

Lluís Pradell Cara

List of Publications by Year in descending order

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79
papers

949
citations

687363

13
h-index

501196

28
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79
all docs

79
docs citations

79
times ranked

1134
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Planck</i> pre-launch status: The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2010, 520, A1.	5.1	268
2	Study of intermodulation in RF MEMS variable capacitors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006, 54, 1120-1130.	4.6	52
3	New theoretical analysis of the LRRM calibration technique for vector network analyzers. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2001, 50, 1307-1314.	4.7	49
4	Very low-noise differential radiometer at 30 GHz for the PLANCK LFI. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005, 53, 2050-2062.	4.6	34
5	Electrothermally Actuated RF MEMS Switches Suspended on a Low-Resistivity Substrate. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 1061-1070.	2.5	34
6	Tunable dual-band bandpass filter for WLAN applications. <i>Microwave and Optical Technology Letters</i> , 2009, 51, 2025-2028.	1.4	31
7	FET noise-parameter determination using a novel technique based on 50- $\hat{\text{C}}$ noise-figure measurements. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1999, 47, 315-324.	4.6	28
8	A 2.4 GHz CMOS Class-F Power Amplifier With Reconfigurable Load-Impedance Matching. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019, 66, 31-42.	5.4	23
9	High-Efficiency Reconfigurable Dual-Band Class-F Power Amplifier With Harmonic Control Network Using MEMS. <i>IEEE Microwave and Wireless Components Letters</i> , 2020, 30, 677-680.	3.2	21
10	Microstrip Switchable Bandstop Filter using PIN Diodes with Precise Frequency and Bandwidth Control. , 2008, , .		20
11	Circuit model for a coplanar-slotline cross. , 2000, 10, 511-513.		17
12	Extraction of an avalanche diode noise model for its application as an on-wafer noise source. <i>Microwave and Optical Technology Letters</i> , 2003, 38, 89-92.	1.4	17
13	Switchable bandpass filter for WiFi-UMTS reception standards. <i>Electronics Letters</i> , 2010, 46, 930.	1.0	17
14	Circuit model for mode conversion in coplanar waveguide asymmetric shunt impedances. <i>Electronics Letters</i> , 1999, 35, 713.	1.0	14
15	LFI 30 and 44 GHz receivers Back-End Modules. <i>Journal of Instrumentation</i> , 2009, 4, T12003-T12003.	1.2	14
16	Compact Fully Uniplanar Bandstop Filter Based on Slow-Wave Multimodal CPW Resonators. <i>IEEE Microwave and Wireless Components Letters</i> , 2018, 28, 780-782.	3.2	14
17	A 125-143-GHz Frequency-Reconfigurable BiCMOS Compact LNA Using a Single RF-MEMS Switch. <i>IEEE Microwave and Wireless Components Letters</i> , 2019, 29, 339-341.	3.2	13
18	Method for measuring noise parameters of microwave two-port. <i>Electronics Letters</i> , 1998, 34, 1332.	1.0	12

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19	Precise frequency and bandwidth control of switchable microstrip bandpass filters using diode and microelectro-mechanical system technologies. IET Microwaves, Antennas and Propagation, 2012, 6, 713.	1.4	12
20	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
21	RF-MEMS Uniplanar 180° Phase Switch Based on a Multimodal Air-Bridged CPW Cross. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1769-1777.	4.6	11
22	Extended tuning range RF MEMS variable capacitors using electrostatic and electrothermal actuators. , 2004, 5344, 59.		10
23	A Low-Power-Consumption Out-of-Plane Electrothermal Actuator. Journal of Microelectromechanical Systems, 2007, 16, 719-727.	2.5	10
24	Uniplanar Bandpass Filters Based on Multimodal Imittance Inverters and End-Coupled Slotline Resonators. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 77-88.	4.6	10
25	Ku-band RF-MEMS uniplanar reconfigurable bandwidth bandpass filter using multimodal immittance inverters. Electronics Letters, 2013, 49, 704-706.	1.0	10
26	Circuit model for slotline-to-coplanar waveguide asymmetrical transitions. Electronics Letters, 1999, 35, 1153.	1.0	9
27	MEMS-Based 180° Phase Switch for Differential Radiometers. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1264-1272.	4.6	9
28	Direct extraction of all four transistor noise parameters from 50 [ohm sign] noise figure measurements. Electronics Letters, 1998, 34, 289.	1.0	8
29	Circuit model for coplanar-slotline tees. , 2000, 10, 177-179.		8
30	A Rigorous Multimodal Analysis and Design Procedure of a Uniplanar 180° Hybrid. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1832-1839.	4.6	8
31	Precise frequency and bandwidth control of microstrip switchable bandstop filters. Microwave and Optical Technology Letters, 2009, 51, 2573-2578.	1.4	8
32	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
33	Electrothermally-actuated RF-MEMS suspended parallel switch. Microwave and Optical Technology Letters, 2007, 49, 2894-2896.	1.4	7
34	Capacitive and Resistive RF-MEMS switches 2.5D & 3D Electromagnetic and Circuit Modelling. , 2009, , .		7
35	Fully adaptable bandstop filter using varactor diodes. Microwave and Optical Technology Letters, 2010, 52, 554-558.	1.4	7
36	A Ku-band RF-MEMS frequency-reconfigurable multimodal bandpass filter. International Journal of Microwave and Wireless Technologies, 2014, 6, 277-285.	1.9	7

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37	Generation of third and higher-order intermodulation products in MEMS capacitors, and their effects. , 2005, , .		6
38	Selectivity-tuned bandpass filter. Electronics Letters, 2009, 45, 984.	1.0	6
39	Characterizing a Tune All Bandstop Filter. , 2009, , .		6
40	Tunable dual-band resonators for communication systems. International Journal of Microwave and Wireless Technologies, 2010, 2, 245-253.	1.9	6
41	CPW balun for printed balanced antennas. Electronics Letters, 2014, 50, 785-786.	1.0	6
42	Ill conditioning loci in noise parameter determination. Electronics Letters, 1996, 32, 1680.	1.0	5
43	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
44	Properties of oxidized porous silicon as insulator material for RF applications. , 0, , .		5
45	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
46	Design of Minimum Nonlinear Distortion Reconfigurable Antennas for Next-Generation Communication Systems. Sensors, 2021, 21, 2557.	3.8	5
47	In-Plane Electrostatically-Actuated RF MEMS Switch Suspended on a Low-Resistivity Substrate. , 2006, , .		4
48	Polymer-based micromachined rectangular coaxial filters for millimeter-wave applications. International Journal of Microwave and Wireless Technologies, 2011, 3, 115-120.	1.9	4
49	RF-MEMS Switches Designed for High-Performance Uniplanar Microwave and mm-Wave Circuits. , 2018, , .		4
50	Extraction of noise parameters of transistor using a spectrum analyser and 50 [ohm sign] noise figure measurements only. Electronics Letters, 1998, 34, 2353.	1.0	3
51	Cold-FET ENR Characterisation Applied to the Measurement of On-Wafer Transistor Noise Parameters. , 2002, , .		3
52	Application of CAD load-pull techniques in mixer design. Microwave and Optical Technology Letters, 2003, 36, 320-323.	1.4	3
53	Planck-LFI 44 GHz back end module. IEEE Transactions on Aerospace and Electronic Systems, 2005, 41, 1415-1430.	4.7	3
54	A multimodal analysis of the effects of guard traces over near wideband signal paths. , 0, , .		3

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55	In-Plane Electrostatically-Actuated RF MEMS Switch Suspended on a Low-Resistivity Substrate. , 2006, , .		3
56	Compact, wideband CPW-to-slotline multimodal transition. , 2007, , .		3
57	U-band micromachined coaxial filter. , 2011, , .		3
58	Distortion produced by RF MEMS varactors on digital communication signals. Microwave and Optical Technology Letters, 2006, 48, 246-449.	1.4	2
59	Dual-band bandpass filter based on a hole resonator. Microwave and Optical Technology Letters, 2009, 51, 1649-1652.	1.4	2
60	Discretely tuned RF-MEMS bandstop filter with wide tuning range and uniform high rejection. Electronics Letters, 2012, 48, 1065-1067.	1.0	2
61	RF-MEMS switches for a full control of the propagating modes in uniplanar microwave circuits and their application to reconfigurable multimodal microwave filters. Microsystem Technologies, 2017, 23, 5959-5975.	2.0	2
62	Miniature Switchable Millimeter-Wave BiCMOS Low-Noise Amplifier at 120/140 GHz Using an HBT Switch. Micromachines, 2019, 10, 632.	2.9	2
63	Comparison of on-wafer calibrations using the concept of reference impedance. , 1993, , .		1
64	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
65	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
66	Simultaneous extraction of the small-signal equivalent circuit elements and noise parameters of HBTs. , 2004, , .		1
67	On-wafer noise source characterization. , 2004, 5470, 448.		1
68	Circuit models for mode conversion in clock signal distribution. , 2005, , .		1
69	A MEMS capacitor with improved RF power handling capability. , 2005, , .		1
70	Non linear actuation model for lateral electrostatically-actuated DC-contact RF MEMS series switches. , 2007, , .		1
71	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
72	Reduced-length uniplanar bandpass filters based on coplanar-waveguide-slotline tees. , 2015, , .		1

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73	Compact, wideband impedance tuner using a three-line microstrip structure. Electronics Letters, 2018, 54, 572-574.	1.0	1
74	Generalized transverse resonance analysis of planar discontinuities considering the edge effect. , 2000, 10, 517-519.		0
75	Low Cost PLDROs for LMDS/MVDS Applications for 40 GHz Band. , 2002, , .		0
76	RF MEMS switches based on the buckle-beam thermal actuator. , 2003, , .		0
77	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
78	A method for characterization of intermodulation distortion produced in MEMS switches. Microwave and Optical Technology Letters, 2009, 51, 526-529.	1.4	0
79	A new compact bandpass filter based on an asymmetric short-circuited spurline resonator. Microwave and Optical Technology Letters, 2010, 52, 1328-1331.	1.4	0