

Mattia Ricco

List of Publications by Year in descending order

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54
papers

1,246
citations

567281

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64
all docs

64
docs citations

64
times ranked

1044
citing authors

#	ARTICLE	IF	CITATIONS
1	An Overview and Comparison of Online Implementable SOC Estimation Methods for Lithium-Ion Battery. IEEE Transactions on Industry Applications, 2018, 54, 1583-1591.	4.9	237
2	Overview of Lithium-Ion Battery Modeling Methods for State-of-Charge Estimation in Electrical Vehicles. Applied Sciences (Switzerland), 2018, 8, 659.	2.5	194
3	A Simplified Model-Based State-of-Charge Estimation Approach for Lithium-Ion Battery With Dynamic Linear Model. IEEE Transactions on Industrial Electronics, 2019, 66, 7717-7727.	7.9	140
4	Optimization of Perturbative PV MPPT Methods Through Online System Identification. IEEE Transactions on Industrial Electronics, 2014, 61, 6812-6821.	7.9	64
5	An Output Ripple-Free Fast Charger for Electric Vehicles Based on Grid-Tied Modular Three-Phase Interleaved Converters. IEEE Transactions on Industry Applications, 2019, 55, 6102-6114.	4.9	60
6	Low-complexity online estimation for LiFePO ₄ battery state of charge in electric vehicles. Journal of Power Sources, 2018, 395, 280-288.	7.8	55
7	Performance Analysis of Medium-Voltage Grid Integration of PV Plant Using Modular Multilevel Converter. IEEE Transactions on Energy Conversion, 2019, 34, 1731-1740.	5.2	53
8	FPGA-Based Implementation of Dual Kalman Filter for PV MPPT Applications. IEEE Transactions on Industrial Informatics, 2017, 13, 176-185.	11.3	45
9	A Novel Multiple Correction Approach for Fast Open Circuit Voltage Prediction of Lithium-Ion Battery. IEEE Transactions on Energy Conversion, 2019, 34, 1115-1123.	5.2	37
10	Electric Vehicle Aggregate Power Flow Prediction and Smart Charging System for Distributed Renewable Energy Self-Consumption Optimization. Energies, 2020, 13, 5003.	3.1	18
11	A Comprehensive AC Current Ripple Analysis and Performance Enhancement via Discontinuous PWM in Three-Phase Four-Leg Grid-Connected Inverters. Energies, 2020, 13, 4352.	3.1	18
12	Smart Battery Pack for Electric Vehicles Based on Active Balancing with Wireless Communication Feedback. Energies, 2019, 12, 3862.	3.1	17
13	Arm Power Control of the Modular Multilevel Converter in Photovoltaic Applications. Energies, 2019, 12, 1620.	3.1	17
14	Dual-Kalman-Filter-Based Identification and Real-Time Optimization of PV Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 7266-7275.	7.9	16
15	Variable Switching Frequency PWM for Three-Phase Four-Wire Split-Capacitor Inverter Performance Enhancement. IEEE Transactions on Power Electronics, 2021, 36, 13674-13685.	7.9	15
16	An overview of online implementable SOC estimation methods for Lithium-ion batteries. , 2017, , .		14
17	FPGA-Based Implementation of MMC Control Based on Sorting Networks. Energies, 2018, 11, 2394.	3.1	14
18	Self-Tuning High-Voltage and High-Frequency Sinusoidal Power Supply for Dielectric Barrier Discharge Plasma Generation. Electronics (Switzerland), 2019, 8, 1137.	3.1	14

#	ARTICLE	IF	CITATIONS
19	On-line optimization of the P&O MPPT method by means of the system identification. , 2013, , .		13
20	FPGA-based implementation of an adaptive P&O MPPT controller for PV applications. , 2014, , .		13
21	The Role of Front-End AC/DC Converters in Hybrid AC/DC Smart Homes: Analysis and Experimental Validation. Electronics (Switzerland), 2021, 10, 2601.	3.1	12
22	A Novel Modular Multilevel Converter Based on Interleaved Half-Bridge Submodules. IEEE Transactions on Industrial Electronics, 2023, 70, 125-136.	7.9	12
23	Novel Multi-Vehicle Motion-Based Model of Trolleybus Grids towards Smarter Urban Mobility. Electronics (Switzerland), 2022, 11, 915.	3.1	12
24	A Capacitor Voltage Balancing Approach Based on Mapping Strategy for MMC Applications. Electronics (Switzerland), 2019, 8, 449.	3.1	11
25	New MMC capacitor voltage balancing using sorting-less strategy in nearest level control. , 2016, , .		10
26	Electric Vehicles Charging Management System for Optimal Exploitation of Photovoltaic Energy Sources Considering Vehicle-to-Vehicle Mode. Frontiers in Energy Research, 2021, 9, .	2.3	10
27	Smart Integrated Charger with Wireless BMS for EVs. , 2018, , .		9
28	Analysis of Input Voltage Switching Ripple in Three-Phase Four-Wire Split Capacitor PWM Inverters. Energies, 2020, 13, 5076.	3.1	9
29	Medium-Voltage Converter Solution With Modular Multilevel Structure and Decentralized Energy Storage Integration for High-Power Wind Turbines. IEEE Transactions on Power Electronics, 2021, 36, 12954-12967.	7.9	9
30	Sensorless Current Balancing Control for Interleaved Half-Bridge Submodules in Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2023, 70, 5-16.	7.9	8
31	Three-Phase Three-Level Flying Capacitor PV Generation System with an Embedded Ripple Correlation Control MPPT Algorithm. Electronics (Switzerland), 2019, 8, 118.	3.1	7
32	Efficiency Comparison of a dc-dc Interleaved Converter Based on SiC-MOSFET and Si-IGBT Devices for EV Chargers. , 2020, , .		7
33	Modular Multilevel Converters Based on Interleaved Half-Bridge Submodules. , 2021, , .		7
34	AC Current Ripple in Three-Phase Four-Leg PWM Converters with Neutral Line Inductor. Energies, 2021, 14, 1430.	3.1	7
35	FPGA-based implementation of sorting networks in MMC applications. , 2016, , .		6
36	Highly Efficient Smart Battery Pack for EV Drivetrains. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
37	Phase and Neutral Current Ripple Analysis in Three-Phase Four-Wire Split-Capacitor Grid Converter for EV Chargers. Electronics (Switzerland), 2021, 10, 1016.	3.1	6
38	Analysis of a Three-Phase Four-Leg Front-End Converter for EV Chargers with Balanced and Unbalanced Grid Currents. , 2019, , .		5
39	Impact of a Stationary Energy Storage System in a DC Trolleybus Network. , 2022, , .		5
40	System-on-chip implementation of embedded real-time simulator for modular multilevel converters. , 2017, , .		4
41	AC Current Ripple Harmonic Pollution in Three-Phase Four-Leg Active Front-End AC/DC Converter for On-Board EV Chargers. Electronics (Switzerland), 2021, 10, 116.	3.1	4
42	Dispatchable High-Power Wind Turbine Based on a Multilevel Converter With Modular Structure and Hybrid Energy Storage Integration. IEEE Access, 2021, 9, 152878-152891.	4.2	4
43	Evaluation of AC Current Ripple in case of Split-Capacitor Three-Phase Four Wires Inverters. , 2020, , .		3
44	State of Charge Optimization-based Smart Charging of Aggregate Electric Vehicles from Distributed Renewable Energy Sources. , 2021, , .		3
45	Dual-Active-Bridge Model and Control for Supporting Fast Synthetic Inertial Action. Energies, 2022, 15, 2295.	3.1	3
46	Application Layer Design for Smart Battery Pack Control with Wi-Fi® Feedback. , 2018, , .		2
47	Current Pulse Generation Methods for Li-ion Battery Chargers. , 2020, , .		2
48	Theoretical Analysis of the AC Current Ripple in Three-Phase Four-Leg Sinusoidal PWM Inverters. , 2020, , .		2
49	A Ripple-Free Output Current Interleaved DC/DC Converter Design Algorithm for EV Charging. , 2021, , .		1
50	Prediction of DC-Link Voltage Switching Ripple in Three-Phase Four-Leg PWM Inverters. Energies, 2021, 14, 1434.	3.1	1
51	Ripple Correlation Control MPPT Scheme Applied to a Three-Phase Flying Capacitor PV System. Lecture Notes in Electrical Engineering, 2020, , 13-24.	0.4	1
52	FPGA-based control for power electronics applications. , 2023, , 577-589.		0
53	High-Power Medium-Voltage Wind Turbine Driven by Converter Solution with Modular Multilevel Structure and Decentralized Battery Integration Operating in Both Grid-Following and Grid-Forming Modes. , 2021, , .		0
54	Guest editorial: Energy storage in smart grids. IET Power Electronics, 0, , .	2.1	0