Fernando FernÃ¡ndez-SÃ¡nchez

List of Publications by Year
in descending order

45 papers	537 citations	687363 13 h-index	752698 20 g-index
46 all docs	46 docs citations	46 times ranked	165 citing authors

#	ARTICLE	IF	CITATIONS
1	A new simple proof for Lumâ€“Chuaâ€™s conjecture. Nonlinear Analysis: Hybrid Systems, 2021, 40, 100992.	3.5	11
2	Integral characterization for PoincarÃ© half-maps in planar linear systems. Journal of Differential Equations, 2021, 305, 319-346.	2.2	6
3	Comments on â€œShilnikov chaos and Hopf bifurcation in three-dimensional differential systemâ€• Optik, 2018, 155, 251-256.	2.9	1
4	Including homoclinic connections and T-point heteroclinic cycles in the same global problem for a reversible family of piecewise linear systems. Applied Mathematics and Computation, 2017, 296, 33-41.	2.2	10
5	Comments on â€œAsymptotically stable equilibrium points in new chaotic systemsâ€• Nova Scientia, 2017, 9, 902-905.	0.1	0
6	Comment on â€œStudy on the reliable computation time of the numerical model using the sliding temporal correlation methodâ€• Theoretical and Applied Climatology, 2016, 126, 797-799.	2.8	0
7	Noose Structure and Bifurcations of Periodic Orbits in Reversible Three-Dimensional Piecewise Linear Differential Systems. Journal of Nonlinear Science, 2015, 25, 1209-1224.	2.1	4
8	Analysis of the T-point-Hopf bifurcation in the Lorenz system. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 676-691.	3.3	13
9	Comments on â€œInvariant algebraic surfaces of the generalized Lorenz systemâ€• Zeitschrift Fur Angewandte Mathematik Und Physik, 2015, 66, 1295-1297.	1.4	2
10	Comments on â€˜Global dynamics of the generalized Lorenz systems having invariant algebraic surfacesâ€™. Physica D: Nonlinear Phenomena, 2014, 266, 80-82.	2.8	11
11	Comments on â€œDynamics of the general Lorenz familyâ€•by Y. Liu and W. Pang. Nonlinear Dynamics, 2014, 76, 887-891.	5.2	3
12	On Darboux polynomials and rational first integrals of the generalized Lorenz system. Bulletin Des Sciences Mathematiques, 2014, 138, 317-322.	1.0	13
13	Comment on â€œExistence of heteroclinic and homoclinic orbits in two different chaotic dynamical systemsâ€•[Appl. Math. Comput. 218 (2012) 11859â€“11870]. Applied Mathematics and Computation, 2014, 244, 49-56.	2.2	6
14	Noose bifurcation and crossing tangency in reversible piecewise linear systems. Nonlinearity, 2014, 27, 585-606.	1.4	7
15	Comment on â€œA constructive proof on the existence of globally exponentially attractive set and positive invariant set of general Lorenz familyâ€• P. Yu, X.X. Liao, S.L. Xie, Y.L. Fu [Commun Nonlinear Sci Numer Simulat 14 (2009) 2886â€“2896]. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 758-761.	3.3	6
16	Centers on center manifolds in the Lorenz, Chen and LÃ¼ systems. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 772-775.	3.3	21
17	Comments on â€œNon-existence of Shilnikov chaos in continuous-time systemsâ€• Applied Mathematics and Mechanics (English Edition), 2013, 34, 1175-1176.	3.6	5
18	Chen's attractor exists if Lorenz repulsor exists: The Chen system is a special case of the Lorenz system. Chaos, 2013, 23, 033108.	2.5	40

#	Article	IF	Citations
19	The LÃ¼ system is a particular case of the Lorenz system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2771-2776.	2.1	35
20	Comments on the paper â€œChaotic motions of a two-dimensional airfoil with cubic nonlinearity in supersonic flowâ€• Aerospace Science and Technology, 2013, 28, 431-434.	4.8	4
21	Comment on â€˜Estimating the ultimate bound and positively invariant set for a synchronous motor and its application in chaos synchronizationâ€™ [Chaos, Solitons and Fractals 44 (2011) 137â€“144]. Chaos, Solitons and Fractals, 2013, 54, 159-161.	5.1	0
22	Comment on â€˜Åilnikov-type orbits of Lorenz-family systemsâ€™ [Physica A 375 (2007) 438â€“446]. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 4252-4257.	2.6	10
23	On Shilâ€™nikov Analysis of Homoclinic and Heteroclinic Orbits of the T System. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	1.2	11
24	Comment on â€˜Stability and chaos of a damped satellite partially filled with liquidâ€™ [Acta Astronautica 65 (2009) 1628â€“1638]. Acta Astronautica, 2012, 80, 36-39.	3.2	5
25	Reversible periodic orbits in a class of 3D continuous piecewise linear systems of differential equations. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 5866-5883.	1.1	10
26	Comments on â€œAnalysis and application of a novel three-dimensional energy-saving and emission-reduction dynamic evolution systemâ€•[Energy 40 (2012) 291â€“299]. Energy, 2012, 47, 630-633.	8.8	7
27	Rebuttal of â€œExistence of attractor and control of a 3D differential systemâ€•by Z. Wang. Nonlinear Dynamics, 2012, 69, 2289-2291.	5.2	7
28	Comment on â€œHeteroclinic orbits in Chen circuit with time delayâ€•[Commun. Nonlinear Sci. Numer. Simulat. 15 (2010) 3058â€“3066]. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 2708-2710.	3.3	19
29	Comment on â€œExistence of heteroclinic orbits of the ShilÊ¼nikov type in a 3D quadratic autonomous chaotic systemâ€•[J. Math. Anal. Appl. 315 (2006) 106â€“119]. Journal of Mathematical Analysis and Applications, 2012, 392, 99-101.	1.0	17
30	Comment on â€œSilâ€™nikov chaos of the Liu systemâ€•[Chaos 18, 013113 (2008)]. Chaos, 2011, 21, 048101.	2.5	16
31	Structure of saddle-node and cusp bifurcations of periodic orbits near a non-transversal T-point. Nonlinear Dynamics, 2011, 63, 455-476.	5.2	10
32	HOPF BIFURCATIONS AND THEIR DEGENERACIES IN CHUA'S EQUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2749-2763.	1.7	9
33	ANALYSIS OF THE T-POINTâ€“HOPF BIFURCATION WITH â„₂-SYMMETRY: APPLICATION TO CHUA'S EQUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 979-993.	1.7	4
34	Existence of homoclinic connections in continuous piecewise linear systems. Chaos, 2010, 20, 013124.	2.5	28
35	Analysis of the T-point-Hopf bifurcation. Physica D: Nonlinear Phenomena, 2008, 237, 292-305.	2.8	16
36	Existence of a Reversible T-Point Heteroclinic Cycle in a Piecewise Linear Version of the Michelson System. SIAM Journal on Applied Dynamical Systems, 2008, 7, 1032-1048.	1.6	34

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37	OPEN-TO-CLOSED CURVES OF SADDLE-NODE BIFURCATIONS OF PERIODIC ORBITS NEAR A NONTRANSVERSAL T-POINT IN CHUA'S EQUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2637-2647.	1.7	7
38	MULTIPARAMETRIC BIFURCATIONS IN AN ENZYME-CATALYZED REACTION MODEL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 905-947.	1.7	18
39	BI-SPIRALING HOMOCLINIC CURVES AROUND A T-POINT IN CHUA'S EQUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1789-1793.	1.7	13
40	A model for the analysis of the dynamical consequences of a nontransversal intersection of the two-dimensional manifolds involved in a T-point. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 320, 169-179.	2.1	10
41	CLOSED CURVES OF GLOBAL BIFURCATIONS IN CHUA'S EQUATION: A MECHANISM FOR THEIR FORMATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 609-616.	1.7	14
42	OSCILLATION-SLIDING IN A MODIFIED VAN DER POLâ€“DUFFING ELECTRONIC OSCILLATOR. Journal of Sound and Vibration, 2002, 249, 899-907.	3.9	17
43	Nontransversal curves of T-points: a source of closed curves of global bifurcations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 303, 204-211.	2.1	16
44	T-Points in a Z2-Symmetric Electronic Oscillator. (I) Analysis. Nonlinear Dynamics, 2002, 28, 53-69.	5.2	30
45	Isolas, cusps and global bifurcations in an electronic oscillator. Dynamical Systems, 1997, 12, 319-336.	0.7	10