

Marcelo Messias

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8267815/publications.pdf>

Version: 2024-02-01

38
papers

563
citations

759233

12
h-index

642732

23
g-index

38
all docs

38
docs citations

38
times ranked

295
citing authors

#	ARTICLE	IF	CITATIONS
1	HOPF BIFURCATION FROM LINES OF EQUILIBRIA WITHOUT PARAMETERS IN MEMRISTOR OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 437-450.	1.7	70
2	Global dynamics of the Rikitake system. Physica D: Nonlinear Phenomena, 2009, 238, 241-252.	2.8	63
3	Dynamics at infinity and the existence of singularly degenerate heteroclinic cycles in the Lorenz system. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 115101.	2.1	60
4	On the global dynamics of the Rabinovich system. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 275210.	2.1	56
5	Bifurcation analysis of a new Lorenz-like chaotic system. Chaos, Solitons and Fractals, 2008, 37, 1244-1255.	5.1	49
6	GLOBAL DYNAMICS OF THE LORENZ SYSTEM WITH INVARIANT ALGEBRAIC SURFACES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 3137-3155.	1.7	39
7	GLOBAL DYNAMICS IN THE POINCARÉ BALL OF THE CHEN SYSTEM HAVING INVARIANT ALGEBRAIC SURFACES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250154.	1.7	26
8	On the formation of hidden chaotic attractors and nested invariant tori in the Sprott A system. Nonlinear Dynamics, 2017, 88, 807-821.	5.2	26
9	DEGENERATE HOPF BIFURCATIONS IN CHUA'S SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 497-515.	1.7	22
10	On the existence of periodic orbits and KAM tori in the Sprott A system: a special case of the Nosé-Hoover oscillator. Nonlinear Dynamics, 2018, 92, 1287-1297.	5.2	21
11	Bifurcations Leading to Nonlinear Oscillations in a 3D Piecewise Linear Memristor Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1430001.	1.7	18
12	Bifurcation Analysis of a Van der Pol-Duffing Circuit with Parallel Resistor. Mathematical Problems in Engineering, 2009, 2009, 1-26.	1.1	13
13	DYNAMICS AT INFINITY OF A CUBIC CHUA'S SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 333-340.	1.7	13
14	Dynamics at infinity and other global dynamical aspects of Shimizu-Morioka equations. Nonlinear Dynamics, 2012, 69, 577-587.	5.2	9
15	Global dynamics of stationary solutions of the extended Fisher-Kolmogorov equation. Journal of Mathematical Physics, 2011, 52, 112701.	1.1	8
16	Normal Forms for Polynomial Differential Systems in \mathbb{R}^3 Having an Invariant Quadric and a Darboux Invariant. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550015.	1.7	7
17	Time-periodic perturbation of a Liénard equation with an unbounded homoclinic loop. Physica D: Nonlinear Phenomena, 2011, 240, 1402-1409.	2.8	6
18	Darboux invariants for planar polynomial differential systems having an invariant conic. Zeitschrift Fur Angewandte Mathematik Und Physik, 2014, 65, 1127-1136.	1.4	6

#	ARTICLE	IF	CITATIONS
19	Hopf Bifurcation, Cascade of Period-Doubling, Chaos, and the Possibility of Cure in a 3D Cancer Model. <i>Abstract and Applied Analysis</i> , 2015, 2015, 1-11.	0.7	6
20	Bifurcations at infinity, invariant algebraic surfaces, homoclinic and heteroclinic orbits and centers of a new Lorenz-like chaotic system. <i>Nonlinear Dynamics</i> , 2016, 84, 703-713.	5.2	6
21	Integrability and Dynamics of Quadratic Three-Dimensional Differential Systems Having an Invariant Paraboloid. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650134.	1.7	5
22	Determination of Nonchaotic Behavior for Some Classes of Polynomial Jerk Equations. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020, 30, 2050117.	1.7	5
23	Zero-Hopf Bifurcations in Three-Dimensional Chaotic Systems with One Stable Equilibrium. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020, 30, 2050189.	1.7	5
24	Global Dynamics and Bifurcation of Periodic Orbits in a Modified Nosé-Hoover Oscillator. <i>Journal of Dynamical and Control Systems</i> , 2021, 27, 491-506.	0.8	5
25	Large amplitude oscillations for a class of symmetric polynomial differential systems in \mathbb{R}^3 . <i>Anais Da Academia Brasileira De Ciencias</i> , 2007, 79, 563-575.	0.8	4
26	Periodic Orbits, Invariant Tori and Chaotic Behavior in Certain Nonequilibrium Quadratic Three-Dimensional Differential Systems. <i>Studies in Systems, Decision and Control</i> , 2018, , 299-326.	1.0	3
27	Normal forms and global phase portraits of quadratic and cubic integrable vector fields having two nonconcentric circles as invariant algebraic curves. <i>Dynamical Systems</i> , 2017, 32, 374-390.	0.4	2
28	Nonchaotic Behavior in Quadratic Three-Dimensional Differential Systems with a Symmetric Jacobian Matrix. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018, 28, 1830006.	1.7	2
29	Local-Activity and Simultaneous Zero-Hopf Bifurcations Leading to Multistability in a Memristive Circuit. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021, 31, .	1.7	2
30	Periodic perturbations of quadratic planar polynomial vector fields. <i>Anais Da Academia Brasileira De Ciencias</i> , 2002, 74, 193-198.	0.8	1
31	Nonlinear Systems: Asymptotic Methods, Stability, Chaos, Control, and Optimization. <i>Mathematical Problems in Engineering</i> , 2011, 2011, 1-4.	1.1	1
32	Quadratic three-dimensional differential systems having invariant planes with total multiplicity nine. <i>Rendiconti Del Circolo Matematico Di Palermo</i> , 2018, 67, 569-580.	1.3	1
33	Polynomial Differential Systems in \mathbb{R}^3 Having Invariant Weighted Homogeneous Surfaces. <i>Bulletin of the Brazilian Mathematical Society</i> , 2018, 49, 137-157.	0.8	1
34	Periodic perturbation of quadratic systems with two infinite heteroclinic cycles. <i>Discrete and Continuous Dynamical Systems</i> , 2012, 32, 1881-1899.	0.9	1
35	The Occurrence of Zero-Hopf Bifurcation in a Generalized Sprott A System. , 2020, , 157-165.		1
36	Subharmonic bifurcations near infinity. <i>Qualitative Theory of Dynamical Systems</i> , 2004, 5, 301-336.	1.7	0

#	ARTICLE	IF	CITATIONS
37	On the Existence of Limit Cycles and Relaxation Oscillations in a 3D van der Pol-like Memristor Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750102.	1.7	0
38	Nonchaotic behavior and transition to chaos in Lorenz-like systems having invariant algebraic surfaces. Chaos Theory and Applications; 0, , .	2.6	0