

Michele Bonnin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6753116/michele-bonnin-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
45	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
44	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
43	Leveraging circuit theory and nonlinear dynamics for the efficiency improvement of energy harvesting. <i>Nonlinear Dynamics</i> , 2021 , 104, 367-382	5	9
42	On the application of circuit theory and nonlinear dynamics to the design of highly efficient energy harvesting systems 2021 ,		1
41	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
40	Colored Noise in Oscillators. Phase-Amplitude Analysis and a Method to Avoid the itStratonovich Dilemma. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 3917-3927	3.9	4
39	Efficient spectral domain technique for the frequency locking analysis of nonlinear oscillators. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	3
38	Logic Gates Implementation with Coupled Oscillators 2018 ,		1
37	Amplitude and phase dynamics of noisy oscillators. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 636-659	2	19
36	Phase oscillator model for noisy oscillators. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 3227-3233	3.3	3
35	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
34	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
33	Noise in oscillators: a review of state space decomposition approaches. <i>Journal of Computational Electronics</i> , 2015 , 14, 51-61	1.8	11
32	Phase noise spectrum of oscillators described by Itô stochastic differential equations 2015 ,		1
31	Phase and amplitude dynamics of noisy oscillators described by Itô stochastic differential equations 2015 ,		1
30	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

29	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
28	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
27	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
26	Evaluating the influence of noise on the spectrum of an oscillator 2013 ,		1
25	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
24	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
23	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
22	Emerging dynamics in neuronal networks of diffusively coupled hard oscillators. <i>Neural Networks</i> , 2011 , 24, 466-75	9.1	3
21	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
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	A phase model approach for synchronization analysis of coupled nonlinear oscillators 2010 ,		1
18	Existence, number, and stability of limit cycles in weakly dissipative, strongly nonlinear oscillators. <i>Nonlinear Dynamics</i> , 2010 , 62, 321-332	5	3
17	Phase model reduction and synchronization of nonlinear oscillators by a periodic force 2009 ,		3
16	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
15	Waves and patterns in ring lattices with delays. <i>Physica D: Nonlinear Phenomena</i> , 2009 , 238, 77-87	3.3	21
14	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
13	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	
12	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

11	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
10	Equivalent circuits for two-state quantum systems. <i>International Journal of Circuit Theory and Applications</i> , 2007 , 35, 265-280	2	6
9	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
8	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
7	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
6	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
5	Weakly connected oscillatory networks for dynamic pattern recognition 2005 ,		6
4	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
3	Basic concepts of quantum systems versus classical networks. <i>International Journal of Circuit Theory and Applications</i> , 2004 , 32, 383-405	2	4
2	Circuit models for small signal performance of nanodevices based on two-state quantum systems		1
1	Information and image processing through bio-inspired oscillatory cellular nonlinear networks		2