

# Karthik Somasundaram

## List of Publications by Year in Descending Order

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