Tomas Fernandez

List of Publications by Year
in descending order

30 papers	239 citations	1039880 9 h-index	1058333 14 g-index
30 all docs	30 docs citations	30 times ranked	173 citing authors

#	Article	IF	Citations
1	An Ultra-Compact Full-Band Waveguide Quadrature Hybrid Coupler. IEEE Microwave and Wireless Components Letters, 2022, 32, 9-12.	2.0	10
2	Compact Low-Cost Filter for 5G Interference Reduction in UHF Broadcasting Band. Electronics (Switzerland), 2021, 10, 974.	1.8	6
3	Accurately Modeling of Zero Biased Schottky-Diodes at Millimeter-Wave Frequencies. Electronics (Switzerland), 2019, 8, 696.	1.8	7
4	Comparison of Microstrip W-Band Detectors Based on Zero Bias Schottky-Diodes. Electronics (Switzerland), 2019, 8, 1450.	1.8	5
5	New shield structure for retrodirective and invisible applications. Microwave and Optical Technology Letters, 2016, 58, 2570-2577.	0.9	1
6	On the use of HF techniques for biological tissue detection. , 2014, , .		0
7	Yield-oriented design protocol and equivalent circuit model for W-band E-plane waveguide-to-microstrip transitions. International Journal of RF and Microwave Computer-Aided Engineering, 2014, 24, 77-91.	0.8	2
8	GNSS microstrip antenna for orbit determination of GEO satellites. , 2014, , .		2
9	Very-high-frequency methodology for biological tissue discrimination. , 2013, , .		0
10	CONTRIBUTION TO THE DEVELOPMENT OF FLAT FRESNEL REFLECTORS IN W BAND FOR NEW IMAGING APPLICATIONS. Progress in Electromagnetics Research, 2013, 142, 1-14.	1.6	1
11	NONLINEAR MODELING OF TRAPPING AND THERMAL EFFECTS ON GaAs AND GaN MESFET/HEMT DEVICES. Progress in Electromagnetics Research, 2012, 124, 163-186.	1.6	12
12	CHARACTERIZATION AND MODELING OF SCHOTTKY DIODES UP TO 110 GHZ FOR USE IN BOTH FLIP-CHIP AND WIRE-BONDED ASSEMBLED ENVIRONMENTS. Progress in Electromagnetics Research, 2012, 131, 457-475.	1.6	17
13	Design of Fresnel plate reflector for kidney cancer detection system. , 2011, , .		1
14	Study of the influence of bias and matching networks on the distortion and memory of FET-based power amplifiers. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 517-526.	0.8	3
15	Modelling of temperature and dispersion effects in MESFET and HEMT transistors. , 2008, , .		2
16	Accurate large-signal single current source thermal model for GaAs MESFET/HEMT. Electronics Letters, 2007, 43, 775.	0.5	6
17	Taking Advantage of a Schottky Junction Nonlinear Characteristic for Radiofrequency Temperature Sensing. , 2006, , .		3
18	Nonlinear and Memory Characterization of GaAs FET Devices and FET-Based Power Amplifier Circuits. , 2006, , .		4

#	Article	IF	Citations
19	RF Devices: Characteristics and Modelling. , 2006, , 9-89.		0
20	High-order derivatives in measurement of mobility in HEMT devices. Electronics Letters, 2004, 40, 700.	0.5	1
21	Measurement of Mobility in HEMT Devices Using High-Order Derivatives. IEEE Transactions on Electron Devices, 2004, 51, 1-7.	1.6	10
22	Nonlinear dynamics of microwave synthesizers-stability and noise. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 1792-1803.	2.9	15
23	Smoothing the canonical piecewise-linear model: an efficient and derivable large-signal model for MESFET/HEMT transistors. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2001, 48, 184-192.	0.1	19
24	Nonlinearity estimation in power amplifiers based on subsampled temporal data. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 882-887.	2.4	20
25	Characterization of thermal and frequency-dispersion effects in GaAs MESFET devices. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 1352-1355.	2.9	30
26	Pseudorandom pulsed I/V characterisation of MESFET/HEMT devices. Electronics Letters, 2000, 36, 1075.	0.5	0
27	Detecting IMD Sweet Spots in LDMOS Devices through an Accurate Nonlinear Characterization. , 2000, , .		1
28	Accurately modeling the drain to source current in recessed gate P-HEMT devices. IEEE Electron Device Letters, 1999, 20, 557-559.	2.2	11
29	Extracting a bias-dependent large signal MESFET model from pulsed I/V measurements. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 372-378.	2.9	47
30	Optically controlled 2.4GHz MMIC amplifier. , 0, , .		3