Shankar Mohan

List of Publications by Year
in descending order

20	880	1305906 8	1637695 9
papers	citations	h-index	g-index

20	20	20	896
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Intelligent Push-Pull Devices for Manipulation of Slung Loads. IEEE Robotics and Automation Letters, 2022, 7, 5294-5301.	3.3	0
2	Optimal Control of Polynomial Hybrid Systems via Convex Relaxations. IEEE Transactions on Automatic Control, 2020, 65, 2062-2077.	3.6	10
3	An Energy-Optimal Warm-Up Strategy for Li-Ion Batteries and Its Approximations. IEEE Transactions on Control Systems Technology, 2019, 27, 1165-1180.	3.2	12
4	Modeling and Estimation for Advanced Battery Management. Annual Review of Control, Robotics, and Autonomous Systems, 2019, 2, 393-426.	7.5	59
5	On identifying the aging mechanisms in li-ion batteries using two points measurements. , 2017, , .		5
6	Control synthesis for nonlinear optimal control via convex relaxations. , 2017, , .		7
7	Synthesizing the optimal luenberger-type observer for nonlinear systems. , 2017, , .		3
8	Comparing optimal battery warm-up strategies based on self-heating. , 2017, , .		3
9	Convex computation of the reachable set for hybrid systems with parametric uncertainty. , 2016, , .		12
10	Synthesis of an energy-optimal self-heating strategy for Li-ion batteries. , 2016, , .		5
11	Energy-Conscious Warm-Up of Li-Ion Cells From Subzero Temperatures. IEEE Transactions on Industrial Electronics, 2016, 63, 2954-2964.	5.2	47
12	Estimating the Power Capability of Li-ion Batteries Using Informationally Partitioned Estimators. IEEE Transactions on Control Systems Technology, 2016, 24, 1643-1654.	3.2	29
13	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.	1.3	81
14	A lumped-parameter electro-thermal model for cylindrical batteries. Journal of Power Sources, 2014, 257, 1-11.	4.0	421
15	The Estimation of Temperature Distribution in Cylindrical Battery Cells Under Unknown Cooling Conditions. IEEE Transactions on Control Systems Technology, 2014, 22, 2277-2286.	3.2	111
16	Optimal power management for a series hybrid electric vehicle cognizant of battery mechanical effects. , 2014, , .		10
17	Temperature Estimation in a Battery String Under Frugal Sensor Allocation. , 2014, , .		4
18	Maximum Power Estimation of Lithium-Ion Batteries Accounting for Thermal and Electrical Constraints. , 2013, , .		13

#	Article	IF	Citations
19	The estimation of radial temperature distribution in cylindrical battery cells under unknown cooling conditions. , 2013, , .		1
20	A Plug and Play Operational Approach for Implementation of an Autonomous-Micro-Grid System. IEEE Transactions on Industrial Informatics, 2012, 8, 615-629.	7.2	47