

Cludio Landim

List of Publications by Year in descending order

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127
papers

4,397
citations

147726

31
h-index

110317

64
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130
all docs

130
docs citations

130
times ranked

948
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamics of Nonequilibrium Driven Diffusive Systems in Mild Contact with Boundary Reservoirs. <i>Journal of Statistical Physics</i> , 2022, 188, .	0.5	1
2	Derivation of viscous Burgers equations from weakly asymmetric exclusion processes. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2021, 57, .	0.7	1
3	Static large deviations for a reaction-diffusion model. <i>Probability Theory and Related Fields</i> , 2019, 174, 49-101.	0.9	6
4	From Coalescing Random Walks on a Torus to Kingman's Coalescent. <i>Journal of Statistical Physics</i> , 2019, 177, 1172-1206.	0.5	1
5	Metastability of the Two-Dimensional Blume-Capel Model with Zero Chemical Potential and Small Magnetic Field on a Large Torus. <i>Journal of Statistical Physics</i> , 2019, 175, 456-494.	0.5	5
6	Dirichlet's and Thomson's Principles for Non-selfadjoint Elliptic Operators with Application to Non-reversible Metastable Diffusion Processes. <i>Archive for Rational Mechanics and Analysis</i> , 2019, 231, 887-938.	1.1	26
7	Metastability of one-dimensional, non-reversible diffusions with periodic boundary conditions. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2019, 55, .	0.7	7
8	Metastable Markov chains. <i>Probability Surveys</i> , 2019, 16, .	0.8	18
9	A Large Deviations Principle for the Polar Empirical Measure in the Two-Dimensional Symmetric Simple Exclusion Process. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019, , 215-242.	0.1	0
10	Hydrostatics and dynamical large deviations for a reaction-diffusion model. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2018, 54, .	0.7	12
11	Metastability of Nonreversible Random Walks in a Potential Field and the Eyring-Kramers Transition Rate Formula. <i>Communications on Pure and Applied Mathematics</i> , 2018, 71, 203-266.	1.2	18
12	Stationary States of Boundary Driven Exclusion Processes with Nonreversible Boundary Dynamics. <i>Journal of Statistical Physics</i> , 2018, 171, 599-631.	0.5	5
13	Metastable Markov chains: from the convergence of the trace to the convergence of the finite-dimensional distributions. <i>Electronic Journal of Probability</i> , 2018, 23, .	0.5	9
14	A martingale problem for an absorbed diffusion: the nucleation phase of condensing zero range processes. <i>Probability Theory and Related Fields</i> , 2017, 169, 1169-1220.	0.9	9
15	Nonequilibrium fluctuations of one-dimensional boundary driven weakly asymmetric exclusion processes. <i>Annals of Applied Probability</i> , 2017, 27, .	0.6	6
16	Metastability of the Two-Dimensional Blume-Capel Model with Zero Chemical Potential and Small Magnetic Field. <i>Journal of Statistical Physics</i> , 2016, 164, 346-376.	0.5	19
17	Metastability of Non-reversible, Mean-Field Potts Model with Three Spins. <i>Journal of Statistical Physics</i> , 2016, 165, 693-726.	0.5	17
18	A Correction to the Hydrodynamic Limit of Boundary Driven Weakly Asymmetric Exclusion Processes in a Quasi-Static Time Scale. <i>Journal of Statistical Physics</i> , 2016, 163, 1079-1107.	0.5	1

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19	Metastability of finite state Markov chains: a recursive procedure to identify slow variables for model reduction. <i>Alea</i> , 2016, 13, 725.	0.3	7
20	Tunneling of the Kawasaki dynamics at low temperatures in two dimensions. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2015, 51, .	0.7	8
21	Zero-temperature limit of the Kawasaki dynamics for the Ising lattice gas in a large two-dimensional torus. <i>Annals of Probability</i> , 2015, 43, .	0.8	7
22	Metastability of Reversible Random Walks in Potential Fields. <i>Journal of Statistical Physics</i> , 2015, 160, 1449-1482.	0.5	14
23	Quantitative analysis of the Clausius inequality. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P10018.	0.9	7
24	Macroscopic fluctuation theory. <i>Reviews of Modern Physics</i> , 2015, 87, 593-636.	16.4	395
25	A topology for limits of Markov chains. <i>Stochastic Processes and Their Applications</i> , 2015, 125, 1058-1088.	0.4	10
26	A Martingale approach to metastability. <i>Probability Theory and Related Fields</i> , 2015, 161, 267-307.	0.9	30
27	Entropy of Non-equilibrium Stationary Measures of Boundary Driven TASEP. <i>Journal of Statistical Physics</i> , 2014, 154, 378-420.	0.5	1
28	Metastability for a Non-reversible Dynamics: The Evolution of the Condensate in Totally Asymmetric Zero Range Processes. <i>Communications in Mathematical Physics</i> , 2014, 330, 1-32.	1.0	34
29	A Dirichlet principle for non reversible Markov chains and some recurrence theorems. <i>Probability Theory and Related Fields</i> , 2014, 158, 55-89.	0.9	40
30	Universality of trap models in the ergodic time scale. <i>Annals of Probability</i> , 2014, 42, .	0.8	11
31	Clausius Inequality and Optimality of Quasistatic Transformations for Nonequilibrium Stationary States. <i>Physical Review Letters</i> , 2013, 110, 020601.	2.9	45
32	Hitting Times of Rare Events in Markov Chains. <i>Journal of Statistical Physics</i> , 2013, 153, 967-990.	0.5	13
33	Nonequilibrium fluctuations for a tagged particle in one-dimensional sublinear zero-range processes. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2013, 49, .	0.7	5
34	Thermodynamic Transformations of Nonequilibrium States. <i>Journal of Statistical Physics</i> , 2012, 149, 773-802.	0.5	28
35	A Markovian Growth Dynamics on Rooted Binary Trees Evolving According to the Gompertz Curve. <i>Journal of Statistical Physics</i> , 2012, 148, 565-578.	0.5	1
36	Tunneling and Metastability of Continuous Time Markov Chains II, the Nonreversible Case. <i>Journal of Statistical Physics</i> , 2012, 149, 598-618.	0.5	45

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37	Fluctuations in Markov Processes. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2012, ,	0.3	93
38	Metastability of reversible condensed zero range processes on a finite set. Probability Theory and Related Fields, 2012, 152, 781-807.	0.9	39
39	Diffusions with Divergence Free Drifts. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2012, , 345-373.	0.3	45
40	Diffusions in Random Environments. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2012, , 293-329.	0.3	0
41	Regularity of the Asymptotic Variance. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2012, , 275-289.	0.3	0
42	Diffusions with Gaussian Drifts. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2012, , 375-435.	0.3	0
43	Self-diffusion. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2012, , 199-240.	0.3	0
44	Central Limit Theorems. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2012, , 33-79.	0.3	0
45	Equilibrium Fluctuations of the Density Field. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2012, , 241-274.	0.3	0
46	The Simple Exclusion Process. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 2012, , 155-197.	0.3	1
47	Quenched scaling limits of trap models. Annals of Probability, 2011, 39, .	0.8	22
48	Hydrostatics and dynamical large deviations of boundary driven gradient symmetric exclusion processes. Stochastic Processes and Their Applications, 2011, 121, 725-758.	0.4	18
49	Action functional and quasi-potential for the burgers equation in a bounded interval. Communications on Pure and Applied Mathematics, 2011, 64, 649-696.	1.2	12
50	Metastability of reversible finite state Markov processes. Stochastic Processes and Their Applications, 2011, 121, 1633-1677.	0.4	24
51	Lagrangian phase transitions in nonequilibrium thermodynamic systems. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, L11001.	0.9	32
52	Hydrodynamic Limit of Gradient Exclusion Processes with Conductances. Archive for Rational Mechanics and Analysis, 2010, 195, 409-439.	1.1	27
53	Tunneling and Metastability of Continuous Time Markov Chains. Journal of Statistical Physics, 2010, 140, 1065-1114.	0.5	82
54	Entropy of Stationary Nonequilibrium Measures of Boundary Driven Symmetric Simple Exclusion Processes. Journal of Statistical Physics, 2010, 141, 1014-1038.	0.5	5

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55	Hydrodynamic behavior of 1D subdiffusive exclusion processes with random conductances. Probability Theory and Related Fields, 2009, 144, 633-667.	0.9	22
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	Towards a Nonequilibrium Thermodynamics: A Self-Contained Macroscopic Description of Driven Diffusive Systems. Journal of Statistical Physics, 2009, 135, 857-872.	0.5	90
58	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
59	Hydrodynamic limit for a particle system with degenerate rates. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2009, 45, .	0.7	34
60	Dynamical large deviations for the boundary driven weakly asymmetric exclusion process. Annals of Probability, 2009, 37, .	0.8	27
61	A lattice gas model for the incompressible Navier-Stokes equation. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2008, 44, .	0.7	3
62	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
63	Stochastic interacting particle systems out of equilibrium. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P07014-P07014.	0.9	123
64	Large Deviations of the Empirical Current in Interacting Particle Systems. Theory of Probability and Its Applications, 2007, 51, 2-27.	0.1	21
65	Condensation for a Fixed Number of Independent Random Variables. Journal of Statistical Physics, 2007, 128, 1153-1158.	0.5	26
66	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
67	Interacting Particle Systems and Hydrodynamic Equations. , 2006, , 123-129.		0
68	Non Equilibrium Current Fluctuations in Stochastic Lattice Gases. Journal of Statistical Physics, 2006, 123, 237-276.	0.5	143
69	Large deviation approach to non equilibrium processes in stochastic lattice gases. Bulletin of the Brazilian Mathematical Society, 2006, 37, 611-643.	0.3	32
70	A microscopic model for Stefan's melting and freezing problem. Annals of Probability, 2006, 34, .	0.8	8
71	Poincaré's $1/2$ and logarithmic Sobolev inequality for Ginzburg-landau processes in random environment. Probability Theory and Related Fields, 2005, 131, 229-260.	0.9	2
72	Fluctuations in the Weakly Asymmetric Exclusion Process with Open Boundary Conditions. Journal of Statistical Physics, 2005, 118, 795-811.	0.5	19

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73	Superdiffusivity of Two Dimensional Lattice Gas Models. Journal of Statistical Physics, 2005, 119, 963-995.	0.5	8
74	Current Fluctuations in Stochastic Lattice Gases. Physical Review Letters, 2005, 94, 030601.	2.9	214
75	Gaussian estimates for symmetric simple exclusion processes. Annales De La Faculté Des Sciences De Toulouse, 2005, 14, 683-703.	0.3	2
76	Occupation time large deviations of two-dimensional symmetric simple exclusion process. Annals of Probability, 2004, 32, 661.	0.8	5
77	On Viscosity and Fluctuation-Dissipation in Exclusion Processes. Journal of Statistical Physics, 2004, 115, 323-363.	0.5	15
78	Minimum Dissipation Principle in Stationary Non-Equilibrium States. Journal of Statistical Physics, 2004, 116, 831-841.	0.5	41
79	Superdiffusivity of Asymmetric Exclusion Process in Dimensions One and Two. Communications in Mathematical Physics, 2004, 244, 455-481.	1.0	39
80	Hydrodynamic Limit of Asymmetric Exclusion Processes Under Diffusive Scaling in $d \geq 3$. Communications in Mathematical Physics, 2004, 249, 215-247.	1.0	6
81	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
82	Large Deviations for the Boundary Driven Symmetric Simple Exclusion Process. Mathematical Physics Analysis and Geometry, 2003, 6, 231-267.	0.4	55
83	Central Limit Theorem for Markov Processes. , 2003, , 145-205.		2
84	Convergence to equilibrium of conservative particle systems on $\mathbb{Z}^{\{d\}}$. Annals of Probability, 2003, 31, .	0.8	9
85	Trou spectral et inégalité de Sobolev logarithmiques pour des systèmes de spins conservatifs et non bornés. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2002, 38, 739-777.	0.7	20
86	Macroscopic Fluctuation Theory for Stationary Non-Equilibrium States. Journal of Statistical Physics, 2002, 107, 635-675.	0.5	328
87	Finite-dimensional approximation of the self-diffusion coefficient for the exclusion process. Annals of Probability, 2002, 30, .	0.8	13
88	Fluctuations in Stationary Nonequilibrium States of Irreversible Processes. Physical Review Letters, 2001, 87, 040601.	2.9	254
89	Hydrodynamic Limit for a Nongradient Interacting Particle System with Stochastic Reservoirs. Theory of Probability and Its Applications, 2001, 45, 604-623.	0.1	7
90	Equilibrium fluctuations of asymmetric simple exclusion processes in dimension $d \geq 3$. Probability Theory and Related Fields, 2001, 119, 381-409.	0.9	30

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91	Symmetric Simple Exclusion Process: Regularity of the Self-Diffusion Coefficient. Communications in Mathematical Physics, 2001, 224, 307-321.	1.0	29
92	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
93	Equilibrium fluctuations for a driven tracer particle dynamics. Stochastic Processes and Their Applications, 2000, 85, 139-158.	0.4	15
94	Asymptotic behavior of a tagged particle in simple exclusion processes. Sociedade Brasileira De Matematica Boletim, Nova Serie, 2000, 31, 241-275.	0.2	17
95	Relaxation to Equilibrium of Conservative Dynamics. I: Zero-Range Processes. Annals of Probability, 1999, 27, 325.	0.8	29
96	Onsager Symmetry from Microscopic TP Invariance. Journal of Statistical Physics, 1999, 96, 639-652.	0.5	22
97	An Example of Reversible Gradient System: Symmetric Zero Range Processes. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 1999, , 67-114.	0.3	0
98	The Relative Entropy Method. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 1999, , 115-139.	0.3	0
99	Hydrodynamic Limit of Reversible Nongradient Systems. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 1999, , 141-189.	0.3	0
100	Hydrodynamic Limit of Asymmetric Attractive Processes. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 1999, , 191-229.	0.3	0
101	Large Deviations from the Hydrodynamic Limit. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 1999, , 257-285.	0.3	0
102	Equilibrium Fluctuations of Reversible Dynamics. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 1999, , 287-310.	0.3	0
103	Scaling Limits of Interacting Particle Systems. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer Berücksichtigung Der Anwendungsgebiete, 1999, , .	0.3	688
104	Convection-diffusion equation with space-time ergodic random flow. Probability Theory and Related Fields, 1998, 112, 203-220.	0.9	42
105	Driven Tracer Particle in One Dimensional Symmetric Simple Exclusion. Communications in Mathematical Physics, 1998, 192, 287-307.	1.0	70
106	Equilibrium fluctuations for zero range processes in random environment. Stochastic Processes and Their Applications, 1998, 77, 187-205.	0.4	6
107	Gabrielli, Jona-Lasinio, and Landim Reply.. Physical Review Letters, 1997, 78, 395-395.	2.9	2
108	Diffusive behavior of asymmetric zero-range processes. Journal of Statistical Physics, 1997, 87, 577-591.	0.5	1

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109	Derivation of Cahn-Hilliard equations from Ginzburg-Landau models. Journal of Statistical Physics, 1997, 88, 365-381.	0.5	9
110	Fluctuation-dissipation equation of asymmetric simple exclusion processes. Probability Theory and Related Fields, 1997, 108, 321-356.	0.9	48
111	First-order correction for the hydrodynamic limit of asymmetric simple exclusion processes in dimension $d \geq 3$. Communications on Pure and Applied Mathematics, 1997, 50, 149-203.	1.2	22
112	First-order correction for the hydrodynamic limit of asymmetric simple exclusion processes in dimension $d \geq 3$. Communications on Pure and Applied Mathematics, 1997, 50, 149-203.	1.2	3
113	Hydrodynamical limit for space inhomogeneous one-dimensional totally asymmetric zero-range processes. Annals of Probability, 1996, 24, 599.	0.8	25
114	Some properties of the diffusion coefficient for asymmetric simple exclusion processes. Annals of Probability, 1996, 24, 1779.	0.8	29
115	Exponential estimate for reaction diffusion models. Probability Theory and Related Fields, 1996, 106, 151-186.	0.9	2
116	Asymmetric conservative processes with random rates. Stochastic Processes and Their Applications, 1996, 61, 181-204.	0.4	60
117	Onsager Reciprocity Relations without Microscopic Reversibility. Physical Review Letters, 1996, 77, 1202-1205.	2.9	41
118	Spectral gap for zero-range dynamics. Annals of Probability, 1996, 24, .	0.8	40
119	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
120	Large deviations of interacting particle systems in infinite volume. Communications on Pure and Applied Mathematics, 1995, 48, 339-379.	1.2	15
121	Exponential Waiting Time for a Big Gap in a One-Dimensional Zero-Range Process. Annals of Probability, 1994, 22, 284.	0.8	6
122	Hydrodynamical limit for a nongradient system: The generalized symmetric exclusion process. Communications on Pure and Applied Mathematics, 1994, 47, 1475-1545.	1.2	37
123	Equilibrium fluctuations for exclusion processes with speed change. Stochastic Processes and Their Applications, 1994, 52, 107-118.	0.4	6
124	Large deviations for a reaction diffusion model. Probability Theory and Related Fields, 1993, 97, 339-361.	0.9	40
125	Conservation of Local Equilibrium for Attractive Particle Systems on \mathbb{Z}^d . Annals of Probability, 1993, 21, 1782.	0.8	22
126	Occupation Time Large Deviations for the Symmetric Simple Exclusion Process. Annals of Probability, 1992, 20, .	0.8	31

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127	The Brazilian Public Schools Math Olympics (OBMEP): 15 years promoting social mobility through academic achievement. ZDM - International Journal on Mathematics Education, 0, , 1.	1.3	1