

# Marcelo Messias

## List of Publications by Year in descending order

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38  
papers

563  
citations

759233

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docs citations

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times ranked

295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Dynamics and Bifurcation of Periodic Orbits in a Modified Nos $\hat{c}$ -Hoover Oscillator. Journal of Dynamical and Control Systems, 2021, 27, 491-506.	0.8	5
2	Local-Activity and Simultaneous Zero-Hopf Bifurcations Leading to Multistability in a Memristive Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	1.7	2
3	Determination of Nonchaotic Behavior for Some Classes of Polynomial Jerk Equations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050117.	1.7	5
4	Zero $\hat{c}$ -Hopf Bifurcations in Three-Dimensional Chaotic Systems with One Stable Equilibrium. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050189.	1.7	5
5	The Occurrence of Zero-Hopf Bifurcation in a Generalized Sprott A System. , 2020, , 157-165.		1
6	On the existence of periodic orbits and KAM tori in the Sprott A system: a special case of the Nos $\hat{c}$ -Hoover oscillator. Nonlinear Dynamics, 2018, 92, 1287-1297.	5.2	21
7	Nonchaotic Behavior in Quadratic Three-Dimensional Differential Systems with a Symmetric Jacobian Matrix. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830006.	1.7	2
8	Quadratic three-dimensional differential systems having invariant planes with total multiplicity nine. Rendiconti Del Circolo Matematico Di Palermo, 2018, 67, 569-580.	1.3	1
9	Polynomial Differential Systems in $\mathbb{R}^3$ Having Invariant Weighted Homogeneous Surfaces. Bulletin of the Brazilian Mathematical Society, 2018, 49, 137-157.	0.8	1
10	Periodic Orbits, Invariant Tori and Chaotic Behavior in Certain Nonequilibrium Quadratic Three-Dimensional Differential Systems. Studies in Systems, Decision and Control, 2018, , 299-326.	1.0	3
11	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
12	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
13	Normal forms and global phase portraits of quadratic and cubic integrable vector fields having two nonconcentric circles as invariant algebraic curves. Dynamical Systems, 2017, 32, 374-390.	0.4	2
14	Integrability and Dynamics of Quadratic Three-Dimensional Differential Systems Having an Invariant Paraboloid. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650134.	1.7	5
15	Bifurcations at infinity, invariant algebraic surfaces, homoclinic and heteroclinic orbits and centers of a new Lorenz-like chaotic system. Nonlinear Dynamics, 2016, 84, 703-713.	5.2	6
16	Hopf Bifurcation, Cascade of Period-Doubling, Chaos, and the Possibility of Cure in a 3D Cancer Model. Abstract and Applied Analysis, 2015, 2015, 1-11.	0.7	6
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Darboux invariants for planar polynomial differential systems having an invariant conic. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2014, 65, 1127-1136.	1.4	6
20	GLOBAL DYNAMICS IN THE POINCARÉ BALL OF THE CHEN SYSTEM HAVING INVARIANT ALGEBRAIC SURFACES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012, 22, 1250154.	1.7	26
21	Dynamics at infinity and other global dynamical aspects of Shimizu's Morioka equations. <i>Nonlinear Dynamics</i> , 2012, 69, 577-587.	5.2	9
22	Periodic perturbation of quadratic systems with two infinite heteroclinic cycles. <i>Discrete and Continuous Dynamical Systems</i> , 2012, 32, 1881-1899.	0.9	1
23	Time-periodic perturbation of a Liénard equation with an unbounded homoclinic loop. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 1402-1409.	2.8	6
24	Global dynamics of stationary solutions of the extended Fisher-Kolmogorov equation. <i>Journal of Mathematical Physics</i> , 2011, 52, 112701.	1.1	8
25	DYNAMICS AT INFINITY OF A CUBIC CHUA'S SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 333-340.	1.7	13
26	Nonlinear Systems: Asymptotic Methods, Stability, Chaos, Control, and Optimization. <i>Mathematical Problems in Engineering</i> , 2011, 2011, 1-4.	1.1	1
27	GLOBAL DYNAMICS OF THE LORENZ SYSTEM WITH INVARIANT ALGEBRAIC SURFACES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010, 20, 3137-3155.	1.7	39
28	HOPF BIFURCATION FROM LINES OF EQUILIBRIA WITHOUT PARAMETERS IN MEMRISTOR OSCILLATORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010, 20, 437-450.	1.7	70
29	Bifurcation Analysis of a Van der Pol-Duffing Circuit with Parallel Resistor. <i>Mathematical Problems in Engineering</i> , 2009, 2009, 1-26.	1.1	13
30	DEGENERATE HOPF BIFURCATIONS IN CHUA'S SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009, 19, 497-515.	1.7	22
31	Dynamics at infinity and the existence of singularly degenerate heteroclinic cycles in the Lorenz system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 115101.	2.1	60
32	Global dynamics of the Rikitake system. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 241-252.	2.8	63
33	Bifurcation analysis of a new Lorenz-like chaotic system. <i>Chaos, Solitons and Fractals</i> , 2008, 37, 1244-1255.	5.1	49
34	On the global dynamics of the Rabinovich system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 275210.	2.1	56
35	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
36	Subharmonic bifurcations near infinity. <i>Qualitative Theory of Dynamical Systems</i> , 2004, 5, 301-336.	1.7	0

#	ARTICLE	IF	CITATIONS
37	Periodic perturbations of quadratic planar polynomial vector fields. Anais Da Academia Brasileira De Ciencias, 2002, 74, 193-198.	0.8	1
38	Nonchaotic behavior and transition to chaos in Lorenz-like systems having invariant algebraic surfaces. Chaos Theory and Applications:, 0, , .	2.6	0