

Juan MarÃ-a Collantes Metola

List of Publications by Year in descending order

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45
papers

678
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759233

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g-index

45
all docs

45
docs citations

45
times ranked

598
citing authors

#	ARTICLE	IF	CITATIONS
1	Closed-loop stability analysis of microwave amplifiers. Electronics Letters, 2001, 37, 226.	1.0	146
2	A wide-frequency range AC magnetometer to measure the specific absorption rate in nanoparticles for magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2014, 368, 432-437.	2.3	81
3	Specific absorption rate dependence on temperature in magnetic field hyperthermia measured by dynamic hysteresis losses (ac magnetometry). Nanotechnology, 2015, 26, 015704.	2.6	80
4	Systematic Approach to the Stabilization of Multitransistor Circuits. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2073-2082.	4.6	49
5	Effects of dut mismatch on the noise figure characterization: a comparative analysis of two y-factor techniques. IEEE Transactions on Instrumentation and Measurement, 2002, 51, 1150-1156.	4.7	38
6	Harmonic phases of the nanoparticle magnetization: An intrinsic temperature probe. Applied Physics Letters, 2015, 107, .	3.3	30
7	Vectorially Combined Distributed Power Amplifiers for Software-Defined Radio Applications. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3189-3200.	4.6	19
8	Detecting and avoiding odd-mode parametric oscillations in microwave power amplifiers. International Journal of RF and Microwave Computer-Aided Engineering, 2005, 15, 469-478.	1.2	18
9	Stability analysis of microwave circuits. , 2012, , .		16
10	Control design in the harmonic domain for microwave and RF circuits. IET Control Theory and Applications, 2003, 150, 127-131.	1.7	14
11	Sensitivity Enhancement in Pole-Zero Identification Based Stability Analysis of Microwave Circuits. , 2008, , .		14
12	Discrete control for a computer hard disk by using a fractional order hold device. IET Control Theory and Applications, 2001, 148, 117-124.	1.7	13
13	Vectorially combined distributed power amplifier with load pull impedance determination. Electronics Letters, 2010, 46, 1137.	1.0	13
14	Pole-Zero Identification: Unveiling the Critical Dynamics of Microwave Circuits Beyond Stability Analysis. IEEE Microwave Magazine, 2019, 20, 36-54.	0.8	13
15	New measurement-based technique for RF LDMOS nonlinear modeling. , 1998, 8, 345-347.		11
16	Experimental Characterization of Stability Margins in Microwave Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 4145-4156.	4.6	11
17	Period-doubling analysis and chaos detection using commercial harmonic balance simulators. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 574-581.	4.6	10
18	Stability Analysis of Nonlinear Circuits Driven With Modulated Signals. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 929-940.	4.6	10

#	ARTICLE	IF	CITATIONS
19	Parametric oscillations in distributed power amplifiers. <i>Electronics Letters</i> , 2009, 45, 1325.	1.0	9
20	Stability analysis of multistage power amplifiers using Multiple-Input Multiple-Output identification. , 2016, , .		8
21	Cold-source measurements for noise figure calculation in spectrum analyzers. , 2006, , .		7
22	Joint RF and large-signal stability optimization of MMIC power combining amplifiers. <i>International Journal of Microwave and Wireless Technologies</i> , 2013, 5, 683-688.	1.9	6
23	Combined control of drain video bandwidth and stability margins in power amplifiers for envelope tracking applications. , 2014, , .		6
24	Experimental Control and Design of Low-Frequency Bias Networks for Dynamically Biased Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 1923-1936.	4.6	6
25	Characterization of Galileo signal correlation losses caused by non linear power amplification with memory. , 2008, , .		5
26	Specific Absorption Rate of Magnetite Nanoparticle Powders With and Without Surrounding Organic Ligands. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 7451-7455.	0.9	5
27	Increasing low-frequency stability margins in microwave amplifiers from experimental data. , 2012, , .		5
28	Global Stability Analysis of Coupled-Oscillator Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 165-180.	4.6	5
29	A new technique for chaos prediction in RF circuit design using harmonic-balance commercial simulators. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1999, 46, 1413-1415.	0.1	4
30	A dynamical load-cycle charge model for RF power FETs. <i>IEEE Microwave and Wireless Components Letters</i> , 2001, 11, 296-298.	3.2	4
31	Harmonic-balance analysis of digital frequency dividers. <i>IEEE Microwave and Wireless Components Letters</i> , 2002, 12, 287-289.	3.2	4
32	Analysis of nonlinear RF and microwave circuits using harmonic balance and system identification methods. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2002, 12, 448-459.	1.2	4
33	Calibrated noise figure measurements in vector network analyser. <i>Electronics Letters</i> , 2005, 41, 999.	1.0	3
34	Large-signal stability analysis of microwave amplifiers under complex modulated signals with time-varying envelope. , 2005, , .		3
35	In-Circuit Characterization of Low-Frequency Stability Margins in Power Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 822-833.	4.6	2
36	Efficient Calculation of Stabilization Parameters in RF Power Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 3686-3696.	4.6	2

#	ARTICLE	IF	CITATIONS
37	SSB Noise Figure Measurements of Frequency Translating Devices. , 2006, , .		1
38	Noise figure characterization. , 0, , 240-278.		1
39	Design, Construction, and Characterization of a Magic Angle Field Spinning RF Magnet. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4094-4103.	4.7	1
40	Characterization Technique to Reveal Critical Resonances in Nonlinear RF Circuits. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	1
41	Chaos analysis in a millimeter-wave self-oscillating mixer. , 1999, 9, 422-424.		0
42	Analysis and Synthesis of a Bipolar-based Circuit with Stochastic Resonance. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	0
43	Stability analysis of nonlinear circuits driven with modulated signals. , 2011, , .		0
44	Comparative analysis of receiver bandwidth effects on Y-factor and cold-source noise figure measurements. International Journal of Microwave and Wireless Technologies, 2013, 5, 659-667.	1.9	0
45	Characterization techniques for stability and noise in microwave amplifiers under large-signal excitations. , 2016, , .		0