

# Flaviano Battelli

## List of Publications by Year in descending order

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26  
papers

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citations

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times ranked

153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exponential dichotomies, heteroclinic orbits, and Melnikov functions. <i>Journal of Differential Equations</i> , 1990, 86, 342-366.	2.2	57
2	Nonsmooth homoclinic orbits, Melnikov functions and chaos in discontinuous systems. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 1962-1975.	2.8	55
3	Bifurcation and chaos near sliding homoclinics. <i>Journal of Differential Equations</i> , 2010, 248, 2227-2262.	2.2	47
4	Homoclinic Trajectories in Discontinuous Systems. <i>Journal of Dynamics and Differential Equations</i> , 2008, 20, 337-376.	1.9	45
5	On the Chaotic Behaviour of Discontinuous Systems. <i>Journal of Dynamics and Differential Equations</i> , 2011, 23, 495-540.	1.9	24
6	Criteria for exponential dichotomy for triangular systems. <i>Journal of Mathematical Analysis and Applications</i> , 2015, 428, 525-543.	1.0	18
7	On the Poincaré-Adronov-Melnikov method for the existence of grazing impact periodic solutions of differential equations. <i>Journal of Differential Equations</i> , 2020, 268, 3725-3748.	2.2	12
8	Chaos in forced impact systems. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2012, 6, 861-890.	1.1	10
9	An example of chaotic behaviour in presence of a sliding homoclinic orbit. <i>Annali Di Matematica Pura Ed Applicata</i> , 2010, 189, 615-642.	1.0	9
10	Melnikov theory for nonlinear implicit ODEs. <i>Journal of Differential Equations</i> , 2014, 256, 1157-1190.	2.2	9
11	Chaos arising near a topologically transversal homoclinic set. <i>Topological Methods in Nonlinear Analysis</i> , 2002, 20, 195.	0.2	9
12	Dynamics of generalized PT-symmetric dimers with time-periodic gain-loss. <i>Nonlinear Dynamics</i> , 2015, 81, 353-371.	5.2	8
13	A remark about Sil'nikov saddle-focus homoclinic orbits. <i>Communications on Pure and Applied Analysis</i> , 2010, 10, 817-830.	0.8	6
14	On the existence of solutions connecting singularities in nonlinear RLC circuits. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2015, 116, 26-36.	1.1	5
15	Strongly Exponentially Separated Linear Systems. <i>Journal of Dynamics and Differential Equations</i> , 2019, 31, 573-600.	1.9	4
16	Melnikov theory for weakly coupled nonlinear RLC circuits. <i>Boundary Value Problems</i> , 2014, 2014, .	0.7	3
17	Smoothness of Asymptotic Phase Revisited. <i>Advanced Nonlinear Studies</i> , 2011, 11, 837-851.	1.7	2
18	On the chaotic behavior of non-flat billiards. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 1442-1464.	3.3	2

#	ARTICLE	IF	CITATIONS
19	On the Exponents of Exponential Dichotomies. <i>Mathematics</i> , 2020, 8, 651.	2.2	2
20	On the existence of solutions connecting IK singularities and impasse points in fully nonlinear RLC circuits. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 3043-3061.	0.9	2
21	General Melnikov Approach to Implicit ODEs. <i>Journal of Dynamics and Differential Equations</i> , 2022, 34, 365-397.	1.9	1
22	Blue sky-like catastrophe for reversible nonlinear implicit ODEs. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2016, 9, 895-922.	1.1	1
23	Periodic Solutions in Slowly Varying Discontinuous Differential Equations: The Generic Case. <i>Mathematics</i> , 2021, 9, 2449.	2.2	1
24	Strongly Exponentially Separated Linear Difference Equations. <i>Springer Proceedings in Mathematics and Statistics</i> , 2020, , 149-186.	0.2	1
25	Periodic Solutions in Slowly Varying Discontinuous Differential Equations: A Non-Generic Case. <i>Journal of Dynamics and Differential Equations</i> , 2024, 36, 463-496.	1.9	1
26	An example of Silnikov focus-focus homoclinic orbits. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2020, 201, 112110.	1.1	0