

# Shankar Mohan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5318870/publications.pdf>

Version: 2024-02-01

20  
papers

880  
citations

1163117  
8  
h-index

1474206  
9  
g-index

20  
all docs

20  
docs citations

20  
times ranked

770  
citing authors

#	ARTICLE	IF	CITATIONS
1	A lumped-parameter electro-thermal model for cylindrical batteries. Journal of Power Sources, 2014, 257, 1-11.	7.8	421
2	The Estimation of Temperature Distribution in Cylindrical Battery Cells Under Unknown Cooling Conditions. IEEE Transactions on Control Systems Technology, 2014, 22, 2277-2286.	5.2	111
3	A Phenomenological Model of Bulk Force in a Li-Ion Battery Pack and Its Application to State of Charge Estimation. Journal of the Electrochemical Society, 2014, 161, A2222-A2231.	2.9	81
4	Modeling and Estimation for Advanced Battery Management. Annual Review of Control, Robotics, and Autonomous Systems, 2019, 2, 393-426.	11.8	59
5	A Plug and Play Operational Approach for Implementation of an Autonomous-Micro-Grid System. IEEE Transactions on Industrial Informatics, 2012, 8, 615-629.	11.3	47
6	Energy-Conscious Warm-Up of Li-Ion Cells From Subzero Temperatures. IEEE Transactions on Industrial Electronics, 2016, 63, 2954-2964.	7.9	47
7	Estimating the Power Capability of Li-ion Batteries Using Informationally Partitioned Estimators. IEEE Transactions on Control Systems Technology, 2016, 24, 1643-1654.	5.2	29
8	Maximum Power Estimation of Lithium-Ion Batteries Accounting for Thermal and Electrical Constraints. , 2013, , .		13
9	Convex computation of the reachable set for hybrid systems with parametric uncertainty. , 2016, , .		12
10	An Energy-Optimal Warm-Up Strategy for Li-Ion Batteries and Its Approximations. IEEE Transactions on Control Systems Technology, 2019, 27, 1165-1180.	5.2	12
11	Optimal power management for a series hybrid electric vehicle cognizant of battery mechanical effects. , 2014, , .		10
12	Optimal Control of Polynomial Hybrid Systems via Convex Relaxations. IEEE Transactions on Automatic Control, 2020, 65, 2062-2077.	5.7	10
13	Control synthesis for nonlinear optimal control via convex relaxations. , 2017, , .		7
14	Synthesis of an energy-optimal self-heating strategy for Li-ion batteries. , 2016, , .		5
15	On identifying the aging mechanisms in li-ion batteries using two points measurements. , 2017, , .		5
16	Temperature Estimation in a Battery String Under Frugal Sensor Allocation. , 2014, , .		4
17	Synthesizing the optimal luenberger-type observer for nonlinear systems. , 2017, , .		3
18	Comparing optimal battery warm-up strategies based on self-heating. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
19	The estimation of radial temperature distribution in cylindrical battery cells under unknown cooling conditions. , 2013, , .		1
20	Intelligent Push-Pull Devices for Manipulation of Slung Loads. IEEE Robotics and Automation Letters, 2022, 7, 5294-5301.	5.1	0