

# Da Silva, Pr

## List of Publications by Year in descending order

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36  
papers

599  
citations

687363

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610901

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36  
docs citations

36  
times ranked

239  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regularization of Discontinuous Vector Fields on $\mathbb{R}^3$ via Singular Perturbation. Journal of Dynamics and Differential Equations, 2007, 19, 309-331.	1.9	92
2	A singular approach to discontinuous vector fields on the plane. Journal of Differential Equations, 2006, 231, 633-655.	2.2	67
3	On the global dynamics of the Rabinovich system. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 275210.	2.1	56
4	Regularization and singular perturbation techniques for non-smooth systems. Physica D: Nonlinear Phenomena, 2012, 241, 1948-1955.	2.8	53
5	Study of Singularities in Nonsmooth Dynamical Systems via Singular Perturbation. SIAM Journal on Applied Dynamical Systems, 2009, 8, 508-526.	1.6	41
6	GLOBAL DYNAMICS OF THE LORENZ SYSTEM WITH INVARIANT ALGEBRAIC SURFACES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 3137-3155.	1.7	39
7	Sliding Vector Fields via Slow-Fast Systems. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2008, 15, .	0.2	35
8	GLOBAL DYNAMICS IN THE POINCARÉ BALL OF THE CHEN SYSTEM HAVING INVARIANT ALGEBRAIC SURFACES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250154.	1.7	26
9	On the number of critical periods for planar polynomial systems. Nonlinear Analysis: Theory, Methods & Applications, 2008, 69, 1889-1903.	1.1	25
10	3-dimensional Hopf bifurcation via averaging theory. Discrete and Continuous Dynamical Systems, 2007, 17, 529-540.	0.9	25
11	Sliding vector fields for non-smooth dynamical systems having intersecting switching manifolds. Nonlinearity, 2015, 28, 493-507.	1.4	19
12	Regularization of discontinuous foliations: Blowing up and sliding conditions via Fenichel theory. Journal of Differential Equations, 2017, 263, 8362-8390.	2.2	18
13	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
14	On singularly perturbed Filippov systems. European Journal of Applied Mathematics, 2013, 24, 835-856.	2.9	10
15	Slow-fast systems on algebraic varieties bordering piecewise-smooth dynamical systems. Bulletin Des Sciences Mathematiques, 2012, 136, 444-462.	1.0	9
16	Global dynamics of stationary solutions of the extended Fisher-Kolmogorov equation. Journal of Mathematical Physics, 2011, 52, 112701.	1.1	8
17	Implicit differential equations with impasse singularities and singular perturbation problems. Israel Journal of Mathematics, 2012, 189, 307-322.	0.8	8
18	Persistence of periodic orbits with sliding or sewing by singular perturbation. Journal of Mathematical Analysis and Applications, 2015, 423, 1166-1182.	1.0	8

#	ARTICLE	IF	CITATIONS
19	Singular perturbation problems for time-reversible systems. Proceedings of the American Mathematical Society, 2005, 133, 3323-3331.	0.8	8
20	Three time scale singular perturbation problems and nonsmooth dynamical systems. Quarterly of Applied Mathematics, 2014, 72, 673-687.	0.7	6
21	On the dynamics of the Bianchi IX system. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 7187-7192.	2.1	5
22	Sliding solutions of second-order differential equations with discontinuous right-hand side. Mathematical Methods in the Applied Sciences, 2017, 40, 5295-5306.	2.3	5
23	Piecewise-Smooth Slow-Fast Systems. Journal of Dynamical and Control Systems, 2021, 27, 67-85.	0.8	4
24	Geometric singular perturbation theory for non-smooth dynamical systems. Publicacions Matemàtiques, 2014, EXTRA, 111-134.	0.5	4
25	Peixoto's Theorem for vector fields on $S^2$ with impasse points. Bulletin Des Sciences Mathematiques, 2013, 137, 691-704.	1.0	2
26	Piecewise Bounded Quadratic Systems in the Plane. Differential Equations and Dynamical Systems, 2016, 24, 51-62.	1.0	2
27	Asymptotic Expansion of the Heteroclinic Bifurcation for the Planar Normal Form of the 1:2 Resonance. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650017.	1.7	2
28	Slow-fast systems and sliding on codimension 2 switching manifolds. Dynamical Systems, 2019, 34, 613-639.	0.4	2
29	Synchronization and Non-Smooth Dynamical Systems. Journal of Dynamics and Differential Equations, 2012, 24, 1-12.	1.9	1
30	Bifurcations of the Riccati Quadratic Polynomial Differential Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150094.	1.7	1
31	Quadratic slow-fast systems on the plane. Nonlinear Analysis: Real World Applications, 2021, 60, 103286.	1.7	1
32	FOLD, TRANSCRITICAL AND PITCHFORK SINGULARITIES FOR TIME-REVERSIBLE SYSTEMS. , 2005, , .		0
33	Limit cycles for Singular Perturbation Problems via Inverse Integrating Factor. Boletim Da Sociedade Paranaense De Matematica, 2008, 26, .	0.4	0
34	Piecewise Implicit Differential Systems. Journal of Dynamics and Differential Equations, 2017, 29, 1519-1537.	1.9	0
35	Invariant Algebraic Surfaces and Impasses. Qualitative Theory of Dynamical Systems, 2021, 20, 1.	1.7	0
36	Piecewise holomorphic systems. Journal of Differential Equations, 2022, 332, 440-472.	2.2	0