4453-4462.	5.6	33
47	N-Doped yolkâ€“shell carbon nanotube composite for enhanced electrochemical performance in a supercapacitor. Nanoscale, 2019, 11, 22796-22803.	5.6	28
48	Tuning Confined Nanospace for Preparation of Nâ€doped Hollow Carbon Spheres for High Performance Supercapacitors. ChemSusChem, 2019, 12, 303-309.	6.8	39
49	Carbon Nanotube@Nâ€Doped Mesoporous Carbon Composite Material for Supercapacitor Electrodes. Chemistry - an Asian Journal, 2019, 14, 634-639.	3.3	31
50	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.	3.7	25
51	Controlling the Inner Structure of Carbon Spheres via â€œProtective-Dissolutionâ€•Strategy for Supercapacitor. Journal of Physical Chemistry C, 2019, 123, 2801-2807.	3.1	14
52	Synthesis of Nitrogenâ€Doped Porous Carbon Monolith for Binderâ€Free Allâ€Carbon Supercapacitors. ChemElectroChem, 2019, 6, 535-542.	3.4	24
53	Raw-Cotton-Derived N-Doped Carbon Fiber Aerogel as an Efficient Electrode for Electrochemical Capacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 4008-4015.	6.7	108
54	Nitrogen-doping hierarchically porous carbon nanosheets for supercapacitor. Journal of Materials Science: Materials in Electronics, 2018, 29, 5363-5372.	2.2	15

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55	Cauliflower-derived porous carbon without activation for electrochemical capacitor and CO2 capture applications. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	11
56	N-Doped Mesoporous Carbon Sheets/Hollow Carbon Spheres Composite for Supercapacitors. Langmuir, 2018, 34, 15665-15673.	3.5	24
57	N-Doped Hollow Carbon Spheres/Sheets Composite for Electrochemical Capacitor. ACS Applied Materials & Interfaces, 2018, 10, 40062-40069.	8.0	48
58	Synthesis of mesoporous tubular carbon using natural tubular Halloysite as template for supercapacitor. Journal of Materials Science: Materials in Electronics, 2018, 29, 12187-12194.	2.2	9
59	Luminogen-functionalized mesoporous SBA-15 for fluorescent detection of antibiotic cefalexin. Journal of Materials Research, 2018, 33, 1442-1448.	2.6	4
60	Order Mesoporous Carbon Spheres with Precise Tunable Large Pore Size by Encapsulated Selfâ€Activation Strategy. Advanced Functional Materials, 2018, 28, 1802332.	14.9	91
61	Porous Carbon Nanosheets Prepared from Plastic Wastes for Supercapacitors. Journal of Electronic Materials, 2018, 47, 5816-5824.	2.2	16
62	N-doped ordered mesoporous carbon prepared by solidâ€“solid grinding for supercapacitors. Journal of Materials Research, 2018, 33, 3408-3417.	2.6	11
63	Porous carbon derived from waste polystyrene foam for supercapacitor. Journal of Materials Science, 2018, 53, 12115-12122.	3.7	44
64	Synthesis of bimodal mesoporous carbon nanospheres for methyl orange adsorption. Journal of Porous Materials, 2017, 24, 1605-1612.	2.6	9
65	Preparation of mesoporous carbon from biomass for heavy metal ion adsorption. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 102-108.	2.1	10
66	Synthesis of mesoporous carbon nanospheres via â€œpyrolysis-depositionâ€•strategy for CO2 capture. Journal of Materials Science, 2017, 52, 9640-9647.	3.7	13
67	Hierarchical porous nitrogen-doped partial graphitized carbon monoliths for supercapacitor. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	13
68	Electrochemiluminescence of metal-organic complex nanowires based on graphene-Nafion modified electrode for biosensing application. Science China Chemistry, 2017, 60, 642-648.	8.2	11
69	Synthesis and characterization of nitrogen-doped graphene hollow spheres as electrode material for supercapacitors. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	17
70	Biomass derived 5-hydroxymethylfurfural as carbon precursor to form hollow carbon nanospheres for CO2 capture. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 493-496.	2.1	5
71	Fe modified mesoporous hollow carbon spheres for selective oxidation of ethylbenzene. Science China Materials, 2017, 60, 1227-1233.	6.3	14
72	Potassiumâ€Activated Wire Mesh: A Stable Monolithic Catalyst for Diesel Soot Combustion. Chemical Engineering and Technology, 2017, 40, 50-55.	1.5	12

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73	Nitrogen-doped hollow carbon spheres for supercapacitors. Journal of Materials Science, 2017, 52, 3153-3161.	3.7	23
74	Waste chrysanthemum tea derived hierarchically porous carbon for CO2 capture. Journal of Renewable and Sustainable Energy, 2017, 9, 064901.	2.0	10
75	Graphene quantum dots derived from carbon fibers for oxidation of dopamine. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 1294-1297.	1.0	18
76	Synthesis of mesoporous carbon nanospheres for highly efficient adsorption of bulky dye molecules. Journal of Materials Science, 2016, 51, 7016-7028.	3.7	21
77	Highly recyclable and magnetic catalyst of a metalloporphyrin-based polymeric composite for cycloaddition of CO₂to epoxide. RSC Advances, 2016, 6, 96455-96466.	3.6	10
78	DFT Studies of the Selective Câ€“O Hydrogenolysis and Ring-Opening of Biomass-Derived Tetrahydrofurfuryl Alcohol over Rh(111) surfaces. Journal of Physical Chemistry C, 2016, 120, 19124-19134.	3.1	17
79	Fabrication of Nitrogen-Doped Hollow Mesoporous Spherical Carbon Capsules for Supercapacitors. Langmuir, 2016, 32, 8934-8941.	3.5	57
80	Controllable synthesis of nitrogen-doped hollow carbon nanospheres with dopamine as precursor for CO₂ capture. RSC Advances, 2016, 6, 91557-91561.	3.6	13
81	Characterization and optimization of graphite felt/BP2000 composite electrode for the H2/Br2 fuel cell. RSC Advances, 2016, 6, 12669-12675.	3.6	5
82	Synthesis of macro-mesoporous carbon materials and hollow core/mesoporous shell carbon spheres as supercapacitors. Journal of Materials Science, 2016, 51, 4601-4608.	3.7	34
83	A novel method for fabricating hybrid biobased nanocomposites film with stable fluorescence containing CdTe quantum dots and montmorillonite-chitosan nanosheets. Carbohydrate Polymers, 2016, 145, 13-19.	10.2	19
84	Titanate nanotube-promoted chemical fixation of carbon dioxide to cyclic carbonate: a combined experimental and computational study. Catalysis Science and Technology, 2016, 6, 780-790.	4.1	20
85	Synthesis of graphitic carbon spheres for enhanced supercapacitor performance. Journal of Materials Science, 2015, 50, 5578-5582.	3.7	32
86	Nitrogen-doped dual mesoporous carbon for the selective oxidation of ethylbenzene. Nanoscale, 2015, 7, 14684-14690.	5.6	56
87	Metalloporphyrin-based organic polymers for carbon dioxide fixation to cyclic carbonate. Journal of Materials Chemistry A, 2015, 3, 9807-9816.	10.3	110
88	Mesoporous carbonaceous materials prepared from used cigarette filters for efficient phenol adsorption and CO₂ capture. RSC Advances, 2015, 5, 107299-107306.	3.6	24
89	Synthesis of N-Doped meso-macroporous carbon and its application to SO2 absorption. Russian Journal of Physical Chemistry A, 2014, 88, 2397-2404.	0.6	1
90	Preparation and Characterization of Vanillin Cross-Linked Chitosan Microspheres of Pterostilbene. International Journal of Polymer Analysis and Characterization, 2014, 19, 83-93.	1.9	17

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91	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.	12.4	22
92	A co-confined carbonization approach to aligned nitrogen-doped mesoporous carbon nanofibers and its application as an adsorbent. Journal of Hazardous Materials, 2014, 276, 192-199.	12.4	14
93	Selective Hydrogenation of Phenol and Derivatives over Polymerâ€Functionalized Carbonâ€Nanofiberâ€Supported Palladium Using Sodium Formate as the Hydrogen Source. ChemPlusChem, 2013, 78, 1370-1378.	2.8	42
94	Selective hydrogenation of phenol and derivatives over an ionic liquid-like copolymer stabilized palladium catalyst in aqueous media. RSC Advances, 2013, 3, 4171.	3.6	33
95	Thin-walled, mesoporous and nitrogen-doped hollow carbon spheres using ionic liquids as precursors. Journal of Materials Chemistry A, 2013, 1, 1045-1047.	10.3	100