

Fernando Lessa Tofoli

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91
papers

1,213
citations

15
h-index

32
g-index

126
ext. papers

1,679
ext. citations

3.8
avg, IF

4.93
L-index

#	Paper	IF	Citations
91	Survey on non-isolated high-voltage step-up dc/dc topologies based on the boost converter. <i>IET Power Electronics</i> , 2015 , 8, 2044-2057	2.2	300
90	Novel Nonisolated High-Voltage Gain DC/DC Converters Based on 3SSC and VMC. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 3897-3907	7.2	91
89	High-voltage gain dc/dc boost converter with coupled inductors for photovoltaic systems. <i>IET Power Electronics</i> , 2015 , 8, 1885-1892	2.2	72
88	DC/DC Nonisolated Boost Converter Based on the Three-State Switching Cell and Voltage Multiplier Cells. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 4438-4449	8.9	66
87	A review of single-phase PFC topologies based on the boost converter 2010 ,		53
86	. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 6739-6746	8.9	51
85	Power Factor Correction Boost Converter Based on the Three-State Switching Cell. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 1565-1577	8.9	48
84	Soft switching high-voltage gain dc/dc interleaved boost converter. <i>IET Power Electronics</i> , 2015 , 8, 120-129	2.2	34
83	A Passive Lossless Snubber Applied to the AC/DC Interleaved Boost Converter. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 775-785	7.2	32
82	Two-Stage Isolated Switch-Mode Power Supply With High Efficiency and High Input Power Factor. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 3754-3766	8.9	27
81	Comparative Study of Maximum Power Point Tracking Techniques for Photovoltaic Systems. <i>International Journal of Photoenergy</i> , 2015 , 2015, 1-10	2.1	25
80	A Phase-Locked Loop Algorithm for Single-Phase Systems With Inherent Disturbance Rejection. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 9260-9267	8.9	18
79	. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 398-407	7.2	16
78	Experimental evaluation of global maximum power point techniques under partial shading conditions. <i>Solar Energy</i> , 2020 , 196, 49-73	6.8	16
77	Modeling and Experimental Validation of a Single-Phase Series Active Power Filter for Harmonic Voltage Reduction. <i>IEEE Access</i> , 2019 , 7, 151971-151984	3.5	15
76	Assessment of the ideality factor on the performance of photovoltaic modules. <i>Energy Conversion and Management</i> , 2018 , 167, 63-69	10.6	15
75	Proposal of a Soft-Switching Single-Phase Three-Level Rectifier. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 107-113	8.9	15

74	Conception of an electric propulsion system for a 9 kW electric tractor suitable for family farming. <i>IET Electric Power Applications</i> , 2019 , 13, 1993-2004	1.8	14
73	Comprehensive review of high power factor ac-dc boost converters for PFC applications. <i>International Journal of Electronics</i> , 2015 , 102, 1361-1381	1.2	12
72	On the study of losses in cables and transformers in nonsinusoidal conditions. <i>IEEE Transactions on Power Delivery</i> , 2006 , 21, 971-978	4.3	12
71	Modeling, Digital Control, and Implementation of a Three-Phase Four-Wire Power Converter Used as a Power Redistribution Device. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 1035-1042	11.9	12
70	Analysis, Design, and Experimentation of a Double Forward Converter With Soft Switching Characteristics for All Switches. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 2137-2148	7.2	11
69	A high-power-factor half-bridge doubler boost converter without commutation losses. <i>IEEE Transactions on Industrial Electronics</i> , 2005 , 52, 1278-1285	8.9	11
68	Interleaved bidirectional DCDC converter for electric vehicle applications based on multiple energy storage devices. <i>Electrical Engineering</i> , 2020 , 102, 2011-2023	1.5	10
67	Three-Phase Grid-Connected WECS With Mechanical Power Control. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1508-1517	8.2	10
66	Experimental evaluation of active power factor correction techniques in a single-phase AC-DC boost converter. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 1529-1553	2	10
65	Analysis, design, and implementation of soft-switching cells applied to the single-phase full-bridge inverter. <i>IET Power Electronics</i> , 2016 , 9, 1249-1258	2.2	10
64	A unified modeling approach for DC-DC converters based on the three-state switching cell. <i>AEU - International Journal of Electronics and Communications</i> , 2018 , 88, 30-37	2.8	9
63	Analysis and Evaluation of Residential Air Conditioners for Power System Studies. <i>IEEE Transactions on Power Systems</i> , 2007 , 22, 706-716	7	9
62	Nonisolated DCDC Converters With Wide Conversion Range for High-Power Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 749-760	5.6	9
61	Single-switch, integrated DCDC converter for high-voltage step-down applications. <i>IET Power Electronics</i> , 2019 , 12, 1880-1890	2.2	8
60	Comparison of nonisolated dc-dc converters from the efficiency point of view 2011 ,		8
59	Non-isolated DC-DC converters with wide conversion range used to drive high-brightness LEDs 2009 ,		8
58	. <i>IEEE Access</i> , 2020 , 8, 37565-37577	3.5	7
57	ZVS bidirectional isolated three-phase DC-DC converter with dual phase-shift and variable duty cycle 2012 ,		7

56	Switched Capacitor DC-DC Converters: A Survey on the Main Topologies, Design Characteristics, and Applications. <i>Energies</i> , 2021 , 14, 2231	3.1	7
55	A three-phase phase-locked loop algorithm with immunity to distorted signals employing an adaptive filter. <i>Electric Power Systems Research</i> , 2019 , 170, 116-127	3.5	6
54	Three-state switching cell (3SSC)-based non-isolated dc/dc boost-type converter with balanced output voltage and wide voltage conversion range. <i>IET Power Electronics</i> , 2018 , 11, 1217-1223	2.2	6
53	Modelling of nonisolated high-voltage gain boost converters using the PWM switch model. <i>International Journal of Electronics</i> , 2014 , 101, 1134-1156	1.2	6
52	Portable and low cost photovoltaic curve tracer 2017 ,		5
51	An efficient switch-mode power supply using an AC-DC interleaved boost converter and a DC-DC full-bridge topology. <i>International Journal of Electronics</i> , 2011 , 98, 425-448	1.2	5
50	Two-stage single-phase grid-connected photovoltaic system with reduced complexity. <i>International Journal of Electronics</i> , 2011 , 98, 753-767	1.2	5
49	Survey on topologies based on the three-state and multi-state switching cells. <i>IET Power Electronics</i> , 2019 , 12, 967-982	2.2	4
48	Low cost wind energy conversion system based on the discontinuous conduction mode three-phase semi-controlled rectifier. <i>IET Power Electronics</i> , 2015 , 8, 851-859	2.2	4
47	An integrated design approach of LCL filters based on nonlinear inductors for grid-connected inverter applications. <i>Electric Power Systems Research</i> , 2020 , 186, 106389	3.5	4
46	Practical design of a DC-DC buck converter using an RCD snubber 2017 ,		4
45	2013 ,		4
44	Piezoelectric actuators applied to neutralize mechanical vibrations. <i>JVC/Journal of Vibration and Control</i> , 2012 , 18, 1650-1660	2	4
43	Plotting Characteristic Curves of Photovoltaic Modules: A Simple and Portable Approach. <i>IEEE Industry Applications Magazine</i> , 2021 , 27, 63-72	0.6	4
42	Analysis of a static model for DC microgrids based on droop and MPPT control. <i>International Transactions on Electrical Energy Systems</i> , 2019 , 29, e2778	2.2	4
41	Comparison among mathematical models of the photovoltaic cell for computer simulation purposes. <i>International Journal of Electronics</i> , 2017 , 104, 1077-1094	1.2	3
40	Analysis and small-signal modeling of a nonisolated high voltage step-up dc-dc boost converter 2015 ,		3
39	Comparative analysis between overlapping and non-overlapping operation modes for the PWM buck converter using the three-state switching cell. <i>International Journal of Electronics</i> , 2014 , 101, 553-568	1.2	3

38	An extensive review of nonisolated DC-DC boost-based converters 2014,		3
37	A low cost single-phase grid-connected photovoltaic system with reduced complexity 2009,		3
36	A switched-mode power supply employing a quadratic boost converter and a soft-switched two-switch forward converter		3
35	Proposal of a SMPS with AC output voltage employing a quadratic boost converter, a new topology of soft-switched two-switch forward converter and a new topology of PWM three-level half-bridge inverter		3
34	Reduced-order modeling approach for wind energy conversion systems based on the doubly-fed induction generator. <i>Electric Power Systems Research</i> , 2021 , 192, 106963	3-5	3
33	Comparative analysis of techniques for the limitation of compensation currents in multifunctional grid-tied inverters. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 126, 106574	5-1	3
32	2018,		3
31	Modified Artificial Potential Field for the Path Planning of Aircraft Swarms in Three-Dimensional Environments.. <i>Sensors</i> , 2022 , 22,	3-8	3
30	Analysis of high voltage step-up nonisolated DCDC boost converters. <i>International Journal of Electronics</i> , 2015 , 1-15	1-2	2
29	Novel bidirectional DCDC converters based on the three-state switching cell. <i>International Journal of Electronics</i> , 2015 , 1-20	1-2	2
28	A soft switching ZCSZVS double two-switch forward converter. <i>Electrical Engineering</i> , 2018 , 100, 1229-1244		2
27	Detailed design procedure of a DC-DC buck-boost converter employing a passive snubber 2017,		2
26	A DC-DC buck-boost converter based on the three-state switching cell 2017,		2
25	Household induction cooking system based on a grid-connected photovoltaic system. <i>IET Circuits, Devices and Systems</i> , 2020 , 14, 1117-1128	1-1	2
24	Case Study: Hydroelectric Generation Employing the Water Distribution Network in Pato Branco, Brazil 2011,		2
23	Three-phase phase-locked loop algorithm and application to a static synchronous compensator. <i>Electric Power Systems Research</i> , 2021 , 192, 106924	3-5	2
22	Comparative analysis of basic single-stage non-isolated AC-DC topologies employed as high-current COB LED drivers 2017,		1
21	Analysis of a high power COB led light source driven by offline double-stage PFC converter 2017,		1

20	Application of the commutated power concept to the classical isolated dc-dc converters 2015 ,		1
19	A switched-mode power supply using a boost-flyback converter and an interleaved soft-switching forward topology. <i>Power Electronics Specialist Conference (PESC), IEEE, 2008</i> ,		1
18	Analysis of the PV-to-PV architecture with a bidirectional Buck-Boost converter under shading conditions. <i>Solar Energy, 2022</i> , 232, 102-119	6.8	1
17	Maximum power point tracking technique based on sweeping the characteristic curve of the photovoltaic module. <i>Sustainable Computing: Informatics and Systems, 2022</i> , 33, 100638	3	1
16	Non-isolated high step-up/step-down quadratic converter for light-emitting diode driving. <i>International Journal of Circuit Theory and Applications, 2021</i> , 49, 2699-2718	2	1
15	Nonisolated Quadratic SEPIC Converter Without Electrolytic Capacitors for LED Driver Applications 2019 ,		1
14	In-depth analysis of an RCD snubber applied to a DC-DC boost converter. <i>International Journal of Circuit Theory and Applications, 2021</i> , 49, 283-305	2	1
13	Four-Port, Single-Stage, Multi-Directional AC-AC Converter for Solid-State Transformer Applications. <i>IEEE Transactions on Industrial Electronics, 2021</i> , 1-1	8.9	1
12	Design Tradeoffs of A DC-DC Buck-Boost Converter Employing An RCD Snubber 2018 ,		1
11	Fast and accurate voltage sag detection algorithm. <i>International Journal of Electrical Power and Energy Systems, 2022</i> , 135, 107516	5.1	1
10	Efficient two-stage offline driver for extra-high-current COB LED applications. <i>Electrical Engineering , 2020</i> , 102, 2135-2148	1.5	0
9	Improved and accurate low-frequency average modelling and control of a conventional power factor correction boost converter in continuous conduction mode. <i>IET Power Electronics, 2021</i> , 14, 373-385	2.2	0
8	Development of A Small-Signal Model for The DC-DC Buck Converter Based on The Three-State Switching Cell. <i>IEEE Latin America Transactions, 2019</i> , 17, 573-581	0.7	0
7	Single-Phase Isolated AC-AC Converters Based on The Dual Active Bridge Converter. <i>IEEE Transactions on Industrial Electronics, 2021</i> , 1-1	8.9	0
6	Nonlinear current control strategy for grid-connected voltage source converters. <i>International Journal of Electrical Power and Energy Systems, 2022</i> , 142, 108349	5.1	0
5	Non-isolated high step-up/step-down DCDC quadratic ĩk converter. <i>International Transactions on Electrical Energy Systems,e13173</i>	2.2	
4	Non-isolated single-phase inverter based on an autotransformer for low-power applications. <i>International Journal of Circuit Theory and Applications, 2021</i> , 49, 2593	2	
3	A step-up/step-down direct current to direct current converter for high-power, high-current applications. <i>International Journal of Circuit Theory and Applications, 2019</i> , 47, 445-463	2	

- 2 Three-phase phase-locked loop algorithms for the detection of positive-sequence and negative-sequence components. *International Journal of Electrical Power and Energy Systems*, **2021**, 126, 106570 5.1
- 1 Thermal Analysis of Power Converters for DFIG-Based Wind Energy Conversion Systems during Voltage Sags. *Energies*, **2022**, 15, 3152 3.1