

Rafael Peña-Alzola

List of Publications by Year in descending order

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24
papers

1,476
citations

1163117

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940533

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24
docs citations

24
times ranked

1334
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonunit Distance Protection Algorithm for Multiterminal MMC-HVdc Systems Using DC Capacitor Resonance Frequency. IEEE Transactions on Industrial Electronics, 2022, 69, 12924-12933.	7.9	5
2	Cryogenic DC/DC Converter for Superconducting Magnet Application. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	5
3	A Modelling Design Framework for Integrated Electrical Power and Non-Electrical Systems Design on Electrical Propulsion Aircraft. , 2022, , .		0
4	An Approximated Analytical Model for Pole-to-Ground Faults in Symmetrical Monopole MMC-HVDC Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7009-7017.	5.4	2
5	First-Fault Detection in DC Distribution With IT Grounding Based on Sliding Discrete Fourier-Transform. IEEE Transactions on Power Electronics, 2021, 36, 3649-3654.	7.9	5
6	Fault Location in DC Microgrids Based on a Multiple Capacitive Earthing Scheme. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2550-2559.	5.4	7
7	An FPGA Kalman-MPPT Implementation Adapted in SST-Based Dual Active Bridge Converters for DC Microgrids Systems. IEEE Access, 2020, 8, 202946-202957.	4.2	7
8	Short-Circuit Analytical Model for Modular Multilevel Converters Considering DC Cable Capacitance. IEEE Access, 2020, 8, 202774-202784.	4.2	1
9	Voltage-Based Current-Compensation Converter Control for Power Electronic Interfaced Distribution Networks in Future Aircraft. IEEE Transactions on Transportation Electrification, 2020, 6, 1819-1829.	7.8	6
10	Capacitive earthing charge-based method for locating faults within a DC microgrid. , 2019, , .		0
11	Grounding Topologies for Resilient, Integrated Composite Electrical Power Systems for Future Aircraft Applications. , 2019, , .		1
12	Robust Active Damping in LCL -Filter-Based Medium-Voltage Parallel Grid Inverters for Wind Turbines. IEEE Transactions on Power Electronics, 2018, 33, 10846-10857.	7.9	24
13	All-Pass-Filter-Based Active Damping for VSCs With LCL Filters Connected to Weak Grids. IEEE Transactions on Power Electronics, 2018, 33, 9890-9901.	7.9	42
14	Electrical and Thermal Effects of Fault Currents in Aircraft Electrical Power Systems With Composite Aerostructures. IEEE Transactions on Transportation Electrification, 2018, 4, 660-670.	7.8	24
15	DC-Link Control Filtering Options for Torque Ripple Reduction in Low-Power Wind Turbines. IEEE Transactions on Power Electronics, 2017, 32, 4812-4826.	7.9	43
16	Control of flywheel energy storage systems as virtual synchronous machines for microgrids. , 2015, , .		10
17	Systematic Design of the Lead-Lag Network Method for Active Damping in LCL -Filter Based Three Phase Converters. IEEE Transactions on Industrial Informatics, 2014, 10, 43-52.	11.3	210
18	A Self-commissioning Notch Filter for Active Damping in a Three-Phase LCL -Filter-Based Grid-Tie Converter. IEEE Transactions on Power Electronics, 2014, 29, 6754-6761.	7.9	166

#	ARTICLE	IF	CITATIONS
19	<i>LCL-Filter Design for Robust Active Damping in Grid-Connected Converters. IEEE Transactions on Industrial Informatics, 2014, 10, 2192-2203.	11.3	215
20	Self-commissioning notch filter for active damping in three phase LCL-filter based grid converters. , 2013, , .		3
21	DC-bias cancellation for phase shift controlled dual active bridge. , 2013, , .		3
22	Robust design of LCL-filters for active damping in grid converters. , 2013, , .		5
23	Analysis of the Passive Damping Losses in LCL-Filter-Based Grid Converters. IEEE Transactions on Power Electronics, 2013, 28, 2642-2646.	7.9	637
24	Review of modular power converters solutions for smart transformer in distribution system. , 2013, , .		55