

Laurent Saloff-Coste

List of Publications by Year in descending order

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62
papers

1,639
citations

471061

17
h-index

301761

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. <i>Alea</i> , 2020, 17, 901.	0.3	4
2	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.	0.5	3
3	Heat kernel estimates on connected sums of parabolic manifolds. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2018, 113, 155-194.	0.8	8
4	Isoperimetric profiles and random walks on some permutation wreath products. <i>Revista Matematica Iberoamericana</i> , 2018, 34, 481-540.	0.4	2
5	Left-invariant geometries on $SU(2)$ are uniformly doubling. <i>Geometric and Functional Analysis</i> , 2018, 28, 1321-1367.	0.6	6
6	Convolution powers of complex functions on \mathbb{Z}^d . <i>Revista Matematica Iberoamericana</i> , 2017, 33, 1045-1121.	0.4	9
7	Random walks and isoperimetric profiles under moment conditions. <i>Annals of Probability</i> , 2016, 44, .	0.8	9
8	Surgery of the Faber-Krahn inequality and applications to heat kernel bounds. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2016, 131, 243-272.	0.6	13
9	Brownian motion on treebolic space: positive harmonic functions. <i>Annales De L'Institut Fourier</i> , 2016, 66, 1691-1731.	0.2	1
10	Brownian motion on treebolic space: escape to infinity. <i>Revista Matematica Iberoamericana</i> , 2015, 31, 935-976.	0.4	2
11	Harnack inequality under the change of metric. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2015, 115, 89-102.	0.6	0
12	Random walks on free solvable groups. <i>Mathematische Zeitschrift</i> , 2015, 279, 811-848.	0.4	5
13	On the Convolution Powers of Complex Functions on \mathbb{Z} . <i>Journal of Fourier Analysis and Applications</i> , 2015, 21, 754-798.	0.5	9
14	Random walks on nilpotent groups driven by measures supported on powers of generators. <i>Groups, Geometry, and Dynamics</i> , 2015, 9, 1047-1129.	0.3	8
15	Widder's Representation Theorem for Symmetric Local Dirichlet Spaces. <i>Journal of Theoretical Probability</i> , 2014, 27, 1178-1212.	0.4	4
16	The Dirichlet heat kernel in inner uniform domains: Local results, compact domains and non-symmetric forms. <i>Journal of Functional Analysis</i> , 2014, 266, 4189-4235.	0.7	12
17	Spectral computations for birth and death chains. <i>Stochastic Processes and Their Applications</i> , 2014, 124, 848-882.	0.4	1
18	Convolution powers of complex functions on. <i>Mathematische Nachrichten</i> , 2014, 287, 1106-1130.	0.4	18

#	ARTICLE	IF	CITATIONS
19	Poincaré inequality: From remote balls to all balls. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2014, 108, 161-172.	0.6	1
20	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, .	0.5	4
21	Comparison of Cutoffs Between Lazy Walks and Markovian Semigroups. <i>Journal of Applied Probability</i> , 2013, 50, 943-959.	0.4	14
22	Random walks driven by low moment measures. <i>Annals of Probability</i> , 2012, 40, .	0.8	9
23	A geometric criterion for the boundedness of characteristic classes. <i>Mathematische Annalen</i> , 2011, 351, 541-569.	0.7	4
24	The heat semigroup and Brownian motion on strip complexes. <i>Advances in Mathematics</i> , 2011, 226, 992-1055.	0.5	11
25	Gibbs sampling, conjugate priors and coupling. <i>Sankhya A</i> , 2010, 72, 136-169.	0.4	12
26	The L^2 -cutoff for reversible Markov processes. <i>Journal of Functional Analysis</i> , 2010, 258, 2246-2315.	0.7	10
27	Stochastic alternating projections. <i>Illinois Journal of Mathematics</i> , 2010, 54, .	0.1	6
28	Surjectivity of the Taylor map for complex nilpotent Lie groups. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2009, 146, 177-195.	0.3	5
29	Cross Curvature Flow on Locally Homogeneous Three-manifolds (II). <i>Asian Journal of Mathematics</i> , 2009, 13, 421-458.	0.3	6
30	Backward Ricci flow on locally homogeneous 3-manifolds. <i>Communications in Analysis and Geometry</i> , 2009, 17, 305-325.	0.2	16
31	The backward behavior of the Ricci and cross-curvature flows on $\mathrm{SL}(2, \mathbb{R})$. <i>Communications in Analysis and Geometry</i> , 2009, 17, 777-796.	0.2	10
32	Heat kernel on manifolds with ends. <i>Annales De L'Institut Fourier</i> , 2009, 59, 1917-1997.	0.2	36
33	The cutoff phenomenon for randomized riffle shuffles. <i>Random Structures and Algorithms</i> , 2008, 32, 346-374.	0.6	4
34	Weak uncertainty principle for fractals, graphs and metric measure spaces. <i>Transactions of the American Mathematical Society</i> , 2008, 360, 3857-3874.	0.5	10
35	Gibbs Sampling, Exponential Families and Orthogonal Polynomials. <i>Statistical Science</i> , 2008, 23, .	1.6	81
36	The Cutoff Phenomenon for Ergodic Markov Processes. <i>Electronic Journal of Probability</i> , 2008, 13, .	0.5	48

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37	Ultracontractivity and embedding into L^∞ . <i>Mathematische Annalen</i> , 2007, 337, 817-853.	0.7	12
38	Hypoelliptic Bi-Invariant Laplacians on Infinite Dimensional Compact Groups. <i>Canadian Journal of Mathematics</i> , 2006, 58, 691-725.	0.3	2
39	Separation cut-offs for birth and death chains. <i>Annals of Applied Probability</i> , 2006, 16, .	0.6	53
40	Spaces of smooth functions and distributions on infinite-dimensional compact groups. <i>Journal of Functional Analysis</i> , 2005, 218, 168-218.	0.7	6
41	Stability results for Harnack inequalities. <i>Annales De L'Institut Fourier</i> , 2005, 55, 825-890.	0.2	65
42	Random Walks on Finite Groups. <i>Encyclopaedia of Mathematical Sciences</i> , 2004, , 263-346.	0.1	100
43	On the sample paths of Brownian motions on compact infinite dimensional groups. <i>Annals of Probability</i> , 2003, 31, 1464.	0.8	3
44	Dirichlet heat kernel in the exterior of a compact set. <i>Communications on Pure and Applied Mathematics</i> , 2002, 55, 93-133.	1.2	38
45	Some dichotomy results for central Gaussian convolution semigroups on compact groups. <i>Probability Theory and Related Fields</i> , 2002, 124, 561-573.	0.9	3
46	Hitting probabilities for Brownian motion on Riemannian manifolds. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2002, 81, 115-142.	0.8	30
47	Harnack inequality and hyperbolicity for subelliptic p -Laplacians with applications to Picard type theorems. <i>Geometric and Functional Analysis</i> , 2001, 11, 1139-1191.	0.6	50
48	On the relation between elliptic and parabolic Harnack inequalities. <i>Annales De L'Institut Fourier</i> , 2001, 51, 1437-1481.	0.2	85
49	Bounds for Kac's Master Equation. <i>Communications in Mathematical Physics</i> , 2000, 209, 729-755.	1.0	44
50	On the stability of the behavior of random walks on groups. <i>Journal of Geometric Analysis</i> , 2000, 10, 713-737.	0.5	54
51	Heat kernel on connected sums of Riemannian manifolds. <i>Mathematical Research Letters</i> , 1999, 6, 307-321.	0.2	18
52	Some Inequalities for Superharmonic Functions on Graphs. <i>Potential Analysis</i> , 1997, 6, 163-181.	0.4	8
53	Transition operators, groups, norms, and spectral radii. <i>Pacific Journal of Mathematics</i> , 1997, 180, 333-367.	0.2	13
54	Computing Norms of Group-Invariant Transition Operators. <i>Combinatorics Probability and Computing</i> , 1996, 5, 161-178.	0.8	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.	0.6	280
57	Isopérimétrie pour les groupes et les variétés. Revista Matematica Iberoamericana, 1993, 9, 293-314.	0.4	112
58	Uniformly elliptic operators on Riemannian manifolds. Journal of Differential Geometry, 1992, 36, 417.	0.5	171
59	Analyse sur les groupes de Lie à croissance polynômiale. Arkiv for Matematik, 1990, 28, 315-331.	0.2	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.	0.9	1