

Mohsen Akbarzadeh

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

574
citations

933447

10
h-index

1058476

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15
all docs

15
docs citations

15
times ranked

180
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel liquid cooling plate concept for thermal management of lithium-ion batteries in electric vehicles. <i>Energy Conversion and Management</i> , 2021, 231, 113862.	9.2	158
2	A comparative study between air cooling and liquid cooling thermal management systems for a high-energy lithium-ion battery module. <i>Applied Thermal Engineering</i> , 2021, 198, 117503.	6.0	122
3	PCM assisted heat pipe cooling system for the thermal management of an LTO cell for high-current profiles. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100920.	5.7	68
4	Thermal modeling of a high-energy prismatic lithium-ion battery cell and module based on a new thermal characterization methodology. <i>Journal of Energy Storage</i> , 2020, 32, 101707.	8.1	44
5	A hybrid thermal management system for high power lithium-ion capacitors combining heat pipe with phase change materials. <i>Heliyon</i> , 2021, 7, e07773.	3.2	34
6	Lithium-Ion Capacitor Lifetime Extension through an Optimal Thermal Management System for Smart Grid Applications. <i>Energies</i> , 2021, 14, 2907.	3.1	29
7	Experimental and numerical thermal analysis of a lithium-ion battery module based on a novel liquid cooling plate embedded with phase change material. <i>Journal of Energy Storage</i> , 2022, 50, 104673.	8.1	27
8	Holistic 1D Electro-Thermal Model Coupled to 3D Thermal Model for Hybrid Passive Cooling System Analysis in Electric Vehicles. <i>Energies</i> , 2021, 14, 5924.	3.1	20
9	A novel hybrid thermal management approach towards high-voltage battery pack for electric vehicles. <i>Energy Conversion and Management</i> , 2021, 247, 114676.	9.2	20
10	A Novel Air-Cooled Thermal Management Approach towards High-Power Lithium-Ion Capacitor Module for Electric Vehicles. <i>Energies</i> , 2021, 14, 7150.	3.1	11
11	Optimization of 1D/3D Electro-Thermal Model for Liquid-Cooled Lithium-Ion Capacitor Module in High Power Applications. <i>Electricity</i> , 2021, 2, 503-523.	2.8	11
12	Effects analysis on energy density optimization and thermal efficiency enhancement of the air-cooled Li-ion battery modules. <i>Journal of Energy Storage</i> , 2022, 48, 103847.	8.1	11
13	Experimental and Numerical Study on the Thermal Behavior of a Large Lithium-Ion Prismatic Cell With Natural Air Convection. <i>IEEE Transactions on Industry Applications</i> , 2021, 57, 6475-6482.	4.9	8
14	A novel methodology to determine the specific heat capacity of lithium-ion batteries. <i>Journal of Power Sources</i> , 2022, 520, 230869.	7.8	7
15	Investigation of Thermal Behavior of Large Lithium-Ion Prismatic Cell in Natural Air Convection. , 2020, , .		4