

# Carlos Roncero-Clemente

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71  
papers

673  
citations

12  
h-index

23  
g-index

82  
ext. papers

907  
ext. citations

3.2  
avg, IF

4.39  
L-index

#	Paper	IF	Citations
71	Experimental evaluation of a new carrier-based modulation method for a three-level T-type quasi-impedance-source inverter. <i>IET Power Electronics</i> , <b>2022</b> , 15, 337-348	2.2	1
70	Three-Level T-Type Quasi-Z Source PV Grid-Tied Inverter With Active Power Filter Functionality Under Distorted Grid Voltage. <i>IEEE Access</i> , <b>2022</b> , 10, 44503-44516	3.5	0
69	Improved Operation Strategy for the High Voltage Input Stage of a Multi-Port Smart Transformer. <i>Energies</i> , <b>2022</b> , 15, 3778	3.1	0
68	Reactive Power Injection Capability of Buck-Boost Inverter with Unfolding Circuit. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	1
67	MPPT and GMPPT Implementation for Buck-Boost Mode Control of quasi-Z-Source Inverter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	1
66	Single-Phase String Solar qZS-based Inverter: Example of Multi-Objective Optimization Design. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 3120-3130	4.3	8
65	Resonant and Z-source multilevel inverters <b>2021</b> , 217-257		1
64	A Comprehensive Control Strategy for Multibus Nanogrids With Power Exchange Between Prosumers. <i>IEEE Access</i> , <b>2021</b> , 9, 104281-104293	3.5	0
63	A Multi-Criteria Computer Package-Based Energy Management System for a Grid-Connected AC Nanogrid. <i>Mathematics</i> , <b>2021</b> , 9, 487	2.3	1
62	Novel Concept of Solar Converter with Universal Applicability for DC and AC Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	4
61	A Simple Space Vector Modulation Method With DC-Link Voltage Balancing and Reduced Common-Mode Voltage Strategy for a Three-Level T-Type Quasi-Z Source Inverter. <i>IEEE Access</i> , <b>2021</b> , 9, 82747-82760	3.5	5
60	. <i>IEEE Access</i> , <b>2021</b> , 9, 22339-22350	3.5	8
59	Control and operation of a three-phase local energy router for prosumers in a smart community. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 560-570	2.9	8
58	Secondary Control for Storage Power Converters in Isolated Nanogrids to Allow Peer-to-Peer Power Sharing. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 140	2.6	7
57	Energy router for SC: GC, SA and transition mode controls. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 914-924	2.9	3
56	Optimal LCL-filter study for Buck-Boost Inverter Based on Unfolding Circuit <b>2020</b> ,		2
55	Quasi-Z Source T-Type Power Converter for PV Based Commercial and Industrial Nanogrids with Active Functions Strategy. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1233	2.6	

54	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 1201-1211	8.9	38
53	Comprehensive Comparative Analysis of Impedance-Source Networks for DC and AC Application. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 405	2.6	8
52	. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 4820-4830	7.2	16
51	Experimental Comparison of Two-Level Full-SiC and Three-Level SiBiC Quasi-Z-Source Inverters for PV Applications. <i>Energies</i> , <b>2019</b> , 12, 2509	3.1	9
50	Improvements on the Carrier-Based Control Method for a Three-Level T-Type, Quasi-Impedance-Source Inverter. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 677	2.6	5
49	Control Strategy for a Four-Wire T-Type qZSI based PV System to Support Grids with Unbalanced Non-Linear Loads <b>2019</b> ,		1
48	Bidirectional Twisted Single-Stage Single-Phase Buck-Boost DC-AC Converter. <i>Energies</i> , <b>2019</b> , 12, 3505	3.1	4
47	Model Predictive Control for Buck-Boost Inverter Based on Unfolding Circuit <b>2019</b> ,		2
46	Control Strategy for Electric Vehicle Charging Station Power Converters with Active Functions. <i>Energies</i> , <b>2019</b> , 12, 3971	3.1	5
45	Novel Family of Single-Stage BuckBoost Inverters Based on Unfolding Circuit. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 7662-7676	7.2	21
44	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 8297-8306	8.9	34
43	A multi-criteria computer package for power transformer fault detection and diagnosis. <i>Applied Mathematics and Computation</i> , <b>2018</b> , 319, 153-164	2.7	12
42	Single-phase qZS-based PV inverter with integrated battery storage for distributed energy generation <b>2018</b> ,		2
41	New interleaved single-phase quasi-Z-source inverter with active power decoupling <b>2018</b> ,		6
40	<b>2018</b> ,		2
39	<b>2018</b> ,		1
38	Voltage Control Tuning of a Single-Phase Grid-Connected 3L qZS-Based Inverter for PV Application <b>2018</b> ,		4
37	Efficiency and loss distribution analysis of the 3L-Active NPC qZS inverter <b>2018</b> ,		3

36	Passive power decoupling approach for three-level single-phase impedance Source Inverter based on resonant and PID controllers <b>2017</b> ,		10
35	Comprehensive study of the benefits of integrating a sharing energy strategy between prosumers <b>2017</b> ,		1
34	Three-level single-phase quasi-Z source inverter with active power decoupling circuit <b>2017</b> ,		4
33	Controlling a battery energy storage system to support residential photovoltaic installations <b>2017</b> ,		1
32	Energy management strategy to coordinate batteries and ultracapacitors of a hybrid energy storage system in a residential prosumer installation <b>2017</b> ,		4
31	Maximum boost control for interleaved single-phase Quasi-Z-Source inverter <b>2017</b> ,		7
30	Interleaved single-phase quasi-Z-source inverter with special modulation technique <b>2017</b> ,		9
29	Component design guidelines for new single-stage buck-boost inverter with unfolding circuit <b>2017</b> ,		4
28	Modified DQ control approach for three-phase inverter <b>2017</b> ,		1
27	Three-level three-phase quasi-Z-source neutral-point-clamped inverter with novel modulation technique for photovoltaic application. <i>Electric Power Systems Research</i> , <b>2016</b> , 130, 10-21	3-5	52
26	Single-phase 3L PR controlled qZS inverter connected to the distorted grid <b>2016</b> ,		6
25	Hysteresis current control with distributed shoot-through states for impedance source inverters. <i>International Journal of Circuit Theory and Applications</i> , <b>2016</b> , 44, 783-797	2	9
24	Control scheme of a Three-Phase Three-Level NPC qZ-Source inverter with LCL filter for RES applications <b>2016</b> ,		2
23	Review of Novel Topologies for PV Applications. <i>IFIP Advances in Information and Communication Technology</i> , <b>2016</b> , 369-377	0.5	
22	. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 7564-7579	7.2	70
21	Simulation study of the grid-connected single-phase impedance-sourced NPC inverter with different control methods <b>2015</b> ,		6
20	Three-phase three-level neutral-point-clamped qZ source inverter with active filtering capabilities <b>2015</b> ,		3
19	Carrier based modulation with capacitor balancing for three-level neutral-point-clamped qZS inverter <b>2015</b> ,		2

18	El Control de Potencia y Frecuencia en los Sistemas Eléctricos Multi-fasea. Revisión y Nuevos Retos. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , <b>2015</b> , 12, 357-364	1.5	5
17	Design of three-phase three-level CIC T-source inverter with maximum boost control <b>2015</b> ,		3
16	Single phase three-level neutral-point-clamped quasi-Z-source inverter. <i>IET Power Electronics</i> , <b>2015</b> , 8, 1-10	2.2	124
15	Voltage Distortion Approach for Output Filter Design for Off-Grid and Grid-Connected PWM Inverters. <i>Journal of Power Electronics</i> , <b>2015</b> , 15, 278-287	0.9	22
14	New hysteresis current control for grid connected single-phase three-level quasi-Z-source inverter <b>2014</b> ,		3
13	P and Q control strategy for single phase Z/qZ source inverter based on d-q frame <b>2014</b> ,		1
12	PWM for Single Phase 3L Z/qZ-Source Inverter with Balanced Power Losses. <i>Elektronika Ir Elektrotehnika</i> , <b>2014</b> , 20,	1.7	7
11	Comparison of three MPPT algorithms for three-level neutral-point-clamped qz-source inverter <b>2013</b> ,		7
10	Output filter design for grid connected single phase three-level quasi-Z-source inverter <b>2013</b> ,		1
9	Three-Level Neutral-Point-Clamped Quasi-Z-Source Inverter with Maximum Power Point Tracking for Photovoltaic Systems. <i>IFIP Advances in Information and Communication Technology</i> , <b>2013</b> , 334-342	0.5	6
8	Experimental Investigation of high frequency 3L-NPC qZS inverter for photovoltaic application <b>2013</b> ,		15
7	PSCAD/EMTDC model for photovoltaic modules with MPPT based on manufacturer specifications <b>2013</b> ,		5
6	PV Array Emulator for Testing Commercial PV Inverters. <i>Elektronika Ir Elektrotehnika</i> , <b>2013</b> , 19,	1.7	12
5	Development of a Photovoltaic Array Emulator in a Real Time Control Environment Using xPC Target. <i>IFIP Advances in Information and Communication Technology</i> , <b>2013</b> , 325-333	0.5	2
4	CCM operation analysis of the single-phase three-level quasi-Z-source inverter <b>2012</b> ,		13
3	Single phase three-level quasi-z-source inverter with a new boost modulation technique <b>2012</b> ,		20
2	Comparison of two power flow control strategies for photovoltaic inverters <b>2012</b> ,		7
1	Simulation Study of Different Modulation Techniques for Three-Level Quasi-Z-Source Inverter. <i>Electrical, Control and Communication Engineering</i> , <b>2012</b> , 1, 11-17	0.7	2

