Clodoaldo Grotta Ragazzo

List of Publications by Year
in descending order

44 papers	566 citations	687220 13 h-index	677027 22 g-index
45 all docs	45 docs citations	45 times ranked	248 citing authors

#	Article	IF	Citations
1	Effect of delay on the boundary of the basin of attraction in a system of two neurons. Neural Networks, 1998, 11, 509-519.	3.3	66
2	Transient regime duration in continuous-time neural networks with delay. Physical Review E, 1998, 58, 3623-3627.	0.8	52
3	Irregular dynamics and homoclinic orbits to Hamiltonian saddle centers. Communications on Pure and Applied Mathematics, 1997, 50, 105-147.	1.2	46
4	Transient oscillations in continuous-time excitatory ring neural networks with delay. Physical Review E, 1997, 55, 3234-3248.	0.8	44
5	Nonintegrability of some Hamiltonian systems, scattering and analytic continuation. Communications in Mathematical Physics, 1994, 166, 255-277.	1.0	33
6	On the motion of two-dimensional vortices with mass. Journal of Nonlinear Science, 1994, 4, 375-418.	1.0	23
7	On the Stability of Double Homoclinic Loops. Communications in Mathematical Physics, 1997, 184, 251-272.	1.0	23
8	Effect of Delay on the Boundary of the Basin of Attraction in a Self-Excited Single Graded-Response Neuron. Neural Computation, 1997, 9, 319-336.	1.3	22
9	On steady states in a collisionless plasma. Communications on Pure and Applied Mathematics, 1996, 49, 1145-1174.	1.2	21
10	Metastability for delayed differential equations. Physical Review E, 1999, 60, 6230-6233.	0.8	19
11	Andrade rheology in time-domain. Application to Enceladus' dissipation of energy due to forced libration. Icarus, 2020, 343, 113610.	1.1	18
12	Viscoelastic tides: models for use in Celestial Mechanics. Celestial Mechanics and Dynamical Astronomy, 2017, 128, 19-59.	0.5	17
13	Dynamic Mean Flow and Small-Scale Interaction through Topographic Stress. Journal of Nonlinear Science, 1999, 9, 89-130.	1.0	15
14	Stability of homoclinic orbits and diffusion in phase space. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 230, 183-189.	0.9	12
15	On the force and torque on systems of rigid bodies: A remark on an integral formula due to Howe. Physics of Fluids, 2007, 19, 057108.	1.6	12
16	Equatorial dynamics of charged particles in planetary magnetospheres. Physica D: Nonlinear Phenomena, 2007, 225, 169-183.	1.3	11
17	Dynamics of an isolated, viscoelastic, self-gravitating body. Celestial Mechanics and Dynamical Astronomy, 2015, 122, 303-332.	0.5	11
18	Two important numbers in the Hénon-Heiles dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 241, 35-40.	0.9	10

#	Article	IF	Citations
19	Singularity structure of the Hopf bifurcation surface of a differential equation with two delays. Journal of Dynamics and Differential Equations, 1992, 4, 617-650.	1.0	8
20	An explicit Lyapunov function for reflection symmetric parabolic partial differential equations on the circle. Russian Mathematical Surveys, 2014, 69, 419-433.	0.2	8
21	Hydrodynamic Vortex on Surfaces. Journal of Nonlinear Science, 2017, 27, 1609-1640.	1.0	8
22	The effects of deformation inertia (kinetic energy) in the orbital and spin evolution of close-in bodies. Celestial Mechanics and Dynamical Astronomy, 2018, 130, 1.	0.5	8
23	On the stability of some periodic orbits of a new type for twist maps. Nonlinearity, 2002, 15, 1385-1397.	0.6	7
24	On the dynamics of turret systems in deep water. Applied Ocean Research, 2003, 25, 37-51.	1.8	7
25	Scalar Autonomous Second Order Ordinary Differential Equations. Qualitative Theory of Dynamical Systems, 2012, 11, 277-415.	0.8	7
26	Metastable Periodic Patterns in Singularly Perturbed Delayed Equations. Journal of Dynamics and Differential Equations, 2010, 22, 203-252.	1.0	6
27	BIFURCATION STRUCTURE OF SCALAR DIFFERENTIAL DELAYED EQUATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1991, 01, 657-665.	0.7	5
28	Dynamics of many bodies in a liquid: Added-mass tensor of compounded bodies and systems with a fast oscillating body. Physics of Fluids, 2002, 14, 1590-1600.	1.6	5
29	The Conley–Zehnder index and the saddle-center equilibrium. Journal of Differential Equations, 2006, 220, 259-278.	1.1	5
30	Metastable periodic patterns in singularly perturbed state-dependent delayed equations. Physica D: Nonlinear Phenomena, 2014, 271, 48-63.	1.3	5
31	The theory of figures of Clairaut with focus on the gravitational modulus: inequalities and an improvement in the Darwin–Radau equation. Sao Paulo Journal of Mathematical Sciences, 2020, 14, 1-48.	0.2	5
32	Chaos and integrability in a nonlinear wave equation. Journal of Dynamics and Differential Equations, 1994, 6, 227-244.	1.0	4
33	CHAOTIC OSCILLATIONS OF A BUCKLED BEAM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1995, 05, 545-549.	0.7	4
34	Conservative dynamics: unstable sets for saddle-center loops. Journal of Differential Equations, 2004, 197, 118-146.	1.1	4
35	Asymptotic behavior of irreducible excitatory networks of analog graded-response neurons. IEEE Transactions on Neural Networks, 1999, 10, 1375-1381.	4.8	3
36	Critical number in scattering and escaping problems in classical mechanics. Physical Review E, 2001, 64, 046216.	0.8	3

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37	On the Motion of Solids Through an Ideal Liquid: Approximated Equations for Many Body Systems. SIAM Journal on Applied Mathematics, 2003, 63, 1972-1997.	0.8	3
38	Global surfaces of section in non-regular convex energy levels of Hamiltonian systems. Mathematische Zeitschrift, 2006, 255, 323-334.	0.4	2
39	The motion of a vortex on a closed surface of constant negative curvature. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170447.	1.0	2
40	Librations of a body composed of a deformable mantle and a fluid core. Celestial Mechanics and Dynamical Astronomy, 2022, 134, 1.	0.5	1
41	Errata and Addenda to: â€œHydrodynamic Vortex on Surfacesâ€•and â€œThe Motion of a Vortex on a Closed Surface of Constant Negative Curvatureâ€• Journal of Nonlinear Science, 2022, 32, .	1.0	1
42	Plane fields related to vector fields on 3-manifolds. Qualitative Theory of Dynamical Systems, 2004, 4, 353-382.	0.8	0
43	Waldyr Muniz Oliva and the â€œSTABILITY OF MORSE-SMALE MAPSâ€• Sao Paulo Journal of Mathematical Sciences, 0, , 1.	0.2	0
44	Opening Note: The Golden Jubilee of the Institute of Mathematics and Statistics of the University of SÃ£o Paulo. Sao Paulo Journal of Mathematical Sciences, 0, , 1.	0.2	0