

Mark Pollicott

List of Publications by Year in descending order

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134
papers

2,205
citations

257450

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41
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136
all docs

136
docs citations

136
times ranked

617
citing authors

#	ARTICLE	IF	CITATIONS
1	On the rate of mixing of Axiom A flows. <i>Inventiones Mathematicae</i> , 1985, 81, 413-426.	2.5	200
2	Meromorphic extensions of generalised zeta functions. <i>Inventiones Mathematicae</i> , 1986, 85, 147-164.	2.5	133
3	Multifractal Analysis of Lyapunov Exponent for Continued Fraction and Manneville-Pomeau Transformations and Applications to Diophantine Approximation. <i>Communications in Mathematical Physics</i> , 1999, 207, 145-171.	2.2	94
4	Differentiability and analyticity of topological entropy for Anosov and geodesic flows. <i>Inventiones Mathematicae</i> , 1989, 98, 581-597.	2.5	79
5	A complex Ruelle-Perron-Frobenius theorem and two counterexamples. <i>Ergodic Theory and Dynamical Systems</i> , 1984, 4, 135-146.	0.6	73
6	Hausdorff Dimension for Randomly Perturbed Self Affine Attractors. <i>Communications in Mathematical Physics</i> , 2007, 270, 519-544.	2.2	63
7	The Hausdorff Dimension of β -Expansions with Deleted Digits. <i>Transactions of the American Mathematical Society</i> , 1995, 347, 967.	0.9	57
8	Exponential error terms for growth functions on negatively curved surfaces. <i>American Journal of Mathematics</i> , 1998, 120, 1019-1042.	1.1	55
9	Maximal Lyapunov exponents for random matrix products. <i>Inventiones Mathematicae</i> , 2010, 181, 209-226.	2.5	54
10	Calculating Hausdorff dimension of Julia sets and Kleinian limit sets. <i>American Journal of Mathematics</i> , 2002, 124, 495-545.	1.1	53
11	Some applications of thermodynamic formalism to manifolds with constant negative curvature. <i>Advances in Mathematics</i> , 1991, 85, 161-192.	1.1	52
12	Escape rates for Gibbs measures. <i>Ergodic Theory and Dynamical Systems</i> , 2012, 32, 961-988.	0.6	50
13	The Chebotarov theorem for Galois coverings of Axiom A flows. <i>Ergodic Theory and Dynamical Systems</i> , 1986, 6, 133-148.	0.6	45
14	Extracting the time-dependent transmission rate from infection data via solution of an inverse ODE problem. <i>Journal of Biological Dynamics</i> , 2012, 6, 509-523.	1.7	43
15	Asymptotic Expansions for Closed Orbits in Homology Classes. <i>Geometriae Dedicata</i> , 2001, 87, 123-160.	0.3	41
16	The dimensions of some self-affine limit sets in the plane and hyperbolic sets. <i>Journal of Statistical Physics</i> , 1994, 77, 841-866.	1.2	39
17	The Differential Zeta Function for Axiom A Attractors. <i>Annals of Mathematics</i> , 1990, 131, 331.	4.2	34
18	Large deviations for intermittent maps. <i>Nonlinearity</i> , 2009, 22, 2079-2092.	1.4	34

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19	Livsic theorems for connected Lie groups. Transactions of the American Mathematical Society, 2001, 353, 2879-2895.	0.9	34
20	Computing the dimension of dynamically defined sets: E_2 and bounded continued fractions. Ergodic Theory and Dynamical Systems, 2001, 21, .	0.6	33
21	Homology and Closed Geodesics in a Compact Negatively Curved Surface. American Journal of Mathematics, 1991, 113, 379.	1.1	29
22	Orbit counting for some discrete groups acting on simply connected manifolds with negative curvature. Inventiones Mathematicae, 1994, 117, 275-302.	2.5	27
23	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
24	Statistical Properties of Maps with Indifferent Periodic Points. Communications in Mathematical Physics, 2001, 217, 503-520.	2.2	27
25	Correlations for pairs of closed geodesics. Inventiones Mathematicae, 2006, 163, 1-24.	2.5	25
26	Multifractal analysis of non-uniformly hyperbolic systems. Israel Journal of Mathematics, 2010, 177, 125-144.	0.8	25
27	Comparison theorems and orbit counting in hyperbolic geometry. Transactions of the American Mathematical Society, 1998, 350, 473-499.	0.9	25
28	Stable ergodicity for partially hyperbolic attractors with negative central exponents. Journal of Modern Dynamics, 2008, 2, 63-81.	0.5	23
29	A remarkable formula for the determinant of the Laplacian. Inventiones Mathematicae, 1997, 130, 399-414.	2.5	21
30	Large deviations for maps with indifferent fixed points. Nonlinearity, 1998, 11, 1173-1184.	1.4	21
31	Exponential mixing for the geodesic flow on hyperbolic three-manifolds. Journal of Statistical Physics, 1992, 67, 667-673.	1.2	20
32	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
33	Symbolic Dynamics for Smale Flows. American Journal of Mathematics, 1987, 109, 183.	1.1	19
34	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
35	Error terms for closed orbits of hyperbolic flows. Ergodic Theory and Dynamical Systems, 2001, 21, 545-562.	0.6	18
36	Stationary Measures for Projective Transformations: The Blackwell and Furstenberg Measures. Journal of Statistical Physics, 2012, 148, 393-421.	1.2	18

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37	Rigorous effective bounds on the Hausdorff dimension of continued fraction Cantor sets: A hundred decimal digits for the dimension of E2. <i>Advances in Mathematics</i> , 2018, 325, 87-115.	1.1	18
38	Stable Ergodicity and Frame Flows. <i>Geometriae Dedicata</i> , 2003, 98, 189-210.	0.3	16
39	Livsic theorems, maximizing measures and the stable norm. <i>Dynamical Systems</i> , 2004, 19, 75-88.	0.4	16
40	Controlling the statistical properties of expanding maps. <i>Nonlinearity</i> , 2017, 30, 2737-2751.	1.4	16
41	Transitivity of Euclidean extensions of Anosov diffeomorphisms. <i>Ergodic Theory and Dynamical Systems</i> , 2005, 25, 257-269.	0.6	15
42	Large deviations and the distribution of pre-images of rational maps. <i>Communications in Mathematical Physics</i> , 1996, 181, 733-739.	2.2	14
43	Computing Invariant Densities and Metric Entropy. <i>Communications in Mathematical Physics</i> , 2000, 211, 687-703.	2.2	14
44	Invariance Principles for Interval Maps with an Indifferent Fixed Point. <i>Communications in Mathematical Physics</i> , 2002, 229, 337-346.	2.2	14
45	Large Deviations, Fluctuations and Shrinking Intervals. <i>Communications in Mathematical Physics</i> , 2009, 290, 321-334.	2.2	13
46	Linear response and periodic points. <i>Nonlinearity</i> , 2016, 29, 3047-3066.	1.4	13
47	A Symbolic Proof of a Theorem of Margulis on Geodesic Arcs on Negatively Curved Manifolds. <i>American Journal of Mathematics</i> , 1995, 117, 289.	1.1	12
48	Measurable Cocycle Rigidity for Some Non-Compact Groups. <i>Bulletin of the London Mathematical Society</i> , 1999, 31, 592-600.	0.8	12
49	Pair correlations of sequences in higher dimensions. <i>Israel Journal of Mathematics</i> , 2007, 157, 219-238.	0.8	12
50	Analyticity of dimensions for hyperbolic surface diffeomorphisms. <i>Proceedings of the American Mathematical Society</i> , 2015, 143, 3465-3474.	0.8	12
51	Asymptotic distribution of closed geodesics. <i>Israel Journal of Mathematics</i> , 1985, 52, 209-224.	0.8	11
52	C k-rigidity for hyperbolic flows II. <i>Israel Journal of Mathematics</i> , 1990, 69, 351-360.	0.8	11
53	A note on the Artuso-Aurell-Cvitanovic approach to the Feigenbaum tangent operator. <i>Journal of Statistical Physics</i> , 1991, 62, 257-267.	1.2	11
54	Large deviations, gibbs measures and closed orbits for hyperbolic flows. <i>Mathematische Zeitschrift</i> , 1995, 220, 219-230.	0.9	11

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55	Addendum to "Periodic orbits and dynamical spectra". Ergodic Theory and Dynamical Systems, 1998, 18, 293-301.	0.6	11
56	Regularity of solutions to the measurable Livsic equation. Transactions of the American Mathematical Society, 1999, 351, 559-568.	0.9	11
57	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
58	Stability of mixing rates for Axiom A attractors. Nonlinearity, 2003, 16, 567-578.	1.4	11
59	Ergodic properties of linear actions of $(2\tilde{A}-2)$ -matrices. Duke Mathematical Journal, 2003, 116, 353.	1.5	11
60	Orthonormal expansions of invariant densities for expanding maps. Advances in Mathematics, 2005, 192, 1-34.	1.1	11
61	Rotation sets for homeomorphisms and homology. Transactions of the American Mathematical Society, 1992, 331, 881-894.	0.9	11
62	Distribution results for lattices in $SL(2, \mathbb{Z})$. Bulletin of the Brazilian Mathematical Society, 2005, 36, 143-176.	0.8	10
63	Properties of measures supported on fat Sierpinski carpets. Ergodic Theory and Dynamical Systems, 2006, 26, 739.	0.6	10
64	A Weil-Petersson type metric on spaces of metric graphs. Geometriae Dedicata, 2014, 172, 229-244.	0.3	10
65	An entropy for \mathbb{Z}^2 -actions with finite entropy generators. Fundamenta Mathematicae, 1998, 157, 209-220.	0.5	10
66	Non-homogeneous equilibrium states and convergence speeds of averaging operators. Mathematical Proceedings of the Cambridge Philosophical Society, 2000, 129, 99-115.	0.4	9
67	Livsic's theorem for semisimple Lie groups. Ergodic Theory and Dynamical Systems, 2001, 21, .	0.6	9
68	Multifractal analysis and the variance of Gibbs measures. Journal of the London Mathematical Society, 2007, 76, 57-72.	1.0	9
69	Chebotarev-type theorems in homology classes. Proceedings of the American Mathematical Society, 2007, 135, 3887-3895.	0.8	9
70	Rigorous Computation of Diffusion Coefficients for Expanding Maps. Journal of Statistical Physics, 2018, 170, 221-253.	1.2	9
71	Positive-measure self-similar sets without interior. Ergodic Theory and Dynamical Systems, 2006, 26, 755.	0.6	8
72	Countable state shifts and uniqueness of g -measures. American Journal of Mathematics, 2007, 129, 1501-1511.	1.1	8

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73	Unique Bernoulli \mathbb{G} -measures. Journal of the European Mathematical Society, 2012, 14, 1599-1615.	1.4	8
74	Ergodic theory of Kusuoka measures. Journal of Fractal Geometry, 2017, 4, 185-214.	0.7	8
75	Contraction in mean and transfer operators. Dynamical Systems, 2001, 16, 97-106.	0.4	7
76	Estimating singularity dimension. Mathematical Proceedings of the Cambridge Philosophical Society, 2015, 158, 223-238.	0.4	7
77	Phase transitions in long-range Ising models and an optimal condition for factors of \mathbb{G} -measures. Ergodic Theory and Dynamical Systems, 2019, 39, 1317-1330.	0.6	7
78	How Smooth is Your Wavelet? Wavelet Regularity via Thermodynamic Formalism. Communications in Mathematical Physics, 2008, 281, 1-21.	2.2	6
79	Ergodicity of the Geodesic Flow on Non-complete Negatively Curved Surfaces. Asian Journal of Mathematics, 2009, 13, 405-420.	0.3	6
80	The circle problem on surfaces of variable negative curvature. Monatshefte Fur Mathematik, 1997, 123, 61-70.	0.9	5
81	The mathematical research of William Parry FRS. Ergodic Theory and Dynamical Systems, 2008, 28, 321-337.	0.6	5
82	Geometry and Dynamics of Planar Linkages. Communications in Mathematical Physics, 2013, 317, 615-634.	2.2	5
83	Micromasure distributions and applications for conformally generated fractals. Mathematical Proceedings of the Cambridge Philosophical Society, 2015, 159, 547-566.	0.4	5
84	A Nonlinear Transfer Operator Theorem. Journal of Statistical Physics, 2017, 166, 516-524.	1.2	5
85	Joint spectral radius, Sturmian measures and the finiteness conjecture. Ergodic Theory and Dynamical Systems, 2018, 38, 3062-3100.	0.6	5
86	Growth series for the commutator subgroup. Proceedings of the American Mathematical Society, 1996, 124, 1329-1335.	0.8	5
87	Margulis distributions for Anosov flows. Communications in Mathematical Physics, 1987, 113, 137-154.	2.2	4
88	C r -rigidity theorems for hyperbolic flows. Israel Journal of Mathematics, 1988, 61, 14-28.	0.8	4
89	A dynamical approach to accelerating numerical integration with equidistributed points. Proceedings of the Steklov Institute of Mathematics, 2007, 256, 275-289.	0.3	4
90	Computing entropy rates for hidden Markov processes. , 0, , 223-245.		4

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91	Correlations of Length Spectra for Negatively Curved Manifolds. Communications in Mathematical Physics, 2013, 319, 515-533.	2.2	4
92	Stationary measures associated to analytic iterated function schemes. Mathematische Nachrichten, 2018, 291, 1049-1054.	0.8	4
93	Zeta functions and analyticity of metric entropy for anosov systems. Israel Journal of Mathematics, 1991, 76, 257-263.	0.8	3
94	Weil's Petersson metrics, Manhattan curves and Hausdorff dimension. Mathematische Zeitschrift, 2016, 282, 1007-1016.	0.9	3
95	Agmon'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
96	Uniform lower bounds on the dimension of Bernoulli convolutions. Advances in Mathematics, 2022, 395, 108090.	1.1	3
97	A note on uniform distribution for primes and closed orbits. Israel Journal of Mathematics, 1986, 55, 199-212.	0.8	2
98	One-dimensional maps via complex analysis in several variables. Israel Journal of Mathematics, 1995, 91, 317-339.	0.8	2
99	Growth of periodic points and rotation vectors on surfaces. Topology, 1997, 36, 765-774.	0.3	2
100	Zeta functions for certain multi-dimensional non-hyperbolic maps. Nonlinearity, 2001, 14, 1265-1278.	1.4	2
101	Hausdorff dimension and asymptotic cycles. Transactions of the American Mathematical Society, 2003, 355, 3241-3252.	0.9	2
102	An analogue of Bauer's theorem for closed orbits of skew products. Ergodic Theory and Dynamical Systems, 2008, 28, 535-546.	0.6	2
103	A Note on the Growth of Periodic Points for Commuting Toral Automorphisms. ISRN Geometry, 2012, 2012, 1-15.	0.1	2
104	Logarithm Laws for Equilibrium States in Negative Curvature. Communications in Mathematical Physics, 2016, 346, 1-34.	2.2	2
105	How Many Inflections are There in the Lyapunov Spectrum?. Communications in Mathematical Physics, 2021, 386, 1383-1411.	2.2	2
106	Kleinian groups, Laplacian on forms and currents at infinity. Proceedings of the American Mathematical Society, 1990, 110, 269-269.	0.8	2
107	Poincaré series and zeta functions for surface group actions on $\hat{\mathbb{A}}_n$ -trees. Mathematische Zeitschrift, 1997, 226, 335-347.	0.9	1
108	Asymptotic Auto-Correlation for Closed Geodesics. Communications in Mathematical Physics, 1997, 187, 341-355.	2.2	1

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109	Chapter 5 Periodic orbits and zeta functions. Handbook of Dynamical Systems, 2002, 1, 409-452.	0.6	1
110	Large Deviation Results for Periodic Points of a Rational Map. Journal of Dynamical Systems and Geometric Theories, 2007, 5, 69-77.	0.2	1
111	Normal points for generic hyperbolic maps. Fundamenta Mathematicae, 2009, 206, 271-280.	0.5	1
112	Computing multifractal spectra. Dynamical Systems, 2015, 30, 404-425.	0.4	1
113	Uniform scaling limits for ergodic measures. Journal of Fractal Geometry, 2017, 4, 1-19.	0.7	1
114	Zeros of the Selberg zeta function for symmetric infinite area hyperbolic surfaces. Geometriae Dedicata, 2019, 201, 155-186.	0.3	1
115	Fourier multipliers and transfer operators. Journal of Fractal Geometry, 2021, 8, 189-199.	0.7	1
116	INFINITESIMAL RIGIDITY OF GROUP ACTIONS WITH HYPERBOLIC GENERATORS. , 1995, , 589-599.		1
117	Linear actions of free groups. Annales De L'Institut Fourier, 2001, 51, 131-150.	0.6	1
118	Hyperbolic systems, zeta functions and other friends. Banach Center Publications, 0, 115, 145-182.	0.1	1
119	Hyperbolic Flows and Linking Numbers for Closed Orbits. Journal of the London Mathematical Society, 1986, s2-34, 185-192.	1.0	0
120	Factorisation of Lefschetz zeta functions and twisted periodic orbits. Mathematische Zeitschrift, 1994, 217, 109-120.	0.9	0
121	Some remarks on the dynamics of the Mixmaster universe. Qualitative Theory of Dynamical Systems, 2004, 4, 425-438.	1.7	0
122	Free Energy as a Geometric Invariant. Communications in Mathematical Physics, 2005, 260, 445-454.	2.2	0
123	Addendum: An analogue of Artin reciprocity for closed orbits of skew products. Ergodic Theory and Dynamical Systems, 2008, 28, 547-552.	0.6	0
124	Amenable covers for surfaces and growth of closed geodesics. Advances in Mathematics, 2017, 319, 599-609.	1.1	0
125	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
126	Critical points for the Hausdorff dimension of pairs of pants. Groups, Geometry, and Dynamics, 2017, 11, 1497-1519.	0.5	0

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127	Statistical Properties of the Rauzy-Veech-Zorich Map. Lecture Notes in Mathematics, 2021, , 317-349.	0.2	0
128	Higher Teichmüller Theory for Surface Groups and Shifts of Finite Type. Lecture Notes in Mathematics, 2021, , 395-418.	0.2	0
129	The Schottky-Klein prime function and counting functions for Fenchel double crosses. Monatshefte Fur Mathematik, 2021, 195, 323-342.	0.9	0
130	Effective estimates of Lyapunov exponents for random products of positive matrices. Nonlinearity, 2021, 34, 6705-6718.	1.4	0
131	The Picard group, closed geodesics and zeta functions. Transactions of the American Mathematical Society, 1994, 344, 857-872.	0.9	0
132	Escape Rates for Conformal GDMSs and IFSs. Lecture Notes in Mathematics, 2017, , 87-145.	0.2	0
133	Exponential Mixing: Lectures from Mumbai. Infosys Science Foundation Series, 2019, , 135-167.	0.6	0
134	Exact dimensional for Bernoulli measures and the Gauss map. Proceedings of the American Mathematical Society, 0, , 1.	0.8	0