

Xiaoqing Yang

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57
papers

2,475
citations

28
h-index

49
g-index

58
ext. papers

3,001
ext. citations

6.4
avg, IF

5.67
L-index

#	Paper	IF	Citations
57	Electrochemically active, crystalline, mesoporous covalent organic frameworks on carbon nanotubes for synergistic lithium-ion battery energy storage. <i>Scientific Reports</i> , 2015 , 5, 8225	4.9	243
56	Nitrogen-Enriched Nanocarbons with a 3-D Continuous Mesopore Structure from Polyacrylonitrile for Supercapacitor Application. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8581-8586	3.8	221
55	Experimental investigation on the thermal performance of heat pipe-assisted phase change material based battery thermal management system. <i>Energy Conversion and Management</i> , 2017 , 138, 486-492	10.6	199
54	Experimental study on a novel battery thermal management technology based on low density polyethylene-enhanced composite phase change materials coupled with low fins. <i>Applied Energy</i> , 2016 , 178, 376-382	10.7	135
53	Preparation and thermal conductivity enhancement of composite phase change materials for electronic thermal management. <i>Energy Conversion and Management</i> , 2015 , 101, 278-284	10.6	113
52	An experimental study of thermal management system using copper mesh-enhanced composite phase change materials for power battery pack. <i>Energy</i> , 2016 , 113, 909-916	7.9	113
51	A novel nanosilica-enhanced phase change material with anti-leakage and anti-volume-changes properties for battery thermal management. <i>Energy Conversion and Management</i> , 2018 , 163, 250-259	10.6	110
50	A phase change material with enhanced thermal conductivity and secondary heat dissipation capability by introducing a binary thermal conductive skeleton for battery thermal management. <i>Applied Thermal Engineering</i> , 2019 , 148, 984-991	5.8	96
49	The porous structures of activated carbon aerogels and their effects on electrochemical performance. <i>Journal of Power Sources</i> , 2008 , 185, 589-594	8.9	93
48	A novel thermal management structure using serpentine phase change material coupled with forced air convection for cylindrical battery modules. <i>Journal of Power Sources</i> , 2020 , 468, 228398	8.9	74
47	Preparation and lithium-storage performance of carbon/silica composite with a unique porous bicontinuous nanostructure. <i>Carbon</i> , 2014 , 77, 275-280	10.4	74
46	Optimization of the detailed factors in a phase-change-material module for battery thermal management. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 138, 126-134	4.9	64
45	A thermal management system for rectangular LiFePO ₄ battery module using novel double copper mesh-enhanced phase change material plates. <i>Energy</i> , 2017 , 141, 613-623	7.9	54
44	Crosslinking-induced spontaneous growth: A novel strategy for synthesizing sandwich-type graphene@Fe ₃ O ₄ dots/amorphous carbon with high lithium storage performance. <i>Chemical Engineering Journal</i> , 2018 , 334, 1614-1620	14.7	53
43	Custom design of solid-solid phase change material with ultra-high thermal stability for battery thermal management. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14624-14633	13	51
42	Fabrication of Fe O Dots Embedded in 3D Honeycomb-Like Carbon Based on Metallo-Organic Molecule with Superior Lithium Storage Performance. <i>Small</i> , 2017 , 13, 1701351	11	40
41	Durability of phase-change-material module and its relieving effect on battery deterioration during long-term cycles. <i>Applied Thermal Engineering</i> , 2020 , 179, 115747	5.8	39

40	A thermal conductive composite phase change material with enhanced volume resistivity by introducing silicon carbide for battery thermal management. <i>Applied Thermal Engineering</i> , 2018 , 144, 551-557	5.8	38
39	Preparation of activated ordered mesoporous carbons with a channel structure. <i>Langmuir</i> , 2008 , 24, 2967-9	4	38
38	Experimental research on the effective heating strategies for a phase change material based power battery module. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 128, 392-400	4.9	37
37	Pore size control of wormholelike mesoporous carbons. <i>Carbon</i> , 2009 , 47, 916-918	10.4	36
36	Carbon aerogel with 3-D continuous skeleton and mesopore structure for lithium-ion batteries application. <i>Materials Chemistry and Physics</i> , 2015 , 149-150, 657-662	4.4	35
35	Nitrogen-enriched carbon with extremely high mesoporosity and tunable mesopore size for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2016 , 319, 66-72	8.9	34
34	Activated carbon aerogels with developed mesoporosity as high-rate anodes in lithium-ion batteries. <i>Journal of Materials Science</i> , 2016 , 51, 5565-5571	4.3	33
33	High performance anode of lithium-ion batteries derived from an advanced carbonaceous porous network. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 777-781	5.7	32
32	Effect of high temperature environment on the performance of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ battery. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 743-748	4.9	32
31	Ammonia-assisted semicarbonization: a simple method to introduce micropores without damaging a 3D mesoporous carbon nanonetwork structure. <i>Langmuir</i> , 2014 , 30, 9183-9	4	29
30	Experimental investigation on a novel liquid-cooling strategy by coupling with graphene-modified silica gel for the thermal management of cylindrical battery. <i>Applied Thermal Engineering</i> , 2019 , 159, 113885	5.8	28
29	Mesopore-dominant activated carbon aerogels with high surface area for electric double-layer capacitor application. <i>Materials Letters</i> , 2015 , 161, 538-541	3.3	28
28	Researches of composite phase change material cooling/resistance wire preheating coupling system of a designed 18650-type battery module. <i>Applied Thermal Engineering</i> , 2017 , 127, 176-183	5.8	28
27	Hierarchical porous carbon with ultrahigh surface area from corn leaf for high-performance supercapacitors application. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 055501	3	26
26	Nitrogen-Doped Mesoporous Carbons for Supercapacitor Electrodes with High Specific Volumetric Capacitance. <i>Langmuir</i> , 2017 , 33, 3975-3981	4	26
25	Activated Carbon Fibers with Hierarchical Nanostructure Derived from Waste Cotton Gloves as High-Performance Electrodes for Supercapacitors. <i>Nanoscale Research Letters</i> , 2017 , 12, 379	5	25
24	Preparation of Ti mesh supported WO ₃ /TiO ₂ nanotubes composite and its application for photocatalytic degradation under visible light. <i>Materials Letters</i> , 2015 , 145, 216-218	3.3	22
23	Optimization of liquid cooling technology for cylindrical power battery module. <i>Applied Thermal Engineering</i> , 2019 , 162, 114200	5.8	21

22	Polystyrene-derived carbon with hierarchical macro-meso-microporous structure for high-rate lithium-ion batteries application. <i>Journal of Materials Science</i> , 2015 , 50, 6649-6655	4.3	19
21	Promotion effect of strong metal-support interaction to thermocatalytic, photocatalytic, and photothermocatalytic oxidation of toluene on Pt/SrTiO. <i>Chemosphere</i> , 2020 , 249, 126096	8.4	15
20	Investigation on the applicable pore size of nanoporous carbon for electrochemical double-layer formation at different current densities. <i>Electrochimica Acta</i> , 2017 , 241, 189-196	6.7	13
19	Silica/Carbon Composites with Controllable Nanostructure from a Facile One-Step Method for Lithium-Ion Batteries Application. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801809	4.6	12
18	Mesopore-dominant wormhole-like carbon with high supercapacitive performance in organic electrolyte. <i>RSC Advances</i> , 2017 , 7, 15096-15101	3.7	11
17	Investigation on the root cause of the decreased performances in the overcharged lithium iron phosphate battery. <i>International Journal of Energy Research</i> , 2018 , 42, 2448-2455	4.5	11
16	Fabrication of In ₂ O ₃ /TiO ₂ nanotube arrays hybrids with homogeneously developed nanostructure for photocatalytic degradation of Rhodamine B. <i>Materials Research Bulletin</i> , 2018 , 106, 197-203	5.1	11
15	Experimental study of a novel strategy to construct the battery thermal management module by using tubular phase change material units. <i>Journal of Energy Storage</i> , 2021 , 39, 102585	7.8	11
14	Identification of the Nearby Hydroxyls Role in Promoting HCHO Oxidation over a Pt Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8183-8189	3.9	11
13	Nitrogen, Sulfur, and Phosphorus Codoped Hollow Carbon Microtubes Derived from Silver Willow Blossoms as a High-Performance Anode for Sodium-Ion Batteries. <i>Energy & Fuels</i> , 2021 , 35, 2795-2804	4.1	8
12	A study on structure-performance relationship of overcharged 18650-size Li ₄ Ti ₅ O ₁₂ /LiMn ₂ O ₄ battery. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 118, 1413-1418	4.1	6
11	Ultrareliable Composite Phase Change Material for Battery Thermal Management Derived from a Rationally Designed Phase Changeable and Hydrophobic Polymer Skeleton. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3832-3841	6.1	4
10	Series of solid-solid phase change materials with ultra-high thermal stability and controllable phase change temperature: kilogram-leveled preparation and application investigation. <i>Journal of Energy Storage</i> , 2021 , 36, 102405	7.8	4
9	Preparation of Composite Cooling Boards Composed of Thermal Conductive Silica Gel and Phase Change Materials for Battery Thermal Management. <i>Energy & Fuels</i> , 2021 , 35, 13466-13473	4.1	4
8	Polydopamine-based materials applied in Li-ion batteries: a review. <i>Journal of Materials Science</i> , 2017 , 52, 1000-1010	4.3	4
7	Electrolytic treatment of industrial circulating cooling water using titanium-ruthenium-iridium anode and stainless steel cathode. <i>Desalination and Water Treatment</i> , 2015 , 56, 905-911		3
6	Flexible phase change materials obtained from a simple solvent-evaporation method for battery thermal management. <i>Journal of Energy Storage</i> , 2021 , 44, 103447	7.8	2
5	Preparation of BiOBr/BiVO ₄ composite and its application for photocatalytic degradation under visible light. <i>Materials Research Innovations</i> , 2016 , 20, 230-234	1.9	2

4	Preparation of mesoporous carbon aerogels via ambient pressure drying using a self-sacrificing melamine-formaldehyde template. <i>Journal of Power Sources</i> , 2021 , 482, 229135	8.9	2
3	Nanoporous Carbon with Hierarchically Fiber-Like Nanostructure for Lithium Ion Batteries Application. <i>Energy Technology</i> , 2018 , 6, 2344-2349	3.5	2
2	Preparation of Quasi-Thermoplastic Phase Change Polymer with Intrinsic Antileakage Performance for Battery Thermal Management. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100807	4.6	0
1	A simple cooling structure with precisely-tailored liquid cooling plate for thermal management of large battery module. <i>Applied Thermal Engineering</i> , 2022 , 212, 118575	5.8	0