Claudio Buzzi

List of Publications by Year in descending order

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759233 677142 40 510 12 22 h-index citations g-index papers 40 40 40 230 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Piecewise linear perturbations of a linear center. Discrete and Continuous Dynamical Systems, 2013, 33, 3915-3936.	0.9	111
2	A singular approach to discontinuous vector fields on the plane. Journal of Differential Equations, 2006, 231, 633-655.	2.2	67
3	Birth of limit cycles bifurcating from a nonsmooth center. Journal Des Mathematiques Pures Et Appliquees, 2014, 102, 36-47.	1.6	30
4	Generic bifurcation of refracted systems. Advances in Mathematics, 2013, 234, 653-666.	1.1	26
5	3-dimensional Hopf bifurcation via averaging theory. Discrete and Continuous Dynamical Systems, 2007, 17, 529-540.	0.9	25
6	Melnikov analysis in nonsmooth differential systems with nonlinear switching manifold. Journal of Differential Equations, 2019, 267, 3748-3767.	2.2	23
7	On Poincar \tilde{A} ©-Bendixson Theorem and non-trivial minimal sets in planar nonsmooth vector fields. Publicacions Matematiques, 2018, 62, 113-131.	0.5	21
8	Phase Portraits of Reversible Linear Differential Systems with Cubic Homogeneous Polynomial Nonlinearities Having a Non-degenerate Center at the Origin. Qualitative Theory of Dynamical Systems, 2009, 7, 369-403.	1.7	20
9	Hopf and zero-Hopf bifurcations in the Hindmarsh–Rose system. Nonlinear Dynamics, 2016, 83, 1549-1556.	5. 2	19
10	Closed poly-trajectories and Poincaré index of non-smooth vector fields on the plane. Journal of Dynamical and Control Systems, 2013, 19, 173-193.	0.8	17
11	overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.w3.org/1998/Math/MathML"	1.0	13
12	Chaotic planar piecewise smooth vector fields with non-trivial minimal sets. Ergodic Theory and Dynamical Systems, 2016, 36, 458-469.	0.6	12
13	Bifurcation of limit cycles from a centre in â,,4in resonance 1:N. Dynamical Systems, 2009, 24, 123-137.	0.4	11
14	Limit cycles in 4-star-symmetric planar piecewise linear systems. Journal of Differential Equations, 2020, 268, 2414-2434.	2.2	11
15	Hopf-zero bifurcations of reversible vector fields. Nonlinearity, 2001, 14, 623-638.	1.4	10
16	Reversible Equivariant Hopf Bifurcation. Archive for Rational Mechanics and Analysis, 2005, 175, 39-84.	2.4	10
17	ON THREE-PARAMETER FAMILIES OF FILIPPOV SYSTEMS — THE FOLD–SADDLE SINGULARITY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250291.	1.7	10
18	On 3-Parameter Families of Piecewise Smooth Vector Fields in the Plane. SIAM Journal on Applied Dynamical Systems, 2012, 11, 1402-1424.	1.6	10

#	Article	IF	CITATIONS
19	Slow–fast systems on algebraic varieties bordering piecewise-smooth dynamical systems. Bulletin Des Sciences Mathematiques, 2012, 136, 444-462.	1.0	9
20	Limit cycles via higher order perturbations for some piecewise differential systems. Physica D: Nonlinear Phenomena, 2018, 371, 28-47.	2.8	8
21	Singular perturbation problems for time-reversible systems. Proceedings of the American Mathematical Society, 2005, 133, 3323-3331.	0.8	8
22	Algebraic Limit Cycles in Piecewise Linear Differential Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850039.	1.7	6
23	Time-Reversible Hamiltonian Vector Fields with Symplectic Symmetries. Journal of Dynamics and Differential Equations, 2004, 16, 559-574.	1.9	5
24	On the dynamics of the Bianchi IX system. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 7187-7192.	2.1	5
25	On the limit cycles of a class of piecewise linear differential systems in with two zones. Mathematics and Computers in Simulation, 2011, 82, 533-539.	4.4	5
26	Final evolutions of a class of May-Leonard Lotka-Volterra systems. Journal of Nonlinear Mathematical Physics, 2020, 27, 267.	1.3	5
27	Hopf bifurcation in the full repressilator equations. Mathematical Methods in the Applied Sciences, 2015, 38, 1428-1436.	2.3	3
28	Peixoto $\hat{E}^1\!\!/\!\!4$ s Theorem for vector fields on S2 with impasse points. Bulletin Des Sciences Mathematiques, 2013, 137, 691-704.	1.0	2
29	Quadratic Planar Systems with Two Parallel Invariant Straight Lines. Qualitative Theory of Dynamical Systems, 2009, 7, 295-316.	1.7	1
30	On the periodic solutions of the static, spherically symmetric Einstein-Yang-Mills equations. Journal of Mathematical Physics, 2012, 53, 122703.	1.1	1
31	Discussion on the limit cycles of the Lev Ginzburg equation by M. Bellamy and R.E. Mickens, Journal of Sound and Vibration 308 (2007) 337–342. Journal of Sound and Vibration, 2012, 331, 5168-5170.	3.9	1
32	No periodic orbits for the type A Bianchi's systems. Journal of Nonlinear Mathematical Physics, 2015, 22, 170.	1.3	1
33	Bifurcation of limit cycles from a non-smooth perturbation of a two-dimensional isochronous cylinder. Bulletin Des Sciences Mathematiques, 2016, 140, 519-540.	1.0	1
34	Center boundaries for planar piecewise-smooth differential equations with two zones. Journal of Mathematical Analysis and Applications, 2017, 445, 631-649.	1.0	1
35	Periodic orbits of a Hamiltonian system related with the Friedmann–Robertson–Walker system in rotating coordinates. Physica D: Nonlinear Phenomena, 2020, 413, 132673.	2.8	1
36	The local period function for Hamiltonian systems with applications. Journal of Differential Equations, 2021, 280, 590-617.	2.2	1

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#	Article	IF	CITATIONS
37	Regularization of saddle-fold singularity for nonsmooth differential systems. Journal of Mathematical Analysis and Applications, 2019, 474, 1036-1048.	1.0	O
38	On the dynamics of the Euler equations on so(4). Dynamical Systems, 2020, 35, 361-368.	0.4	0
39	Centers and Limit Cycles of Vector Fields Defined on Invariant Spheres. Journal of Nonlinear Science, 2021, 31, 1.	2.1	O
40	Reversible Hamiltonian Liapunov center theorem. Discrete and Continuous Dynamical Systems - Series B, 2004, 5, 51-66.	0.9	0