

Karthik Somasundaram

List of Publications by Citations

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Version: 2024-04-28

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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.

11
papers

531
citations

7
h-index

11
g-index

11
ext. papers

641
ext. citations

6.1
avg, IF

3.71
L-index

#	Paper	IF	Citations
11	Thermal-electrochemical model for passive thermal management of a spiral-wound lithium-ion battery. <i>Journal of Power Sources</i> , 2012 , 203, 84-96	8.9	119
10	Electro-thermal analysis of Lithium Iron Phosphate battery for electric vehicles. <i>Journal of Power Sources</i> , 2014 , 249, 231-238	8.9	111
9	Numerical investigation of water cooling for a lithium-ion bipolar battery pack. <i>International Journal of Thermal Sciences</i> , 2015 , 94, 259-269	4.1	87
8	Effect of thermal contact resistances on fast charging of large format lithium ion batteries. <i>Electrochimica Acta</i> , 2014 , 134, 327-337	6.7	78
7	Thermo-electrochemical model for forced convection air cooling of a lithium-ion battery module. <i>Applied Thermal Engineering</i> , 2016 , 99, 672-682	5.8	60
6	Multi-temperature state-dependent equivalent circuit discharge model for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016 , 328, 289-299	8.9	48
5	Analysis of a Model for an Electrochemical Capacitor. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A1220	3.9	15
4	Hydrodynamic Voltammetry at a Rocking Disc Electrode: Theory versus Experiment. <i>Electrochimica Acta</i> , 2016 , 188, 837-844	6.7	7
3	Model for a bipolar Li-ion battery module: Automated model generation, validation and verification. <i>Applied Mathematics and Computation</i> , 2012 , 219, 2231-2245	2.7	6
2	Scale Analysis of Electrochemical and Thermal Behaviour of a Cylindrical Spiral-wound Lithium-ion Battery. <i>Electrochimica Acta</i> , 2021 , 139397	6.7	0
1	Monte Carlo-based sensitivity analysis of an electrochemical capacitor. <i>International Journal of Energy Research</i> , 2021 , 45, 16947-16962	4.5	0