Douglas D. Novaes

List of Publications by Year in descending order

45 papers	887 citations	567281 15 h-index	477307 29 g-index
46 all docs	46 docs citations	46 times ranked	173 citing authors

#	Article	IF	Citations
1	Nonlinear Sliding of Discontinuous Vector Fields and Singular Perturbation. Differential Equations and Dynamical Systems, 2022, 30, 675-693.	1.0	4
2	An averaging result for periodic solutions of Carathéodory differential equations. Proceedings of the American Mathematical Society, 2022, 150, 2945-2954.	0.8	4
3	A new simple proof for Lum–Chua's conjecture. Nonlinear Analysis: Hybrid Systems, 2021, 40, 100992.	3.5	11
4	Higher Order Analysis on the Existence of Periodic Solutions in Continuous Differential Equations via Degree Theory. SIAM Journal on Mathematical Analysis, 2021, 53, 2476-2490.	1.9	7
5	A note on invariant measures for Filippov systems. Bulletin Des Sciences Mathematiques, 2021, 167, 102954.	1.0	3
6	A note on Vishik's normal form. Journal of Differential Equations, 2021, 281, 442-458.	2.2	1
7	Higher order Melnikov analysis for planar piecewise linear vector fields with nonlinear switching curve. Journal of Differential Equations, 2021, 287, 1-36.	2.2	12
8	Smoothing of nonsmooth differential systems near regular-tangential singularities and boundary limit cycles. Nonlinearity, 2021, 34, 4202-4263.	1.4	5
9	Lyapunov coefficients for monodromic tangential singularities in Filippov vector fields. Journal of Differential Equations, 2021, 300, 565-596.	2.2	11
10	Higher order stroboscopic averaged functions: a general relationship with Melnikov functions. Electronic Journal of Qualitative Theory of Differential Equations, 2021, , 1-9.	0.5	4
11	Asymptotic behavior of periodic solutions in one-parameter families of Liénard equations. Nonlinear Analysis: Theory, Methods & Applications, 2020, 190, 111617.	1.1	2
12	On the torus bifurcation in averaging theory. Journal of Differential Equations, 2020, 268, 4555-4576.	2.2	7
13	Study of Periodic Orbits in Periodic Perturbations of Planar Reversible Filippov Systems Having a Twofold Cycle. SIAM Journal on Applied Dynamical Systems, 2020, 19, 1343-1371.	1.6	3
14	Sliding Shilnikov connection in Filippov-type predator–prey model. Nonlinear Dynamics, 2020, 100, 2973-2987.	5.2	13
15	Simultaneous occurrence of sliding and crossing limit cycles in piecewise linear planar vector fields. Dynamical Systems, 2020, 35, 490-514.	0.4	9
16	Bifurcations from families of periodic solutions in piecewise differential systems. Physica D: Nonlinear Phenomena, 2020, 404, 132342.	2.8	5
17	Periodic solutions and invariant torus in the Rössler system. Nonlinearity, 2020, 33, 4512-4539.	1.4	4
18	Shilnikov problem in Filippov dynamical systems. Chaos, 2019, 29, 063110.	2.5	15

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19	Melnikov analysis in nonsmooth differential systems with nonlinear switching manifold. Journal of Differential Equations, 2019, 267, 3748-3767.	2.2	23
20	New lower bound for the Hilbert number in piecewise quadratic differential systems. Journal of Differential Equations, 2019, 266, 4170-4203.	2.2	47
21	Limit cycles of piecewise polynomial perturbations of higher dimensional linear differential systems. Revista Matematica Iberoamericana, 2019, 36, 291-318.	0.9	3
22	The generic unfolding of a codimension-two connection to a two-fold singularity of planar Filippov systems. Nonlinearity, 2018, 31, 2083-2104.	1.4	17
23	Chaos Induced by Sliding Phenomena in Filippov Systems. Journal of Dynamics and Differential Equations, 2017, 29, 1569-1583.	1.9	12
24	On extended Chebyshev systems with positive accuracy. Journal of Mathematical Analysis and Applications, 2017, 448, 171-186.	1.0	31
25	Averaging theory at any order for computing limit cycles of discontinuous piecewise differential systems with many zones. Physica D: Nonlinear Phenomena, 2017, 353-354, 1-10.	2.8	32
26	Number of Limit Cycles for Some Non-generic Classes of Piecewise Linear Differential Systems. Trends in Mathematics, 2017, , 135-139.	0.1	1
27	Persistence of periodic solutions for higher order perturbed differential systems via Lyapunovâ€"Schmidt reduction. Nonlinearity, 2017, 30, 3560-3586.	1.4	22
28	An Equivalent Formulation of the Averaged Functions via Bell Polynomials. Trends in Mathematics, 2017, , 141-145.	0.1	8
29	A new result on averaging theory for a class of discontinuous planar differential systems with applications. Revista Matematica Iberoamericana, 2017, 33, 1247-1265.	0.9	31
30	Piecewise smooth dynamical systems: Persistence of periodic solutions and normal forms. Journal of Differential Equations, 2016, 260, 6108-6129.	2.2	12
31	On the periodic solutions of perturbed 4D non-resonant systems. Sao Paulo Journal of Mathematical Sciences, 2015, 9, 229-250.	0.4	1
32	Periodic solutions of Lienard differential equations via averaging theory of order two. Anais Da Academia Brasileira De Ciencias, 2015, 87, 1905-1913.	0.8	1
33	Averaging theory for discontinuous piecewise differential systems. Journal of Differential Equations, 2015, 258, 4007-4032.	2.2	97
34	Improving the averaging theory for computing periodic solutions of the differential equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2015, 66, 1401-1412.	1.4	16
35	Regularization of hidden dynamics in piecewise smooth flows. Journal of Differential Equations, 2015, 259, 4615-4633.	2.2	32
36	A Simple Solution to the Bragaâ€"Mello Conjecture. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550009.	1.7	34

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37	On the birth of limit cycles for non-smooth dynamical systems. Bulletin Des Sciences Mathematiques, 2015, 139, 229-244.	1.0	80
38	On limit cycles bifurcating from the infinity in discontinuous piecewise linear differential systems. Applied Mathematics and Computation, 2015, 271, 365-374.	2.2	10
39	Limit Cycles Bifurcating from the Periodic Orbits of a Discontinuous Piecewise Linear Differentiable Center with Two Zones. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550144.	1.7	46
40	Maximum number of limit cycles for certain piecewise linear dynamical systems. Nonlinear Dynamics, 2015, 82, 1159-1175.	5.2	90
41	Higher order averaging theory for finding periodic solutions via Brouwer degree. Nonlinearity, 2014, 27, 563-583.	1.4	98
42	On nonsmooth perturbations of nondegenerate planar centers. Publicacions Matematiques, 2014, EXTRA, 395-420.	0.5	9
43	Perturbed damped pendulum: finding periodic solutions via averaging method. Revista Brasileira De Ensino De Fisica, 2013, 35, 01-07.	0.2	0
44	On the periodic solutions of a perturbed double pendulum. Sao Paulo Journal of Mathematical Sciences, 2011, 5, 317.	0.4	2
45	On the non-existence of isochronous tangential centers in Filippov vector fields. , 0, , .		1