

Hamidreza Behi

List of Publications by Year in descending order

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34
papers

1,454
citations

393982

19
h-index

454577

30
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34
all docs

34
docs citations

34
times ranked

532
citing authors

#	ARTICLE	IF	CITATIONS
1	Developing an online data-driven approach for prognostics and health management of lithium-ion batteries. <i>Applied Energy</i> , 2022, 308, 118348.	5.1	70
2	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.	3.9	11
3	An Experimental Study on Thermal Performance of Graphite-Based Phase-Change Materials for High-Power Batteries. <i>Energies</i> , 2022, 15, 2515.	1.6	12
4	Advanced hybrid thermal management system for LTO battery module under fast charging. <i>Case Studies in Thermal Engineering</i> , 2022, 33, 101938.	2.8	27
5	Novel Hybrid Thermal Management System for High-Power Lithium-Ion Module for Electric Vehicles: Fast Charging Applications. <i>World Electric Vehicle Journal</i> , 2022, 13, 86.	1.6	8
6	A Comprehensive Review of Lithium-Ion Capacitor Technology: Theory, Development, Modeling, Thermal Management Systems, and Applications. <i>Molecules</i> , 2022, 27, 3119.	1.7	17
7	Experimental and numerical analysis of holistic active and passive thermal management systems for electric vehicles: Fast charge and discharge applications. <i>Results in Engineering</i> , 2022, 15, 100486.	2.2	11
8	Advanced Thermal Management Systems for High-Power Lithium-Ion Capacitors: A Comprehensive Review. <i>Designs</i> , 2022, 6, 53.	1.3	5
9	Online health diagnosis of lithium-ion batteries based on nonlinear autoregressive neural network. <i>Applied Energy</i> , 2021, 282, 116159.	5.1	94
10	Reliability evaluation of Li-ion batteries for electric vehicles applications from the thermal perspectives. , 2021, , 563-587.		11
11	A compact and optimized liquid-cooled thermal management system for high power lithium-ion capacitors. <i>Applied Thermal Engineering</i> , 2021, 185, 116449.	3.0	50
12	Heat pipe air-cooled thermal management system for lithium-ion batteries: High power applications. <i>Applied Thermal Engineering</i> , 2021, 183, 116240.	3.0	75
13	Lithium-Ion Capacitor Lifetime Extension through an Optimal Thermal Management System for Smart Grid Applications. <i>Energies</i> , 2021, 14, 2907.	1.6	29
14	Comprehensive Passive Thermal Management Systems for Electric Vehicles. <i>Energies</i> , 2021, 14, 3881.	1.6	45
15	Novel thermal management methods to improve the performance of the Li-ion batteries in high discharge current applications. <i>Energy</i> , 2021, 224, 120165.	4.5	57
16	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.	2.8	68
17	A hybrid thermal management system for high power lithium-ion capacitors combining heat pipe with phase change materials. <i>Heliyon</i> , 2021, 7, e07773.	1.4	34
18	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.	1.6	20

#	ARTICLE	IF	CITATIONS
19	Enhancement of the Thermal Energy Storage Using Heat-Pipe-Assisted Phase Change Material. <i>Energies</i> , 2021, 14, 6176.	1.6	28
20	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.	3.0	122
21	Twinâ€model framework development for a comprehensive battery lifetime prediction validated with a realistic driving profile. <i>Energy Science and Engineering</i> , 2021, 9, 2191-2201.	1.9	21
22	A New Concept of Air Cooling and Heat Pipe for Electric Vehicles in Fast Discharging. <i>Energies</i> , 2021, 14, 6477.	1.6	16
23	A Novel Air-Cooled Thermal Management Approach towards High-Power Lithium-Ion Capacitor Module for Electric Vehicles. <i>Energies</i> , 2021, 14, 7150.	1.6	11
24	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.	1.4	11
25	Effects of Structural Substituents on the Electrochemical Decomposition of Carbonyl Derivatives and Formation of the Solidâ€Electrolyte Interphase in Lithium-Ion Batteries. <i>Energies</i> , 2021, 14, 7352.	1.6	6
26	Novel and Environmental Friendly Design Optimization for Battery Thermal Management System. , 2021, , .		0
27	Thermal management analysis using heat pipe in the high current discharging of lithium-ion battery in electric vehicles. <i>Journal of Energy Storage</i> , 2020, 32, 101893.	3.9	109
28	Thermal performance enhancement of phase change material using aluminum-mesh grid foil for lithium-capacitor modules. <i>Journal of Energy Storage</i> , 2020, 30, 101508.	3.9	48
29	A new concept of thermal management system in Li-ion battery using air cooling and heat pipe for electric vehicles. <i>Applied Thermal Engineering</i> , 2020, 174, 115280.	3.0	182
30	Aluminum Heat Sink Assisted Air-Cooling Thermal Management System for High Current Applications in Electric Vehicles. , 2020, , .		12
31	Thermal Concept Design of MOSFET Power Modules in Inverter Subsystems for Electric Vehicles. , 2019, , .		25
32	Evaluation of a novel solar driven sorption cooling/heating system integrated with PCM storage compartment. <i>Energy</i> , 2018, 164, 449-464.	4.5	49
33	Investigation of PCM-assisted heat pipe for electronic cooling. <i>Applied Thermal Engineering</i> , 2017, 127, 1132-1142.	3.0	145
34	Performance assessment of a natural gas expansion plant integrated with a vertical ground-coupled heat pump. <i>Energy</i> , 2015, 93, 2503-2517.	4.5	25