

Alessandro Soldati

List of Publications by Year in descending order

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31
papers

253
citations

1684188

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1281871

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all docs

34
docs citations

34
times ranked

208
citing authors

#	ARTICLE	IF	CITATIONS
1	Model-Based Design of a Pseudo-Cogenerative Heating System for e-Boat Battery Cold Start. <i>Energies</i> , 2021, 14, 1022.	3.1	2
2	Strategies for Improving the Sustainability of Data Centers via Energy Mix, Energy Conservation, and Circular Energy. <i>Sustainability</i> , 2021, 13, 6114.	3.2	26
3	Nonlinear Model Predictive Control for Integrated Energy-Efficient Torque-Vectoring and Anti-Roll Moment Distribution. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 1212-1224.	5.8	33
4	Assessing the Economic Feasibility of PV-BESS Systems in Connection with Pandemic-induced Loads. , 2021, , .		0
5	In-Place Characterization of On-State Voltage for SiC MOSFETs: Controlled Shoot-Through vs. Film Heater. <i>Electronics (Switzerland)</i> , 2021, 10, 2745.	3.1	1
6	Bidirectional Bootstrapped Gate Driver for High-Density SiC-Based Automotive DC/DC Converters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020, 8, 475-485.	5.4	4
7	Optimal Control of Domestic Storage via MPC: the Impact of the Prediction of User Habits, including Power Market and Battery Degradation. , 2020, , .		2
8	Parallel Operation of Voltage Source Converters without Filter Inductors: Control of the Circulating Current. , 2020, , .		2
9	In-circuit Shoot-through-based Characterization of SiC MOSFET TSEP Curves for Junction Temperature Estimation. , 2020, , .		1
10	Device-Sensor Assembly FEA Modeling to Support Kalman-Filter-Based Junction Temperature Monitoring. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019, 7, 1736-1747.	5.4	5
11	Soft-Body Modeling: A Scalable and Efficient Formulation for Control-Oriented Simulation of Electric Vehicles. , 2019, , .		1
12	Electrification of a Compact Agricultural Tractor: A Successful Case Study. , 2019, , .		21
13	Design and Control of High-Density High-Voltage Smart Converter for Food Ohmic Heating. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 7712-7725.	4.9	1
14	Lightweight dynamic vehicle models oriented to vehicle electrification. <i>International Journal of Vehicle Performance</i> , 2019, 5, 40.	0.4	2
15	General Magnetic Model for the Analysis and Optimization of Multiple Barrier Rotors. , 2018, , .		0
16	Saliency-Enhanced Spoke-Type Rotor Geometry for Permanent Magnet Volume Reduction in Hybrid and Electric Vehicle Motors. , 2018, , .		0
17	Induction Machines with Rotor Faults: Analysis of the Physical Quantities for Different Operating Conditions and Machine Sizes for Improved Diagnostics. , 2018, , .		2
18	Influence of impulse voltage repetition frequency on RPDIV in partial vacuum. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 873-882.	2.9	46

#	ARTICLE	IF	CITATIONS
19	Electric-Vehicle Power Converters Model-Based Design-for-Reliability. CPSS Transactions on Power Electronics and Applications, 2018, 3, 102-110.	4.4	19
20	Multistress Characterization of Fault Mechanisms in Aerospace Electric Actuators. IEEE Transactions on Industry Applications, 2017, 53, 1106-1115.	4.9	29
21	Active thermal control by controlled shoot-through of power devices. , 2017, , .		8
22	Thermal stress mitigation by Active Thermal Control: Architectures, models and specific hardware. , 2017, , .		13
23	Active thermal control for reliability improvement of MOS-gated power devices. , 2017, , .		6
24	Wavelet-based prognostic-oriented temperature sensing with sigma-delta ADCs in power applications. , 2017, , .		1
25	A fast and lightweight dynamics model oriented to electric vehicle design. , 2017, , .		0
26	Implementing discrete PID controllers: Benchmarking manual vs. Automatic generation of embedded code. , 2016, , .		1
27	Multistress characterization of insulation aging mechanisms in aerospace electric actuators. , 2015, , .		6
28	Comparing control topologies for wide-bandgap power-device drivers: A simulation study. , 2015, , .		1
29	A voltage controlled power resistor circuit for active gate driving of wide-bandgap power devices. , 2015, , .		6
30	Design of a control unit for advanced gate drivers featuring adaptive dead-time and diagnostics. , 2015, , .		0
31	Frequency-based control of a micro-grid with multiple renewable energy sources. , 2014, , .		12