Mark Pollicott

List of Publications by Year
in descending order

134 papers	2,205 citations	257450 24 h-index	276875 41 g-index
136 all docs	136 docs citations	136 times ranked	617 citing authors

#	Article	IF	Citations
1	Uniform lower bounds on the dimension of Bernoulli convolutions. Advances in Mathematics, 2022, 395, 108090.	1.1	3
2	Statistical Properties of the Rauzy-Veech-Zorich Map. Lecture Notes in Mathematics, 2021, , 317-349.	0.2	0
3	Higher Teichmüller Theory for Surface Groups and Shifts of Finite Type. Lecture Notes in Mathematics, 2021, , 395-418.	0.2	0
4	The Schottky–Klein prime function and counting functions for Fenchel double crosses. Monatshefte Fur Mathematik, 2021, 195, 323-342.	0.9	0
5	Fourier multipliers and transfer operators. Journal of Fractal Geometry, 2021, 8, 189-199.	0.7	1
6	How Many Inflections are There in the Lyapunov Spectrum?. Communications in Mathematical Physics, 2021, 386, 1383-1411.	2.2	2
7	Effective estimates of Lyapunov exponents for random products of positive matrices. Nonlinearity, 2021, 34, 6705-6718.	1.4	0
8	Zeros of the Selberg zeta function for symmetric infinite area hyperbolic surfaces. Geometriae Dedicata, 2019, 201, 155-186.	0.3	1
9	Phase transitions in long-range Ising models and an optimal condition for factors of -measures. Ergodic Theory and Dynamical Systems, 2019, 39, 1317-1330.	0.6	7
10	Exponential Mixing: Lectures from Mumbai. Infosys Science Foundation Series, 2019, , 135-167.	0.6	0
11	Stationary measures associated to analytic iterated function schemes. Mathematische Nachrichten, 2018, 291, 1049-1054.	0.8	4
12	Rigorous effective bounds on the Hausdorff dimension of continued fraction Cantor sets: A hundred decimal digits for the dimension of E2. Advances in Mathematics, 2018, 325, 87-115.	1.1	18
13	Joint spectral radius, Sturmian measures and the finiteness conjecture. Ergodic Theory and Dynamical Systems, 2018, 38, 3062-3100.	0.6	5
14	Rigorous Computation of Diffusion Coefficients for Expanding Maps. Journal of Statistical Physics, 2018, 170, 221-253.	1.2	9
15	Controlling the statistical properties of expanding maps. Nonlinearity, 2017, 30, 2737-2751.	1.4	16
16	Amenable covers for surfaces and growth of closed geodesics. Advances in Mathematics, 2017, 319, 599-609.	1.1	0
17	A note on the shrinking sector problem for surfaces of variable negative curvature. Proceedings of the Steklov Institute of Mathematics, 2017, 297, 254-263.	0.3	0
18	A Nonlinear Transfer Operator Theorem. Journal of Statistical Physics, 2017, 166, 516-524.	1.2	5

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19	Ergodic theory of Kusuoka measures. Journal of Fractal Geometry, 2017, 4, 185-214.	0.7	8
20	Critical points for the Hausdorff dimension of pairs of pants. Groups, Geometry, and Dynamics, 2017, 11, 1497-1519.	0.5	0
21	Uniform scaling limits for ergodic measures. Journal of Fractal Geometry, 2017, 4, 1-19.	0.7	1
22	Escape Rates for Conformal GDMSs and IFSs. Lecture Notes in Mathematics, 2017, , 87-145.	0.2	0
23	Linear response and periodic points. Nonlinearity, 2016, 29, 3047-3066.	1.4	13
24	Logarithm Laws for Equilibrium States in Negative Curvature. Communications in Mathematical Physics, 2016, 346, 1-34.	2.2	2
25	Weilâ€"Petersson metrics, Manhattan curves and Hausdorff dimension. Mathematische Zeitschrift, 2016, 282, 1007-1016.	0.9	3
26	Micromeasure distributions and applications for conformally generated fractals. Mathematical Proceedings of the Cambridge Philosophical Society, 2015, 159, 547-566.	0.4	5
27	Estimating singularity dimension. Mathematical Proceedings of the Cambridge Philosophical Society, 2015, 158, 223-238.	0.4	7
28	Computing multifractal spectra. Dynamical Systems, 2015, 30, 404-425.	0.4	1
29	Analyticity of dimensions for hyperbolic surface diffeomorphisms. Proceedings of the American Mathematical Society, 2015, 143, 3465-3474.	0.8	12
30	A Weilâ€"Petersson type metric on spaces of metric graphs. Geometriae Dedicata, 2014, 172, 229-244.	0.3	10
31	Geometry and Dynamics of Planar Linkages. Communications in Mathematical Physics, 2013, 317, 615-634.	2.2	5
32	Correlations of Length Spectra for Negatively Curved Manifolds. Communications in Mathematical Physics, 2013, 319, 515-533.	2.2	4
33	Escape rates for Gibbs measures. Ergodic Theory and Dynamical Systems, 2012, 32, 961-988.	0.6	50
34	Unique Bernoulli g-measures. Journal of the European Mathematical Society, 2012, 14, 1599-1615.	1.4	8
35	A Note on the Growth of Periodic Points for Commuting Toral Automorphisms. ISRN Geometry, 2012, 2012, 1-15.	0.1	2
36	Extracting the time-dependent transmission rate from infection data via solution of an inverse ODE problem. Journal of Biological Dynamics, 2012, 6, 509-523.	1.7	43

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37	Stationary Measures for Projective Transformations: The Blackwell and Furstenberg Measures. Journal of Statistical Physics, 2012, 148, 393-421.	1.2	18
38	Maximal Lyapunov exponents for random matrix products. Inventiones Mathematicae, 2010, 181, 209-226.	2.5	54
39	Multifractal analysis of non-uniformly hyperbolic systems. Israel Journal of Mathematics, 2010, 177, 125-144.	0.8	25
40	Normal points for generic hyperbolic maps. Fundamenta Mathematicae, 2009, 206, 271-280.	0.5	1
41	Large deviations for intermittent maps. Nonlinearity, 2009, 22, 2079-2092.	1.4	34
42	Large Deviations, Fluctuations and Shrinking Intervals. Communications in Mathematical Physics, 2009, 290, 321-334.	2.2	13
43	Ergodicity of the Geodesic Flow on Non-complete Negatively Curved Surfaces. Asian Journal of Mathematics, 2009, 13, 405-420.	0.3	6
44	How Smooth is Your Wavelet? Wavelet Regularity via Thermodynamic Formalism. Communications in Mathematical Physics, 2008, 281, 1-21.	2.2	6
45	Addendum: An analogue of Artin reciprocity for closed orbits of skew products. Ergodic Theory and Dynamical Systems, 2008, 28, 547-552.	0.6	0
46	An analogue of Bauer's theorem for closed orbits of skew products. Ergodic Theory and Dynamical Systems, 2008, 28, 535-546.	0.6	2
47	The mathematical research of William Parry FRS. Ergodic Theory and Dynamical Systems, 2008, 28, 321-337.	0.6	5
48	Stable ergodicity for partially hyperbolic attractors with negative central exponents. Journal of Modern Dynamics, 2008, 2, 63-81.	0.5	23
49	Multifractal analysis and the variance of Gibbs measures. Journal of the London Mathematical Society, 2007, 76, 57-72.	1.0	9
50	Chebotarev-type theorems in homology classes. Proceedings of the American Mathematical Society, 2007, 135, 3887-3895.	0.8	9
51	Large Deviation Results for Periodic Points of a Rational Map. Journal of Dynamical Systems and Geometric Theories, 2007, 5, 69-77.	0.2	1
52	Countable state shifts and uniqueness of g-measures. American Journal of Mathematics, 2007, 129, 1501-1511.	1.1	8
53	A dynamical approach to accelerating numerical integration with equidistributed points. Proceedings of the Steklov Institute of Mathematics, 2007, 256, 275-289.	0.3	4
54	Hausdorff Dimension for Randomly Perturbed Self Affine Attractors. Communications in Mathematical Physics, 2007, 270, 519-544.	2.2	63

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55	Pair correlations of sequences in higher dimensions. Israel Journal of Mathematics, 2007, 157, 219-238.	0.8	12
56	Correlations for pairs of closed geodesics. Inventiones Mathematicae, 2006, 163, 1-24.	2.5	25
57	Positive-measure self-similar sets without interior. Ergodic Theory and Dynamical Systems, 2006, 26, 755.	0.6	8
58	Properties of measures supported on fat Sierpinski carpets. Ergodic Theory and Dynamical Systems, 2006, 26, 739.	0.6	10
59	Orthonormal expansions of invariant densities for expanding maps. Advances in Mathematics, 2005, 192, 1-34.	1.1	11
60	Free Energy as a Geometric Invariant. Communications in Mathematical Physics, 2005, 260, 445-454.	2.2	0
61	Distribution results for lattices in SL(2,â„šp). Bulletin of the Brazilian Mathematical Society, 2005, 36, 143-176.	0.8	10
62	Transitivity of Euclidean extensions of Anosov diffeomorphisms. Ergodic Theory and Dynamical Systems, 2005, 25, 257-269.	0.6	15
63	Some remarks on the dynamics of the Mixmaster universe. Qualitative Theory of Dynamical Systems, 2004, 4, 425-438.	1.7	0
64	Livsic theorems, maximizing measures and the stable norm. Dynamical Systems, 2004, 19, 75-88.	0.4	16
65	Stable Ergodicity and Frame Flows. Geometriae Dedicata, 2003, 98, 189-210.	0.3	16
66	Free Energy as a Dynamical Invariant (or Can You Hear the Shape of a Potential?). Communications in Mathematical Physics, 2003, 240, 457-482.	2.2	11
67	Stability of mixing rates for Axiom A attractors. Nonlinearity, 2003, 16, 567-578.	1.4	11
68	Ergodic properties of linear actions of (2Ã—2)-matrices. Duke Mathematical Journal, 2003, 116, 353.	1.5	11
69	Hausdorff dimension and asymptotic cycles. Transactions of the American Mathematical Society, 2003, 355, 3241-3252.	0.9	2
70	Chapter 5 Periodic orbits and zeta functions. Handbook of Dynamical Systems, 2002, 1, 409-452.	0.6	1
71	Calculating Hausdorff dimension of Julia sets and Kleinian limit sets. American Journal of Mathematics, 2002, 124, 495-545.	1.1	53
72	Invariance Principles for Interval Maps with an Indifferent Fixed Point. Communications in Mathematical Physics, 2002, 229, 337-346.	2.2	14

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73	Contraction in mean and transfer operators. Dynamical Systems, 2001, 16, 97-106.	0.4	7
74	Error terms for closed orbits of hyperbolic flows. Ergodic Theory and Dynamical Systems, 2001, 21, 545-562.	0.6	18
75	LivÅ¡ic's theorem for semisimple Lie groups. Ergodic Theory and Dynamical Systems, 2001, 21, .	0.6	9
76	Statistical Properties of MapsÂ¶with Indifferent Periodic Points. Communications in Mathematical Physics, 2001, 217, 503-520.	2.2	27
77	Asymptotic Expansions for Closed Orbits in Homology Classes. Geometriae Dedicata, 2001, 87, 123-160.	0.3	41
78	Computing the dimension of dynamically defined sets: E_2 and bounded continued fractions. Ergodic Theory and Dynamical Systems, 2001, 21, .	0.6	33
79	Zeta functions for certain multi-dimensional non-hyperbolic maps. Nonlinearity, 2001, 14, 1265-1278.	1.4	2
80	Livsic theorems for connected Lie groups. Transactions of the American Mathematical Society, 2001, 353, 2879-2895.	0.9	34
81	Linear actions of free groups. Annales De L'Institut Fourier, 2001, 51, 131-150.	0.6	1
82	Non-homogeneous equilibrium states and convergence speeds of averaging operators. Mathematical Proceedings of the Cambridge Philosophical Society, 2000, 129, 99-115.	0.4	9
83	Computing Invariant Densities and Metric Entropy. Communications in Mathematical Physics, 2000, 211, 687-703.	2.2	14
84	Measurable Cocycle Rigidity for Some Non-Compact Groups. Bulletin of the London Mathematical Society, 1999, 31, 592-600.	0.8	12
85	Multifractal Analysis of Lyapunov Exponent for Continued Fraction and Manneville-Pomeau Transformations and Applications to Diophantine Approximation. Communications in Mathematical Physics, 1999, 207, 145-171.	2.2	94
86	Regularity of solutions to the measurable Livsic equation. Transactions of the American Mathematical Society, 1999, 351, 559-568.	0.9	11
87	On the mixing of Axiom A attracting flows and a conjecture of Ruelle. Ergodic Theory and Dynamical Systems, 1999, 19, 535-548.	0.6	20
88	Exponential error terms for growth functions on negatively curved surfaces. American Journal of Mathematics, 1998, 120, 1019-1042.	1.1	55
89	Large deviations for maps with indifferent fixed points. Nonlinearity, 1998, 11, 1173-1184.	1.4	21
90	Addendum to â€˜Periodic orbits and dynamical spectraâ€™. Ergodic Theory and Dynamical Systems, 1998, 18, 293-301.	0.6	11

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91	Comparison theorems and orbit counting in hyperbolic geometry. Transactions of the American Mathematical Society, 1998, 350, 473-499.	0.9	25
92	An entropy for $\mathbb{Z}^2$ -actions with finite entropy generators. Fundamenta Mathematicae, 1998, 157, 209-220.	0.5	10
93	The Livsic Cocycle Equation for Compact Lie Group Extensions of Hyperbolic Systems. Journal of the London Mathematical Society, 1997, 56, 405-416.	1.0	27
94	Poincaré series and zeta functions for surface group actions on $\mathbb{R}$-trees. Mathematische Zeitschrift, 1997, 226, 335-347.	0.9	1
95	Asymptotic Auto-Correlation for Closed Geodesics. Communications in Mathematical Physics, 1997, 187, 341-355.	2.2	1
96	A remarkable formula for the determinant of the Laplacian. Inventiones Mathematicae, 1997, 130, 399-414.	2.5	21
97	The circle problem on surfaces of variable negative curvature. Monatshefte Fur Mathematik, 1997, 123, 61-70.	0.9	5
98	Growth of periodic points and rotation vectors on surfaces. Topology, 1997, 36, 765-774.	0.3	2
99	Large deviations and the distribution of pre-images of rational maps. Communications in Mathematical Physics, 1996, 181, 733-739.	2.2	14
100	Growth series for the commutator subgroup. Proceedings of the American Mathematical Society, 1996, 124, 1329-1335.	0.8	5
101	Large deviations, gibbs measures and closed orbits for hyperbolic flows. Mathematische Zeitschrift, 1995, 220, 219-230.	0.9	11
102	One-dimensional maps via complex analysis in several variables. Israel Journal of Mathematics, 1995, 91, 317-339.	0.8	2
103	A Symbolic Proof of a Theorem of Margulis on Geodesic Arcs on Negatively Curved Manifolds. American Journal of Mathematics, 1995, 117, 289.	1.1	12
104	The Hausdorff Dimension of λ-Expansions with Deleted Digits. Transactions of the American Mathematical Society, 1995, 347, 967.	0.9	57
105	INFINITESIMAL RIGIDITY OF GROUP ACTIONS WITH HYPERBOLIC GENERATORS. , 1995, , 589-599.		1
106	Rates of Recurrence for Z^q and R^q Extensions of Subshifts of Finite Type. Journal of the London Mathematical Society, 1994, 49, 401-416.	1.0	18
107	The dimensions of some self-affine limit sets in the plane and hyperbolic sets. Journal of Statistical Physics, 1994, 77, 841-866.	1.2	39
108	Factorisation of Lefschetz zeta functions and twisted periodic orbits. Mathematische Zeitschrift, 1994, 217, 109-120.	0.9	0

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109	Orbit counting for some discrete groups acting on simply connected manifolds with negative curvature. Inventiones Mathematicae, 1994, 117, 275-302.	2.5	27
110	The Picard group, closed geodesics and zeta functions. Transactions of the American Mathematical Society, 1994, 344, 857-872.	0.9	0
111	Exponential mixing for the geodesic flow on hyperbolic three-manifolds. Journal of Statistical Physics, 1992, 67, 667-673.	1.2	20
112	Rotation sets for homeomorphisms and homology. Transactions of the American Mathematical Society, 1992, 331, 881-894.	0.9	11
113	Agmonâ€™s complex Tauberian theorem and closed orbits for hyperbolic and geodesic flows. Proceedings of the American Mathematical Society, 1992, 114, 1105-1108.	0.8	3
114	Zeta functions and analyticity of metric entropy for anosov systems. Israel Journal of Mathematics, 1991, 76, 257-263.	0.8	3
115	Some applications of thermodynamic formalism to manifolds with constant negative curvature. Advances in Mathematics, 1991, 85, 161-192.	1.1	52
116	A note on the Artuso-Aurell-Cvitanovic approach to the Feigenbaum tangent operator. Journal of Statistical Physics, 1991, 62, 257-267.	1.2	11
117	Homology and Closed Geodesics in a Compact Negatively Curved Surface. American Journal of Mathematics, 1991, 113, 379.	1.1	29
118	C k-rigidity for hyperbolic flows II. Israel Journal of Mathematics, 1990, 69, 351-360.	0.8	11
119	The Differential Zeta Function for Axiom A Attractors. Annals of Mathematics, 1990, 131, 331.	4.2	34
120	Kleinian groups, Laplacian on forms and currents at infinity. Proceedings of the American Mathematical Society, 1990, 110, 269-269.	0.8	2
121	Differentiability and analyticity of topological entropy for Anosov and geodesic flows. Inventiones Mathematicae, 1989, 98, 581-597.	2.5	79
122	C r-rigidity theorems for hyperbolic flows. Israel Journal of Mathematics, 1988, 61, 14-28.	0.8	4
123	Symbolic Dynamics for Smale Flows. American Journal of Mathematics, 1987, 109, 183.	1.1	19
124	Margulis distributions for Anosov flows. Communications in Mathematical Physics, 1987, 113, 137-154.	2.2	4
125	Hyperbolic Flows and Linking Numbers for Closed Orbits. Journal of the London Mathematical Society, 1986, s2-34, 185-192.	1.0	0
126	The Chebotarov theorem for Galois coverings of Axiom A flows. Ergodic Theory and Dynamical Systems, 1986, 6, 133-148.	0.6	45

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127	A note on uniform distribution for primes and closed orbits. Israel Journal of Mathematics, 1986, 55, 199-212.	0.8	2
128	Meromorphic extensions of generalised zeta functions. Inventiones Mathematicae, 1986, 85, 147-164.	2.5	133
129	Asymptotic distribution of closed geodesics. Israel Journal of Mathematics, 1985, 52, 209-224.	0.8	11
130	On the rate of mixing of Axiom A flows. Inventiones Mathematicae, 1985, 81, 413-426.	2.5	200
131	A complex Ruelle-Perron-Frobenius theorem and two counterexamples. Ergodic Theory and Dynamical Systems, 1984, 4, 135-146.	0.6	73
132	Computing entropy rates for hidden Markov processes. , 0, , 223-245.		4
133	Hyperbolic systems, zeta functions and other friends. Banach Center Publications, 0, 115, 145-182.	0.1	1
134	Exact dimensional for Bernoulli measures and the Gauss map. Proceedings of the American Mathematical Society, 0, , 1.	0.8	0