

Cherif Larouci

List of Publications by Year in descending order

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35
papers

257
citations

1163117

8
h-index

996975

15
g-index

35
all docs

35
docs citations

35
times ranked

256
citing authors

#	ARTICLE	IF	CITATIONS
1	Total Cost of Ownership Improvement of Commercial Electric Vehicles Using Battery Sizing and Intelligent Charge Method. IEEE Transactions on Industry Applications, 2018, 54, 1691-1700.	4.9	39
2	Online energy management strategy of a hybrid fuel cell/battery/ultracapacitor vehicular power system. IEEJ Transactions on Electrical and Electronic Engineering, 2014, 9, 548-554.	1.4	32
3	Design of Power Converters by Optimization Under Multiphysic Constraints: Application to a Two-Time-Scale AC/DC-DC Converter. IEEE Transactions on Industrial Electronics, 2010, 57, 3746-3753.	7.9	29
4	Presizing Methodology of DC-DC Converters Using Optimization Under Multiphysic Constraints: Application to a Buck Converter. IEEE Transactions on Industrial Electronics, 2012, 59, 2781-2790.	7.9	28
5	Collaborative design process and product knowledge methodology for mechatronic systems. Computers in Industry, 2019, 105, 213-228.	9.9	26
6	Knowledge sharing for mechatronic systems design and optimization. IFAC-PapersOnLine, 2018, 51, 1365-1370.	0.9	14
7	Fault tolerant control to mechanical sensor failures for Induction Motor drive: A comparative study of voting algorithms. , 2013, , .		11
8	Design methodology of an interleaved buck converter for onboard automotive application, multi-objective optimisation under multi-physic constraints. IET Electrical Systems in Transportation, 2015, 5, 53-60.	2.4	11
9	Energy Management and Control Strategy of Hybrid Energy Storage System for Fuel Cell Power Sources. International Review on Modelling and Simulations, 2014, 7, 935.	0.3	8
10	Multiphysical Design Approach for Automotive Electronic Throttle Body. IEEE Transactions on Industrial Electronics, 2020, 67, 6752-6761.	7.9	7
11	Modeling and multi-objective optimization of an Electronic Throttle in open-loop. , 2016, , .		6
12	Sizing improvement of hybrid storage system composed with high energy and high power Li-ion batteries for automotive applications. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 870-876.	1.0	6
13	Experimental H-infinity robust control of aerial vehicle flight. , 2011, , .		4
14	A Multi-Physical Model of an Active Thermal Management Valve with Experimental Validation. , 0, , .		4
15	Placement Optimization of Power Components in Static Power Converters under Spatial and Thermal Constraints. Journal of Power Electronics, 2012, 12, 368-376.	1.5	4
16	Fault tolerant control of piezoelectric traveling wave ultrasonic motor. , 2009, , .		3
17	Pre-sizing methodology of embedded static converters using a virtual prototyping tool based on an optimisation under constraints method: comparaison of two power-sharing topologies. IET Electrical Systems in Transportation, 2013, 3, 1-9.	2.4	3
18	Adapting Security Policy at Runtime for Connected Autonomous Vehicles. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
19	Using of multi-physical models to evaluate the Influence of power management strategies on the ageing of hybrid energy storage system. , 2019, , .		3
20	Fault Tolerant Control of Interleaved Buck Converter for Automotive Application. International Review of Electrical Engineering, 2015, 10, 336.	0.2	3
21	State estimation for integrated longitudinal and lateral car following control. , 2009, , .		2
22	Control of a Flyback Converter in Mixed Conduction Mode: Influence on the Converter Design Using Optimization under Constraints. IEEJ Journal of Industry Applications, 2013, 2, 132-140.	1.1	2
23	TCO improvement of commercial electric vehicles using battery sizing and intelligent charge method. , 2016, , .		2
24	Collaboration and multidisciplinary design optimization for mechatronic systems. , 2019, , .		2
25	Modeling and fault modes investigation of a power sharing AC drive. , 2010, , .		1
26	State of the art of monoconverter multiloads applications and associated power electronic devices. , 2010, , .		1
27	Preâ€sizing methodology of DCâ€AC converters using a virtual prototyping tool applied to sequential multiâ€load systems. IET Power Electronics, 2013, 6, 244-250.	2.1	1
28	Validation approach of a mechatronic system controller in upstream phase. , 2018, , .		1
29	Multidisciplinary design optimization using knowledge management applied to an electronic throttle. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 353-362.	0.9	1
30	A robust speed control architecture for ultrasonic motor. , 2009, , .		0
31	Safety Analysis of Heterogeneous Software Models at Implementation Stage. , 2017, , .		0
32	Implementation and Experimental Validation of Robust Numerical Control for DC-DC Buck Converter. , 2019, , .		0
33	A Hybrid Electric Vehicle Transmission Chain Simulator Based on Electromechanical Actuators. Journal of Asian Electric Vehicles, 2011, 9, 1537-1542.	0.4	0
34	Impact of the control constraint on a buck converter design based on multi-objective optimization procedure. International Journal of Power Electronics and Drive Systems, 2012, 2, .	0.6	0
35	Safety analysis generation from prototyping models for transportation systems. , 2016, , .		0