

Antonio Lazaro

List of Publications by Year in descending order

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95
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2,337
citations

172457

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all docs

95
docs citations

95
times ranked

2295
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Radio Link Budgets for UHF RFID on Multipath Environments. IEEE Transactions on Antennas and Propagation, 2009, 57, 1241-1251.	5.1	121
3	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
4	Behavioral Modeling of a Switched Reluctance Generator for Aircraft Power Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 2690-2699.	7.9	106
5	Modular Dual-Active Bridge Converter Architecture. IEEE Transactions on Industry Applications, 2016, 52, 2444-2455.	4.9	105
6	New Power Factor Correction AC-DC Converter With Reduced Storage Capacitor Voltage. IEEE Transactions on Industrial Electronics, 2007, 54, 384-397.	7.9	100
7	A Survey of NFC Sensors Based on Energy Harvesting for IoT Applications. Sensors, 2018, 18, 3746.	3.8	83
8	Frequency-Coded Chipless RFID Tag Based on Dual-Band Resonators. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 126-128.	4.0	82
9	Wireless Wearable Magnetometer-Based Sensor for Sleep Quality Monitoring. IEEE Sensors Journal, 2018, 18, 2145-2152.	4.7	73
10	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
11	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
12	General Parameter Identification Procedure and Comparative Study of Li-Ion Battery Models. IEEE Transactions on Vehicular Technology, 2020, 69, 235-245.	6.3	58
13	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
14	Simple Modeling and Identification Procedures for "Black-Box" Behavioral Modeling of Power Converters Based on Transient Response Analysis. IEEE Transactions on Power Electronics, 2009, 24, 2776-2790.	7.9	55
15	Chipless Dielectric Constant Sensor for Structural Health Testing. IEEE Sensors Journal, 2018, 18, 5576-5585.	4.7	55
16	Wireless Breathing Sensor Based on Wearable Modulated Frequency Selective Surface. IEEE Sensors Journal, 2017, 17, 1285-1292.	4.7	51
17	TIME-DOMAIN MEASUREMENT OF TIME-CODED UWB CHIPLESS RFID TAGS. Progress in Electromagnetics Research, 2011, 116, 313-331.	4.4	50
18	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

#	ARTICLE	IF	CITATIONS
19	A Depolarizing Chipless RF Label for Dielectric Permittivity Sensing. IEEE Microwave and Wireless Components Letters, 2018, 28, 371-373.	3.2	47
20	Color Measurement and Analysis of Fruit with a Battery-Less NFC Sensor. Sensors, 2019, 19, 1741.	3.8	45
21	A General Parameter Identification Procedure Used for the Comparative Study of Supercapacitors Models. Energies, 2019, 12, 1776.	3.1	43
22	Battery-Less NFC Sensor for pH Monitoring. IEEE Access, 2019, 7, 33226-33239.	4.2	36
23	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
24	General Analysis of Switching Modes in a Dual Active Bridge with Triple Phase Shift Modulation. Energies, 2018, 11, 2419.	3.1	35
25	Electrothermally Actuated RF MEMS Switches Suspended on a Low-Resistivity Substrate. Journal of Microelectromechanical Systems, 2007, 16, 1061-1070.	2.5	34
26	Semi-Passive Time-Domain UWB RFID System. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1700-1708.	4.6	33
27	A Novel UWB RFID Tag Using Active Frequency Selective Surface. IEEE Transactions on Antennas and Propagation, 2013, 61, 1155-1165.	5.1	33
28	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
29	Tunable dual-band bandpass filter for WLAN applications. Microwave and Optical Technology Letters, 2009, 51, 2025-2028.	1.4	31
30	Black-Box Model, Identification Technique and Frequency Analysis for PEM Fuel Cell With Overshooting Transient Response. IEEE Transactions on Power Electronics, 2014, 29, 5334-5346.	7.9	29
31	Modulated Frequency Selective Surfaces for Wearable RFID and Sensor Applications. IEEE Transactions on Antennas and Propagation, 2016, 64, 4447-4456.	5.1	29
32	IR-UWB radar system and tag design for time-coded chipless RFID. , 2012, , .		26
33	PWM-PD Multiple Output DC/DC Converters: Operation and Control-Loop Modeling. IEEE Transactions on Power Electronics, 2004, 19, 140-149.	7.9	25
34	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
35	Investigation of radio channel uncertainty in distance estimation in wireless sensor networks. Telecommunication Systems, 2013, 52, 1549-1558.	2.5	19
36	Overall analysis of a modular multi active bridge converter. , 2014, , .		19

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37	Passive Harmonic RFID System for Buried Assets Localization. Sensors, 2018, 18, 3635.	3.8	19
38	Battery-Less Smart Diaper Based on NFC Technology. IEEE Sensors Journal, 2019, 19, 10848-10858.	4.7	19
39	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
40	Modulation Technique for Low Frequency Harmonic Cancellation in Auxiliary Railway Power Supplies. IEEE Transactions on Industrial Electronics, 2011, 58, 3976-3987.	7.9	14
41	Time-coded chipless RFID tags: Design, characterization and application. , 2012, , .		14
42	Passive wireless permittivity sensor based on frequency-coded chipless RFID tags. , 2012, , .		14
43	Analysis and Sizing of Power Distribution Architectures Applied to Fuel Cell Based Vehicles. Energies, 2018, 11, 2597.	3.1	14
44	Active UWB Reflector for RFID and Wireless Sensor Networks. IEEE Transactions on Antennas and Propagation, 2013, 61, 4767-4774.	5.1	13
45	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
46	Extended tuning range RF MEMS variable capacitors using electrostatic and electrothermal actuators. , 2004, 5344, 59.		10
47	A Low-Power-Consumption Out-of-Plane Electrothermal Actuator. Journal of Microelectromechanical Systems, 2007, 16, 719-727.	2.5	10
48	MEMS-Based 180° Phase Switch for Differential Radiometers. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1264-1272.	4.6	9
49	HBLED driving strategy with reduced storage capacitor based on load modularization. , 2011, , .		9
50	Measurement uncertainty analysis in incoherent Doppler lidars by a new scattering approach. Optics Express, 2006, 14, 7699.	3.4	8
51	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
52	Analysis, Design, and Implementation of the AFZ Converter Applied to Photovoltaic Systems. IEEE Transactions on Power Electronics, 2021, 36, 1883-1900.	7.9	8
53	Electrothermally-actuated RF-MEMS suspended parallel switch. Microwave and Optical Technology Letters, 2007, 49, 2894-2896.	1.4	7
54	Behavioural modelling of a switched reluctance motor drive for aircraft power systems. IET Electrical Systems in Transportation, 2014, 4, 107-113.	2.4	7

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55	Time-domain UWB RFID tags for smart floor applications. , 2014, , .		7
56	Computer-Aided Design of Digital Compensators for DC/DC Power Converters. Energies, 2018, 11, 3251.	3.1	7
57	Thermal Resistance Characterization for Multifinger SOI-MOSFETs. IEEE Transactions on Electron Devices, 2018, 65, 3626-3632.	3.0	7
58	Magnetically Coupled Buck-Boost Bidirectional DC-DC Converter. IEEE Transactions on Industrial Electronics, 2021, 68, 9493-9504.	7.9	7
59	Output filter influence on the fast response double buck DC-DC converter (FRDB). , 0, , .		6
60	Tunable dual-band resonators for communication systems. International Journal of Microwave and Wireless Technologies, 2010, 2, 245-253.	1.9	6
61	Step-by-step Small-Signal Modeling and Control of a Light Hybrid Electric Vehicle Propulsion System. Energies, 2019, 12, 4082.	3.1	6
62	Temperature-Dependent Thermal Capacitance Characterization for SOI-MOSFETs. IEEE Transactions on Electron Devices, 2019, 66, 4120-4125.	3.0	6
63	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
64	Temperature sensor based on frequency-coded chipless RFID tags. Microwave and Optical Technology Letters, 2014, 56, 2411-2415.	1.4	5
65	Influence of the Main Design Factors on the Optimal Fuel Cell-Based Powertrain Sizing. Energies, 2018, 11, 3060.	3.1	5
66	In-Plane Electrostatically-Actuated RF MEMS Switch Suspended on a Low-Resistivity Substrate. , 2006, , .		4
67	Modeling, Control and Analysis of Input-Series-Output-Parallel-Output-Series architecture with Common-Duty-Ratio and Input Filter. , 2018, , .		4
68	Application of CAD load-pull techniques in mixer design. Microwave and Optical Technology Letters, 2003, 36, 320-323.	1.4	3
69	In-Plane Electrostatically-Actuated RF MEMS Switch Suspended on a Low-Resistivity Substrate. , 2006, , .		3
70	Simplified Synchronous Reference Frame Control of the three phase grid connected inverter. , 2010, , .		3
71	Field-programmable gate array-based linear-nonlinear 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
72	Analysis and Extension of the Canonical Model applied to DC-DC converters with Input Filter and Output Post-filter. , 2020, , .		3

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73	Small-Signal Modeling of Phase-Shifted Full-Bridge Converter Considering the Delay Associated to the Leakage Inductance. <i>Energies</i> , 2021, 14, 7280.	3.1	3
74	New approach of average modelling and control for AC/DC power supplies which operates with variable duty cycle. , 0, , .		2
75	A unified approach to the analysis of incoherent Doppler lidars. <i>Optics Express</i> , 2006, 14, 7670.	3.4	2
76	Distortion produced by RF MEMS varactors on digital communication signals. <i>Microwave and Optical Technology Letters</i> , 2006, 48, 246-449.	1.4	2
77	Charge-Based Compact Modeling of Multiple-Gate MOSFET. , 2007, , .		2
78	Description and Assessment of Activities Oriented to Enhance a First Course on Power Electronics. <i>IEEE Transactions on Education</i> , 2011, 54, 531-539.	2.4	2
79	System-Level Behavioral Black-Box Modeling of DC-DC Converters for the More-Electric-Aircraft Based on Time Domain Measurements. , 2011, , .		2
80	Auto-design simulation set up of PV VSC with grid supporting functions. , 2014, , .		2
81	Simple method of direct digital design of compensator for DC-DC converters. , 2016, , .		2
82	Energy Management System Optimization for a Fuel Cell Hybrid Vehicle based on Power Losses Minimization. , 2020, , .		2
83	Li-Ion Battery and Supercapacitor Modeling for Electric Vehicles Based on Pulse " Pseudo Random Binary Sequence. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 11378-11389.	6.3	2
84	Simultaneous extraction of the small-signal equivalent circuit elements and noise parameters of HBTs. , 2004, , .		1
85	On-wafer noise source characterization. , 2004, 5470, 448.		1
86	System-Level Behavioral Black-Box Modeling of Three-Phase DCAC Converters for the More-Electric-Aircraft. , 0, , .		1
87	Nanoscale FETs. <i>Advances in Imaging and Electron Physics</i> , 2012, , 261-347.	0.2	1
88	UWB time-coded RFID sensors: A comparison between passive and semi-passive approaches. , 2013, , .		1
89	Extension of the Injected-Absorbed-Current Method Applied to DC"DC Converters With Input Filter, Output Postfilter, and Feedforward Compensations. <i>IEEE Transactions on Transportation Electrification</i> , 2022, 8, 856-874.	7.8	1
90	Control strategies analysis used in power distribution systems of electric vehicles with multiple energy sources. , 2021, , .		1

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91	A new approach to the modeling of optical remote sensing systems using vortical scattering parameters. , 2006, , .		0
92	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
93	Extension of harmonic elimination technique in presence of nonlinear loads. Electronics Letters, 2007, 43, 1459.	1.0	0
94	Advanced Control Strategy for Solid State Power Controllers (SSPC). , 2011, , .		0
95	Parametric analysis of a Fuel Cell Hybrid Vehicle Energy Management System. , 2020, , .		0