Cl?udio Landim

List of Publications by Year
in descending order

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127 papers	4,397 citations	147726 31 h-index	110317 64 g-index
130 all docs	130 docs citations	130 times ranked	948 citing authors

#	Article	IF	Citations
1	Scaling Limits of Interacting Particle Systems. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 1999, , .	0.3	688
2	Macroscopic fluctuation theory. Reviews of Modern Physics, 2015, 87, 593-636.	16.4	395
3	Macroscopic Fluctuation Theory for Stationary Non-Equilibrium States. Journal of Statistical Physics, 2002, 107, 635-675.	0.5	328
4	Fluctuations in Stationary Nonequilibrium States of Irreversible Processes. Physical Review Letters, 2001, 87, 040601.	2.9	254
5	Current Fluctuations in Stochastic Lattice Gases. Physical Review Letters, 2005, 94, 030601.	2.9	214
6	Non Equilibrium Current Fluctuations in Stochastic Lattice Gases. Journal of Statistical Physics, 2006, 123, 237-276.	0.5	143
7	Stochastic interacting particle systems out of equilibrium. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P07014-P07014.	0.9	123
8	Fluctuations in Markov Processes. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2012, , .	0.3	93
9	Towards a Nonequilibrium Thermodynamics: AÂSelf-Contained Macroscopic Description of Driven Diffusive Systems. Journal of Statistical Physics, 2009, 135, 857-872.	0.5	90
10	Tunneling and Metastability of Continuous Time Markov Chains. Journal of Statistical Physics, 2010, 140, 1065-1114.	0.5	82
11	Driven Tracer Particle in One Dimensional Symmetric Simple Exclusion. Communications in Mathematical Physics, 1998, 192, 287-307.	1.0	70
12	Asymmetric conservative processes with random rates. Stochastic Processes and Their Applications, 1996, 61, 181-204.	0.4	60
13	Large Deviations for the Boundary Driven Symmetric Simple Exclusion Process. Mathematical Physics Analysis and Geometry, 2003, 6, 231-267.	0.4	55
14	Fluctuation-dissipation equation of asymmetric simple exclusion processes. Probability Theory and Related Fields, 1997, 108, 321-356.	0.9	48
15	Nonequilibrium central limit theorem for a tagged particle in symmetric simple exclusion. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2006, 42, 567-577.	0.7	47
16	Tunneling and Metastability of Continuous Time Markov Chains II, the Nonreversible Case. Journal of Statistical Physics, 2012, 149, 598-618.	0.5	45
17	Clausius Inequality and Optimality of Quasistatic Transformations for Nonequilibrium Stationary States. Physical Review Letters, 2013, 110, 020601.	2.9	45
18	Diffusions with Divergence Free Drifts. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2012, , 345-373.	0.3	45

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19	Convection-diffusion equation with space-time ergodic random flow. Probability Theory and Related Fields, 1998, 112, 203-220.	0.9	42
20	Onsager Reciprocity Relations without Microscopic Reversibility. Physical Review Letters, 1996, 77, 1202-1205.	2.9	41
21	Minimum Dissipation Principle in Stationary Non-Equilibrium States. Journal of Statistical Physics, 2004, 116, 831-841.	0.5	41
22	Large deviations for a reaction diffusion model. Probability Theory and Related Fields, 1993, 97, 339-361.	0.9	40
23	A Dirichlet principle for non reversible Markov chains and some recurrence theorems. Probability Theory and Related Fields, 2014, 158, 55-89.	0.9	40
24	Spectral gap for zero-range dynamics. Annals of Probability, 1996, 24, .	0.8	40
25	Superdiffusivity of Asymmetric Exclusion Process in Dimensions One and Two. Communications in Mathematical Physics, 2004, 244, 455-481.	1.0	39
26	Metastability of reversible condensed zero range processes on a finite set. Probability Theory and Related Fields, 2012, 152, 781-807.	0.9	39
27	Hydrodynamical limit for a nongradient system: The generalized symmetric exclusion process. Communications on Pure and Applied Mathematics, 1994, 47, 1475-1545.	1.2	37
28	Metastability for a Non-reversible Dynamics: The Evolution of the Condensate in Totally Asymmetric Zero Range Processes. Communications in Mathematical Physics, 2014, 330, 1-32.	1.0	34
29	Hydrodynamic limit for a particle system with degenerate rates. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2009, 45, .	0.7	34
30	Large deviation approach to non equilibrium processes in stochastic lattice gases. Bulletin of the Brazilian Mathematical Society, 2006, 37, 611-643.	0.3	32
31	Lagrangian phase transitions in nonequilibrium thermodynamic systems. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, L11001.	0.9	32
32	Occupation Time Large Deviations for the Symmetric Simple Exclusion Process. Annals of Probability, 1992, 20, .	0.8	31
33	Equilibrium fluctuations of asymmetric simple exclusion processes in dimension dâ‰¥3. Probability Theory and Related Fields, 2001, 119, 381-409.	0.9	30
34	A Martingale approach to metastability. Probability Theory and Related Fields, 2015, 161, 267-307.	0.9	30
35	Large deviations from the hydrodynamical limit of mean zero asymmetric zero range processes. Stochastic Processes and Their Applications, 1995, 55, 65-89.	0.4	29
36	Some properties of the diffusion coefficient for asymmetric simple exclusion processes. Annals of Probability, 1996, 24, 1779.	0.8	29

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37	Relaxation to Equilibrium of Conservative Dynamics. I: Zero-Range Processes. Annals of Probability, 1999, 27, 325.	0.8	29
38	Symmetric Simple Exclusion Process:Â¶Regularity of the Self-Diffusion Coefficient. Communications in Mathematical Physics, 2001, 224, 307-321.	1.0	29
39	Thermodynamic Transformations of Nonequilibrium States. Journal of Statistical Physics, 2012, 149, 773-802.	0.5	28
40	Hydrodynamic Limit of Gradient Exclusion Processes with Conductances. Archive for Rational Mechanics and Analysis, 2010, 195, 409-439.	1.1	27
41	Dynamical large deviations for the boundary driven weakly asymmetric exclusion process. Annals of Probability, 2009, 37, .	0.8	27
42	Condensation for a Fixed Number of Independent Random Variables. Journal of Statistical Physics, 2007, 128, 1153-1158.	0.5	26
43	Dirichletâ€™s and Thomsonâ€™s Principles for Non-selfadjoint Elliptic Operators with Application to Non-reversible Metastable Diffusion Processes. Archive for Rational Mechanics and Analysis, 2019, 231, 887-938.	1.1	26
44	Hydrodynamical limit for space inhomogeneous one-dimensional totally asymmetric zero-range processes. Annals of Probability, 1996, 24, 599.	0.8	25
45	Metastability of reversible finite state Markov processes. Stochastic Processes and Their Applications, 2011, 121, 1633-1677.	0.4	24
46	Conservation of Local Equilibrium for Attractive Particle Systems on Z^d. Annals of Probability, 1993, 21, 1782.	0.8	22
47	First-order correction for the hydrodynamic limit of asymmetric simple exclusion processes in dimensiond ? 3. Communications on Pure and Applied Mathematics, 1997, 50, 149-203.	1.2	22
48	Onsager Symmetry from Microscopic TP Invariance. Journal of Statistical Physics, 1999, 96, 639-652.	0.5	22
49	Hydrodynamic behavior of 1D subdiffusive exclusion processes with random conductances. Probability Theory and Related Fields, 2009, 144, 633-667.	0.9	22
50	Quenched scaling limits of trap models. Annals of Probability, 2011, 39, .	0.8	22
51	Large Deviations of the Empirical Current in Interacting Particle Systems. Theory of Probability and Its Applications, 2007, 51, 2-27.	0.1	21
52	Trou spectral et inÃ©galitÃ©s de Sobolev logarithmiques pour des systÃ©mes de spins conservatifs et non bornÃ©s. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2002, 38, 739-777.	0.7	20
53	Fluctuations in the Weakly Asymmetric Exclusion Process with Open Boundary Conditions. Journal of Statistical Physics, 2005, 118, 795-811.	0.5	19
54	Quenched non-equilibrium central limit theorem for a tagged particle in the exclusion process with bond disorder. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2008, 44, .	0.7	19

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55	Metastability of the Two-Dimensional Blumeâ€“Capel Model with Zero Chemical Potential and Small Magnetic Field. Journal of Statistical Physics, 2016, 164, 346-376.	0.5	19
56	Nonequilibrium fluctuations for a tagged particle in mean-zero one-dimensional zero-range processes. Probability Theory and Related Fields, 2009, 145, 565-590.	0.9	18
57	Hydrostatics and dynamical large deviations of boundary driven gradient symmetric exclusion processes. Stochastic Processes and Their Applications, 2011, 121, 725-758.	0.4	18
58	Metastability of Nonreversible Random Walks in a Potential Field and the Eyringâ€Kramers Transition Rate Formula. Communications on Pure and Applied Mathematics, 2018, 71, 203-266.	1.2	18
59	Metastable Markov chains. Probability Surveys, 2019, 16, .	0.8	18
60	Convergence to the maximal invariant measure for a zero-range process with random rates. Stochastic Processes and Their Applications, 2000, 90, 67-81.	0.4	17
61	Asymptotic behavior of a tagged particle in simple exclusion processes. Sociedade Brasileira De Matematica Boletim, Nova Serie, 2000, 31, 241-275.	0.2	17
62	Poisson trees, succession lines and coalescing random walks. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2004, 40, 141-152.	0.7	17
63	Metastability of Non-reversible, Mean-Field Potts Model with Three Spins. Journal of Statistical Physics, 2016, 165, 693-726.	0.5	17
64	Equilibrium fluctuations for a driven tracer particle dynamics. Stochastic Processes and Their Applications, 2000, 85, 139-158.	0.4	15
65	On Viscosity and Fluctuation-Dissipation in Exclusion Processes. Journal of Statistical Physics, 2004, 115, 323-363.	0.5	15
66	Large deviations of interacting particle systems in infinite volume. Communications on Pure and Applied Mathematics, 1995, 48, 339-379.	1.2	15
67	Metastability of Reversible Random Walks in Potential Fields. Journal of Statistical Physics, 2015, 160, 1449-1482.	0.5	14
68	Hitting Times of Rare Events in Markov Chains. Journal of Statistical Physics, 2013, 153, 967-990.	0.5	13
69	Finite-dimensional approximation of the self-diffusion coefficient for the exclusion process. Annals of Probability, 2002, 30, .	0.8	13
70	Action functional and quasiâ€potential for the burgers equation in a bounded interval. Communications on Pure and Applied Mathematics, 2011, 64, 649-696.	1.2	12
71	Hydrostatics and dynamical large deviations for a reaction-diffusion model. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2018, 54, .	0.7	12
72	Universality of trap models in the ergodic time scale. Annals of Probability, 2014, 42, .	0.8	11

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73	A topology for limits of Markov chains. Stochastic Processes and Their Applications, 2015, 125, 1058-1088.	0.4	10
74	Derivation of Cahn-Hilliard equations from Ginzburg-Landau models. Journal of Statistical Physics, 1997, 88, 365-381.	0.5	9
75	Strong Asymmetric Limit of the Quasi-Potential of the Boundary Driven Weakly Asymmetric Exclusion Process. Communications in Mathematical Physics, 2009, 289, 311-334.	1.0	9
76	A martingale problem for an absorbed diffusion: the nucleation phase of condensing zero range processes. Probability Theory and Related Fields, 2017, 169, 1169-1220.	0.9	9
77	Metastable Markov chains: from the convergence of the trace to the convergence of the finite-dimensional distributions. Electronic Journal of Probability, 2018, 23, .	0.5	9
78	Convergence to equilibrium of conservative particle systems on $mathbb{Z}^{m{d}}$. Annals of Probability, 2003, 31, .	0.8	9
79	Superdiffusivity of Two Dimensional Lattice Gas Models. Journal of Statistical Physics, 2005, 119, 963-995.	0.5	8
80	Tunneling of the Kawasaki dynamics at low temperatures in two dimensions. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2015, 51, .	0.7	8
81	A microscopic model for Stefanâ€™s melting and freezing problem. Annals of Probability, 2006, 34, .	0.8	8
82	Hydrodynamic Limit for a Nongradient Interacting Particle System with Stochastic Reservoirs. Theory of Probability and Its Applications, 2001, 45, 604-623.	0.1	7
83	Zero-temperature limit of the Kawasaki dynamics for the Ising lattice gas in a large two-dimensional torus. Annals of Probability, 2015, 43, .	0.8	7
84	Quantitative analysis of the Clausius inequality. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P10018.	0.9	7
85	Metastability of one-dimensional, non-reversible diffusions with periodic boundary conditions. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2019, 55, .	0.7	7
86	Metastability of finite state Markov chains: a recursive procedure to identify slow variables for model reduction. Alea, 2016, 13, 725.	0.3	7
87	Exponential Waiting Time for a Big Gap in a One-Dimensional Zero-Range Process. Annals of Probability, 1994, 22, 284.	0.8	6
88	Equilibrium fluctuations for exclusion processes with speed change. Stochastic Processes and Their Applications, 1994, 52, 107-118.	0.4	6
89	Equilibrium fluctuations for zero range processes in random environment. Stochastic Processes and Their Applications, 1998, 77, 187-205.	0.4	6
90	Hydrodynamic Limit of Asymmetric Exclusion Processes Under Diffusive Scaling in dâ‰¥3. Communications in Mathematical Physics, 2004, 249, 215-247.	1.0	6

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91	Nonequilibrium fluctuations of one-dimensional boundary driven weakly asymmetric exclusion processes. Annals of Applied Probability, 2017, 27, .	0.6	6
92	Static large deviations for a reactionâ€“diffusion model. Probability Theory and Related Fields, 2019, 174, 49-101.	0.9	6
93	Occupation time large deviations of two-dimensional symmetric simple exclusion process. Annals of Probability, 2004, 32, 661.	0.8	5
94	Entropy of Stationary Nonequilibrium Measures ofÂBoundary Driven Symmetric Simple Exclusion Processes. Journal of Statistical Physics, 2010, 141, 1014-1038.	0.5	5
95	Nonequilibrium fluctuations for a tagged particle in one-dimensional sublinear zero-range processes. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2013, 49, .	0.7	5
96	Stationary States of Boundary Driven Exclusion Processes with Nonreversible Boundary Dynamics. Journal of Statistical Physics, 2018, 171, 599-631.	0.5	5
97	Metastability of the Two-Dimensional Blume-Capel Model with Zero Chemical Potential and Small Magnetic Field on a Large Torus. Journal of Statistical Physics, 2019, 175, 456-494.	0.5	5
98	A lattice gas model for the incompressible Navierâ€“Stokes equation. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2008, 44, .	0.7	3
99	Firstâ€order correction for the hydrodynamic limit of asymmetric simple exclusion processes in dimension d â‰¥ 3. Communications on Pure and Applied Mathematics, 1997, 50, 149-203.	1.2	3
100	Exponential estimate for reaction diffusion models. Probability Theory and Related Fields, 1996, 106, 151-186.	0.9	2
101	Gabrielli, Jona-Lasinio, and Landim Reply:. Physical Review Letters, 1997, 78, 395-395.	2.9	2
102	Poincarï¿½ and logarithmic Sobolev inequality for Ginzburg-landau processes in random environment. Probability Theory and Related Fields, 2005, 131, 229-260.	0.9	2
103	Central Limit Theorem for Markov Processes. , 2003, , 145-205.		2
104	Gaussian estimates for symmetric simple exclusion processes. Annales De La FacultÃ© Des Sciences De Toulouse, 2005, 14, 683-703.	0.3	2
105	Diffusive behavior of asymmetric zero-range processes. Journal of Statistical Physics, 1997, 87, 577-591.	0.5	1
106	A Markovian Growth Dynamics on Rooted Binary Trees Evolving According to the Gompertz Curve. Journal of Statistical Physics, 2012, 148, 565-578.	0.5	1
107	Entropy of Non-equilibrium Stationary Measures of Boundary Driven TASEP. Journal of Statistical Physics, 2014, 154, 378-420.	0.5	1
108	A Correction to the Hydrodynamic Limit of Boundary Driven Weakly Asymmetric Exclusion Processes in a Quasi-Static Time Scale. Journal of Statistical Physics, 2016, 163, 1079-1107.	0.5	1

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109	From Coalescing Random Walks on a Torus to Kingmanâ€™s Coalescent. Journal of Statistical Physics, 2019, 177, 1172-1206.	0.5	1
110	Derivation of viscous Burgers equations from weakly asymmetric exclusion processes. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2021, 57, .	0.7	1
111	The Simple Exclusion Process. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2012, , 155-197.	0.3	1
112	The Brazilian Public Schools Math Olympics (OBMEP): 15Âyears promoting social mobility through academic achievement. ZDM - International Journal on Mathematics Education, 0, , 1.	1.3	1
113	Thermodynamics of Nonequilibrium Driven Diffusive Systems in Mild Contact with Boundary Reservoirs. Journal of Statistical Physics, 2022, 188, .	0.5	1
114	An Example of Reversible Gradient System: Symmetric Zero Range Processes. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 1999, , 67-114.	0.3	0
115	The Relative Entropy Method. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 1999, , 115-139.	0.3	0
116	Hydrodynamic Limit of Reversible Nongradient Systems. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 1999, , 141-189.	0.3	0
117	Hydrodynamic Limit of Asymmetric Attractive Processes. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 1999, , 191-229.	0.3	0
118	Large Deviations from the Hydrodynamic Limit. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 1999, , 257-285.	0.3	0
119	Equilibrium Fluctuations of Reversible Dynamics. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 1999, , 287-310.	0.3	0
120	Interacting Particle Systems and Hydrodynamic Equations. , 2006, , 123-129.		0
121	Diffusions in Random Environments. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2012, , 293-329.	0.3	0
122	Regularity of the Asymptotic Variance. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2012, , 275-289.	0.3	0
123	Diffusions with Gaussian Drifts. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2012, , 375-435.	0.3	0
124	Self-diffusion. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2012, , 199-240.	0.3	0
125	Central Limit Theorems. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2012, , 33-79.	0.3	0
126	Equilibrium Fluctuations of the Density Field. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2012, , 241-274.	0.3	0

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127	A Large Deviations Principle for the Polar Empirical Measure in the Two-Dimensional Symmetric Simple Exclusion Process. Springer Proceedings in Mathematics and Statistics, 2019, , 215-242.	0.1	0