

Guo-qing Zhang

List of Publications by Year in descending order

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54
papers

1,747
citations

304368

22
h-index

276539

41
g-index

54
all docs

54
docs citations

54
times ranked

1708
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation and experiment of thermal energy management with phase change material for ageing LiFePO ₄ power battery. Energy Conversion and Management, 2011, 52, 3408-3414.	4.4	239
2	Liquid cooling based on thermal silica plate for battery thermal management system. International Journal of Energy Research, 2017, 41, 2468-2479.	2.2	145
3	Custom design of solid-phase change material with ultra-high thermal stability for battery thermal management. Journal of Materials Chemistry A, 2020, 8, 14624-14633.	5.2	98
4	Advanced thermal management system driven by phase change materials for power lithium-ion batteries: A review. Renewable and Sustainable Energy Reviews, 2022, 159, 112207.	8.2	98
5	Experimental investigation of thermal management system for lithium ion batteries module with coupling effect by heat sheets and phase change materials. International Journal of Energy Research, 2018, 42, 3279-3288.	2.2	97
6	Preparation and lithium-storage performance of carbon/silica composite with a unique porous bicontinuous nanostructure. Carbon, 2014, 77, 275-280.	5.4	87
7	Durability of phase-change-material module and its relieving effect on battery deterioration during long-term cycles. Applied Thermal Engineering, 2020, 179, 115747.	3.0	86
8	Cross-linked cellulose/carboxylated polyimide nanofiber separator for lithium-ion battery application. Chemical Engineering Journal, 2022, 433, 133934.	6.6	71
9	Experimental examination of large capacity LiFePO ₄ battery pack at high temperature and rapid discharge using novel liquid cooling strategy. International Journal of Energy Research, 2018, 42, 1172-1182.	2.2	63
10	Crosslinking-induced spontaneous growth: A novel strategy for synthesizing sandwich-type graphene@Fe ₃ O ₄ dots/amorphous carbon with high lithium storage performance. Chemical Engineering Journal, 2018, 334, 1614-1620.	6.6	57
11	Photocatalysis with visible-light-active uranyl complexes. Science China Chemistry, 2013, 56, 1671-1681.	4.2	51
12	Experimental Investigation on a Thermoelectric Cooler for Thermal Management of a Lithium-Ion Battery Module. International Journal of Photoenergy, 2019, 2019, 1-10.	1.4	50
13	Fabrication of Fe ₃ O ₄ Dots Embedded in 3D Honeycomb-Like Carbon Based on Metal-Organic Molecule with Superior Lithium Storage Performance. Small, 2017, 13, 1701351.	5.2	49
14	Thermal management investigation for lithium-ion battery module with different phase change materials. RSC Advances, 2017, 7, 42909-42918.	1.7	44
15	Activated carbon aerogels with developed mesoporosity as high-rate anodes in lithium-ion batteries. Journal of Materials Science, 2016, 51, 5565-5571.	1.7	35
16	Activated Carbon Fibers with Hierarchical Nanostructure Derived from Waste Cotton Gloves as High-Performance Electrodes for Supercapacitors. Nanoscale Research Letters, 2017, 12, 379.	3.1	30
17	Nitrogen-Doped Mesoporous Carbons for Supercapacitor Electrodes with High Specific Volumetric Capacitance. Langmuir, 2017, 33, 3975-3981.	1.6	30
18	Experimental study of a passive thermal management system for three types of battery using copper foam saturated with phase change materials. RSC Advances, 2017, 7, 27441-27448.	1.7	29

#	ARTICLE	IF	CITATIONS
19	Substrate-induced interfacial plasmonics for photovoltaic conversion. <i>Scientific Reports</i> , 2015, 5, 14497.	1.6	24
20	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.	1.3	24
21	Low Melting-Point Alloy-Boron Nitride Nanosheet Composites for Thermal Management. <i>ACS Applied Nano Materials</i> , 2020, 3, 3494-3502.	2.4	24
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.	1.7	23
23	<i>In Situ</i> 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.	4.0	22
24	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.	2.5	21
25	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.	1.7	21
26	Enhanced Stability Lithium-Ion Battery Based on Optimized Graphene/Si Nanocomposites by Templated Assembly. <i>ACS Omega</i> , 2019, 4, 18195-18202.	1.6	20
27	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.	2.5	18
28	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.	1.9	16
29	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.	2.7	15
30	Polydopamine-based materials applied in Li-ion batteries: a review. <i>Journal of Materials Science</i> , 2021, 56, 19359-19382.	1.7	15
31	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.	2.2	13
32	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.	2.5	13
33	Mesopore-dominant wormhole-like carbon with high supercapacitive performance in organic electrolyte. <i>RSC Advances</i> , 2017, 7, 15096-15101.	1.7	12
34	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.	2.2	12
35	Microporous carbons with three-dimensional interconnected macropores based on corn stigmas for advanced supercapacitors. <i>Journal of Materials Science</i> , 2017, 52, 2816-2824.	1.7	11
36	Excited-State Chemistry: Photocatalytic Methanol Oxidation by Uranyl@Zeolite through Oxygen-Centered Radicals. <i>Inorganic Chemistry</i> , 2020, 59, 6287-6300.	1.9	11

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37	Flexible Composite Phase-Change Material with Shape Recovery and Antileakage Properties for Battery Thermal Management. ACS Applied Energy Materials, 2021, 4, 13890-13902.	2.5	11
38	Experimental and Numerical Investigation on an Integrated Thermal Management System for the Li-Ion Battery Module with Phase Change Material. International Journal of Photoenergy, 2020, 2020, 1-14.	1.4	10
39	A study on structure-performance relationship of overcharged 18650-size Li4Ti5O12/LiMn2O4 battery. Journal of Thermal Analysis and Calorimetry, 2014, 118, 1413-1418.	2.0	7
40	Investigation on the thermo-electric-electrochemical characteristics of retired LFP batteries for echelon applications. RSC Advances, 2022, 12, 14127-14136.	1.7	7
41	Simulation study on internal short circuit of lithium ion battery caused by lithium dendrite. Materials Today Communications, 2022, 31, 103570.	0.9	6
42	Synthesis and characterization of Mg3(PO4)2-coated Li1.05Ni1/3Mn1/3Co1/3O2 cathode material for Li-ion battery. Journal Wuhan University of Technology, Materials Science Edition, 2009, 24, 347-353.	0.4	4
43	Electrolytic treatment of industrial circulating cooling water using titanium-ruthenium-iridium anode and stainless steel cathode. Desalination and Water Treatment, 2015, 56, 905-911.	1.0	4
44	Preparation of BiOBr/BiVO4 composite and its application for photocatalytic degradation under visible light. Materials Research Innovations, 2016, 20, 230-234.	1.0	4
45	Experimental investigation on thermal performance of silica cooling plate-aluminate thermal plate-coupled forced convection-based pouch battery thermal management system. International Journal of Energy Research, 2019, 43, 7604.	2.2	4
46	Liquid cooling system for battery modules with boron nitride based thermal conductivity silicone grease. RSC Advances, 2022, 12, 4311-4321.	1.7	4
47	Electrochemical performance of LiVPO4F synthesized by ball-milling assisted sol-gel method. Russian Journal of Electrochemistry, 2014, 50, 1003-1007.	0.3	3
48	Preparation of Quasi-Thermoplastic Phase Change Polymer with Intrinsic Antileakage Performance for Battery Thermal Management. Advanced Materials Interfaces, 2021, 8, 2100807.	1.9	3
49	Electrospun polyimide@organic-montmorillonite composite separator with enhanced mechanical and thermal performances for high-safety lithium-ion battery. Journal of Materials Science, 2022, 57, 11796-11808.	1.7	3
50	Long-Term Stable Hollowed Silicon for Li-Ion Batteries Based on an Improved Low-Temperature Molten Salt Strategy. ACS Omega, 2020, 5, 27368-27373.	1.6	1
51	Experimental investigations on the correlations between the structure and thermal-electrochemical properties of over-discharged ternary/ <sc>Si</sc> power batteries. International Journal of Energy Research, 2022, 46, 1609-1621.	2.2	1
52	A temperature field superposition method for predicting the thermal behavior of lithium-ion battery. Journal of Energy Storage, 2021, 43, 103227.	3.9	1
53	Photocatalytic Inactivation of Microorganisms by TiO2/nickel Foam Materials. , 2012, , .		0
54	Structural Optimization and Thermal Management with PCM-Honeycomb Combination for Photovoltaic-Battery Integrated System. International Journal of Photoenergy, 2022, 2022, 1-17.	1.4	0