Cheng-yang Wang

List of Publications by Citations

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77 papers	3,892 citations	24 h-index	62 g-index
82 ext. papers	4,411 ext. citations	6 avg, IF	5.52 L-index

#	Paper	IF	Citations
77	Supercapacitor Devices Based on Graphene Materials. *Journal of Physical Chemistry C*, **2009**, 113, 13103-13107	3.8	2018
76	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	8.9	207
75	Hierarchical porous carbon derived from sulfonated pitch for electrical double layer capacitors. *Journal of Power Sources*, **2014**, 252, 235-243	8.9	124
74	Hierarchical Tubular Structures Composed of Mn-Based Mixed Metal Oxide Nanoflakes with Enhanced Electrochemical Properties. *Advanced Functional Materials*, **2015**, 25, 5184-5189	15.6	116
73	A porous biomass-derived anode for high-performance sodium-ion batteries. *Carbon*, **2018**, 129, 695-701	10.4	102
72	Preparation of mesoporous carbons from amphiphilic carbonaceous material for high-performance electric double-layer capacitors. *Journal of Power Sources*, **2011**, 196, 550-558	8.9	76
71	Droplet Microfluidics for the Production of Microparticles and Nanoparticles. *Micromachines*, **2017**, 8, 22	3.3	68
70	Spherical hard carbon prepared from potato starch using as anode material for Li-ion batteries. *Materials Letters*, **2011**, 65, 3368-3370	3.3	63
69	Design of nitrogen doped graphene grafted TiO2 hollow nanostructures with enhanced sodium storage performance. *Journal of Materials Chemistry A*, **2014**, 2, 12449-12458	13	60
68	N-Doped Dual Carbon-Confined 3D Architecture rGO/FeO/AC Nanocomposite for High-Performance Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 13470-13478	9.5	56
67	Nanoporous carbon synthesised with coal tar pitch and its capacitive performance. *Journal of Materials Chemistry A*, **2013**, 1, 9498	13	56
66	Humic acids-based hierarchical porous carbons as high-rate performance electrodes for symmetric supercapacitors. *Bioresource Technology*, **2014**, 163, 386-9	11	53
65	Commercial activated carbon as a novel precursor of the amorphous carbon for high-performance sodium-ion batteries anode. *Carbon*, **2018**, 129, 85-94	10.4	49
64	Nanostructured SiO2/C composites prepared via electrospinning and their electrochemical properties for lithium ion batteries. *Journal of Electroanalytical Chemistry*, **2015**, 746, 62-67	4.1	48
63	High-yield humic acid-based hard carbons as promising anode materials for sodium-ion batteries. *Carbon*, **2017**, 123, 727-734	10.4	47
62	SiO2/Carbon Composite Microspheres with Hollow Core–Shell Structure as a High-Stability Electrode for Lithium-Ion Batteries. *ChemElectroChem*, **2017**, 4, 542-549	4.3	45
61	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	8.9	38

60	Influence of H2 reduction on lignin-based hard carbon performance in lithium ion batteries. *Electrochimica Acta*, **2015**, 176, 1352-1357	6.7	34
59	Lignin-derived hierarchical porous carbon for high-performance supercapacitors. *Journal of Solid State Electrochemistry*, **2016**, 20, 1405-1412	2.6	34
58	The morphology controlled synthesis of 3D networking LiFePO4 with multiwalled-carbon nanotubes for Li-ion batteries. *CrystEngComm*, **2014**, 16, 260-269	3.3	33
57	Structure and surface elemental state analysis of polyimide resin film after carbonization and graphitization. *Journal of Applied Polymer Science*, **2008**, 108, 1852-1856	2.9	30
56	High-capacity SiOx (0⊠2) as promising anode materials for next-generation lithium-ion batteries. *Journal of Alloys and Compounds*, **2020**, 842, 155774	5.7	29
55	The key pre-pyrolysis in lignin-based activated carbon preparation for high performance supercapacitors. *Materials Chemistry and Physics*, **2016**, 181, 187-193	4.4	25
54	Ultraviolet Irradiation Treatment for Enhanced Sodium Storage Performance Based on Wide-Interlayer-Spacing Hollow C@MoS@CN Nanospheres. *ACS Applied Materials & Interfaces*, **2018**, 10, 38084-38092	9.5	24
53	2D porous carbon nanosheets constructed using few-layer graphene sheets by a ⊟hedium-up⊡ strategy for ultrahigh power-output EDLCs. *Journal of Materials Chemistry A*, **2018**, 6, 10331-10339	13	22
52	Three-dimensional Si/hard-carbon/graphene network as high-performance anode material for lithium ion batteries. *Journal of Materials Science*, **2018**, 53, 2149-2160	4.3	22
51	Frame-filling C/C composite for high-performance EDLCs with high withstanding voltage. *Carbon*, **2018**, 131, 184-192	10.4	21
50	Electrochemical performance of MCMB/(AC+LiFePO4) lithium-ion capacitors. *Science Bulletin*, **2013**, 58, 689-695		21
49	Facile synthesis of biomass-derived hierarchical porous carbon microbeads for supercapacitors. *Journal of Solid State Electrochemistry*, **2016**, 20, 2231-2240	2.6	18
48	Uniform growth of Li2S promoted by an organophosphorus-based mediator for high rate Li-S batteries. *Chemical Engineering Journal*, **2020**, 381, 122685	14.7	16
47	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	2.6	15
46	Nanoporous carbons from oxidized green needle coke for use in high performance supercapacitors. *New Carbon Materials*, **2015**, 30, 141-149	4.4	15
45	Frame-filling structural nanoporous carbon from amphiphilic carbonaceous mixture comprising graphite oxide. *Carbon*, **2016**, 108, 225-233	10.4	15
44	Hollow CoO 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	5.1	14
43	Fabrication of conductive carbonaceous spherical architecture from pitch by spray drying. *Chemical Engineering Science*, **2015**, 135, 109-116	4.4	14

42	Design and Preparation of Lignin-Based Hierarchical Porous Carbon Microspheres by High Efficient Activation for Electric Double Layer Capacitors. *ChemElectroChem*, **2018**, 5, 2142-2149	4.3	14
41	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	2.6	14
40	Studies on the performances of silica aerogel electrodes for the application of supercapacitor. *Ionics*, **2009**, 15, 561-565	2.7	13
39	Rational valence modulation of bimetallic carbide assisted by defect engineering to enhance polysulfide conversion for lithium□sulfur batteries. *Journal of Materials Chemistry A*, **2020**, 8, 18032-18042	13	13
38	Abundant Defects-Induced Interfaces Enabling Effective Anchoring for Polysulfides and Enhanced Kinetics in Lean Electrolyte Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 46767-46775	9.5	13
37	Preparation and formation mechanism of size-controlled lignin based microsphere by reverse phase polymerization. *Materials Chemistry and Physics*, **2018**, 203, 97-105	4.4	12
36	Characterization and electrochemical performance of activated carbon spheres prepared from potato starch by CO2 activation. *Journal of Porous Materials*, **2013**, 20, 15-20	2.4	12
35	Structure and optical absorption properties of NiTiO3 nanocrystallites. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	11
34	Highly Conductive Hierarchical C/C Composites to Eliminate Conductive Agent in EDLC Electrodes. *ChemElectroChem*, **2017**, 4, 2793-2800	4.3	11
33	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	2.6	10
32	Amphiphilic carbonaceous material-based hierarchical porous carbon aerogels for supercapacitors. *Journal of Solid State Electrochemistry*, **2015**, 19, 619-627	2.6	9
31	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	5.7	9
30	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	12	9
29	Mesoporous electronegative nanocomposites of SBA-15 with CaO□eO2 for polycarbonate depolymerization. *Journal of Materials Science*, **2019**, 54, 9442-9455	4.3	8
28	Unveiling a bimetallic FeCo-coupled MoS composite for enhanced energy storage. *Nanoscale*, **2020**, 12, 10532-10542	7.7	8
27	Preparation of mesoporous MgO-templated carbons from phenolic resin and their applications for electric double-layer capacitors. *Science Bulletin*, **2013**, 58, 992-997		8
26	An Attempt to Improve Electrochemical Performances of Lignin-Based Hard Carbon Microspheres Anodes in Sodium-Ion Batteries by Using Hexamethylenetetramine. *ChemistrySelect*, **2018**, 3, 9518-9525	1.8	8
25	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	2.6	7

24	A method to observe the structure of the interface between mesocarbon microbeads and pitch. *Journal of Colloid and Interface Science*, **2014**, 426, 206-8	9.3	7
23	Enhanced Electrochemical Performance of Mesocarbon-Microbeads-Based Anodes through Air Oxidation for Sodium-Ion Batteries. *ChemElectroChem*, **2017**, 4, 2583-2592	4.3	6
22	Lignin-Derived Hard Carbon Microspheres Synthesized via Emulsion-Solvent Evaporation as Anode for Sodium Storage. *Energy Technology*, **2020**, 8, 1901423	3.5	6
21	Application of SEM to detect the structure of mesocarbon microbeads. *Journal of Materials Science*, **2005**, 40, 2055-2057	4.3	5
20	Optimizing the Crystallite Structure of Lignin-Based Nanospheres by Resinification for High-Performance Sodium-Ion Battery Anodes. *Energy Technology*, **2020**, 8, 1900694	3.5	5
19	Reducing the microcracks of mesophase-pitch-based carbon foams by long-time-coking method. *Journal of Materials Science*, **2006**, 41, 6100-6102	4.3	4
18	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		4
17	Conversion of phenolic mixture to refractory resins: A resourcezation strategy for phenolic distillation residues. *Journal of Hazardous Materials*, **2021**, 414, 125357	12.8	4
16	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	10.4	4
15	Catalytic Synthesis of Hard/Soft Carbon Hybrids with Heteroatom Doping for Enhanced Sodium Storage. *ChemistrySelect*, **2019**, 4, 3551-3558	1.8	3
14	Mulberry-Like Core-Shell Structured C@MnO2 as Electrode Material for Li-Ion Batteries and Pseudo-Capacitors. *ChemistrySelect*, **2020**, 5, 5657-5664	1.8	3
13	Humic acid-derived hierarchical porous carbon preparation using vacuum freeze-drying for electric double layer capacitors. *Journal of the Chinese Chemical Society*, **2018**, 65, 835-840	1.5	3
12	MgO-templated mesoporous carbons using a pitch-based thermosetting carbon precursor. *RSC Advances*, **2016**, 6, 100546-100553	3.7	3
11	Facile Synthesis of N,P-codoped Hard Carbon Nanoporous Microspheres from Lignin for High-Performance Anodes of Sodium-Ion Batteries. *ChemElectroChem*, **2021**, 8, 3544-3552	4.3	3
10	On-Chip Facile Preparation of Monodisperse Resorcinol Formaldehyde (RF) Resin Microspheres. *Micromachines*, **2018**, 9,	3.3	2
9	Highly Conductive Hierarchical C/C Composites to Eliminate Conductive Agent in EDLC Electrodes. *ChemElectroChem*, **2017**, 4, 2726-2726	4.3	2
8	Adsorption of PtCl 6 2- anions on the surface of carbon black. *Reaction Kinetics and Catalysis Letters*, **2006**, 88, 51-56		2
7	Effect of surface oxygen groups of the supports on platinum dispersion in Pt/C catalysts. *Reaction Kinetics and Catalysis Letters*, **2005**, 86, 135-139		2

6	Synthesis of Size-Controllable Lignin-Based Nanosperes and Its Application in Electrical Double Layer Capacitors. *ChemistrySelect*, **2020**, 5, 8265-8273	1.8	2
5	Structural Changes of Activated Carbon Electrodes for EDLCs in the Manufacturing Process. *Transactions of Tianjin University*, **2020**, 26, 391-398	2.9	1
4	Mesocarbon microbeads with superior anode performance for sodium-ion batteries. *Ionics*, **2021**, 27, 677-682	2.7	1
3	Urea-assisted Strategy Controlling The Pore Structure And Chemical Composition Of The Porous Carbon For High-performance Supercapacitors. *ChemistrySelect*, **2019**, 4, 13012-13020	1.8	0
2	Porous carbon nanospheres with moderately oriented domains for EDLC electrode. *Journal of the Chinese Chemical Society*, **2019**, 66, 1499-1506	1.5	
1	Microwave absorption studies of the planar equiangular spiral antenna array/epoxy resin composites. *Journal of Materials Science*, **2009**, 44, 2427-2429	4.3	