

# Juan MarÃ-a Collantes Metola

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/966269/publications.pdf>

Version: 2024-02-01

45  
papers

678  
citations

759233

12  
h-index

610901

24  
g-index

45  
all docs

45  
docs citations

45  
times ranked

598  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization Technique to Reveal Critical Resonances in Nonlinear RF Circuits. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	1
2	Efficient Calculation of Stabilization Parameters in RF Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3686-3696.	4.6	2
3	Pole-Zero Identification: Unveiling the Critical Dynamics of Microwave Circuits Beyond Stability Analysis. IEEE Microwave Magazine, 2019, 20, 36-54.	0.8	13
4	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
5	In-Circuit Characterization of Low-Frequency Stability Margins in Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 822-833.	4.6	2
6	Characterization techniques for stability and noise in microwave amplifiers under large-signal excitations. , 2016, , .		0
7	Stability analysis of multistage power amplifiers using Multiple-Input Multiple-Output identification. , 2016, , .		8
8	Harmonic phases of the nanoparticle magnetization: An intrinsic temperature probe. Applied Physics Letters, 2015, 107, .	3.3	30
9	Experimental Control and Design of Low-Frequency Bias Networks for Dynamically Biased Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1923-1936.	4.6	6
10	Global Stability Analysis of Coupled-Oscillator Systems. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 165-180.	4.6	5
11	Specific absorption rate dependence on temperature in magnetic field hyperthermia measured by dynamic hysteresis losses (ac magnetometry). Nanotechnology, 2015, 26, 015704.	2.6	80
12	Combined control of drain video bandwidth and stability margins in power amplifiers for envelope tracking applications. , 2014, , .		6
13	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
14	Joint RF and large-signal stability optimization of MMIC power combining amplifiers. International Journal of Microwave and Wireless Technologies, 2013, 5, 683-688.	1.9	6
15	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
16	Specific Absorption Rate of Magnetite Nanoparticle Powders With and Without Surrounding Organic Ligands. Journal of Nanoscience and Nanotechnology, 2012, 12, 7451-7455.	0.9	5
17	Increasing low-frequency stability margins in microwave amplifiers from experimental data. , 2012, , .		5
18	Experimental Characterization of Stability Margins in Microwave Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 4145-4156.	4.6	11

#	ARTICLE	IF	CITATIONS
19	Stability analysis of microwave circuits. , 2012, , .		16
20	Vectorially Combined Distributed Power Amplifiers for Software-Defined Radio Applications. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3189-3200.	4.6	19
21	Stability analysis of nonlinear circuits driven with modulated signals. , 2011, , .		0
22	Systematic Approach to the Stabilization of Multitransistor Circuits. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2073-2082.	4.6	49
23	Stability Analysis of Nonlinear Circuits Driven With Modulated Signals. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 929-940.	4.6	10
24	Vectorially combined distributed power amplifier with load pull impedance determination. Electronics Letters, 2010, 46, 1137.	1.0	13
25	Parametric oscillations in distributed power amplifiers. Electronics Letters, 2009, 45, 1325.	1.0	9
26	Sensitivity Enhancement in Pole-Zero Identification Based Stability Analysis of Microwave Circuits. , 2008, , .		14
27	Characterization of Galileo signal correlation losses caused by non linear power amplification with memory. , 2008, , .		5
28	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
29	Cold-source measurements for noise figure calculation in spectrum analyzers. , 2006, , .		7
30	SSB Noise Figure Measurements of Frequency Translating Devices. , 2006, , .		1
31	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
32	Calibrated noise figure measurements in vector network analyser. Electronics Letters, 2005, 41, 999.	1.0	3
33	Large-signal stability analysis of microwave amplifiers under complex modulated signals with time-varying envelope. , 2005, , .		3
34	Control design in the harmonic domain for microwave and RF circuits. IET Control Theory and Applications, 2003, 150, 127-131.	1.7	14
35	Harmonic-balance analysis of digital frequency dividers. IEEE Microwave and Wireless Components Letters, 2002, 12, 287-289.	3.2	4
36	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

#	ARTICLE	IF	CITATIONS
37	Analysis of nonlinear RF and microwave circuits using harmonic balance and system identification methods. International Journal of RF and Microwave Computer-Aided Engineering, 2002, 12, 448-459.	1.2	4
38	Closed-loop stability analysis of microwave amplifiers. Electronics Letters, 2001, 37, 226.	1.0	146
39	A dynamical load-cycle charge model for RF power FETs. IEEE Microwave and Wireless Components Letters, 2001, 11, 296-298.	3.2	4
40	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
41	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
42	A new technique for chaos prediction in RF circuit design using harmonic-balance commercial simulators. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1999, 46, 1413-1415.	0.1	4
43	Chaos analysis in a millimeter-wave self-oscillating mixer. , 1999, 9, 422-424.		0
44	New measurement-based technique for RF LDMOS nonlinear modeling. , 1998, 8, 345-347.		11
45	Noise figure characterization. , 0, , 240-278.		1