

# Claudio Buzzi

## List of Publications by Year in descending order

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40  
papers

510  
citations

759233

12  
h-index

677142

22  
g-index

40  
all docs

40  
docs citations

40  
times ranked

230  
citing authors

#	ARTICLE	IF	CITATIONS
1	The local period function for Hamiltonian systems with applications. Journal of Differential Equations, 2021, 280, 590-617.	2.2	1
2	Centers and Limit Cycles of Vector Fields Defined on Invariant Spheres. Journal of Nonlinear Science, 2021, 31, 1.	2.1	0
3	Limit cycles in 4-star-symmetric planar piecewise linear systems. Journal of Differential Equations, 2020, 268, 2414-2434.	2.2	11
4	On the dynamics of the Euler equations on $so(4)$ . Dynamical Systems, 2020, 35, 361-368.	0.4	0
5	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
6	Final evolutions of a class of May-Leonard Lotka-Volterra systems. Journal of Nonlinear Mathematical Physics, 2020, 27, 267.	1.3	5
7	Melnikov analysis in nonsmooth differential systems with nonlinear switching manifold. Journal of Differential Equations, 2019, 267, 3748-3767.	2.2	23
8	Regularization of saddle-fold singularity for nonsmooth differential systems. Journal of Mathematical Analysis and Applications, 2019, 474, 1036-1048.	1.0	0
9	Limit cycles via higher order perturbations for some piecewise differential systems. Physica D: Nonlinear Phenomena, 2018, 371, 28-47.	2.8	8
10	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
11	On Poincaré-Bendixson Theorem and non-trivial minimal sets in planar nonsmooth vector fields. Publicacions Matemàtiques, 2018, 62, 113-131.	0.5	21
12	Center boundaries for planar piecewise-smooth differential equations with two zones. Journal of Mathematical Analysis and Applications, 2017, 445, 631-649.	1.0	1
13	Chaotic planar piecewise smooth vector fields with non-trivial minimal sets. Ergodic Theory and Dynamical Systems, 2016, 36, 458-469.	0.6	12
14	Bifurcation of limit cycles from a non-smooth perturbation of a two-dimensional isochronous cylinder. Bulletin Des Sciences Mathématiques, 2016, 140, 519-540.	1.0	1
15	Hopf and zero-Hopf bifurcations in the Hindmarsh-Rose system. Nonlinear Dynamics, 2016, 83, 1549-1556.	5.2	19
16	No periodic orbits for the type A Bianchi's systems. Journal of Nonlinear Mathematical Physics, 2015, 22, 170.	1.3	1
17	Hopf bifurcation in the full repressilator equations. Mathematical Methods in the Applied Sciences, 2015, 38, 1428-1436.	2.3	3
18	Birth of limit cycles bifurcating from a nonsmooth center. Journal Des Mathématiques Pures Et Appliquées, 2014, 102, 36-47.	1.6	30

#	ARTICLE	IF	CITATIONS
19	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
20	Peixoto's Theorem for vector fields on $S^2$ with impasse points. Bulletin Des Sciences Mathématiques, 2013, 137, 691-704.	1.0	2
21	Generic bifurcation of refracted systems. Advances in Mathematics, 2013, 234, 653-666.	1.1	26
22	Piecewise linear perturbations of a linear center. Discrete and Continuous Dynamical Systems, 2013, 33, 3915-3936.	0.9	111
23	On the periodic solutions of the static, spherically symmetric Einstein-Yang-Mills equations. Journal of Mathematical Physics, 2012, 53, 122703.	1.1	1
24	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
25	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
26	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
27	Slow-fast systems on algebraic varieties bordering piecewise-smooth dynamical systems. Bulletin Des Sciences Mathématiques, 2012, 136, 444-462.	1.0	9
28	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
29	Quadratic Planar Systems with Two Parallel Invariant Straight Lines. Qualitative Theory of Dynamical Systems, 2009, 7, 295-316.	1.7	1
30	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
31	Bifurcation of limit cycles from a centre in $\mathbb{R}^n$ in resonance 1:N. Dynamical Systems, 2009, 24, 123-137.	0.4	11
32	On the dynamics of the Bianchi IX system. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 7187-7192.	2.1	5
33	Periodic orbits for a class of reversible quadratic vector field on $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" >$	1.0	13
34	3-dimensional Hopf bifurcation via averaging theory. Discrete and Continuous Dynamical Systems, 2007, 17, 529-540.	0.9	25
35	A singular approach to discontinuous vector fields on the plane. Journal of Differential Equations, 2006, 231, 633-655.	2.2	67
36	Reversible Equivariant Hopf Bifurcation. Archive for Rational Mechanics and Analysis, 2005, 175, 39-84.	2.4	10

#	ARTICLE	IF	CITATIONS
37	Singular perturbation problems for time-reversible systems. Proceedings of the American Mathematical Society, 2005, 133, 3323-3331.	0.8	8
38	Time-Reversible Hamiltonian Vector Fields with Symplectic Symmetries. Journal of Dynamics and Differential Equations, 2004, 16, 559-574.	1.9	5
39	Reversible Hamiltonian Liapunov center theorem. Discrete and Continuous Dynamical Systems - Series B, 2004, 5, 51-66.	0.9	0
40	Hopf-zero bifurcations of reversible vector fields. Nonlinearity, 2001, 14, 623-638.	1.4	10