

Fernando Fernández-Sánchez

List of Publications by Year in descending order

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45
papers

537
citations

687363

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752698

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46
all docs

46
docs citations

46
times ranked

165
citing authors

#	ARTICLE	IF	CITATIONS
1	Chen's attractor exists if Lorenz repulsor exists: The Chen system is a special case of the Lorenz system. <i>Chaos</i> , 2013, 23, 033108.	2.5	40
2	The $L\frac{1}{4}$ system is a particular case of the Lorenz system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 2771-2776.	2.1	35
3	Existence of a Reversible T-Point Heteroclinic Cycle in a Piecewise Linear Version of the Michelson System. <i>SIAM Journal on Applied Dynamical Systems</i> , 2008, 7, 1032-1048.	1.6	34
4	T-Points in a Z2-Symmetric Electronic Oscillator. (I) Analysis. <i>Nonlinear Dynamics</i> , 2002, 28, 53-69.	5.2	30
5	Existence of homoclinic connections in continuous piecewise linear systems. <i>Chaos</i> , 2010, 20, 013124.	2.5	28
6	Centers on center manifolds in the Lorenz, Chen and $L\frac{1}{4}$ systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 772-775.	3.3	21
7	Comment on "Heteroclinic orbits in Chen circuit with time delay" [Commun. Nonlinear Sci. Numer. Simulat. 15 (2010) 3058-3066]. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 2708-2710.	3.3	19
8	MULTIPARAMETRIC BIFURCATIONS IN AN ENZYME-CATALYZED REACTION MODEL. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 905-947.	1.7	18
9	OSCILLATION-SLIDING IN A MODIFIED VAN DER POL-DUFFING ELECTRONIC OSCILLATOR. <i>Journal of Sound and Vibration</i> , 2002, 249, 899-907.	3.9	17
10	Comment on "Existence of heteroclinic orbits of the Shilnikov type in a 3D quadratic autonomous chaotic system" [J. Math. Anal. Appl. 315 (2006) 106-119]. <i>Journal of Mathematical Analysis and Applications</i> , 2012, 392, 99-101.	1.0	17
11	Nontransversal curves of T-points: a source of closed curves of global bifurcations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 303, 204-211.	2.1	16
12	Analysis of the T-point-Hopf bifurcation. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 292-305.	2.8	16
13	Comment on "Silnikov chaos of the Liu system" [Chaos 18, 013113 (2008)]. <i>Chaos</i> , 2011, 21, 048101.	2.5	16
14	CLOSED CURVES OF GLOBAL BIFURCATIONS IN CHUA'S EQUATION: A MECHANISM FOR THEIR FORMATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003, 13, 609-616.	1.7	14
15	BI-SPIRALING HOMOCLINIC CURVES AROUND A T-POINT IN CHUA'S EQUATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004, 14, 1789-1793.	1.7	13
16	On Darboux polynomials and rational first integrals of the generalized Lorenz system. <i>Bulletin Des Sciences Mathematiques</i> , 2014, 138, 317-322.	1.0	13
17	Analysis of the T-point-Hopf bifurcation in the Lorenz system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 676-691.	3.3	13
18	On Shilnikov Analysis of Homoclinic and Heteroclinic Orbits of the T System. <i>Journal of Computational and Nonlinear Dynamics</i> , 2013, 8, .	1.2	11

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19	Comments on "Global dynamics of the generalized Lorenz systems having invariant algebraic surfaces". Physica D: Nonlinear Phenomena, 2014, 266, 80-82.	2.8	11
20	A new simple proof for Lumë"Chua"™s conjecture. Nonlinear Analysis: Hybrid Systems, 2021, 40, 100992.	3.5	11
21	Isolas, cusps and global bifurcations in an electronic oscillator. Dynamical Systems, 1997, 12, 319-336.	0.7	10
22	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
23	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
24	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
25	Comment on "Šilnikov-type orbits of Lorenz-family systems" [Physica A 375 (2007) 438-446]. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 4252-4257.	2.6	10
26	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
27	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
28	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
29	Comments on "œAnalysis and application of a novel three-dimensional energy-saving and emission-reduction dynamic evolution system" [Energy 40 (2012) 291-299]. Energy, 2012, 47, 630-633.	8.8	7
30	Rebuttal of "œExistence of attractor and control of a 3D differential system" by Z. Wang. Nonlinear Dynamics, 2012, 69, 2289-2291.	5.2	7
31	Noose bifurcation and crossing tangency in reversible piecewise linear systems. Nonlinearity, 2014, 27, 585-606.	1.4	7
32	Comment on "œExistence of heteroclinic and homoclinic orbits in two different chaotic dynamical systems" [Appl. Math. Comput. 218 (2012) 11859-11870]. Applied Mathematics and Computation, 2014, 244, 49-56.	4.2	6
33	Comment on "œA constructive proof on the existence of globally exponentially attractive set and positive invariant set of general Lorenz family", P. Yu, X.X. Liao, S.L. Xie, Y.L. Fu [Commun Nonlinear Sci Numer Simulat 14 (2009) 2886-2896]. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 758-761.	3.3	6
34	Integral characterization for Poincaré half-maps in planar linear systems. Journal of Differential Equations, 2021, 305, 319-346.	2.2	6
35	Comment on "œStability and chaos of a damped satellite partially filled with liquid" [Acta Astronautica 65 (2009) 1628-1638]. Acta Astronautica, 2012, 80, 36-39.	3.2	5
36	Comments on "œNon-existence of Shilnikov chaos in continuous-time systems" Applied Mathematics and Mechanics (English Edition), 2013, 34, 1175-1176.	3.6	5

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37	ANALYSIS OF THE T-POINTâ€“HOPF BIFURCATION WITH \mathbb{Z}_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
38	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
39	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
40	Comments on â€œDynamics of the general Lorenz familyâ€•by Y. Liu and W. Pang. Nonlinear Dynamics, 2014, 76, 887-891.	5.2	3
41	Comments on â€œInvariant algebraic surfaces of the generalized Lorenz systemâ€• Zeitschrift Fur Angewandte Mathematik Und Physik, 2015, 66, 1295-1297.	1.4	2
42	Comments on â€œShilnikov chaos and Hopf bifurcation in three-dimensional differential systemâ€• Optik, 2018, 155, 251-256.	2.9	1
43	Comment on â€œEstimating 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
44	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
45	Comments on â€œAsymptotically stable equilibrium points in new chaotic systemsâ€• Nova Scientia, 2017, 9, 902-905.	0.1	0