Laurent Saloff-Coste

List of Publications by Year
in descending order

62 papers	**1,639** citations	471509 **17** h-index	302126 **39** g-index
63 all docs	**63** docs citations	**63** times ranked	**572** citing authors

#	Article	IF	Citations
1	Analytic-geometric methods for finite Markov chains with applications to quasi-stationarity. Alea, 2020, 17, 901.	0.7	4
2	Davies' method for heat-kernel estimates: An extension to the semi-elliptic setting. Transactions of the American Mathematical Society, 2020, 373, 2525-2565.	0.9	3
3	Heat kernel estimates on connected sums of parabolic manifolds. Journal Des Mathematiques Pures Et Appliquees, 2018, 113, 155-194.	1.6	8
4	Isoperimetric profiles and random walks on some permutation wreath products. Revista Matematica Iberoamericana, 2018, 34, 481-540.	0.9	2
5	Left-invariant geometries on SU(2) are uniformly doubling. Geometric and Functional Analysis, 2018, 28, 1321-1367.	1.8	6
6	Convolution powers of complex functions on $\mathbb Z^d$. Revista Matematica Iberoamericana, 2017, 33, 1045-1121.	0.9	9
7	Random walks and isoperimetric profiles under moment conditions. Annals of Probability, 2016, 44, .	1.8	9
8	Surgery of the Faber–Krahn inequality and applications to heat kernel bounds. Nonlinear Analysis: Theory, Methods & Applications, 2016, 131, 243-272.	1.1	13
9	Brownian motion on treebolic space: positive harmonic functions. Annales De L'Institut Fourier, 2016, 66, 1691-1731.	0.6	1
10	Brownian motion on treebolic space: escape to infinity. Revista Matematica Iberoamericana, 2015, 31, 935-976.	0.9	2
11	Harnack inequality under the change of metric. Nonlinear Analysis: Theory, Methods & Applications, 2015, 115, 89-102.	1.1	0
12	Random walks on free solvable groups. Mathematische Zeitschrift, 2015, 279, 811-848.	0.9	5
13	On the Convolution Powers of Complex Functions on $\mathbb {Z}$ Z. Journal of Fourier Analysis and Applications, 2015, 21, 754-798.	1.0	9
14	Random walks on nilpotent groups driven by measures supported on powers of generators. Groups, Geometry, and Dynamics, 2015, 9, 1047-1129.	0.5	8
15	Widder's Representation Theorem for Symmetric Local Dirichlet Spaces. Journal of Theoretical Probability, 2014, 27, 1178-1212.	0.8	4
16	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
17	Spectral computations for birth and death chains. Stochastic Processes and Their Applications, 2014, 124, 848-882.	0.9	1
18	Convolution powers of complex functions on. Mathematische Nachrichten, 2014, 287, 1106-1130.	0.8	18

#	ARTICLE	IF	CITATIONS
19	PoincarÃ© inequality: From remote balls to all balls. Nonlinear Analysis: Theory, Methods & Applications, 2014, 108, 161-172.	1.1	1
20	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
21	Comparison of Cutoffs Between Lazy Walks and Markovian Semigroups. Journal of Applied Probability, 2013, 50, 943-959.	0.7	14
22	Random walks driven by low moment measures. Annals of Probability, 2012, 40, .	1.8	9
23	A geometric criterion for the boundedness of characteristic classes. Mathematische Annalen, 2011, 351, 541-569.	1.4	4
24	The heat semigroup and Brownian motion on strip complexes. Advances in Mathematics, 2011, 226, 992-1055.	1.1	11
25	Gibbs sampling, conjugate priors and coupling. Sankhya A, 2010, 72, 136-169.	0.8	12
26	The L^2-cutoff for reversible Markov processes. Journal of Functional Analysis, 2010, 258, 2246-2315.	1.4	10
27	Stochastic alternating projections. Illinois Journal of Mathematics, 2010, 54, .	0.1	6
28	Surjectivity of the Taylor map for complex nilpotent Lie groups. Mathematical Proceedings of the Cambridge Philosophical Society, 2009, 146, 177-195.	0.4	5
29	Cross Curvature Flow on Locally Homogeneous Three-manifolds (II). Asian Journal of Mathematics, 2009, 13, 421-458.	0.3	6
30	Backward Ricci flow on locally homogeneous 3-manifolds. Communications in Analysis and Geometry, 2009, 17, 305-325.	0.4	16
31	The backward behavior of the Ricci and cross-curvature flows on $\mbox{SL}(2, \mathbb{R})$. Communications in Analysis and Geometry, 2009, 17, 777-796.	0.4	10
32	Heat kernel on manifolds with ends. Annales De L'Institut Fourier, 2009, 59, 1917-1997.	0.6	36
33	The cutoff phenomenon for randomized riffle shuffles. Random Structures and Algorithms, 2008, 32, 346-374.	1.1	4
34	Weak uncertainty principle for fractals, graphs and metric measure spaces. Transactions of the American Mathematical Society, 2008, 360, 3857-3874.	0.9	10
35	Gibbs Sampling, Exponential Families and Orthogonal Polynomials. Statistical Science, 2008, 23, .	2.8	81
36	The Cutoff Phenomenon for Ergodic Markov Processes. Electronic Journal of Probability, 2008, 13, .	1.0	48

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37	Ultracontractivity and embedding into L âˆ. Mathematische Annalen, 2007, 337, 817-853.	1.4	12
38	Hypoelliptic Bi-Invariant Laplacians on Infinite Dimensional Compact Groups. Canadian Journal of Mathematics, 2006, 58, 691-725.	0.6	2
39	Separation cut-offs for birth and death chains. Annals of Applied Probability, 2006, 16, .	1.3	53
40	Spaces of smooth functions and distributions on infinite-dimensional compact groups. Journal of Functional Analysis, 2005, 218, 168-218.	1.4	6
41	Stability results for Harnack inequalities. Annales De L'Institut Fourier, 2005, 55, 825-890.	0.6	65
42	Random Walks on Finite Groups. Encyclopaedia of Mathematical Sciences, 2004, , 263-346.	0.1	100
43	On the sample paths of Brownian motions on compact infinite dimensional groups. Annals of Probability, 2003, 31, 1464.	1.8	3
44	Dirichlet heat kernel in the exterior of a compact set. Communications on Pure and Applied Mathematics, 2002, 55, 93-133.	3.1	38
45	Some dichotomy results for central Gaussian convolution semigroups on compact groups. Probability Theory and Related Fields, 2002, 124, 561-573.	1.8	3
46	Hitting probabilities for Brownian motion on Riemannian manifolds. Journal Des Mathematiques Pures Et Appliquees, 2002, 81, 115-142.	1.6	30
47	Harnack inequality and hyperbolicity for subelliptic p -Laplacians with applications to Picard type theorems. Geometric and Functional Analysis, 2001, 11, 1139-1191.	1.8	50
48	On the relation between elliptic and parabolic Harnack inequalities. Annales De L'Institut Fourier, 2001, 51, 1437-1481.	0.6	85
49	Bounds for Kac's Master Equation. Communications in Mathematical Physics, 2000, 209, 729-755.	2.2	44
50	On the stability of the behavior of random walks on groups. Journal of Geometric Analysis, 2000, 10, 713-737.	1.0	54
51	Heat kernel on connected sums of Riemannian manifolds. Mathematical Research Letters, 1999, 6, 307-321.	0.5	18
52	Some Inequalities for Superharmonic Functions on Graphs. Potential Analysis, 1997, 6, 163-181.	0.9	8
53	Transition operators, groups, norms, and spectral radii. Pacific Journal of Mathematics, 1997, 180, 333-367.	0.5	13
54	Computing Norms of Group-Invariant Transition Operators. Combinatorics Probability and Computing, 1996, 5, 161-178.	1.3	7

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55	Inequalities forp-superharmonic functions on networks. Milan Journal of Mathematics, 1995, 65, 139-158.	0.1	1
56	Comparison Theorems for Reversible Markov Chains. Annals of Applied Probability, 1993, 3, 696.	1.3	280
57	Isopérimétrie pour les groupes et les variétés. Revista Matematica Iberoamericana, 1993, 9, 293-314.	0.9	112
58	Uniformly elliptic operators on Riemannian manifolds. Journal of Differential Geometry, 1992, 36, 417.	1.1	171
59	Analyse sur les groupes de Lie à croissance polynômiale. Arkiv for Matematik, 1990, 28, 315-331.	0.5	65
60	Random Walks on Some Countable Groups. , 0, , 77-103.		1
61	On Some Random Walks Driven by Spread-Out Measures. , 0, , 444-474.		2
62	Isoperimetric profiles and random walks on some groups defined by piecewise actions. Probability Theory and Related Fields, 0, , 1.	1.8	1