

# Shahabeddin K Mohammadian

## List of Publications by Year in descending order

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12  
papers

650  
citations

1163117

8  
h-index

1281871

11  
g-index

12  
all docs

12  
docs citations

12  
times ranked

642  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal management optimization of an air-cooled Li-ion battery module using pin-fin heat sinks for hybrid electric vehicles. <i>Journal of Power Sources</i> , 2015, 273, 431-439.	7.8	186
2	Thermal management improvement of an air-cooled high-power lithium-ion battery by embedding metal foam. <i>Journal of Power Sources</i> , 2015, 296, 305-313.	7.8	122
3	Internal cooling of a lithium-ion battery using electrolyte as coolant through microchannels embedded inside the electrodes. <i>Journal of Power Sources</i> , 2015, 293, 458-466.	7.8	115
4	Cumulative effects of using pin fin heat sink and porous metal foam on thermal management of lithium-ion batteries. <i>Applied Thermal Engineering</i> , 2017, 118, 375-384.	6.0	66
5	Analysis of nanofluid effects on thermoelectric cooling by micro-pin-fin heat exchangers. <i>Applied Thermal Engineering</i> , 2014, 70, 282-290.	6.0	49
6	Improving wettability and preventing Li-ion batteries from thermal runaway using microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 911-918.	4.8	39
7	Performance Augmentation and Optimization of Aluminum Oxide-Water Nanofluid Flow in a Two-Fluid Microchannel Heat Exchanger. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	37
8	Temperature Uniformity Improvement of an Air-Cooled High-Power Lithium-Ion Battery Using Metal and Nonmetal Foams. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	19
9	Convection heat transfer with internal heat generation in porous media: Implementation of thermal lattice Boltzmann method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019, 76, 101-114.	2.1	7
10	Effects of Size of Microchannels on Thermo-Electrical Performance of an Internally Cooled Li-Ion Battery Cell. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2016, 13, .	2.1	5
11	Thermal Management of Li-Ion Batteries by Embedding Microgrooves Inside the Electrodes: A Thermal Lattice Boltzmann Method Study. <i>Journal of Heat Transfer</i> , 2020, 142, .	2.1	5
12	Thermoelectric Effects of Size of Microchannels on an Internally Cooled Li-Ion Battery Cell. , 2016, , .		0