Antonio Lazaro

List of Publications by Year
in descending order

133	2,852	172457	197818
papers	citations	29 h-index	49 g-index

134	134	134	2249
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gate Length-Dependent Thermal Impedance Characterization of PD-SOI MOSFETs. IEEE Transactions on Electron Devices, 2022, 69, 469-474.	3.0	2
2	RF Extraction of Thermal Resistance for GaN HEMTs on Silicon. IEEE Transactions on Electron Devices, 2022, 69, 2307-2312.	3.0	5
3	Spoofing Attacks on FMCW Radars with Low-Cost Backscatter Tags. Sensors, 2022, 22, 2145.	3.8	14
4	Long-Range LoRaWan backscatter based sensors for medical and wearable applications. , 2022, , .		2
5	Car-to-car communication based on modulated active backscatter and automotive radar. , 2022, , .		3
6	Battery-Less NFC Bicycle Tire Pressure Sensor Based on a Force-Sensing Resistor. IEEE Access, 2021, 9, 103975-103987.	4.2	11
7	New Radar Micro-Doppler Tag for Road Safety Based on the Signature of Rotating Backscatters. IEEE Sensors Journal, 2021, 21, 8604-8612.	4.7	14
8	Car2Car Communication Using a Modulated Backscatter and Automotive FMCW Radar. Sensors, 2021, 21, 3656.	3.8	14
9	Room-Level Localization System Based on LoRa Backscatters. IEEE Access, 2021, 9, 16004-16018.	4.2	18
10	Star-Shaped Wheel for Mechanical Micro-Doppler Modulation. IEEE Antennas and Wireless Propagation Letters, 2021, , 1-1.	4.0	2
11	Seat-Occupancy Detection System and Breathing Rate Monitoring Based on a Low-Cost mm-Wave Radar at 60 GHz. IEEE Access, 2021, 9, 115403-115414.	4.2	26
12	Smart Face Mask with an Integrated Heat Flux Sensor for Fast and Remote Peopleâ€™s Healthcare Monitoring. Sensors, 2021, 21, 7472.	3.8	22
13	Study on the Reading of Energy-Harvested Implanted NFC Tags Using Mobile Phones. IEEE Access, 2020, 8, 2200-2221.	4.2	28
14	Feasibility of Backscatter Communication Using LoRAWAN Signals for Deep Implanted Devices and Wearable Applications. Sensors, 2020, 20, 6342.	3.8	13
15	NFC Battery-Less Colour Sensor and its Applications. , 2020, , .		1
16	Battery-Less Smart Diaper Based on NFC Technology. IEEE Sensors Journal, 2019, 19, 10848-10858.	4.7	19
17	Temperature-Dependent Thermal Capacitance Characterization for SOI-MOSFETs. IEEE Transactions on Electron Devices, 2019, 66, 4120-4125.	3.0	6
18	Color Measurement and Analysis of Fruit with a Battery-Less NFC Sensor. Sensors, 2019, 19, 1741.	3.8	45

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19	Battery-Less NFC Sensor for pH Monitoring. IEEE Access, 2019, 7, 33226-33239.	4.2	36
20	EMERGENT Project: ChiplEss MultisEnsor Rfid for GrEen NeTworks. , 2019, , .		1
21	Technique for wireless reading of passive microfluidic sensors. Electronics Letters, 2018, 54, 150-151.	1.0	2
22	Wireless Wearable Magnetometer-Based Sensor for Sleep Quality Monitoring. IEEE Sensors Journal, 2018, 18, 2145-2152.	4.7	73
23	A Depolarizing Chipless RF Label for Dielectric Permittivity Sensing. IEEE Microwave and Wireless Components Letters, 2018, 28, 371-373.	3.2	47
24	Non-contact Material Monitoring by Using Depolarizing Chipless RFID Tags. , 2018, , .		1
25	Near-Field Soil Moisture Sensor with Energy Harvesting Capability. , 2018, , .		8
26	A Survey of NFC Sensors Based on Energy Harvesting for IoT Applications. Sensors, 2018, 18, 3746.	3.8	83
27	Passive Harmonic RFID System for Buried Assets Localization. Sensors, 2018, 18, 3635.	3.8	19
28	RF-MEMS Switches Designed for High-Performance Uniplanar Microwave and mm-Wave Circuits. , 2018, , .		4
29	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
30	Chipless Dielectric Constant Sensor for Structural Health Testing. IEEE Sensors Journal, 2018, 18, 5576-5585.	4.7	55
31	Thermal Resistance Characterization for Multifinger SOI-MOSFETs. IEEE Transactions on Electron Devices, 2018, 65, 3626-3632.	3.0	7
32	Diversity Study of a Frequency Selective Surface Transponder for Wearable Applications. IEEE Transactions on Antennas and Propagation, 2017, 65, 2701-2706.	5.1	4
33	RF noise model for AlGaN/GaN HEMT. , 2017, , .		0
34	Progress in green chipless RFID sensors. , 2017, , .		6
35	Wireless Breathing Sensor Based on Wearable Modulated Frequency Selective Surface. IEEE Sensors Journal, 2017, 17, 1285-1292.	4.7	51
36	Analytical high frequency GaN HEMT model for noise simulations. Semiconductor Science and Technology, 2017, 32, 125012.	2.0	2

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37	Design of wireless sensors by using chipless RFID technology. , 2017, , .		4
38	Wearable sensors based on modulated frequency selective surfaces. , 2017, , .		1
39	Large-Signal DG-MOSFET Modelling for RFID Rectification. Advances in Condensed Matter Physics, 2016, 2016, 1-6.	1.1	0
40	ANALYSIS OF ON-BODY TRANSPONDERS BASED ON FREQUENCY SELECTIVE SURFACES. Progress in Electromagnetics Research, 2016, 157, 133-143.	4.4	10
41	Modulated Frequency Selective Surfaces for Wearable RFID and Sensor Applications. IEEE Transactions on Antennas and Propagation, 2016, 64, 4447-4456.	5.1	29
42	Temporal Separation Detection for Chipless Depolarizing Frequency-Coded RFID. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2326-2337.	4.6	78
43	Signal Processing Techniques for Chipless UWB RFID Thermal Threshold Detector Detection. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 618-621.	4.0	15
44	Modulated corner reflector using frequency selective surfaces for FMCW radar applications. , 2015, , .		7
45	Nitrogen Dioxide Wireless Sensor Based on Carbon Nanotubes and UWB RFID Technology. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1145-1148.	4.0	8
46	Solar-Powered Wireless Temperature Sensor Based on UWB RFID With Self-Calibration. IEEE Sensors Journal, 2015, 15, 3764-3772.	4.7	13
47	DC self-heating effects modelling in SOI and bulk FinFETs. Microelectronics Journal, 2015, 46, 320-326.	2.0	20
48	Active Backscatter Transponder for FMCW Radar Applications. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1610-1613.	4.0	10
49	Backscatter tag based on frequency selective surface for FMCW radar applications. , 2015, , .		0
50	Wireless Concrete Mixture Composition Sensor Based on Time-Coded UWB RFID. IEEE Microwave and Wireless Components Letters, 2015, 25, 681-683.	3.2	22
51	Oxygen plasma treated carbon nanotubes for the wireless monitoring of nitrogen dioxide levels. Sensors and Actuators B: Chemical, 2015, 208, 444-449.	7.8	21
52	A Passive Harmonic Tag for Humidity Sensing. International Journal of Antennas and Propagation, 2014, 2014, 1-11.	1.2	41
53	Multi-sensor UWB time-coded RFID tags for smart cities applications. , 2014, , .		5
54	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

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55	Sensing of thermal thresholds using UWB RFID passive tags. , 2014, , .		3
56	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
57	Permittivity sensor using chipless time-coded UWB RFID. , 2014, , .		1
58	Time-domain UWB RFID tags for smart floor applications. , 2014, , .		7
59	Temperature sensor based on frequency-coded chipless RFID tags. Microwave and Optical Technology Letters, 2014, 56, 2411-2415.	1.4	5
60	Investigation of radio channel uncertainty in distance estimation in wireless sensor networks. Telecommunication Systems, 2013, 52, 1549-1558.	2.5	19
61	Active UWB Reflector for RFID and Wireless Sensor Networks. IEEE Transactions on Antennas and Propagation, 2013, 61, 4767-4774.	5.1	13
62	Time-coded chipless RFID temperature sensor with self-calibration based on a Vivaldi antenna. , 2013, , .		11
63	Semi-Passive Time-Domain UWB RFID System. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1700-1708.	4.6	33
64	A Novel UWB RFID Tag Using Active Frequency Selective Surface. IEEE Transactions on Antennas and Propagation, 2013, 61, 1155-1165.	5.1	33
65	In-depth analysis and modelling of self-heating effects in nanometric DGMOSFETs. Solid-State Electronics, 2013, 79, 179-184.	1.4	13
66	Time-Domain UWB RFID Tag Based on Reflection Amplifier. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 520-523.	4.0	14
67	UWB time-coded RFID sensors: A comparison between passive and semi-passive approaches. , 2013, , .		1
68	An advanced drain current model for DGMOSFETs including self-heating effects. , 2012, , .		1
69	Influence of materials in time-coded chipless RFID tags characterized using a low-cost UWB reader. , 2012, , .		4
70	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
71	IR-UWB radar system and tag design for time-coded chipless RFID. , 2012, , .		26
72	Time-coded chipless RFID tags: Design, characterization and application. , 2012, , .		14

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73	Passive wireless permittivity sensor based on frequency-coded chipless RFID tags. , 2012, , .		14
74	Frequency-Coded Chipless RFID Tag Based on Dual-Band Resonators. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 126-128.	4.0	82
75	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
76	Nanoscale FETs. Advances in Imaging and Electron Physics, 2012, , 261-347.	0.2	1
77	Chipless UWB RFID Tag Detection Using Continuous Wavelet Transform. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 520-523.	4.0	84
78	TIME-DOMAIN MEASUREMENT OF TIME-CODED UWB CHIPLESS RFID TAGS. Progress in Electromagnetics Research, 2011, 116, 313-331.	4.4	50
79	Read range reduction in UHF RFID due to antenna detuning and gain penalty. Microwave and Optical Technology Letters, 2011, 53, 144-148.	1.4	17
80	Design of tapered slot Vivaldi antenna for UWB breast cancer detection. Microwave and Optical Technology Letters, 2011, 53, 639-643.	1.4	34
81	Numerical dc self-heating in planar double-gate MOSFETs. Semiconductor Science and Technology, 2011, 26, 095014.	2.0	6
82	DC thermal numerical simulation of DG MOSFET. , 2011, , .		0
83	WEIGHTED CENTROID METHOD FOR BREAST TUMOR LOCALIZATION USING AN UWB RADAR. Progress in Electromagnetics Research B, 2010, 24, 1-15.	1.0	7
84	ANALYSIS OF VITAL SIGNS MONITORING USING AN IR-UWB RADAR. Progress in Electromagnetics Research, 2010, 100, 265-284.	4.4	311
85	High-frequency compact analytical noise model of gate-all-around MOSFETs. Semiconductor Science and Technology, 2010, 25, 035015.	2.0	2
86	MEMS-Based 180^{circ} Phase Switch for Differential Radiometers. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1264-1272.	4.6	9
87	Tunable dual-band resonators for communication systems. International Journal of Microwave and Wireless Technologies, 2010, 2, 245-253.	1.9	6
88	SIMULATED AND EXPERIMENTAL INVESTIGATION OF MICROWAVE IMAGING USING UWB. Progress in Electromagnetics Research, 2009, 94, 263-280.	4.4	42
89	WAVELET-BASED BREAST TUMOR LOCALIZATION TECHNIQUE USING A UWB RADAR. Progress in Electromagnetics Research, 2009, 98, 75-95.	4.4	46
90	EFFECTS OF INTERFERENCES IN UHF RFID SYSTEMS. Progress in Electromagnetics Research, 2009, 98, 425-443.	4.4	50

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91	High Frequency and Noise Model of Gate-All-Around MOSFETs. , 2009, , .		7
92	High-frequency compact analytical noise model for double-gate metal-oxide-semiconductor field-effect transistor. Journal of Applied Physics, 2009, 105, 034510.	2.5	10
93	High frequency and noise model of gate-all-around metal-oxide-semiconductor field-effect transistors. Journal of Applied Physics, 2009, 105, 074505.	2.5	8
94	Linearity study of DG MOSFETs. , 2009, , .		1
95	A method for characterization of intermodulation distortion produced in MEMS switches. Microwave and Optical Technology Letters, 2009, 51, 526-529.	1.4	0
96	Dualâ€band bandpass filter based on a hole resonator. Microwave and Optical Technology Letters, 2009, 51, 1649-1652.	1.4	2
97	Tunable dualâ€band bandpass filter for WLAN applications. Microwave and Optical Technology Letters, 2009, 51, 2025-2028.	1.4	31
98	Radio Link Budgets for UHF RFID on Multipath Environments. IEEE Transactions on Antennas and Propagation, 2009, 57, 1241-1251.	5.1	121
99	Phase Noise Modelling in Parallel-plate MEMS variable capacitors. , 2009, , .		0
100	RF and noise model of gate-all-around MOSFETs. Semiconductor Science and Technology, 2008, 23, 075022.	2.0	20
101	A compact quantum model for fin-shaped field effect transistors valid from dc to high frequency and noise simulations. Journal of Applied Physics, 2008, 103, 084507.	2.5	10
102	A CAD model of Nanoscale Double-Gate MOSFET for RF and Noise applications including quantum and non-stationary effects. , 2007, , .		0
103	Charge-Based Compact Modeling of Multiple-Gate MOSFET. , 2007, , .		2
104	A Low-Power-Consumption Out-of-Plane Electrothermal Actuator. Journal of Microelectromechanical Systems, 2007, 16, 719-727.	2.5	10
105	Non linear actuation model for lateral electrostatically-actuated DC-contact RF MEMS series switches. , 2007, , .		1
106	A Compact Quantum Model of Nanoscale Double-Gate MOSFET for RF and Noise Simulations. , 2007, , .		1
107	Electrothermally Actuated RF MEMS Switches Suspended on a Low-Resistivity Substrate. Journal of Microelectromechanical Systems, 2007, 16, 1061-1070.	2.5	34
108	Nonlinear actuation model for lateral electrostatically-actuated DC-contact RF MEMS series switches. Microwave and Optical Technology Letters, 2007, 49, 1238-1241.	1.4	1

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109	Electrothermallyâ€actuated RFâ€MEMS suspended parallel switch. Microwave and Optical Technology Letters, 2007, 49, 2894-2896.	1.4	7
110	In-Plane Electrostatically-Actuated RF MEMS Switch Suspended on a Low-Resistivity Substrate. , 2006, , .		3
111	Compact RF Modeling of Multiple-Gate MOSFETs. , 2006, , .		3
112	Measurement uncertainty analysis in incoherent Doppler lidars by a new scattering approach. Optics Express, 2006, 14, 7699.	3.4	8
113	RF and noise performance of double gate and single gate SOI. Solid-State Electronics, 2006, 50, 826-842.	1.4	46
114	Compact-Modeling Solutions For Nanoscale Double-Gate and Gate-All-Around MOSFETs. IEEE Transactions on Electron Devices, 2006, 53, 2128-2142.	3.0	91
115	Study of intermodulation in RF MEMS variable capacitors. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 1120-1130.	4.6	52
116	Distortion produced by RF MEMS varactors on digital communication signals. Microwave and Optical Technology Letters, 2006, 48, 246-449.	1.4	2
117	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
118	RF and Noise Performance of Multiple-Gate SOI MOSFETs. , 2006, , .		4
119	A compact quantum model of nanoscale double-gate metal-oxide-semiconductor field-effect transistor for high frequency and noise simulations. Journal of Applied Physics, 2006, 100, 084320.	2.5	28
120	In-Plane Electrostatically-Actuated RF MEMS Switch Suspended on a Low-Resistivity Substrate. , 2006, , .		4
121	Noise in SOI MOSFETs and Gate-All Around Transistors. AIP Conference Proceedings, 2005, , .	0.4	2
122	A MEMS capacitor with improved RF power handling capability. , 2005, , .		1
123	Generation of third and higher-order intermodulation products in MEMS capacitors, and their effects. , 2005, , .		6
124	Characterization of Dynamics and Power Handling of RF MEMS Using Vector Measurement Techniques. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 2627-2633.	4.6	11
125	Noise model of a reverse-biased cold-FET applied to the characterization of its ENR. Microwave and Optical Technology Letters, 2004, 40, 326-330.	1.4	1
126	A method for the determination of a distributed FET noise model based on matched-source noise-figure measurements. Microwave and Optical Technology Letters, 2004, 41, 221-225.	1.4	1

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127	Simultaneous extraction of the small-signal equivalent circuit elements and noise parameters of HBTs. , 2004, , .		1
128	Extraction of an avalanche diode noise model for its application as an on-wafer noise source. Microwave and Optical Technology Letters, 2003, 38, 89-92.	1.4	17
129	Bias-dependence of FET intrinsic noise sources, determined with a quasi-2D model. Microwave and Optical Technology Letters, 2003, 39, 317-319.	1.4	5
130	A method for characterizing coplanar waveguide-to-microstrip transitions, and its application to the measurement of microstrip devices with coplanar microprobes. Microwave and Optical Technology Letters, 2003, 39, 373-378.	1.4	7
131	Cold-FET ENR Characterisation Applied to the Measurement of On-Wafer Transistor Noise Parameters. , 2002, , .		3
132	FET noise-parameter determination using a novel technique based on 50-Î© noise-figure measurements. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 315-324.	4.6	28
133	NFC Sensors Based on Energy Harvesting for IoT Applications. , 0, , .		4