Sergio Sancho

List of Publications by Year
in descending order

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68	731	623188	580395
papers	citations	14 h-index	25 g-index

68	68	68	343
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sampling techniques for the estimation of the annual equivalent noise level under urban traffic conditions. Applied Acoustics, 2003, 64, 43-53.	1.7	73
2	Analysis of Near-Carrier Phase-Noise Spectrum in Free-Running Oscillators in the Presence of White and Colored Noise Sources. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 587-601.	2.9	72
3	Phase-Noise Analysis of Injection-Locked Oscillators and Analog Frequency Dividers. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 393-407.	2.9	58
4	Analytical comparison between time- and frequency-domain techniques for phase-noise analysis. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 2353-2361.	2.9	40
5	Stability and Noise Analysis of Coupled-Oscillator Systems. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1032-1046.	2.9	37
6	Envelope Transient Analysis of Self-Oscillating Mixers. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 1090-1100.	2.9	31
7	Analysis of noise effects on the nonlinear dynamics of synchronized oscillators. IEEE Microwave and Wireless Components Letters, 2001, 11, 376-378.	2.0	30
8	Phase and Amplitude Noise Analysis in Microwave Oscillators Using Nodal Harmonic Balance. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1568-1583.	2.9	28
9	General Envelope-Transient Formulation of Phase-Locked Loops Using Three Time Scales. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 1310-1320.	2.9	26
10	Stability and Bifurcation Analysis of Self-Oscillating Quasi-Periodic Regimes. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 528-541.	2.9	25
11	Stability Analysis of Oscillation Modes in Quadruple-Push and Rucker's Oscillators. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2648-2661.	2.9	23
12	Stability Analysis of Power Amplifiers Under Output Mismatch Effects. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2273-2289.	2.9	18
13	Nonlinear dynamics of microwave synthesizers-stability and noise. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 1792-1803.	2.9	15
14	General Formulation for the Analysis of Injection-Locked Coupled-Oscillator Systems. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4730-4744.	2.9	15
15	General stabilization techniques for microwave oscillators. IEEE Microwave and Wireless Components Letters, 2005, 15, 868-870.	2.0	14
16	Analysis and reduction of the oscillator phase noise from the variance of the phase deviations, determined with harmonic balance. , 2008, , .		13
17	Sub-Harmonic and Rational Synchronization for Phase-Noise Improvement. , 2001, , .		11
18	Semi-analytical formulation for the analysis and reduction of injection-pulling in front-end oscillators. , 2009, , .		11

#	Article	IF	Citations
19	Generalized Stability Criteria for Power Amplifiers Under Mismatch Effects. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4415-4428.	2.9	11
20	Harmonic-balance technique for the shortening of the initial transient of microwave oscillators. , 2005, , .		10
21	Semi-analytical formulation for the stability analysis of coexisting solutions in coupled-oscillator systems. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	10
22	General Phase-Noise Analysis From the Variance of the Phase Deviation. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 472-481.	2.9	10
23	Stochastic Analysis of Cycle Slips in Injection-Locked Oscillators and Analog Frequency Dividers. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3318-3332.	2.9	10
24	Frequency-Domain Analysis of the Periodically-Forced Josephson-Junction Circuit. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 512-521.	3.5	10
25	Two-Scale Envelope-Domain Analysis of Injected Chirped Oscillators. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5449-5461.	2.9	10
26	Application of the envelope-transient method to the analysis and design of autonomous circuits. International Journal of RF and Microwave Computer-Aided Engineering, 2005, 15, 523-535.	0.8	9
27	Oscillation Modes in Multiresonant Oscillator Circuits. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4660-4675.	2.9	9
28	Noise Analysis of Super-Regenerative Oscillators in Linear and Nonlinear Modes. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4955-4965.	2.9	8
29	Analysis of Injection Pulling in Phase-Locked Loops With a New Modeling Technique. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1200-1214.	2.9	6
30	Stability and Phase-Noise Analysis of Pulsed Injection-Locked Oscillators. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 482-491.	2.9	6
31	Stability analysis of power amplifiers under mismatching effects. , 2013, , .		5
32	Global Stability Analysis of Coupled-Oscillator Systems. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 165-180.	2.9	5
33	Noise conversion of Schottky diodes in mm-wave detectors under different nonlinear regimes: modeling and simulation versus measurement. International Journal of Microwave and Wireless Technologies, 2016, 8, 479-493.	1.5	5
34	Growth-rate function for the nonlinear analysis of the transient dynamics of microwave oscillators. , 2016, , .		5
35	Effects of Noisy and Modulated Interferers on the Free-Running Oscillator Spectrum. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1831-1842.	2.9	5
36	Enabling efficient orienteering behavior in webmail clients. , 2007, , .		4

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37	Nonlinear analysis of pulsed injection-locked oscillators. , 2012, , .		4
38	Oscillation Modes in Free-Running Oscillators Loaded with Multi-Resonant Networks. , 2016, , .		4
39	Analysis of Chirped Oscillators Under Injection Signals. , 2018, , .		4
40	Analysis of the Transient Dynamics of Microwave Oscillators. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3562-3574.	2.9	4
41	Stabilization Techniques for Frequency Dividers. , 2006, , .		3
42	VCO Linearization Using Harmonic Balance. , 2006, , .		3
43	Time-Frequency Formulation for the Nonlinear Analysis of Coupled Phase-Locked Loops. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2838-2850.	2.9	3
44	Piecewise Semi-Analytical Formulation for the Analysis of Coupled-Oscillator Systems. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2259-2269.	2.9	3
45	Floquet analysis of the intermittence route to chaos through a pitchfork bifurcation. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2001, 48, 374-377.	0.1	2
46	Nonlinear analysis of phase noise in microwave oscillators using standard envelope transient technique. , 2008, , .		2
47	Explicit formulation for injection-locked coupled-oscillator systems. , 2013, , .		2
48	Coupled-oscillator systems: Efficient simulation with harmonic-balance based oscillator models. , 2014, , .		2
49	Stability criteria for power amplifiers under mismatch effects. , 2015, , .		2
50	Prediction of odd-mode instabilities under output mismatch effects. International Journal of Microwave and Wireless Technologies, 2017, 9, 1305-1315.	1.5	2
51	New methodologies for the analysis and synthesis of oscillator circuits. , 2018, , .		2
52	Stability and Oscillation Analysis at Circuit Level and Through Semi-Analytical Formulations. IEEE Journal of Microwaves, 2021, 1, 763-776.	4.9	2
53	Wireless Injection Locking of Zero-IF Self-Oscillating Mixers. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 836-849.	2.9	2
54	General phase-noise analysis from the variance of the phase deviation. , 2012, , .		1

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55	Nonlinear analysis of cycle slips in injection-locked oscillators. , 2014, , .		1
56	Coupled-oscillator system with two stable phase-shift intervals. , 2015, , .		1
57	Analysis of high-order sub-harmonically injection-locked oscillators. , 2019, , .		1
58	Analysis of high-order sub-harmonically injection-locked oscillators. International Journal of Microwave and Wireless Technologies, 2020, 12, 695-706.	1.5	1
59	Analysis of the Transient Dynamics of Coupled-Oscillator Systems. , 2020, , .		1
60	Envelope Domain Formulation for the Analysis of the Nonlinear Transient Dynamics of Coupled Oscillators. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 566-577.	2.9	1
61	Chaos in Si MMIC Oscillators. , 1999, , .		0
62	Software tool for the understanding of parametric oscillations. , 2009, , .		0
63	Nonlinear circuit stability under large-signal pumping: Three-port Î¼ stability factor versus conversion matrix system identification-application to a millimeter-wave band MMIC up-converter. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 711-720.	0.8	0
64	Stochastic characterization of the phase noise spectrum of coupled-oscillator circuits. , 2010, , .		0
65	Coupled-oscillator system with two stable phase-shift intervals. , 2015, , .		0
66	Prediction of odd-mode instabilities under output mismatch effects. , 2016, , .		0
67	Analysis of Output Loading Effects in Autonomous Circuits. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3135-3146.	2.9	0
68	Cyclostationary noise analysis of superregenerative oscillators. , 2019, , .		0