Cheng-yang Wang

List of Publications by Year
in descending order

81 papers	4,891 citations	201385 27 h-index	91712 69 g-index
82 all docs	82 docs citations	82 times ranked	7396 citing authors

#	Article	IF	Citations
1	Supercapacitor Devices Based on Graphene Materials. Journal of Physical Chemistry C, 2009, 113, 13103-13107.	1.5	2,295
2	Lignin-based electrospun carbon nanofibrous webs as free-standing and binder-free electrodes for sodium ion batteries. Journal of Power Sources, 2014, 272, 800-807.	4.0	242
3	Hierarchical porous carbon derived from sulfonated pitch for electrical double layer capacitors. Journal of Power Sources, 2014, 252, 235-243.	4.0	147
4	A porous biomass-derived anode for high-performance sodium-ion batteries. Carbon, 2018, 129, 695-701.	5.4	146
5	Hierarchical Tubular Structures Composed of Mnâ€Based Mixed Metal Oxide Nanoflakes with Enhanced Electrochemical Properties. Advanced Functional Materials, 2015, 25, 5184-5189.	7.8	124
6	Droplet Microfluidics for the Production of Microparticles and Nanoparticles. Micromachines, 2017, 8, 22.	1.4	108
7	Preparation of mesoporous carbons from amphiphilic carbonaceous material for high-performance electric double-layer capacitors. Journal of Power Sources, 2011, 196, 550-558.	4.0	95
8	Spherical hard carbon prepared from potato starch using as anode material for Li-ion batteries. Materials Letters, 2011, 65, 3368-3370.	1.3	84
9	Commercial activated carbon as a novel precursor of the amorphous carbon for high-performance sodium-ion batteries anode. Carbon, 2018, 129, 85-94.	5.4	84
10	High-yield humic acid-based hard carbons as promising anode materials for sodium-ion batteries. Carbon, 2017, 123, 727-734.	5.4	77
11	N-Doped Dual Carbon-Confined 3D Architecture rGO/Fe₃O₄/AC Nanocomposite for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 13470-13478.	4.0	71
12	High-capacity SiO (0â‰xâ‰2) as promising anode materials for next-generation lithium-ion batteries. Journal of Alloys and Compounds, 2020, 842, 155774.	2.8	69
13	Design of nitrogen doped graphene grafted TiO₂ hollow nanostructures with enhanced sodium storage performance. Journal of Materials Chemistry A, 2014, 2, 12449-12458.	5.2	66
14	Nanoporous carbon synthesised with coal tar pitch and its capacitive performance. Journal of Materials Chemistry A, 2013, 1, 9498.	5.2	64
15	Humic acids-based hierarchical porous carbons as high-rate performance electrodes for symmetric supercapacitors. Bioresource Technology, 2014, 163, 386-389.	4.8	64
16	SiO₂/Carbon Composite Microspheres with Hollow Coreâ€“Shell Structure as a Highâ€Stability Electrode for Lithiumâ€Ion Batteries. ChemElectroChem, 2017, 4, 542-549.	1.7	63
17	Influence of H2 reduction on lignin-based hard carbon performance in lithium ion batteries. Electrochimica Acta, 2015, 176, 1352-1357.	2.6	54
18	Nanostructured SiO2/C composites prepared via electrospinning and their electrochemical properties for lithium ion batteries. Journal of Electroanalytical Chemistry, 2015, 746, 62-67.	1.9	53

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19	Lignin-derived hierarchical porous carbon for high-performance supercapacitors. Journal of Solid State Electrochemistry, 2016, 20, 1405-1412.	1.2	52
20	Electrochemical performance of fulvic acid-based electrospun hard carbon nanofibers as promising anodes for sodium-ion batteries. Journal of Power Sources, 2016, 334, 170-178.	4.0	47
21	The morphology controlled synthesis of 3D networking LiFePO₄with multiwalled-carbon nanotubes for Li-ion batteries. CrystEngComm, 2014, 16, 260-269.	1.3	36
22	2D porous carbon nanosheets constructed using few-layer graphene sheets by a â€œmedium-upâ€•strategy for ultrahigh power-output EDLCs. Journal of Materials Chemistry A, 2018, 6, 10331-10339.	5.2	35
23	Rational valence modulation of bimetallic carbide assisted by defect engineering to enhance polysulfide conversion for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 18032-18042.	5.2	35
24	The key pre-pyrolysis in lignin-based activated carbon preparation for high performance supercapacitors. Materials Chemistry and Physics, 2016, 181, 187-193.	2.0	34
25	Structure and surface elemental state analysis of polyimide resin film after carbonization and graphitization. Journal of Applied Polymer Science, 2008, 108, 1852-1856.	1.3	32
26	Frame-filling C/C composite for high-performance EDLCs with high withstanding voltage. Carbon, 2018, 131, 184-192.	5.4	29
27	Ultraviolet Irradiation Treatment for Enhanced Sodium Storage Performance Based on Wide-Interlayer-Spacing Hollow C@MoS₂@CN Nanospheres. ACS Applied Materials & Interfaces, 2018, 10, 38084-38092.	4.0	29
28	CoB and BN composites enabling integrated adsorption/catalysis to polysulfides for inhibiting shuttle-effect in Li-S batteries. Journal of Energy Chemistry, 2021, 59, 220-228.	7.1	28
29	Electrochemical performance of MCMB/(AC+LiFePO4) lithium-ion capacitors. Science Bulletin, 2013, 58, 689-695.	1.7	27
30	Three-dimensional Si/hard-carbon/graphene network as high-performance anode material for lithium ion batteries. Journal of Materials Science, 2018, 53, 2149-2160.	1.7	26
31	Abundant Defects-Induced Interfaces Enabling Effective Anchoring for Polysulfides and Enhanced Kinetics in Lean Electrolyte Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 46767-46775.	4.0	25
32	A low-cost attempt to improve electrochemical performances of pitch-based hard carbon anodes in lithium-ion batteries by oxidative stabilization. Journal of Solid State Electrochemistry, 2017, 21, 555-562.	1.2	23
33	Bridging Li₇La₃Zr₂O₁₂ Nanofibers with Poly(ethylene) Tj ETQq1 1 0.784314 rgB Batteries. ACS Applied Materials & Interfaces, 2022, 14, 5346-5354.	4.0	23
34	Preparation and formation mechanism of size-controlled lignin based microsphere by reverse phase polymerization. Materials Chemistry and Physics, 2018, 203, 97-105.	2.0	22
35	Uniform growth of Li2S promoted by an organophosphorus-based mediator for high rate Li-S batteries. Chemical Engineering Journal, 2020, 381, 122685.	6.6	22
36	Structure and optical absorption properties of NiTiO3 nanocrystallites. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	21

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37	Design and Preparation of Ligninâ€Based Hierarchical Porous Carbon Microspheres by High Efficient Activation for Electric Double Layer Capacitors. ChemElectroChem, 2018, 5, 2142-2149.	1.7	21
38	Hollow Co3O4 Nanosphere Surrounded by N-Doped Graphitic Carbon Filled within Multilayer-Sandwiched Graphene Network: A High-Performance Anode for Lithium Storage. Inorganic Chemistry, 2019, 58, 3416-3424.	1.9	21
39	Fabrication of conductive carbonaceous spherical architecture from pitch by spray drying. Chemical Engineering Science, 2015, 135, 109-116.	1.9	20
40	Facile synthesis of biomass-derived hierarchical porous carbon microbeads for supercapacitors. Journal of Solid State Electrochemistry, 2016, 20, 2231-2240.	1.2	20
41	Nanoporous carbons from oxidized green needle coke for use in high performance supercapacitors. New Carbon Materials, 2015, 30, 141-149.	2.9	19
42	Studies on the performances of silica aerogel electrodes for the application of supercapacitor. Ionics, 2009, 15, 561-565.	1.2	18
43	Frame-filling structural nanoporous carbon from amphiphilic carbonaceous mixture comprising graphite oxide. Carbon, 2016, 108, 225-233.	5.4	18
44	Enhanced kinetic behaviors of LiMn0.5Fe0.5PO4/C cathode material by Fe substitution and carbon coating. Journal of Solid State Electrochemistry, 2015, 19, 2943-2950.	1.2	17
45	Effect of reduction heat treatment in H2 atmosphere on structure and electrochemical properties of activated carbon. Journal of Solid State Electrochemistry, 2015, 19, 1437-1446.	1.2	17
46	Unveiling a bimetallic FeCo-coupled MoS₂ composite for enhanced energy storage. Nanoscale, 2020, 12, 10532-10542.	2.8	15
47	Conversion of phenolic mixture to refractory resins: A resourcezation strategy for phenolic distillation residues. Journal of Hazardous Materials, 2021, 414, 125357.	6.5	15
48	Layer-by-layer N, P co-doped carbon materials with gradient electric field to suppress the shuttle effect for lithium sulfur batteries. Journal of Alloys and Compounds, 2021, 870, 159543.	2.8	15
49	Mesoporous electronegative nanocomposites of SBA-15 with CaOâ€“CeO2 for polycarbonate depolymerization. Journal of Materials Science, 2019, 54, 9442-9455.	1.7	14
50	Potassium-assisted carbonization of chlorobenzene in Ar/H2 to prepare porous carbon with low oxygen content for high withstanding voltage EDLCs. Carbon, 2021, 172, 154-161.	5.4	14
51	Characterization and electrochemical performance of activated carbon spheres prepared from potato starch by CO2 activation. Journal of Porous Materials, 2013, 20, 15-20.	1.3	13
52	Electrochemical behavior of lithium-rich layered oxide Li[Li0.23Ni0.15Mn0.62]O2 cathode material for lithium-ion battery. Journal of Solid State Electrochemistry, 2015, 19, 1659-1669.	1.2	12
53	Highly Conductive Hierarchical C/C Composites to Eliminate Conductive Agent in EDLC Electrodes. ChemElectroChem, 2017, 4, 2793-2800.	1.7	12
54	Enhanced Electrochemical Performance of Mesocarbonâ€Microbeadsâ€Based Anodes through Air Oxidation for Sodiumâ€Ion Batteries. ChemElectroChem, 2017, 4, 2583-2592.	1.7	11

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55	An Attempt to Improve Electrochemical Performances of Ligninâ€Based Hard Carbon Microspheres Anodes in Sodiumâ€Ion Batteries by Using Hexamethylenetetramine. ChemistrySelect, 2018, 3, 9518-9525.	0.7	11
56	Facile Synthesis of N,Pâ€codoped Hard Carbon Nanoporous Microspheres from Lignin for Highâ€Performance Anodes of Sodiumâ€Ion Batteries. ChemElectroChem, 2021, 8, 3544-3552.	1.7	11
57	Preparation of mesoporous MgO-templated carbons from phenolic resin and their applications for electric double-layer capacitors. Science Bulletin, 2013, 58, 992-997.	1.7	10
58	Ligninâ€Derived Hard Carbon Microspheres Synthesized via Emulsionâ€Solvent Evaporation as Anode for Sodium Storage. Energy Technology, 2020, 8, 1901423.	1.8	10
59	A method to observe the structure of the interface between mesocarbon microbeads and pitch. Journal of Colloid and Interface Science, 2014, 426, 206-208.	5.0	9
60	Amphiphilic carbonaceous material-based hierarchical porous carbon aerogels for supercapacitors. Journal of Solid State Electrochemistry, 2015, 19, 619-627.	1.2	9
61	Catalytic Synthesis of Hard/Soft Carbon Hybrids with Heteroatom Doping for Enhanced Sodium Storage. ChemistrySelect, 2019, 4, 3551-3558.	0.7	9
62	Optimizing the Crystallite Structure of Ligninâ€Based Nanospheres by Resinification for Highâ€Performance Sodiumâ€Ion Battery Anodes. Energy Technology, 2020, 8, 1900694.	1.8	9
63	Reducing the microcracks of mesophase-pitch-based carbon foams by long-time-coking method. Journal of Materials Science, 2006, 41, 6100-6102.	1.7	7
64	Application of SEM to detect the structure of mesocarbon microbeads. Journal of Materials Science, 2005, 40, 2055-2057.	1.7	6
65	Study of amorphous Ni-La-B/g-Al2O3 catalysts for the production of hydrogen peroxide from carbon monoxide, water and oxygen. Reaction Kinetics and Catalysis Letters, 2005, 85, 73-78.	0.6	5
66	MgO-templated mesoporous carbons using a pitch-based thermosetting carbon precursor. RSC Advances, 2016, 6, 100546-100553.	1.7	5
67	Humic acidâ€derived hierarchical porous carbon preparation using vacuum freezeâ€drying for electric double layer capacitors. Journal of the Chinese Chemical Society, 2018, 65, 835-840.	0.8	5
68	Synthesis of Sizeâ€Controllable Ligninâ€Based Nanosperes and Its Application in Electrical Double Layer Capacitors. ChemistrySelect, 2020, 5, 8265-8273.	0.7	5
69	Structural Changes of Activated Carbon Electrodes for EDLCs in the Manufacturing Process. Transactions of Tianjin University, 2020, 26, 391-398.	3.3	5
70	Mulberryâ€Like Coreâ€Shell Structured C@MnO 2 as Electrode Material for Liâ€“Ion Batteries and Pseudoâ€Capacitors. ChemistrySelect, 2020, 5, 5657-5664.	0.7	5
71	Mesocarbon microbeads with superior anode performance for sodium-ion batteries. Ionics, 2021, 27, 677-682.	1.2	5
72	Effect of surface oxygen groups of the supports on platinum dispersion in Pt/C catalysts. Reaction Kinetics and Catalysis Letters, 2005, 86, 135-139.	0.6	4

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73	LiPAA with Shortâ€chain Anion Facilitating Li₂S_x (xâ€‰â€‰â€‰4) Reduction in Leanâ€electrolyte Lithiumâ€“sulfur Battery. Energy and Environmental Materials, 2022, 5, 877-882.	7.3	4
74	Porous carbon nanospheres with moderately oriented domains for EDLC electrode. Journal of the Chinese Chemical Society, 2019, 66, 1499-1506.	0.8	3
75	Manganeseâ€“nickel bimetallic oxide electrocatalyzing redox reactions of lithium polysulfides in lithiumâ€“sulfur batteries. Sustainable Energy and Fuels, 2022, 6, 1426-1435.	2.5	3
76	Adsorption of PtCl62- anions on the surface of carbon blackÂ. Reaction Kinetics and Catalysis Letters, 2006, 88, 51-56.	0.6	2
77	Highly Conductive Hierarchical C/C Composites to Eliminate Conductive Agent in EDLC Electrodes. ChemElectroChem, 2017, 4, 2726-2726.	1.7	2
78	On-Chip Facile Preparation of Monodisperse Resorcinol Formaldehyde (RF) Resin Microspheres. Micromachines, 2018, 9, 24.	1.4	2
79	Ureaâ€assisted Strategy Controlling The Pore Structure And Chemical Composition Of The Porous Carbon For Highâ€performance Supercapacitors. ChemistrySelect, 2019, 4, 13012-13020.	0.7	1
80	Microwave absorption studies of the planar equiangular spiral antenna array/epoxy resin composites. Journal of Materials Science, 2009, 44, 2427-2429.	1.7	0
81	Mesoporous activated carbon from amphiphilic carbonaceous material and its application in EDLC. , 2010, , .		0