

Guo-qing Zhang

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

1,026
citations

19
h-index

31
g-index

54
ext. papers

1,327
ext. citations

5.4
avg. IF

4.87
L-index

#	Paper	IF	Citations
51	Liquid cooling system for battery modules with boron nitride based thermal conductivity silicone grease.. <i>RSC Advances</i> , 2022 , 12, 4311-4321	3.7	0
50	Advanced thermal management system driven by phase change materials for power lithium-ion batteries: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 159, 112207	16.2	5
49	Investigation on the thermo-electric-electrochemical characteristics of retired LFP batteries for echelon applications.. <i>RSC Advances</i> , 2022 , 12, 14127-14136	3.7	0
48	Simulation study on internal short circuit of lithium ion battery caused by lithium dendrite. <i>Materials Today Communications</i> , 2022 , 31, 103570	2.5	1
47	Structural Optimization and Thermal Management with PCM-Honeycomb Combination for Photovoltaic-Battery Integrated System. <i>International Journal of Photoenergy</i> , 2022 , 2022, 1-17	2.1	
46	Cross-linked cellulose/carboxylated polyimide nanofiber separator for lithium-ion battery application. <i>Chemical Engineering Journal</i> , 2021 , 433, 133934	14.7	9
45	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
44	Formed Weave Cage-Like Nanostructure Wrapped Mesoporous Micron Silicon Anode for Enhanced Stable Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29726-29736	9.5	4
43	Electrospun nanofiber separator derived from nano-SiO ₂ -modified polyimide with superior mechanical flexibility for high-performance lithium-ion battery. <i>Journal of Materials Science</i> , 2021 , 56, 15215-15228	4.3	5
42	In Situ Generated Carbon Nanosheet-Covered Micron-Sized Porous Si Composite for Long-Cycling Life Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 535-544	6.1	8
41	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
40	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
39	A temperature field superposition method for predicting the thermal behavior of lithium-ion battery. <i>Journal of Energy Storage</i> , 2021 , 43, 103227	7.8	1
38	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
37	Experimental investigation on the essential cause of the degrading performances for an overcharging ternary battery. <i>International Journal of Energy Research</i> , 2020 , 44, 3134-3147	4.5	5
36	Long-Term Stable Hollowed Silicon for Li-Ion Batteries Based on an Improved Low-Temperature Molten Salt Strategy. <i>ACS Omega</i> , 2020 , 5, 27368-27373	3.9	0
35	Experimental and Numerical Investigation on an Integrated Thermal Management System for the Li-Ion Battery Module with Phase Change Material. <i>International Journal of Photoenergy</i> , 2020 , 2020, 1-14	2.1	4

34	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
33	Excited-State Chemistry: Photocatalytic Methanol Oxidation by Uranyl@Zeolite through Oxygen-Centered Radicals. <i>Inorganic Chemistry</i> , 2020 , 59, 6287-6300	5.1	4
32	Low Melting-Point Alloy Boron Nitride Nanosheet Composites for Thermal Management. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3494-3502	5.6	8
31	Enhanced Stability Lithium-Ion Battery Based on Optimized Graphene/Si Nanocomposites by Templated Assembly. <i>ACS Omega</i> , 2019 , 4, 18195-18202	3.9	14
30	Experimental Investigation on a Thermoelectric Cooler for Thermal Management of a Lithium-Ion Battery Module. <i>International Journal of Photoenergy</i> , 2019 , 2019, 1-10	2.1	24
29	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
28	Experimental investigation on thermal performance of silica cooling plate-aluminate thermal plate-coupled forced convection-based pouch battery thermal management system. <i>International Journal of Energy Research</i> , 2019 , 43, 7604	4.5	3
27	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
26	Experimental investigation of thermal management system for lithium ion batteries module with coupling effect by heat sheets and phase change materials. <i>International Journal of Energy Research</i> , 2018 , 42, 3279-3288	4.5	44
25	Experimental examination of large capacity LiFePO ₄ battery pack at high temperature and rapid discharge using novel liquid cooling strategy. <i>International Journal of Energy Research</i> , 2018 , 42, 1172-1182	4.5	43
24	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
23	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
22	Mesopore-dominant wormhole-like carbon with high supercapacitive performance in organic electrolyte. <i>RSC Advances</i> , 2017 , 7, 15096-15101	3.7	11
21	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
20	Experimental study of a passive thermal management system for three types of battery using copper foam saturated with phase change materials. <i>RSC Advances</i> , 2017 , 7, 27441-27448	3.7	19
19	Nitrogen-Doped Mesoporous Carbons for Supercapacitor Electrodes with High Specific Volumetric Capacitance. <i>Langmuir</i> , 2017 , 33, 3975-3981	4	26
18	Microporous carbons with three-dimensional interconnected macropores based on corn stigmas for advanced supercapacitors. <i>Journal of Materials Science</i> , 2017 , 52, 2816-2824	4.3	10
17	Thermal management investigation for lithium-ion battery module with different phase change materials. <i>RSC Advances</i> , 2017 , 7, 42909-42918	3.7	27

16	Liquid cooling based on thermal silica plate for battery thermal management system. <i>International Journal of Energy Research</i> , 2017 , 41, 2468-2479	4.5	96
15	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
14	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
13	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
12	Polystyrene-derived carbon with hierarchical macro/mesoporous structure for high-rate lithium-ion batteries application. <i>Journal of Materials Science</i> , 2015 , 50, 6649-6655	4.3	19
11	Electrolytic treatment of industrial circulating cooling water using titanium/uthenium/ridium anode and stainless steel cathode. <i>Desalination and Water Treatment</i> , 2015 , 56, 905-911		3
10	Substrate-induced interfacial plasmonics for photovoltaic conversion. <i>Scientific Reports</i> , 2015 , 5, 14497	4.9	21
9	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
8	Electrochemical performance of LiVPO ₄ F synthesized by ball-milling assisted sol-gel method. <i>Russian Journal of Electrochemistry</i> , 2014 , 50, 1003-1007	1.2	2
7	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
6	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
5	Photocatalysis with visible-light-active uranyl complexes. <i>Science China Chemistry</i> , 2013 , 56, 1671-1681	7.9	37
4	Simulation and experiment of thermal energy management with phase change material for ageing LiFePO ₄ power battery. <i>Energy Conversion and Management</i> , 2011 , 52, 3408-3414	10.6	175
3	Synthesis and characterization of Mg ₃ (PO ₄) ₂ -coated Li _{1.05} Ni _{1/3} Mn _{1/3} Co _{1/3} O ₂ cathode material for Li-ion battery. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2009 , 24, 347-353	1	4
2	Flexible Composite Phase-Change Material with Shape Recovery and Antileakage Properties for Battery Thermal Management. <i>ACS Applied Energy Materials</i> ,	6.1	2
1	Polydopamine-based materials applied in Li-ion batteries: a review. <i>Journal of Materials Science</i> ,1	4.3	4