Lorenzo J Diaz

List of Publications by Year
in descending order

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32	577	567281 15	642732 23
papers	citations	h-index	g-index

32	32	32	96
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ROBUST HETERODIMENSIONAL CYCLES AND C^1-GENERIC DYNAMICS. Journal of the Institute of Mathematics of Jussieu, 2008, 7, .	0.7	63
2	Robust nonhyperbolic dynamics and heterodimensional cycles. Ergodic Theory and Dynamical Systems, 1995, 15, 291-315.	0.6	51
3	On maximal transitive sets of generic diffeomorphisms. Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques, 2003, 96, 171-197.	4.3	41
4	Abundance of C^{1}-robust homoclinic tangencies. Transactions of the American Mathematical Society, 2012, 364, 5111-5148.	0.9	40
5	MINIMALITY OF STRONG STABLE AND UNSTABLE FOLIATIONS FOR PARTIALLY HYPERBOLIC DIFFEOMORPHISMS. Journal of the Institute of Mathematics of Jussieu, 2002, 1, 513-541.	0.7	35
6	Persistence of cycles and nonhyperbolic dynamics at heteroclinic bifurcations. Nonlinearity, 1995, 8, 693-713.	1.4	32
7	Robust Criterion for the Existence of Nonhyperbolic Ergodic Measures. Communications in Mathematical Physics, 2016, 344, 751-795.	2.2	28
8	Partially hyperbolic and transitive dynamics generated by heteroclinic cycles. Ergodic Theory and Dynamical Systems, 2001, 21, 25-76.	0.6	25
9	Non-hyperbolic ergodic measures for non-hyperbolic homoclinic classes. Ergodic Theory and Dynamical Systems, 2009, 29, 1479-1513.	0.6	24
10	Destroying horseshoes via heterodimensional cycles: generating bifurcations inside homoclinic classes. Ergodic Theory and Dynamical Systems, 2009, 29, 433-474.	0.6	24
11	Stabilization of heterodimensional cycles. Nonlinearity, 2012, 25, 931-960.	1.4	24
12	Heterodimensional cycles, partial hyperbolicity and limit dynamics. Fundamenta Mathematicae, 2002, 174, 127-186.	0.5	24
13	Symbolic extensions and partially hyperbolic diffeomorphisms. Discrete and Continuous Dynamical Systems, 2011, 29, 1419-1441.	0.9	23
14	Porcupine-like horseshoes: Transitivity, Lyapunov spectrum, and phase transitions. Fundamenta Mathematicae, 2012, 216, 55-100.	0.5	19
15	Non-hyperbolic ergodic measures with large support. Nonlinearity, 2010, 23, 687-705.	1.4	17
16	Internal perturbations of homoclinic classes: non-domination, cycles, and self-replication. Ergodic Theory and Dynamical Systems, 2013, 33, 739-776.	0.6	13
17	Large measure of hyperbolic dynamics when unfolding heteroclinic cycles. Nonlinearity, 1997, 10, 857-884.	1.4	12
18	Abundant rich phase transitions in step-skew products. Nonlinearity, 2014, 27, 2255-2280.	1.4	11

#	Article	IF	Citations
19	Robust vanishing of all Lyapunov exponents for iterated function systems. Mathematische Zeitschrift, 2014, 276, 469-503.	0.9	11
20	Entropy Spectrum of Lyapunov Exponents for Nonhyperbolic Step Skew-Products and Elliptic Cocycles. Communications in Mathematical Physics, 2019, 367, 351-416.	2.2	11
21	Cubic tangencies and hyperbolic diffeomorphisms. Sociedade Brasileira De Matematica Boletim, Nova Serie, 1998, 29, 99-144.	0.2	10
22	Skew product cycles with rich dynamics: From totally non-hyperbolic dynamics to fully prevalent hyperbolicity. Dynamical Systems, 2016, 31, 1-40.	0.4	6
23	Weak* and entropy approximation of nonhyperbolic measures: a geometrical approach. Mathematical Proceedings of the Cambridge Philosophical Society, 2020, 169, 507-545.	0.4	6
24	Collision, explosion and collapse of homoclinic classes. Nonlinearity, 2004, 17, 1001-1032.	1.4	5
25	Stability of the Markov operator and synchronization of Markovian random products. Nonlinearity, 2018, 31, 1782-1806.	1.4	5
26	The structure of the space of ergodic measures of transitive partially hyperbolic sets. Monatshefte Fur Mathematik, 2019, 190, 441-479.	0.9	5
27	Critical saddle-node cycles: Hausdorff dimension and persistence of tangencies. Ergodic Theory and Dynamical Systems, 2002, 22, .	0.6	4
28	How do hyperbolic homoclinic classes collide at heterodimensional cycles?. Discrete and Continuous Dynamical Systems, 2007, 17, 589-627.	0.9	3
29	Generation of spines in porcupine-like horseshoes. Nonlinearity, 2015, 28, 4249-4279.	1.4	2
30	Topological and ergodic aspects of partially hyperbolic diffeomorphisms and nonhyperbolic step skew products. Proceedings of the Steklov Institute of Mathematics, 2017, 297, 98-115.	0.3	2
31	Variational Principle for Nonhyperbolic Ergodic Measures: Skew Products and Elliptic Cocycles. Communications in Mathematical Physics, 2022, 394, 73-141.	2.2	1
32	Attracting graphs of skew products with non-contracting fiber maps. Mathematische Zeitschrift, 2019, 291, 1543-1568.	0.9	0