

Laurent Saloff-coste

List of Publications by Year in descending order

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57
papers

1,548
citations

482844

16
h-index

312420

38
g-index

61
all docs

61
docs citations

61
times ranked

509
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison Theorems for Reversible Markov Chains. <i>Annals of Applied Probability</i> , 1993, 3, 696.	1.3	283
2	Uniformly elliptic operators on Riemannian manifolds. <i>Journal of Differential Geometry</i> , 1992, 36, 417.	1.0	174
3	Isoperimétrie pour les groupes et les variétés. <i>Revista Matemática Iberoamericana</i> , 1993, 9, 293-314.	0.7	115
4	Random Walks on Finite Groups. <i>Encyclopaedia of Mathematical Sciences</i> , 2004, , 263-346.	0.0	100
5	On the relation between elliptic and parabolic Harnack inequalities. <i>Annales De L'Institut Fourier</i> , 2001, 51, 1437-1481.	0.6	86
6	Gibbs Sampling, Exponential Families and Orthogonal Polynomials. <i>Statistical Science</i> , 2008, 23, .	2.9	81
7	Stability results for Harnack inequalities. <i>Annales De L'Institut Fourier</i> , 2005, 55, 825-890.	0.6	67
8	Analyse sur les groupes de Lie à croissance polynomiale. <i>Arkiv for Matematik</i> , 1990, 28, 315-331.	0.4	65
9	Separation cut-offs for birth and death chains. <i>Annals of Applied Probability</i> , 2006, 16, .	1.3	54
10	The Cutoff Phenomenon for Ergodic Markov Processes. <i>Electronic Journal of Probability</i> , 2008, 13, .	1.0	48
11	Bounds for Kac's Master Equation. <i>Communications in Mathematical Physics</i> , 2000, 209, 729-755.	2.3	46
12	Dirichlet heat kernel in the exterior of a compact set. <i>Communications on Pure and Applied Mathematics</i> , 2002, 55, 93-133.	3.1	41
13	Heat kernel on manifolds with ends. <i>Annales De L'Institut Fourier</i> , 2009, 59, 1917-1997.	0.6	38
14	Hitting probabilities for Brownian motion on Riemannian manifolds. <i>Journal Des Mathématiques Pures Et Appliquées</i> , 2002, 81, 115-142.	1.7	32
15	Convolution powers of complex functions on. <i>Mathematische Nachrichten</i> , 2014, 287, 1106-1130.	0.7	19
16	Heat kernel on connected sums of Riemannian manifolds. <i>Mathematical Research Letters</i> , 1999, 6, 307-321.	0.5	19
17	Backward Ricci flow on locally homogeneous 3-manifolds. <i>Communications in Analysis and Geometry</i> , 2009, 17, 305-325.	0.4	16
18	Surgery of the Faber-Krahn inequality and applications to heat kernel bounds. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2016, 131, 243-272.	1.1	15

#	ARTICLE	IF	CITATIONS
19	Semi-groupes d'opérateurs et espaces fonctionnels sur les groupes de Lie. Journal of Approximation Theory, 1991, 65, 176-199.	0.8	14
20	Comparison of Cutoffs Between Lazy Walks and Markovian Semigroups. Journal of Applied Probability, 2013, 50, 943-959.	0.8	14
21	Transition operators, groups, norms, and spectral radii. Pacific Journal of Mathematics, 1997, 180, 333-367.	0.4	14
22	Gibbs sampling, conjugate priors and coupling. Sankhya A, 2010, 72, 136-169.	0.8	12
23	The Dirichlet heat kernel in inner uniform domains: Local results, compact domains and non-symmetric forms. Journal of Functional Analysis, 2014, 266, 4189-4235.	1.4	12
24	The heat semigroup and Brownian motion on strip complexes. Advances in Mathematics, 2011, 226, 992-1055.	1.1	11
25	The backward behavior of the Ricci and cross-curvature flows on $\mathrm{SL}(2, \mathbb{R})$. Communications in Analysis and Geometry, 2009, 17, 777-796.	0.4	11
26	The L^2 -cutoff for reversible Markov processes. Journal of Functional Analysis, 2010, 258, 2246-2315.	1.4	10
27	On the Convolution Powers of Complex Functions on \mathbb{Z} . Journal of Fourier Analysis and Applications, 2015, 21, 754-798.	1.0	10
28	Random walks driven by low moment measures. Annals of Probability, 2012, 40, .	1.8	9
29	Random walks and isoperimetric profiles under moment conditions. Annals of Probability, 2016, 44, .	1.8	9
30	Convolution powers of complex functions on \mathbb{Z}^d . Revista Matemática Iberoamericana, 2017, 33, 1045-1121.	0.7	9
31	Some Inequalities for Superharmonic Functions on Graphs. Potential Analysis, 1997, 6, 163-181.	0.9	8
32	Heat kernel estimates on connected sums of parabolic manifolds. Journal Des Mathématiques Pures Et Appliquées, 2018, 113, 155-194.	1.7	8
33	Random walks on nilpotent groups driven by measures supported on powers of generators. Groups, Geometry, and Dynamics, 2015, 9, 1047-1129.	0.4	8
34	Cross Curvature Flow on Locally Homogeneous Three-manifolds (II). Asian Journal of Mathematics, 2009, 13, 421-458.	0.3	8
35	Computing Norms of Group-Invariant Transition Operators. Combinatorics Probability and Computing, 1996, 5, 161-178.	1.2	7
36	Left-invariant geometries on $SU(2)$ are uniformly doubling. Geometric and Functional Analysis, 2018, 28, 1321-1367.	1.8	6

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37	Stochastic alternating projections. Illinois Journal of Mathematics, 2010, 54, .	0.2	6
38	Surjectivity of the Taylor map for complex nilpotent Lie groups. Mathematical Proceedings of the Cambridge Philosophical Society, 2009, 146, 177-195.	0.6	5
39	Random walks on free solvable groups. Mathematische Zeitschrift, 2015, 279, 811-848.	0.9	5
40	The cutoff phenomenon for randomized riffle shuffles. Random Structures and Algorithms, 2008, 32, 346-374.	1.1	4
41	A geometric criterion for the boundedness of characteristic classes. Mathematische Annalen, 2011, 351, 541-569.	1.3	4
42	Large deviations for stable like random walks on \mathbb{Z}^d with applications to random walks on wreath products. Electronic Journal of Probability, 2013, 18, .	1.0	4
43	Widder's Representation Theorem for Symmetric Local Dirichlet Spaces. Journal of Theoretical Probability, 2014, 27, 1178-1212.	0.8	4
44	On the sample paths of Brownian motions on compact infinite dimensional groups. Annals of Probability, 2003, 31, 1464.	1.8	3
45	Brownian motion on treebolic space: escape to infinity. Revista Matematica Iberoamericana, 2015, 31, 935-976.	0.7	2
46	On Some Random Walks Driven by Spread-Out Measures. , 0, , 444-474.		2
47	Isoperimetric profiles and random walks on some permutation wreath products. Revista Matematica Iberoamericana, 2018, 34, 481-540.	0.7	2
48	Time Regularity for Local Weak Solutions of the Heat Equation on Local Dirichlet Spaces. Potential Analysis, 2024, 60, 79-137.	0.9	2
49	Inequalities for p -superharmonic functions on networks. Milan Journal of Mathematics, 1995, 65, 139-158.	0.1	1
50	Spectral computations for birth and death chains. Stochastic Processes and Their Applications, 2014, 124, 848-882.	0.9	1
51	Poincaré inequality: From remote balls to all balls. Nonlinear Analysis: Theory, Methods & Applications, 2014, 108, 161-172.	1.1	1
52	Random Walks on Some Countable Groups. , 0, , 77-103.		1
53	Isoperimetric profiles and random walks on some groups defined by piecewise actions. Probability Theory and Related Fields, 0, , 1.	1.7	1
54	Brownian motion on treebolic space: positive harmonic functions. Annales De L'Institut Fourier, 2016, 66, 1691-1731.	0.6	1

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55	On-diagonal asymptotics for heat kernels of a class of inhomogeneous partial differential operators. <i>Journal of Differential Equations</i> , 2023, 363, 67-125.	2.2	1
56	Harnack inequality under the change of metric. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2015, 115, 89-102.	1.1	0
57	Rough hypoellipticity for the heat equation in Dirichlet spaces. <i>Mathematische Nachrichten</i> , 0, , .	0.7	0