

Michele Bonnin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

297
citations

10
h-index

15
g-index

74
ext. papers

403
ext. citations

2.6
avg, IF

3.84
L-index

#	Paper	IF	Citations
46	Phase Noise and Noise Induced Frequency Shift in Stochastic Nonlinear Oscillators. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 2104-2115	3.9	29
45	Waves and patterns in ring lattices with delays. <i>Physica D: Nonlinear Phenomena</i> , 2009 , 238, 77-87	3.3	21
44	WEAKLY CONNECTED OSCILLATORY NETWORK MODELS FOR ASSOCIATIVE AND DYNAMIC MEMORIES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 4365-4379	2	21
43	Amplitude and phase dynamics of noisy oscillators. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 636-659	2	19
42	Harmonic Balance, Melnikov method and nonlinear oscillators under resonant perturbation. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 36, 247-274	2	19
41	Phase Space Decomposition for Phase Noise and Synchronization Analysis of Planar Nonlinear Oscillators. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2012 , 59, 638-642	3.5	17
40	Periodic Oscillations in Weakly Connected Cellular Nonlinear Networks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 1671-1684	3.9	16
39	ON GLOBAL DYNAMIC BEHAVIOR OF WEAKLY CONNECTED OSCILLATORY NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005 , 15, 1377-1393	2	14
38	Noise in oscillators: a review of state space decomposition approaches. <i>Journal of Computational Electronics</i> , 2015 , 14, 51-61	1.8	11
37	Influence of Noise on the Phase and Amplitude of Second-Order Oscillators. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2014 , 61, 158-162	3.5	11
36	Analysis of influence of nonlinearities and noise correlation time in a single-DOF energy-harvesting system via power balance description. <i>Nonlinear Dynamics</i> , 2020 , 100, 119-133	5	9
35	Leveraging circuit theory and nonlinear dynamics for the efficiency improvement of energy harvesting. <i>Nonlinear Dynamics</i> , 2021 , 104, 367-382	5	9
34	A mixed time-frequency-domain approach for the analysis of a hysteretic oscillator. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2005 , 52, 525-529		8
33	PHASE MODEL REDUCTION AND SYNCHRONIZATION OF PERIODICALLY FORCED NONLINEAR OSCILLATORS. <i>Journal of Circuits, Systems and Computers</i> , 2010 , 19, 749-762	0.9	7
32	On the Application of the Describing Function Technique to the Bifurcation Analysis of Nonlinear Systems. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2007 , 54, 343-347		7
31	BIFURCATIONS, STABILITY AND SYNCHRONIZATION IN DELAYED OSCILLATORY NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 4033-4048	2	7
30	Equivalent circuits for two-state quantum systems. <i>International Journal of Circuit Theory and Applications</i> , 2007 , 35, 265-280	2	6

29	Weakly connected oscillatory networks for dynamic pattern recognition 2005 ,		6
28	Equivalent circuits for small signal performance of spin \uparrow particles. <i>International Journal of Circuit Theory and Applications</i> , 2006 , 34, 165-182	2	5
27	Colored Noise in Oscillators. Phase-Amplitude Analysis and a Method to Avoid the itÉStratonovich Dilemma. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 3917-3927	3.9	4
26	Influence of Amplitude Fluctuations on the Noise-Induced Frequency Shift of Noisy Oscillators. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2016 , 63, 698-702	3.5	4
25	Phase noise, and phase models: Recent developments, new insights and open problems. <i>Nonlinear Theory and Its Applications IEICE</i> , 2014 , 5, 365-378	0.6	4
24	Basic concepts of quantum systems versus classical networks. <i>International Journal of Circuit Theory and Applications</i> , 2004 , 32, 383-405	2	4
23	An Impedance Matching Solution to Increase the Harvested Power and Efficiency of Nonlinear Piezoelectric Energy Harvesters. <i>Energies</i> , 2022 , 15, 2764	3.1	4
22	Efficient spectral domain technique for the frequency locking analysis of nonlinear oscillators. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	3
21	Phase oscillator model for noisy oscillators. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 3227-3233	3.3	3
20	PHASE MODEL REDUCTION AND PHASE LOCKING OF COUPLED NONLINEAR OSCILLATORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010 , 20, 645-656	2	3
19	Phase model reduction and synchronization of nonlinear oscillators by a periodic force 2009 ,		3
18	Emerging dynamics in neuronal networks of diffusively coupled hard oscillators. <i>Neural Networks</i> , 2011 , 24, 466-75	9.1	3
17	Existence, number, and stability of limit cycles in weakly dissipative, strongly nonlinear oscillators. <i>Nonlinear Dynamics</i> , 2010 , 62, 321-332	5	3
16	Horseshoe chaos and subharmonic orbits in the nanoelectromechanical Casimir nonlinear oscillator. <i>International Journal of Circuit Theory and Applications</i> , 2013 , 41, 583-602	2	2
15	MULTIPLE ATTRACTORS AND BIFURCATIONS IN HARD OSCILLATORS DRIVEN BY CONSTANT INPUTS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250267	2	2
14	Information and image processing through bio-inspired oscillatory cellular nonlinear networks		2
13	A mathematical framework for amplitude and phase noise analysis of coupled oscillators. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 171-186	2.3	2
12	Phase noise spectrum of oscillators described by Itô stochastic differential equations 2015 ,		1

11	Phase and amplitude dynamics of noisy oscillators described by Itô stochastic differential equations 2015,		1
10	An image cascaded two-port model for single-particle quantum propagation in crystals. <i>International Journal of Circuit Theory and Applications</i> , 2013 , 41, 552-562	2	1
9	Evaluating the influence of noise on the spectrum of an oscillator 2013,		1
8	A phase model approach for synchronization analysis of coupled nonlinear oscillators 2010,		1
7	Circuit models for small signal performance of nanodevices based on two-state quantum systems		1
6	The Complex World of Oscillator Noise: Modern Approaches to Oscillator (Phase and Amplitude) Noise Analysis. <i>IEEE Microwave Magazine</i> , 2021 , 22, 24-32	1.2	1
5	Logic Gates Implementation with Coupled Oscillators 2018,		1
4	On the application of circuit theory and nonlinear dynamics to the design of highly efficient energy harvesting systems 2021,		1
3	DILIBERTO'S THEOREM IN HIGHER DIMENSION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009 , 19, 629-637	2	0
2	Coupled Oscillator Networks for von Neumann and Non-von Neumann Computing. <i>Learning and Analytics in Intelligent Systems</i> , 2022 , 179-207	0.3	0
1	THE HARMONIC BALANCE TECHNIQUE ANALYSIS OF OPEN QUANTUM SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008 , 18, 1973-1982	2	