Marcelo Viana

List of Publications by Year
in descending order

55 papers	2,436 citations	279798 23 h-index	243625 44 g-index
62 all docs	62 docs citations	62 times ranked	475 citing authors

#	Article	IF	Citations
1	Abundance of strange attractors. Acta Mathematica, 1993, 171, 1-71.	3.9	253
2	SRB measures for partially hyperbolic systems whose central direction is mostly expanding. Inventiones Mathematicae, 2000, 140, 351-398.	2.5	234
3	SRB measures for partially hyperbolic systems whose central direction is mostly contracting. Israel Journal of Mathematics, 2000, 115, 157-193.	0.8	209
4	The Lyapunov exponents of generic volume-preserving and symplectic maps. Annals of Mathematics, 2005, 161, 1423-1485.	4.2	140
5	What's new on lorenz strange attractors?. Mathematical Intelligencer, 2000, 22, 6-19.	0.2	123
6	Multidimensional nonhyperbolic attractors. Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques, 1997, 85, 63-96.	4.3	102
7	Simplicity of Lyapunov spectra: proof of the Zorich-Kontsevich conjecture. Acta Mathematica, 2007, 198, 1-56.	3.9	92
8	Extremal Lyapunov exponents: anÂinvariance principle and applications. Inventiones Mathematicae, 2010, 181, 115-178.	2.5	91
9	Strange attractors in higher dimensions. Sociedade Brasileira De Matematica Boletim, Nova Serie, 1993, 24, 13-62.	0.2	67
10	Statistical stability for robust classes of maps with non-uniform expansion. Ergodic Theory and Dynamical Systems, 2002, 22, .	0.6	66
11	Almost all cocycles over any hyperbolic system have nonvanishing Lyapunov exponents. Annals of Mathematics, 2008, 167, 643-680.	4.2	62
12	Lyapunov exponents with multiplicity 1 for deterministic products of matrices. Ergodic Theory and Dynamical Systems, 2004, 24, 1295-1330.	0.6	55
13	Strange attractors in saddle-node cycles: prevalence and globality. Inventiones Mathematicae, 1996, 125, 37-74.	2.5	49
14	Strong stochastic stability and rate of mixing for unimodal maps. Annales Scientifiques De L'Ecole Normale Superieure, 1996, 29, 483-517.	0.8	48
15	Existence, uniqueness and stability of equilibrium states for non-uniformly expanding maps. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2010, 27, 555-593.	1.4	46
16	Solution of the basin problem for HÃ©non-like attractors. Inventiones Mathematicae, 2001, 143, 375-434.	2.5	44
17	The entropy conjecture for diffeomorphisms away from tangencies. Journal of the European Mathematical Society, 2013, 15, 2043-2060.	1.4	41
18	Physical measures and absolute continuity for one-dimensional center direction. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2013, 30, 845-877.	1.4	35

#	Article	IF	Citations
19	SRB measures for partially hyperbolic systems whose central direction is mostly expanding. , 2000, , 443-490.		34
20	Absolute continuity, Lyapunov exponents and rigidity I: geodesic flows. Journal of the European Mathematical Society, 2015, 17, 1435-1462.	1.4	29
21	Thermodynamical formalism for robust classes of potentials and non-uniformly hyperbolic maps. Ergodic Theory and Dynamical Systems, 2008, 28, 501-533.	0.6	28
22	Random perturbations and statistical properties of HÃ©non-like maps. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2006, 23, 713-752.	1.4	24
23	Geometric and Measure-Theoretical Structures of Maps with Mostly Contracting Center. Communications in Mathematical Physics, 2016, 341, 991-1014.	2.2	24
24	Continuity of Lyapunov exponents for random two-dimensional matrices. Ergodic Theory and Dynamical Systems, 2017, 37, 1413-1442.	0.6	24
25	Uniform (projective) hyperbolicity or no hyperbolicity: A dichotomy for generic conservative maps. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2002, 19, 113-123.	1.4	23
26	Simplicity of Lyapunov spectra: a sufficient criterion. Portugaliae Mathematica, 2007, 64, 311-376.	0.4	23
27	Abundance of stable ergodicity. Commentarii Mathematici Helvetici, 2004, 79, 753-757.	0.7	19
28	Lyapunov exponents of linear cocycles over Markov shifts. Stochastics and Dynamics, 2015, 15, 1550020.	1.2	14
29	Existence and uniqueness of maximizing measures for robust classes of local diffeomorphisms. Discrete and Continuous Dynamical Systems, 2006, 15, 225-236.	0.9	13
30	Equilibrium states for hyperbolic potentials. Nonlinearity, 2017, 30, 825-847.	1.4	11
31	Continuity of Lyapunov exponents in the C0 topology. Israel Journal of Mathematics, 2019, 229, 461-485.	0.8	11
32	Hausdorff dimension for non-hyperbolic repellers II: DA diffeomorphisms. Discrete and Continuous Dynamical Systems, 2005, 13, 1125-1152.	0.9	11
33	Discontinuity of Hausdorff dimension and limit capacity on arcs of diffeomorphisms. Ergodic Theory and Dynamical Systems, 1989, 9, 403-425.	0.6	10
34	Homoclinic tangencies and fractal invariants in arbitrary dimension. Comptes Rendus Mathematique, 2001, 333, 475-480.	0.5	9
35	Invariant measures for interval maps with critical points and singularities. Advances in Mathematics, 2009, 221, 1428-1444.	1.1	9
36	(Dis)continuity of Lyapunov exponents. Ergodic Theory and Dynamical Systems, 2020, 40, 577-611.	0.6	9

#	Article	IF	Citations
37	Moduli of continuity for the Lyapunov exponents of random ??(2)-cocycles. Transactions of the American Mathematical Society, 2020, 373, 1343-1383.	0.9	8
38	Absolute continuity, Lyapunov exponents, and rigidity II: systems with compact center leaves. Ergodic Theory and Dynamical Systems, 2022, 42, 437-490.	0.6	8
39	Hausdorff Dimension of Non-Hyperbolic Repellers. I: Maps with Holes. Journal of Statistical Physics, 2001, 105, 835-862.	1.2	5
40	Simple Lyapunov spectrum for certain linear cocycles over partially hyperbolic maps. Nonlinearity, 2019, 32, 238-284.	1.4	5
41	Dynamical Systems: Moving into the Next Century. , 2001, , 1167-1178.		5
42	Global attractors and bifurcations. , 1996, , 299-324.		3
43	Homoclinic Bifurcations and Persistence of Nonuniformly Hyperbolic Attractors. , 1995, , 1221-1229.		3
44	Maximal entropy measures of diffeomorphisms of circle fiber bundles. Journal of the London Mathematical Society, 2021, 103, 1016-1034.	1.0	2
45	The intermittency route to chaotic dynamics. , 0, , .		2
46	Partially volume expanding diffeomorphisms. Annales Henri Poincare, 2021, 22, 331-346.	1.7	1
47	SRB measures for partially hyperbolic systems whose central direction is mostly expanding. , 2000, 140, 351.		1
48	Multiplicative ergodic theorem. , 0, , 38-66.		0
49	Linear cocycles. , 0, , 6-19.		0
50	Extremal Lyapunov exponents. , 0, , 20-37.		0
51	Stationary measures. , 0, , 67-95.		0
52	Invariance principle. , 0, , 115-132.		0
53	Generic cocycles. , 0, , 150-170.		0
54	Exponents and invariant measures. , 0, , 96-114.		0

#	Article	IF	Citations
55	The intermittency route to chaotic dynamics. , 2001, , .		0