

# PhD Leobardo Hernandez

## List of Publications by Year in descending order

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29  
papers

387  
citations

1684188

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h-index

888059

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29  
docs citations

29  
times ranked

432  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Failure-Detection Strategy for IGBT Based on Gate-Voltage Behavior Applied to a Motor Drive System. IEEE Transactions on Industrial Electronics, 2011, 58, 1625-1633.	7.9	208
2	Fault Detection for IGBT Using Adaptive Thresholds During the Turn-on Transient. IEEE Transactions on Industrial Electronics, 2015, 62, 1975-1983.	7.9	87
3	Reconfigurable Special Test Circuit of physics-based IGBT models parameter extraction. Solid-State Electronics, 2010, 54, 1246-1256.	1.4	13
4	Analysis and Design Method for High-Frequency Self-Oscillating Electronic Ballasts. IEEE Transactions on Industry Applications, 2011, 47, 2430-2436.	4.9	9
5	Design and analysis of a grid-connected inverter without isolation for an AC module. , 2012, , .		9
6	Fault detection for SiC-Mosfet based on the behavior of gate signal. , 2015, , .		9
7	Fault Detection Circuit Based on IGBT Gate Signal. IEEE Latin America Transactions, 2016, 14, 541-548.	1.6	6
8	Interleaved Buck Converter for Inductive Wireless Power Transfer in DC-DC Converters. Electronics (Switzerland), 2020, 9, 949.	3.1	5
9	Imperceptible-Visible Watermarking to Information Security Tasks in Color Imaging. Mathematics, 2021, 9, 2374.	2.2	5
10	Physical Modeling of SiC Power Diodes with Empirical Approximation. Journal of Power Electronics, 2011, 11, 381-388.	1.5	5
11	4H-SiC PiN diode electrothermal model for conduction and reverse breakdown for simulator. , 2008, , .		4
12	IGBT fault diagnosis using adaptive thresholds during the turn-on transient. , 2013, , .		4
13	Energy Performance Analysis In An Electrical Subway Traction System. IEEE Latin America Transactions, 2016, 14, 729-736.	1.6	4
14	Study of a Novel Electronics Circuit for Detecting Faults in the IGBT. IEEE Latin America Transactions, 2014, 12, 402-409.	1.6	3
15	Modeling, Design Procedure and Control of a Low-Cost High-Gain Multi-Input Step-Up Converter. Electronics (Switzerland), 2019, 8, 1424.	3.1	3
16	State Vector Identification of Hybrid Model of a Gas Turbine by Real-Time Kalman Filter. Mathematics, 2020, 8, 659.	2.2	3
17	Study of a fault tolerant induction motor drive based on material redundancy. , 2015, , .		2
18	Design and Implementation Procedure of a High-Gain Three-Input Step-Up 1 kW Converter. Electronics (Switzerland), 2021, 10, 625.	3.1	2

#	ARTICLE	IF	CITATIONS
19	Analysis and Design of a Multi-Resonant Circuit for Applications of Wireless Capacitive Power Transmission. <i>Energies</i> , 2022, 15, 2252.	3.1	2
20	Simulación Estática y Dinámica de un Modelo Físico del Diodo PiN en Carburo de Silicio. <i>Informacion Tecnologica (discontinued)</i> , 2010, 21, .	0.3	1
21	Impacto de la Geometría en el Efecto Fin de Generadores Lineales. <i>Informacion Tecnologica (discontinued)</i> , 2016, 27, 133-138.	0.3	1
22	Early fault detection in SiC-MOSFET with application in boost converter. <i>Revista Facultad De Ingeniería</i> , 2018, , 7-14.	0.5	1
23	A New Approach for Approximate Solution of ADE: Physical-Based Modeling of Carriers in Doping Region. <i>Mathematics</i> , 2021, 9, 458.	2.2	1
24	Study of a Family of Buck-Boost Converter with Tapped Inductor for Grid-Connected Photovoltaic Systems. , 2010, , .		0
25	Proposal of Buck-Symmetric for Energization of Wireless Power System. , 2016, , .		0
26	Proposal of Buck-Symmetric for Energization of Wireless Power System. , 2016, , .		0
27	Efficiency optimization for radial permanent magnets electric generators. , 2016, , .		0
28	Numerical Simulation for the Optimized Design of the Heat Exchange Chamber. <i>IEEE Latin America Transactions</i> , 2018, 16, 2782-2789.	1.6	0
29	Buck-inverter converter for application in inductive wireless transmission. , 2018, , .		0