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	Promise and challenge of vanadium-based cathodes for aqueous zinc-ion batteries. Journal of Energy Chemistry, 2021, 54, 655-667.	12.9	122
2	Metalloporphyrin-based organic polymers for carbon dioxide fixation to cyclic carbonate. Journal of Materials Chemistry A, 2015, 3, 9807-9816.	10.3	110
3	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
4	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
5	Order Mesoporous Carbon Spheres with Precise Tunable Large Pore Size by Encapsulated Selfâ€Activation Strategy. Advanced Functional Materials, 2018, 28, 1802332.	14.9	91
6	Research Progress of Oxygen Evolution Reaction Catalysts for Electrochemical Water Splitting. ChemSusChem, 2021, 14, 5359-5383.	6.8	70
7	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
8	Fabrication of Nitrogen-Doped Hollow Mesoporous Spherical Carbon Capsules for Supercapacitors. Langmuir, 2016, 32, 8934-8941.	3.5	57
9	Nitrogen-doped dual mesoporous carbon for the selective oxidation of ethylbenzene. Nanoscale, 2015, 7, 14684-14690.	5.6	56
10	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
11	Crosstalk shielding of transition metal ions for long cycling lithiumâ€"metal batteries. Journal of Materials Chemistry A, 2020, 8, 4283-4289.	10.3	51
12	N-Doped Hollow Carbon Spheres/Sheets Composite for Electrochemical Capacitor. ACS Applied Materials & Interfaces, 2018, 10, 40062-40069.	8.0	48
13	Porous carbon derived from waste polystyrene foam for supercapacitor. Journal of Materials Science, 2018, 53, 12115-12122.	3.7	44
14	A Review on Applications of Layered Phosphorus in Energy Storage. Transactions of Tianjin University, 2020, 26, 104-126.	6.4	43
15	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
16	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
17	Tuning Confined Nanospace for Preparation of Nâ€doped Hollow Carbon Spheres for High Performance Supercapacitors. ChemSusChem, 2019, 12, 303-309.	6.8	39
18	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

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19	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
20	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
21	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
22	Synthesis of graphitic carbon spheres for enhanced supercapacitor performance. Journal of Materials Science, 2015, 50, 5578-5582.	3.7	32
23	Carbon Nanotube@Nâ€Doped Mesoporous Carbon Composite Material for Supercapacitor Electrodes. Chemistry - an Asian Journal, 2019, 14, 634-639.	3.3	31
24	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
25	Synthesis of mesoporous carbon with tunable pore size for supercapacitors. New Journal of Chemistry, 2020, 44, 1036-1044.	2.8	29
26	N-Doped yolkâ€"shell carbon nanotube composite for enhanced electrochemical performance in a supercapacitor. Nanoscale, 2019, 11, 22796-22803.	5.6	28
27	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
28	Reasonable Construction of Hollow Carbon Spheres with an Adjustable Shell Surface for Supercapacitors. ACS Applied Materials & Interfaces, 2022, 14, 11750-11757.	8.0	27
29	Mesoporous carbon sheets embedded with vesicles for enhanced supercapacitor performance. Journal of Materials Chemistry A, 2019, 7, 15707-15713.	10.3	26
30	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
31	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
32	Mesoporous carbonaceous materials prepared from used cigarette filters for efficient phenol adsorption and CO₂ capture. RSC Advances, 2015, 5, 107299-107306.	3.6	24
33	N-Doped Mesoporous Carbon Sheets/Hollow Carbon Spheres Composite for Supercapacitors. Langmuir, 2018, 34, 15665-15673.	3.5	24
34	Synthesis of Nitrogenâ€Doped Porous Carbon Monolith for Binderâ€Free Allâ€Carbon Supercapacitors. ChemElectroChem, 2019, 6, 535-542.	3.4	24
35	Nitrogen-doped hollow carbon spheres for supercapacitors. Journal of Materials Science, 2017, 52, 3153-3161.	3.7	23
36	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

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37	Synthesis of mesoporous carbon nanospheres for highly efficient adsorption of bulky dye molecules. Journal of Materials Science, 2016, 51, 7016-7028.	3.7	21
38	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
39	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
40	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
41	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
42	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
43	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
44	Synthesis and characterization of nitrogen-doped graphene hollow spheres as electrode material for supercapacitors. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	17
45	Synthesis of nitrogen-doped mesoporous carbon for high-performance supercapacitors. New Journal of Chemistry, 2019, 43, 2776-2782.	2.8	17
46	Porous Carbon Nanosheets Prepared from Plastic Wastes for Supercapacitors. Journal of Electronic Materials, 2018, 47, 5816-5824.	2.2	16
47	Nitrogen-doping hierarchically porous carbon nanosheets for supercapacitor. Journal of Materials Science: Materials in Electronics, 2018, 29, 5363-5372.	2.2	15
48	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
49	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
50	Fe modified mesoporous hollow carbon spheres for selective oxidation of ethylbenzene. Science China Materials, 2017, 60, 1227-1233.	6.3	14
51	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
52	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
53	K₂Ti₆O₁₃/carbon coreâ€“shell nanorods as a superior anode material for high-rate potassium-ion batteries. Nanoscale, 2020, 12, 11427-11434.	5.6	14
54	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

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55	Biocompatible liquid metal coated stretchable electrospinning film for strain sensors monitoring system. Science China Materials, 2022, 65, 2235-2243.	6.3	14
56	Controllable synthesis of nitrogen-doped hollow carbon nanospheres with dopamine as precursor for CO₂ capture. RSC Advances, 2016, 6, 91557-91561.	3.6	13
57	Synthesis of mesoporous carbon nanospheres via â€œpyrolysis-depositionâ€•strategy for CO2 capture. Journal of Materials Science, 2017, 52, 9640-9647.	3.7	13
58	Hierarchical porous nitrogen-doped partial graphitized carbon monoliths for supercapacitor. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	13
59	Monomer Selfâ€Deposition for Ordered Mesoporous Carbon for Highâ€Performance Supercapacitors. ChemSusChem, 2019, 12, 2409-2414.	6.8	13
60	Potassiumâ€Activated Wire Mesh: A Stable Monolithic Catalyst for Diesel Soot Combustion. Chemical Engineering and Technology, 2017, 40, 50-55.	1.5	12
61	Conversion of waste plastic into ordered mesoporous carbon for electrochemical applications. Journal of Materials Research, 2019, 34, 941-949.	2.6	12
62	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
63	Cauliflower-derived porous carbon without activation for electrochemical capacitor and CO2 capture applications. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	11
64	N-doped ordered mesoporous carbon prepared by solidâ€“solid grinding for supercapacitors. Journal of Materials Research, 2018, 33, 3408-3417.	2.6	11
65	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
66	Preparation of mesoporous carbon from biomass for heavy metal ion adsorption. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 102-108.	2.1	10
67	Waste chrysanthemum tea derived hierarchically porous carbon for CO2 capture. Journal of Renewable and Sustainable Energy, 2017, 9, 064901.	2.0	10
68	Hollow mesoporous carbon cages by pyrolysis of waste polyethylene for supercapacitors. New Journal of Chemistry, 2019, 43, 10899-10905.	2.8	10
69	Synthesis of bimodal mesoporous carbon nanospheres for methyl orange adsorption. Journal of Porous Materials, 2017, 24, 1605-1612.	2.6	9
70	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
71	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
72	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

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73	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
74	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
75	CNT modified by mesoporous carbon anchored by Ni nanoparticles for CO₂ electrochemical reduction. , 2022, 4, 1274-1284.		9
76	Sodium-Ion Battery Anode Construction with SnP <i> _x </i> Crystal Domain in Amorphous Phosphorus Matrix. Energy Material Advances, 2021, 2021, .	11.0	8
77	Mesoporous carbon materials with different morphology for pesticide adsorption. Applied Nanoscience (Switzerland), 2020, 10, 151-157.	3.1	7
78	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
79	Ionic liquid-induced tunable N-doped mesoporous carbon spheres for supercapacitors. Inorganic Chemistry Frontiers, 2020, 7, 2548-2555.	6.0	6
80	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
81	Fast and extensive intercalation chemistry in Wadsley-Roth phase based high-capacity electrodes. Journal of Energy Chemistry, 2022, 69, 601-611.	12.9	6
82	Characterization and optimization of graphite felt/BP2000 composite electrode for the H2/Br2 fuel cell. RSC Advances, 2016, 6, 12669-12675.	3.6	5
83	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
84	Silicaâ€Confined Activation for Biomassâ€Derived Porous Carbon Materials for Highâ€Performance Supercapacitors. ChemElectroChem, 2021, 8, 2028-2033.	3.4	5
85	Extraction Behavior of Indole from Simulated Wash Oil Using Halogen-Free Ionic Liquids. ACS Omega, 2021, 6, 16623-16630.	3.5	5
86	Treatment of Cerebral Ischemia Through NMDA Receptors: Metabotropic Signaling and Future Directions. Frontiers in Pharmacology, 2022, 13, 831181.	3.5	5
87	Luminogen-functionalized mesoporous SBA-15 for fluorescent detection of antibiotic cefalexin. Journal of Materials Research, 2018, 33, 1442-1448.	2.6	4
88	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
89	Allâ€Carbon Electrode Directly Derived from Wax Gourd for Supercapacitor. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800798.	1.8	4
90	Modification of graphene photodetector by TiO2 prepared by oxygen plasma. Journal of Materials Science, 2021, 56, 10938-10946.	3.7	4

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91	Construction of Dualâ€Mesoporous Carbon Fibers Via Coassembly for Supercapacitors. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000365.	1.8	2
92	Porous yolkâ€"shell-structured carbon nanospheres for electrochemical energy storage. Journal of Materials Science: Materials in Electronics, 2020, 31, 13321-13329.	2.2	2
93	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
94	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
95	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