

Laurent Saloff-Coste

List of Publications by Year in descending order

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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	Comparison Theorems for Reversible Markov Chains. <i>Annals of Applied Probability</i> , 1993, 3, 696.	1.3	280
2	Uniformly elliptic operators on Riemannian manifolds. <i>Journal of Differential Geometry</i> , 1992, 36, 417.	1.1	171
3	Isopérimétrie pour les groupes et les variétés. <i>Revista Matemática Iberoamericana</i> , 1993, 9, 293-314.	0.9	112
4	Random Walks on Finite Groups. <i>Encyclopaedia of Mathematical Sciences</i> , 2004, , 263-346.	0.1	100
5	On the relation between elliptic and parabolic Harnack inequalities. <i>Annales De L'Institut Fourier</i> , 2001, 51, 1437-1481.	0.6	85
6	Gibbs Sampling, Exponential Families and Orthogonal Polynomials. <i>Statistical Science</i> , 2008, 23, .	2.8	81
7	Analyse sur les groupes de Lie à croissance polynômiale. <i>Arkiv for Matematik</i> , 1990, 28, 315-331.	0.5	65
8	Stability results for Harnack inequalities. <i>Annales De L'Institut Fourier</i> , 2005, 55, 825-890.	0.6	65
9	On the stability of the behavior of random walks on groups. <i>Journal of Geometric Analysis</i> , 2000, 10, 713-737.	1.0	54
10	Separation cut-offs for birth and death chains. <i>Annals of Applied Probability</i> , 2006, 16, .	1.3	53
11	Harnack inequality and hyperbolicity for subelliptic p -Laplacians with applications to Picard type theorems. <i>Geometric and Functional Analysis</i> , 2001, 11, 1139-1191.	1.8	50
12	The Cutoff Phenomenon for Ergodic Markov Processes. <i>Electronic Journal of Probability</i> , 2008, 13, .	1.0	48
13	Bounds for Kac's Master Equation. <i>Communications in Mathematical Physics</i> , 2000, 209, 729-755.	2.2	44
14	Dirichlet heat kernel in the exterior of a compact set. <i>Communications on Pure and Applied Mathematics</i> , 2002, 55, 93-133.	3.1	38
15	Heat kernel on manifolds with ends. <i>Annales De L'Institut Fourier</i> , 2009, 59, 1917-1997.	0.6	36
16	Hitting probabilities for Brownian motion on Riemannian manifolds. <i>Journal Des Mathématiques Pures Et Appliquées</i> , 2002, 81, 115-142.	1.6	30
17	Convolution powers of complex functions on. <i>Mathematische Nachrichten</i> , 2014, 287, 1106-1130.	0.8	18
18	Heat kernel on connected sums of Riemannian manifolds. <i>Mathematical Research Letters</i> , 1999, 6, 307-321.	0.5	18

#	ARTICLE	IF	CITATIONS
19	Backward Ricci flow on locally homogeneous 3-manifolds. Communications in Analysis and Geometry, 2009, 17, 305-325.	0.4	16
20	Comparison of Cutoffs Between Lazy Walks and Markovian Semigroups. Journal of Applied Probability, 2013, 50, 943-959.	0.7	14
21	Surgery of the Faber-Krahn inequality and applications to heat kernel bounds. Nonlinear Analysis: Theory, Methods & Applications, 2016, 131, 243-272.	1.1	13
22	Transition operators, groups, norms, and spectral radii. Pacific Journal of Mathematics, 1997, 180, 333-367.	0.5	13
23	Ultracontractivity and embedding into L^{∞} . Mathematische Annalen, 2007, 337, 817-853.	1.4	12
24	Gibbs sampling, conjugate priors and coupling. Sankhya A, 2010, 72, 136-169.	0.8	12
25	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
26	The heat semigroup and Brownian motion on strip complexes. Advances in Mathematics, 2011, 226, 992-1055.	1.1	11
27	Weak uncertainty principle for fractals, graphs and metric measure spaces. Transactions of the American Mathematical Society, 2008, 360, 3857-3874.	0.9	10
28	The $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle L \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ -cutoff for reversible Markov processes. Journal of Functional Analysis, 2010, 258, 2246-2315.	1.4	10
29	The backward behavior of the Ricci and cross-curvature flows on $\text{SL}(2, \mathbb{R})$. Communications in Analysis and Geometry, 2009, 17, 777-796.	0.4	10
30	Random walks driven by low moment measures. Annals of Probability, 2012, 40, .	1.8	9
31	On the Convolution Powers of Complex Functions on \mathbb{Z} . Journal of Fourier Analysis and Applications, 2015, 21, 754-798.	1.0	9
32	Random walks and isoperimetric profiles under moment conditions. Annals of Probability, 2016, 44, .	1.8	9
33	Convolution powers of complex functions on \mathbb{Z}^d . Revista Matemática Iberoamericana, 2017, 33, 1045-1121.	0.9	9
34	Some Inequalities for Superharmonic Functions on Graphs. Potential Analysis, 1997, 6, 163-181.	0.9	8
35	Heat kernel estimates on connected sums of parabolic manifolds. Journal Des Mathematiques Pures Et Appliquees, 2018, 113, 155-194.	1.6	8
36	Random walks on nilpotent groups driven by measures supported on powers of generators. Groups, Geometry, and Dynamics, 2015, 9, 1047-1129.	0.5	8

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37	Computing Norms of Group-Invariant Transition Operators. <i>Combinatorics Probability and Computing</i> , 1996, 5, 161-178.	1.3	7
38	Spaces of smooth functions and distributions on infinite-dimensional compact groups. <i>Journal of Functional Analysis</i> , 2005, 218, 168-218.	1.4	6
39	Left-invariant geometries on $SU(2)$ are uniformly doubling. <i>Geometric and Functional Analysis</i> , 2018, 28, 1321-1367.	1.8	6
40	Cross Curvature Flow on Locally Homogeneous Three-manifolds (II). <i>Asian Journal of Mathematics</i> , 2009, 13, 421-458.	0.3	6
41	Stochastic alternating projections. <i>Illinois Journal of Mathematics</i> , 2010, 54, .	0.1	6
42	Surjectivity of the Taylor map for complex nilpotent Lie groups. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2009, 146, 177-195.	0.4	5
43	Random walks on free solvable groups. <i>Mathematische Zeitschrift</i> , 2015, 279, 811-848.	0.9	5
44	The cutoff phenomenon for randomized riffle shuffles. <i>Random Structures and Algorithms</i> , 2008, 32, 346-374.	1.1	4
45	A geometric criterion for the boundedness of characteristic classes. <i>Mathematische Annalen</i> , 2011, 351, 541-569.	1.4	4
46	Large deviations for stable like random walks on \mathbb{Z}^d with applications to random walks on wreath products. <i>Electronic Journal of Probability</i> , 2013, 18, .	1.0	4
47	Widder's Representation Theorem for Symmetric Local Dirichlet Spaces. <i>Journal of Theoretical Probability</i> , 2014, 27, 1178-1212.	0.8	4
48	Analytic-geometric methods for finite Markov chains with applications to quasi-stationarity. <i>Alea</i> , 2020, 17, 901.	0.7	4
49	Some dichotomy results for central Gaussian convolution semigroups on compact groups. <i>Probability Theory and Related Fields</i> , 2002, 124, 561-573.	1.8	3
50	On the sample paths of Brownian motions on compact infinite dimensional groups. <i>Annals of Probability</i> , 2003, 31, 1464.	1.8	3
51	Davies's method for heat-kernel estimates: An extension to the semi-elliptic setting. <i>Transactions of the American Mathematical Society</i> , 2020, 373, 2525-2565.	0.9	3
52	Hypoelliptic Bi-Invariant Laplacians on Infinite Dimensional Compact Groups. <i>Canadian Journal of Mathematics</i> , 2006, 58, 691-725.	0.6	2
53	Brownian motion on treebolic space: escape to infinity. <i>Revista Matemática Iberoamericana</i> , 2015, 31, 935-976.	0.9	2
54	On Some Random Walks Driven by Spread-Out Measures. , 0, , 444-474.		2

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55	Isoperimetric profiles and random walks on some permutation wreath products. <i>Revista Matemática Iberoamericana</i> , 2018, 34, 481-540.	0.9	2
56	Inequalities for p -superharmonic functions on networks. <i>Milan Journal of Mathematics</i> , 1995, 65, 139-158.	0.1	1
57	Spectral computations for birth and death chains. <i>Stochastic Processes and Their Applications</i> , 2014, 124, 848-882.	0.9	1
58	Poincaré inequality: From remote balls to all balls. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2014, 108, 161-172.	1.1	1
59	Random Walks on Some Countable Groups. , 0, , 77-103.		1
60	Isoperimetric profiles and random walks on some groups defined by piecewise actions. <i>Probability Theory and Related Fields</i> , 0, , 1.	1.8	1
61	Brownian motion on treebolic space: positive harmonic functions. <i>Annales De L'Institut Fourier</i> , 2016, 66, 1691-1731.	0.6	1
62	Harnack inequality under the change of metric. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2015, 115, 89-102.	1.1	0