

Vivien Lecomte

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

4,122
citations

201674

27
h-index

149698

56
g-index

61
all docs

61
docs citations

61
times ranked

2317
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction ruling animal collective behavior depends on topological rather than metric distance: Evidence from a field study. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1232-1237.	7.1	1,557
2	Dynamical First-Order Phase Transition in Kinetically Constrained Models of Glasses. Physical Review Letters, 2007, 98, 195702.	7.8	320
3	First-order dynamical phase transition in models of glasses: an approach based on ensembles of histories. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 075007.	2.1	272
4	Thermodynamic Formalism for Systems with Markov Dynamics. Journal of Statistical Physics, 2007, 127, 51-106.	1.2	253
5	Simulating Rare Events in Dynamical Processes. Journal of Statistical Physics, 2011, 145, 787-811.	1.2	149
6	Universal cumulants of the current in diffusive systems on a ring. Physical Review E, 2008, 78, 021122.	2.1	124
7	A numerical approach to large deviations in continuous time. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P03004-P03004.	2.3	109
8	Chaotic Properties of Systems with Markov Dynamics. Physical Review Letters, 2005, 95, 010601.	7.8	92
9	Mapping out-of-equilibrium into equilibrium in one-dimensional transport models. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 505001.	2.1	87
10	Population-dynamics method with a multicanonical feedback control. Physical Review E, 2016, 93, 062123.	2.1	80
11	Dynamical Symmetry Breaking and Phase Transitions in Driven Diffusive Systems. Physical Review Letters, 2017, 118, 030604.	7.8	66
12	Finite-Size Scaling of a First-Order Dynamical Phase Transition: Adaptive Population Dynamics and an Effective Model. Physical Review Letters, 2017, 118, 115702.	7.8	62
13	Mapping Nonequilibrium onto Equilibrium: The Macroscopic Fluctuations of Simple Transport Models. Physical Review Letters, 2007, 99, 150602.	7.8	53
14	Inactive dynamical phase of a symmetric exclusion process on a ring. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 175001.	2.1	52
15	Dynamic transition in an atomic glass former: A molecular-dynamics evidence. Europhysics Letters, 2011, 96, 56002.	2.0	51
16	Long Range Correlations and Phase Transitions in Non-equilibrium Diffusive Systems. Journal of Statistical Physics, 2008, 133, 1013-1031.	1.2	49
17	Disordered elastic systems and one-dimensional interfaces. Physica B: Condensed Matter, 2012, 407, 1725-1733.	2.7	45
18	Effective driven dynamics for one-dimensional conditioned Langevin processes in the weak-noise limit. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 013201.	2.3	44

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19	Unifying approach for fluctuation theorems from joint probability distributions. <i>Physical Review E</i> , 2010, 82, 030104.	2.1	43
20	Finite Size Scaling of the Dynamical Free-Energy in a Kinetically Constrained Model. <i>Journal of Statistical Physics</i> , 2012, 147, 1-17.	1.2	40
21	Rules of calculus in the path integral representation of white noise Langevin equations: the Onsager-Machlup approach. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 345001.	2.1	38
22	Joint probability distributions and fluctuation theorems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P02009.	2.3	34
23	Current Fluctuations in Systems with Diffusive Dynamics, in and out of Equilibrium. <i>Progress of Theoretical Physics Supplement</i> , 2010, 184, 276-289.	0.1	33
24	Dynamical phase transitions in the current distribution of driven diffusive channels. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 105001.	2.1	32
25	Nonlocal stationary probability distributions and escape rates for an active Ornstein-Uhlenbeck particle. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 063204.	2.3	32
26	Thermodynamic formalism and large deviation functions in continuous time Markov dynamics. <i>Comptes Rendus Physique</i> , 2007, 8, 609-619.	0.9	31
27	Equilibriumlike fluctuations in some boundary-driven open diffusive systems. <i>Physical Review E</i> , 2009, 80, 011131.	2.1	31
28	Depinning of domain walls with an internal degree of freedom. <i>Physical Review B</i> , 2009, 80, .	3.2	27
29	Energy flux distribution in a two-temperature Ising model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005, 2005, P02008.	2.3	23
30	Temperature-induced crossovers in the static roughness of a one-dimensional interface. <i>Physical Review B</i> , 2010, 82, .	3.2	23
31	Finite-time and finite-size scalings in the evaluation of large-deviation functions: Analytical study using a birth-death process. <i>Physical Review E</i> , 2017, 95, 012102.	2.1	23
32	Simulation of large deviation functions using population dynamics. , 2009, , .		21
33	Static fluctuations of a thick one-dimensional interface in the 1+1 directed polymer formulation. <i>Physical Review E</i> , 2013, 87, 042406.	2.1	21
34	Building a path-integral calculus: a covariant discretization approach. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 50LT01.	2.1	20
35	Finite-size effects in a mean-field kinetically constrained model: dynamical glassiness and quantum criticality. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P10001.	2.3	16
36	Kardar-Parisi-Zhang equation with short-range correlated noise: Emergent symmetries and nonuniversal observables. <i>Physical Review E</i> , 2017, 95, 032117.	2.1	16

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37	Finite-time and finite-size scalings in the evaluation of large-deviation functions: Numerical approach in continuous time. <i>Physical Review E</i> , 2017, 95, 062134.	2.1	14
38	Finite-temperature and finite-time scaling of the directed polymer free energy with respect to its geometrical fluctuations. <i>Physical Review E</i> , 2012, 86, 031144.	2.1	12
39	Static fluctuations of a thick one-dimensional interface in the 1+1 directed polymer formulation: Numerical study. <i>Physical Review E</i> , 2013, 87, 062405.	2.1	12
40	Current distribution in systems with anomalous diffusion: renormalization group approach. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 1447-1465.	2.1	11
41	From bulk descriptions to emergent interfaces: Connecting the Ginzburg-Landau and elastic-line models. <i>Physical Review B</i> , 2020, 102, .	3.2	11
42	Exact fluctuating hydrodynamics of active lattice gases—typical fluctuations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 083208.	2.3	11
43	The effect of disorder geometry on the critical force in disordered elastic systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P03009.	2.3	10
44	Driven Interfaces: From Flow to Creep Through Model Reduction. <i>Journal of Statistical Physics</i> , 2016, 164, 1394-1428.	1.2	9
45	Extreme current fluctuations of boundary-driven systems in the large-N limit. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 053203.	2.3	9
46	Activity statistics in a colloidal glass former: Experimental evidence for a dynamical transition. <i>Journal of Chemical Physics</i> , 2018, 148, 164502.	3.0	9
47	Dynamical phase coexistence in the Fredrickson—Andersen model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 053204.	2.3	8
48	Noise and topology in driven systems—an application to interface dynamics. <i>Nonlinearity</i> , 2012, 25, 1427-1441.	1.4	6
49	Quasiequilibrium during aging of the two-dimensional Edwards-Anderson model. <i>Physical Review E</i> , 2003, 68, 066128.	2.1	5
50	Power countings versus physical scalings in disordered elastic systems—case study of the one-dimensional interface. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 104001.	2.1	5
51	Finite-size and finite-time effects in large deviation functions near dynamical symmetry breaking transitions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 103202.	2.3	5
52	SIPIBEL observatory: Data on usual pollutants (solids, organic matter, nutrients, ions) and micropollutants (pharmaceuticals, surfactants, metals), biological and ecotoxicity indicators in hospital and urban wastewater, in treated effluent and sludge from wastewater treatment plant, and in surface and groundwater. <i>Data in Brief</i> , 2022, 40, 107726.	1.0	4
53	Transport-induced correlations in weakly interacting systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P08015.	2.3	3
54	Mapping current and activity fluctuations in exclusion processes: consequences and open questions. <i>SciPost Physics</i> , 2021, 10, .	4.9	3

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55	Discreteness effects in population dynamics. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 205002.	2.1	2
56	Hysteretic depinning of a particle in a periodic potential: Phase diagram and criticality. Physical Review E, 2020, 102, 022131.	2.1	2
57	Supersymmetries in nonequilibrium Langevin dynamics. Physical Review E, 2021, 104, 044120.	2.1	2
58	On pre-asymptotic aging in finite dimensional spin glasses.. , 2004, , 119-128.		0
59	Current statistics and depinning transition for a one-dimensional Langevin process in the weak-noise limit. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 093208.	2.3	0
60	Microscopic interplay of temperature and disorder of a one-dimensional elastic interface. Physical Review E, 2022, 105, 044138.	2.1	0