

Carlangelo Liverani

List of Publications by Year in descending order

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60
papers

2,454
citations

218677

26
h-index

197818

49
g-index

61
all docs

61
docs citations

61
times ranked

575
citing authors

#	ARTICLE	IF	CITATIONS
1	A probabilistic approach to intermittency. <i>Ergodic Theory and Dynamical Systems</i> , 1999, 19, 671-685.	0.6	238
2	Decay of Correlations. <i>Annals of Mathematics</i> , 1995, 142, 239.	4.2	223
3	Banach spaces adapted to Anosov systems. <i>Ergodic Theory and Dynamical Systems</i> , 2006, 26, 189.	0.6	171
4	On contact Anosov flows. <i>Annals of Mathematics</i> , 2004, 159, 1275-1312.	4.2	167
5	Ruelle-Perron-Frobenius spectrum for Anosov maps. <i>Nonlinearity</i> , 2002, 15, 1905-1973.	1.4	158
6	Smooth Anosov flows: Correlation spectra and stability. <i>Journal of Modern Dynamics</i> , 2007, 1, 301-322.	0.5	111
7	Decay of correlations for piecewise expanding maps. <i>Journal of Statistical Physics</i> , 1995, 78, 1111-1129.	1.2	91
8	Rare Events, Escape Rates and Quasistationarity: Some Exact Formulae. <i>Journal of Statistical Physics</i> , 2009, 135, 519-534.	1.2	84
9	Stability of statistical properties in two-dimensional piecewise hyperbolic maps. <i>Transactions of the American Mathematical Society</i> , 2008, 360, 4777-4814.	0.9	67
10	Potentials on the two-torus for which the Hamiltonian flow is ergodic. <i>Communications in Mathematical Physics</i> , 1991, 135, 267-302.	2.2	63
11	Conformally Symplectic Dynamics and Symmetry of the Lyapunov Spectrum. <i>Communications in Mathematical Physics</i> , 1998, 194, 47-60.	2.2	63
12	Ergodicity in Hamiltonian Systems. <i>Dynamics Reported</i> , 1995, , 130-202.	0.6	63
13	Compact locally maximal hyperbolic sets for smooth maps: fine statistical properties. <i>Journal of Differential Geometry</i> , 2008, 79, .	1.1	63
14	Rigorous numerical investigation of the statistical properties of piecewise expanding maps. A feasibility study. <i>Nonlinearity</i> , 2001, 14, 463-490.	1.4	59
15	Anosov flows and dynamical zeta functions. <i>Annals of Mathematics</i> , 2013, 178, 687-773.	4.2	59
16	Ergodic systems ofn balls in a billiard table. <i>Communications in Mathematical Physics</i> , 1992, 146, 357-396.	2.2	53
17	Conformal measure and decay of correlation for covering weighted systems. <i>Ergodic Theory and Dynamical Systems</i> , 1998, 18, 1399-1420.	0.6	50
18	Applications de type Lasota-Yorke à trou : mesure de probabilité conditionnellement invariante et mesure de probabilité invariante sur l'ensemble des survivants. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2003, 39, 385-412.	1.1	50

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19	Exponential decay of correlations for finite horizon Sinai billiard flows. <i>Inventiones Mathematicae</i> , 2018, 211, 39-177.	2.5	45
20	Random walk in Markovian environment. <i>Annals of Probability</i> , 2008, 36, .	1.8	42
21	Exponential Decay of Correlations for Piecewise Cone Hyperbolic Contact Flows. <i>Communications in Mathematical Physics</i> , 2012, 314, 689-773.	2.2	37
22	Generalization of the Hilbert metric to the space of positive definite matrices. <i>Pacific Journal of Mathematics</i> , 1994, 166, 339-355.	0.5	36
23	Energy Transfer in a Fast-Slow Hamiltonian System. <i>Communications in Mathematical Physics</i> , 2011, 308, 201-225.	2.2	34
24	Uniqueness of the SRB Measure for Piecewise Expanding Weakly Coupled Map Lattices in Any Dimension. <i>Communications in Mathematical Physics</i> , 2006, 262, 33-50.	2.2	33
25	Dissipative quantum dynamics in a boson bath. <i>Physical Review B</i> , 1989, 40, 4664-4682.	3.2	31
26	Fredholm determinants, Anosov maps and Ruelle resonances. <i>Discrete and Continuous Dynamical Systems</i> , 2005, 13, 1203-1215.	0.9	31
27	Quenched CLT for random toral automorphism. <i>Discrete and Continuous Dynamical Systems</i> , 2009, 24, 331-348.	0.9	29
28	Multidimensional expanding maps with singularities: a pedestrian approach. <i>Ergodic Theory and Dynamical Systems</i> , 2013, 33, 168-182.	0.6	22
29	Quantum system in contact with a thermal environment: Rigorous treatment of a simple model. <i>Communications in Mathematical Physics</i> , 1988, 120, 195-231.	2.2	20
30	Zeta functions and dynamical systems. <i>Nonlinearity</i> , 2006, 19, 2467-2473.	1.4	19
31	Toward the Fourier law for a weakly interacting anharmonic crystal. <i>Journal of the American Mathematical Society</i> , 2012, 25, 555-583.	3.9	18
32	Limit theorems for fast-slow partially hyperbolic systems. <i>Inventiones Mathematicae</i> , 2018, 213, 811-1016.	2.5	15
33	Edgeworth expansions for weakly dependent random variables. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2021, 57, .	1.1	15
34	Anosov diffeomorphisms and coupling. <i>Ergodic Theory and Dynamical Systems</i> , 2002, 22, .	0.6	14
35	Green-Kubo Formula for Weakly Coupled Systems with Noise. <i>Communications in Mathematical Physics</i> , 2015, 334, 1377-1412.	2.2	14
36	Statistical properties of mostly contracting fast-slow partially hyperbolic systems. <i>Inventiones Mathematicae</i> , 2016, 206, 147-227.	2.5	14

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37	Mixing for Some Non-Uniformly Hyperbolic Systems. <i>Annales Henri Poincare</i> , 2016, 17, 179-226.	1.7	14
38	Parabolic dynamics and anisotropic Banach spaces. <i>Journal of the European Mathematical Society</i> , 2019, 21, 2793-2858.	1.4	13
39	Non-perturbative approach to random walk in markovian environment. <i>Electronic Communications in Probability</i> , 2009, 14, .	0.4	13
40	Convergence to Equilibrium for Intermittent Symplectic Maps. <i>Communications in Mathematical Physics</i> , 2005, 260, 527-556.	2.2	12
41	Robustly invariant sets in fiber contracting bundle flows. <i>Journal of Modern Dynamics</i> , 2013, 7, 255-267.	0.5	10
42	Reversibility in Infinite Hamiltonian Systems with Conservative Noise. <i>Communications in Mathematical Physics</i> , 1997, 189, 481-496.	2.2	9
43	Improved KAM estimates for the Siegel radius. <i>Journal of Statistical Physics</i> , 1986, 45, 1071-1086.	1.2	8
44	Flows, random perturbations and rate of mixing. <i>Ergodic Theory and Dynamical Systems</i> , 1998, 18, 1421-1446.	0.6	8
45	Map Lattices Coupled by Collisions. <i>Communications in Mathematical Physics</i> , 2009, 291, 591-597.	2.2	8
46	Coupled map lattices without cluster expansion. <i>Discrete and Continuous Dynamical Systems</i> , 2004, 11, 325-335.	0.9	8
47	Ergodicity in infinite Hamiltonian systems with conservative noise. <i>Probability Theory and Related Fields</i> , 1996, 106, 401-445.	1.8	7
48	Ergodic Properties for a Quantum Nonlinear Dynamics. <i>Journal of Statistical Physics</i> , 1999, 97, 957-1009.	1.2	6
49	Random Classical Fidelity. <i>Journal of Statistical Physics</i> , 2007, 128, 1079-1091.	1.2	6
50	Fast "Slow Partially Hyperbolic Systems Versus Freidlin-Wentzell Random Systems. <i>Journal of Statistical Physics</i> , 2017, 166, 650-679.	1.2	6
51	Ergodic Properties of a Model Related to Disordered Quantum Anharmonic Crystals. <i>Communications in Mathematical Physics</i> , 2003, 235, 169-189.	2.2	3
52	Anosov diffeomorphisms, anisotropic BV spaces and regularity of foliations. <i>Ergodic Theory and Dynamical Systems</i> , 0, , 1-37.	0.6	3
53	A footnote on expanding maps. <i>Discrete and Continuous Dynamical Systems</i> , 2013, 33, 3741-3751.	0.9	3
54	Approximate solutions of the KdV equation from perturbation expansions. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica</i> , 1981, 30, 9-12.	0.4	2

#	ARTICLE	IF	CITATIONS
55	Statistical Properties of Disordered Quantum Systems. , 2004, , 123-141.		2
56	Locating Ruelleâ€™Pollicott resonances*. Nonlinearity, 2022, 35, 513-566.	1.4	2
57	Spectral properties of integral operators in bounded, large intervals. Journal of Mathematical Analysis and Applications, 2017, 450, 330-350.	1.0	1
58	Mixing rates for symplectic almost Anosov maps. Nonlinearity, 2021, 34, 3709-3731.	1.4	1
59	On the work and vision of Dmitry Dolgopyat. Journal of Modern Dynamics, 2010, 4, 211-225.	0.5	1
60	Mini-Workshop: Spectrum of Transfer Operators â€™ Recent Developments and Applications. Oberwolfach Reports, 2010, 6, 2699-2730.	0.0	0