Antonio Lazaro

List of Publications by Year
in descending order

95 papers	2,337 citations	172457 29 h-index	223800 46 g-index
95 all docs	95 docs citations	95 times ranked	2295 citing authors

#	Article	IF	Citations
1	Extension of the Injected-Absorbed-Current Method Applied to DC–DC Converters With Input Filter, Output Postfilter, and Feedforward Compensations. IEEE Transactions on Transportation Electrification, 2022, 8, 856-874.	7.8	1
2	Analysis, Design, and Implementation of the AFZ Converter Applied to Photovoltaic Systems. IEEE Transactions on Power Electronics, 2021, 36, 1883-1900.	7.9	8
3	Magnetically Coupled Buck–Boost Bidirectional DC–DC Converter. IEEE Transactions on Industrial Electronics, 2021, 68, 9493-9504.	7.9	7
4	Li-Ion Battery and Supercapacitor Modeling for Electric Vehicles Based on Pulse – Pseudo Random Binary Sequence. IEEE Transactions on Vehicular Technology, 2021, 70, 11378-11389.	6.3	2
5	Control strategies analysis used in power distribution systems of electric vehicles with multiple energy sources. , 2021, , .		1
6	Small-Signal Modeling of Phase-Shifted Full-Bridge Converter Considering the Delay Associated to the Leakage Inductance. Energies, 2021, 14, 7280.	3.1	3
7	General Parameter Identification Procedure and Comparative Study of Li-Ion Battery Models. IEEE Transactions on Vehicular Technology, 2020, 69, 235-245.	6.3	58
8	Power Distribution Algorithm and Steady-State Operation Analysis of a Modular Multiactive Bridge Converter. IEEE Transactions on Transportation Electrification, 2020, 6, 1035-1050.	7.8	13
9	Analysis and Extension of the Canonical Model applied to DC-DC converters with Input Filter and Output Post-filter. , 2020, , .		3
10	Parametric analysis of a Fuel Cell Hybrid Vehicle Energy Management System. , 2020, , .		0
11	Energy Management System Optimization for a Fuel Cell Hybrid Vehicle based on Power Losses Minimization. , 2020, , .		2
12	Non-inverting and Non-isolated Magnetically Coupled Buck–Boost Bidirectional DC–DC Converter. IEEE Transactions on Power Electronics, 2020, 35, 11942-11954.	7.9	18
13	Step-by-step Small-Signal Modeling and Control of a Light Hybrid Electric Vehicle Propulsion System. Energies, 2019, 12, 4082.	3.1	6
14	Battery-Less Smart Diaper Based on NFC Technology. IEEE Sensors Journal, 2019, 19, 10848-10858.	4.7	19
15	Temperature-Dependent Thermal Capacitance Characterization for SOI-MOSFETs. IEEE Transactions on Electron Devices, 2019, 66, 4120-4125.	3.0	6
16	A General Parameter Identification Procedure Used for the Comparative Study of Supercapacitors Models. Energies, 2019, 12, 1776.	3.1	43
17	Color Measurement and Analysis of Fruit with a Battery-Less NFC Sensor. Sensors, 2019, 19, 1741.	3.8	45
18	Battery-Less NFC Sensor for pH Monitoring. IEEE Access, 2019, 7, 33226-33239.	4.2	36

#	Article	IF	Citations
19	Wireless Wearable Magnetometer-Based Sensor for Sleep Quality Monitoring. IEEE Sensors Journal, 2018, 18, 2145-2152.	4.7	73
20	A Depolarizing Chipless RF Label for Dielectric Permittivity Sensing. IEEE Microwave and Wireless Components Letters, 2018, 28, 371-373.	3.2	47
21	Influence of the Main Design Factors on the Optimal Fuel Cell-Based Powertrain Sizing. Energies, 2018, 11, 3060.	3.1	5
22	Computer-Aided Design of Digital Compensators for DC/DC Power Converters. Energies, 2018, 11, 3251.	3.1	7
23	Analysis and Sizing of Power Distribution Architectures Applied to Fuel Cell Based Vehicles. Energies, 2018, 11, 2597.	3.1	14
24	A Survey of NFC Sensors Based on Energy Harvesting for IoT Applications. Sensors, 2018, 18, 3746.	3.8	83
25	General Analysis of Switching Modes in a Dual Active Bridge with Triple Phase Shift Modulation. Energies, 2018, 11, 2419.	3.1	35
26	Passive Harmonic RFID System for Buried Assets Localization. Sensors, 2018, 18, 3635.	3.8	19
27	Modeling, Control and Analysis of Input-Series-Output-Parallel-Output-Series architecture with Common-Duty-Ratio and Input Filter. , 2018, , .		4
28	Battery-Less Soil Moisture Measurement System Based on a NFC Device With Energy Harvesting Capability. IEEE Sensors Journal, 2018, 18, 5541-5549.	4.7	48
29	Chipless Dielectric Constant Sensor for Structural Health Testing. IEEE Sensors Journal, 2018, 18, 5576-5585.	4.7	55
30	Thermal Resistance Characterization for Multifinger SOI-MOSFETs. IEEE Transactions on Electron Devices, 2018, 65, 3626-3632.	3.0	7
31	Wireless Breathing Sensor Based on Wearable Modulated Frequency Selective Surface. IEEE Sensors Journal, 2017, 17, 1285-1292.	4.7	51
32	Modulated Frequency Selective Surfaces for Wearable RFID and Sensor Applications. IEEE Transactions on Antennas and Propagation, 2016, 64, 4447-4456.	5.1	29
33	Simple method of direct digital design of compensator for DC-DC converters. , 2016, , .		2
34	Modular Dual-Active Bridge Converter Architecture. IEEE Transactions on Industry Applications, 2016, 52, 2444-2455.	4.9	105
35	Behavioural modelling of a switched reluctance motor drive for aircraft power systems. IET Electrical Systems in Transportation, 2014, 4, 107-113.	2.4	7
36	Techniques for Clutter Suppression in the Presence of Body Movements during the Detection of Respiratory Activity through UWB Radars. Sensors, 2014, 14, 2595-2618.	3.8	120

#	Article	IF	Citations
37	Analytical Energy Model for the Dynamic Behavior of RF MEMS Switches Under Increased Actuation Voltage. Journal of Microelectromechanical Systems, 2014, 23, 1428-1439.	2.5	5
38	Black-Box Behavioral Modeling and Identification of DC–DC Converters With Input Current Control for Fuel Cell Power Conditioning. IEEE Transactions on Industrial Electronics, 2014, 61, 1891-1903.	7.9	33
39	Time-domain UWB RFID tags for smart floor applications. , 2014, , .		7
40	Field‐programmable gate array‐based linear–non‐linear control with high‐resolution digital pulse width modulator and high‐speed embedded analogue‐to‐digital converter for multi‐phase voltage regulator modules. IET Power Electronics, 2014, 7, 2001-2012.	2.1	3
41	Overall analysis of a modular multi active bridge converter. , 2014, , .		19
42	Auto-design simulation set up of PV VSC with grid supporting functions. , 2014, , .		2
43	Temperature sensor based on frequency-coded chipless RFID tags. Microwave and Optical Technology Letters, 2014, 56, 2411-2415.	1.4	5
44	Black-Box Model, Identification Technique and Frequency Analysis for PEM Fuel Cell With Overshooted Transient Response. IEEE Transactions on Power Electronics, 2014, 29, 5334-5346.	7.9	29
45	Behavioral Modeling of a Switched Reluctance Generator for Aircraft Power Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 2690-2699.	7.9	106
46	Investigation of radio channel uncertainty in distance estimation in wireless sensor networks. Telecommunication Systems, 2013, 52, 1549-1558.	2.5	19
47	Active UWB Reflector for RFID and Wireless Sensor Networks. IEEE Transactions on Antennas and Propagation, 2013, 61, 4767-4774.	5.1	13
48	SSPC Active Control Strategy by Optimal Trajectory of the Current for Onboard System Applications. IEEE Transactions on Industrial Electronics, 2013, 60, 5195-5205.	7.9	35
49	Semi-Passive Time-Domain UWB RFID System. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1700-1708.	4.6	33
50	A Novel UWB RFID Tag Using Active Frequency Selective Surface. IEEE Transactions on Antennas and Propagation, 2013, 61, 1155-1165.	5.1	33
51	UWB time-coded RFID sensors: A comparison between passive and semi-passive approaches. , 2013, , .		1
52	Remote Sensing of Vital Signs Using a Doppler Radar and Diversity to Overcome Null Detection. IEEE Sensors Journal, 2012, 12, 512-518.	4.7	64
53	IR-UWB radar system and tag design for time-coded chipless RFID. , 2012, , .		26
54	Time-coded chipless RFID tags: Design, characterization and application. , 2012, , .		14

#	Article	IF	Citations
55	Passive wireless permittivity sensor based on frequency-coded chipless RFID tags. , 2012, , .		14
56	Frequency-Coded Chipless RFID Tag Based on Dual-Band Resonators. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 126-128.	4.0	82
57	Passive Wireless Temperature Sensor Based on Time-Coded UWB Chipless RFID Tags. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3623-3632.	4.6	134
58	Nanoscale FETs. Advances in Imaging and Electron Physics, 2012, , 261-347.	0.2	1
59	Black-Box Modeling of Three-Phase Voltage Source Inverters for System-Level Analysis. IEEE Transactions on Industrial Electronics, 2012, 59, 3648-3662.	7.9	57
60	Simple Model and Experimental Identification of a Fuel-Cell-Based Power Supply Oriented to System-Level Analysis. IEEE Transactions on Power Electronics, 2011, 26, 1868-1878.	7.9	8
61	Impedance Identification Procedure of Three-Phase Balanced Voltage Source Inverters Based on Transient Response Measurements. IEEE Transactions on Power Electronics, 2011, 26, 3810-3816.	7.9	70
62	HBLED driving strategy with reduced storage capacitor based on load modularization. , 2011, , .		9
63	Description and Assessment of Activities Oriented to Enhance a First Course on Power Electronics. IEEE Transactions on Education, 2011, 54, 531-539.	2.4	2
64	Modulation Technique for Low Frequency Harmonic Cancellation in Auxiliary Railway Power Supplies. IEEE Transactions on Industrial Electronics, 2011, 58, 3976-3987.	7.9	14
65	TIME-DOMAIN MEASUREMENT OF TIME-CODED UWB CHIPLESS RFID TAGS. Progress in Electromagnetics Research, 2011, 116, 313-331.	4.4	50
66	Advanced Control Strategy for Solid State Power Controllers (SSPC). , 2011, , .		0
67	System-Level Behavioral Black-Box Modeling of DC-DC Converters for the More-Electric-Aircraft Based on Time Domain Measurements. , 2011, , .		2
68	Step-By-Step Design of an FPGA-Based Digital Compensator for DC/DC Converters Oriented to an Introductory Course. IEEE Transactions on Education, 2011, 54, 599-609.	2.4	19
69	Simplified Synchronous Reference Frame Control of the three phase grid connected inverter. , 2010, , .		3
70	MEMS-Based 180^{circ} Phase Switch for Differential Radiometers. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1264-1272.	4.6	9
71	Tunable dual-band resonators for communication systems. International Journal of Microwave and Wireless Technologies, 2010, 2, 245-253.	1.9	6
72	Tunable dualâ€band bandpass filter for WLAN applications. Microwave and Optical Technology Letters, 2009, 51, 2025-2028.	1.4	31

#	Article	IF	Citations
73	Radio Link Budgets for UHF RFID on Multipath Environments. IEEE Transactions on Antennas and Propagation, 2009, 57, 1241-1251.	5.1	121
74	Simple Modeling and Identification Procedures for â€œBlack-Boxâ€•Behavioral Modeling of Power Converters Based on Transient Response Analysis. IEEE Transactions on Power Electronics, 2009, 24, 2776-2790.	7.9	55
75	Charge-Based Compact Modeling of Multiple-Gate MOSFET. , 2007, , .		2
76	A Low-Power-Consumption Out-of-Plane Electrothermal Actuator. Journal of Microelectromechanical Systems, 2007, 16, 719-727.	2.5	10
77	Extension of harmonic elimination technique in presence of nonlinear loads. Electronics Letters, 2007, 43, 1459.	1.0	0
78	New Power Factor Correction AC-DC Converter With Reduced Storage Capacitor Voltage. IEEE Transactions on Industrial Electronics, 2007, 54, 384-397.	7.9	100
79	Electrothermally Actuated RF MEMS Switches Suspended on a Low-Resistivity Substrate. Journal of Microelectromechanical Systems, 2007, 16, 1061-1070.	2.5	34
80	Electrothermallyâ€actuated RFâ€MEMS suspended parallel switch. Microwave and Optical Technology Letters, 2007, 49, 2894-2896.	1.4	7
81	In-Plane Electrostatically-Actuated RF MEMS Switch Suspended on a Low-Resistivity Substrate. , 2006, , .		3
82	A unified approach to the analysis of incoherent Doppler lidars. Optics Express, 2006, 14, 7670.	3.4	2
83	Measurement uncertainty analysis in incoherent Doppler lidars by a new scattering approach. Optics Express, 2006, 14, 7699.	3.4	8
84	A new approach to the modeling of optical remote sensing systems using vortical scattering parameters. , 2006, , .		0
85	Distortion produced by RF MEMS varactors on digital communication signals. Microwave and Optical Technology Letters, 2006, 48, 246-449.	1.4	2
86	A method to simultaneously extract the small-signal equivalent circuit and noise parameters of heterojunction bipolar transistors. Microwave and Optical Technology Letters, 2006, 48, 1372-1379.	1.4	0
87	In-Plane Electrostatically-Actuated RF MEMS Switch Suspended on a Low-Resistivity Substrate. , 2006, , .		4
88	PWM-PD Multiple Output DC/DC Converters: Operation and Control-Loop Modeling. IEEE Transactions on Power Electronics, 2004, 19, 140-149.	7.9	25
89	Extended tuning range RF MEMS variable capacitors using electrostatic and electrothermal actuators. , 2004, 5344, 59.		10
90	Simultaneous extraction of the small-signal equivalent circuit elements and noise parameters of HBTs. , 2004, , .		1

#	Article	IF	Citations
91	On-wafer noise source characterization. , 2004, 5470, 448.		1
92	Application of CAD load-pull techniques in mixer design. Microwave and Optical Technology Letters, 2003, 36, 320-323.	1.4	3
93	New approach of average modelling and control for AC/DC power supplies which operates with variable duty cycle. , 0, , .		2
94	Output filter influence on the fast response double buck DC-DC converter (FRDB). , 0, , .		6
95	System-Level Behavioral Black-Box Modeling of Three-Phase DCAC Converters for the More-Electric-Aircraft. , 0, , .		1