

Andrea Gambassi

List of Publications by Year in descending order

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98
papers

3,960
citations

101384

36
h-index

123241

61
g-index

100
all docs

100
docs citations

100
times ranked

1679
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct measurement of critical Casimir forces. Nature, 2008, 451, 172-175.	13.7	487
2	Ageing properties of critical systems. Journal of Physics A, 2005, 38, R133-R193.	1.6	263
3	The Casimir effect: From quantum to critical fluctuations. Journal of Physics: Conference Series, 2009, 161, 012037.	0.3	172
4	Critical Casimir effect in classical binary liquid mixtures. Physical Review E, 2009, 80, 061143.	0.8	168
5	Lattice Gauge Theories and String Dynamics in Rydberg Atom Quantum Simulators. Physical Review X, 2020, 10, .	2.8	160
6	Prethermalization in a Nonintegrable Quantum Spin Chain after a Quench. Physical Review Letters, 2013, 111, 197203.	2.9	126
7	Monte Carlo simulation results for critical Casimir forces. Europhysics Letters, 2007, 80, 60009.	0.7	112
8	Large Deviations and Universality in Quantum Quenches. Physical Review Letters, 2012, 109, 250602.	2.9	109
9	Universal scaling functions of critical Casimir forces obtained by Monte Carlo simulations. Physical Review E, 2009, 79, 041142.	0.8	106
10	Quantum quenches as classical critical films. Europhysics Letters, 2011, 95, 66007.	0.7	78
11	Fluctuation-dissipation relations and critical quenches in the transverse field Ising chain. Physical Review B, 2011, 84, .	1.1	76
12	Short-time universal scaling in an isolated quantum system after a quench. Physical Review B, 2015, 91, .	1.1	69
13	Ageing and coarsening in isolated quantum systems after a quench: Exact results for the quantum with xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mtext>O</mml:mtext><mml:mo>(</mml:mo><mml:mi>N</mml:mi><mml:math> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>N</mml:mi></mml:math><mml:math> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo>@1</mml:mo></mml:math><mml:math>	0.8	67
14	Two-loop critical fluctuation-dissipation ratio for the relaxational dynamics of the $O(N)$ Landau-Ginzburg Hamiltonian. Physical Review E, 2002, 66, 066101.	0.8	63
15	Nonadditivity of critical Casimir forces. Nature Communications, 2016, 7, 11403.	5.8	62
16	Aging in ferromagnetic systems at criticality near four dimensions. Physical Review E, 2002, 65, 066120.	0.8	59
17	Statistics of the work done by splitting a one-dimensional quasicondensate. Physical Review E, 2013, 87, 052129.	0.8	59
18	Thermodynamic equilibrium as a symmetry of the Schwinger-Keldysh action. Physical Review B, 2015, 92, .	1.1	59

#	ARTICLE	IF	CITATIONS
19	Dynamical Crossovers in Prethermal Critical States. Physical Review Letters, 2017, 118, 135701.	2.9	58
20	Chaotic Dynamical Ferromagnetic Phase Induced by Nonequilibrium Quantum Fluctuations. Physical Review Letters, 2018, 120, 130603.	2.9	54
21	Impact of nonequilibrium fluctuations on prethermal dynamical phase transitions in long-range interacting spin chains. Physical Review B, 2019, 99, .	1.1	54
22	Critical Casimir effect in superfluid wetting films. Physical Review E, 2007, 76, 031124.	0.8	52
23	Nonequilibrium Critical Casimir Effect in Binary Fluids. Physical Review Letters, 2013, 111, 055701.	2.9	52
24	Quasilocalized dynamics from confinement of quantum excitations. Physical Review B, 2020, 102, .	1.1	50
25	Critical Dynamics in Thin Films. Journal of Statistical Physics, 2006, 123, 929-1005.	0.5	49
26	Dynamic correlations, fluctuation-dissipation relations, and effective temperatures after a quantum quench of the transverse field Ising chain. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P09011.	0.9	49
27	Suppression of transport in nondisordered quantum spin chains due to confined excitations. Physical Review B, 2019, 99, .	1.1	49
28	Critical Casimir effect for colloids close to chemically patterned substrates. Journal of Chemical Physics, 2010, 133, 074702.	1.2	48
29	Quasilocalized excitations induced by long-range interactions in translationally invariant quantum spin chains. Physical Review B, 2019, 99, .	1.1	48
30	Aging and fluctuation-dissipation ratio for the dilute Ising model. Physical Review B, 2002, 66, .	1.1	44
31	Short-time universal scaling and light-cone dynamics after a quench in an isolated quantum system in $d < \infty$ spatial dimensions. Physical Review B, 2016, 94, .	1.1	43
32	Ballistic front dynamics after joining two semi-infinite quantum Ising chains. Physical Review E, 2017, 96, 012138.	0.8	42
33	Normal and lateral critical Casimir forces between colloids and patterned substrates. Europhysics Letters, 2009, 88, 40004.	0.7	40
34	Critical Casimir forces steered by patterned substrates. Soft Matter, 2011, 7, 1247-1253.	1.2	40
35	Trapping colloids near chemical stripes via critical Casimir forces. Molecular Physics, 2011, 109, 1169-1185.	0.8	38
36	Colloidal Aggregation and Critical Casimir Forces. Physical Review Letters, 2010, 105, 059601; author reply 059602.	2.9	36

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37	Prethermal quantum many-body Kapitza phases of periodically driven spin systems. <i>Physical Review B</i> , 2019, 100, .	1.1	35
38	Relaxation phenomena at criticality. <i>European Physical Journal B</i> , 2008, 64, 379-386.	0.6	34
39	Corrections to local scale invariance in the nonequilibrium dynamics of critical systems: Numerical evidences. <i>Physical Review B</i> , 2005, 71, .	1.1	31
40	Electrostatic interactions in critical solvents. <i>Europhysics Letters</i> , 2011, 95, 60001.	0.7	31
41	Critical ageing of Ising ferromagnets relaxing from an ordered state. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006, 2006, P06016-P06016.	0.9	30
42	Local theory for ions in binary liquid mixtures. <i>Journal of Chemical Physics</i> , 2012, 137, 034504.	1.2	29
43	Aging at criticality in model-C dynamics. <i>Physical Review E</i> , 2003, 67, 036111.	0.8	24
44	Finite-Size Scaling in the Driven Lattice Gas. <i>Journal of Statistical Physics</i> , 2004, 115, 281-322.	0.5	24
45	Comment on "The Casimir effect for the Bose-gas in slabs" by P. A. Martin and V. A. Zagrebnov. Relation between the thermodynamic Casimir effect in Bose-gas slabs and critical Casimir forces. <i>Europhysics Letters</i> , 2006, 74, 754-755.	0.7	24
46	On dimensional regularization of sums. <i>Journal of Mathematical Physics</i> , 2003, 44, 570.	0.5	23
47	The critical casimir effect universal fluctuation-induced forces at work. <i>Europhysics News</i> , 2009, 40, 18-22.	0.1	23
48	Quench action and large deviations: Work statistics in the one-dimensional Bose gas. <i>Physical Review E</i> , 2019, 100, 032114.	0.8	22
49	Prethermalization from a low-density Holstein-Primakoff expansion. <i>Physical Review B</i> , 2016, 94, .	1.1	21
50	Measuring effective temperatures in a generalized Gibbs ensemble. <i>Physical Review E</i> , 2017, 95, 052116.	0.8	21
51	Controlling the dynamics of colloidal particles by critical Casimir forces. <i>Soft Matter</i> , 2019, 15, 2152-2162.	1.2	21
52	Universal short-time dynamics: Boundary functional renormalization group for a temperature quench. <i>Physical Review B</i> , 2016, 94, .	1.1	20
53	Critical adsorption and critical Casimir forces in the canonical ensemble. <i>Physical Review E</i> , 2016, 94, 022103.	0.8	19
54	Controlling particle currents with evaporation and resetting from an interval. <i>Physical Review Research</i> , 2020, 2, .	1.3	19

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55	Probing non-thermal density fluctuations in the one-dimensional Bose gas. <i>SciPost Physics</i> , 2017, 3, .	1.5	19
56	On the definition of a unique effective temperature for non-equilibrium critical systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2004, 2004, P07013.	0.9	18
57	Nonequilibrium polarity-induced chemotaxis: Emergent Galilean symmetry and exact scaling exponents. <i>Physical Review Research</i> , 2021, 3, .	1.3	18
58	Nonmonotonic Effects of Migration in Subdivided Populations. <i>Physical Review Letters</i> , 2014, 112, 148101.	2.9	16
59	Comment on “Dynamic Behavior of Anisotropic Nonequilibrium Driven Lattice Gases”, <i>Physical Review Letters</i> , 2004, 92, 029601; author reply 029602.	2.9	15
60	Statistical field theory with constraints: Application to critical Casimir forces in the canonical ensemble. <i>Physical Review E</i> , 2017, 96, 022135.	0.8	15
61	Transverse fluctuations in the driven lattice gas. <i>Journal of Physics A</i> , 2003, 36, L315-L320.	1.6	14
62	Slow dynamics in critical ferromagnetic vector models relaxing from a magnetized initial state. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P01001-P01001.	0.9	14
63	Dynamic crossover in the global persistence at criticality. <i>Europhysics Letters</i> , 2007, 78, 10007.	0.7	14
64	Ageing in the contact process: scaling behaviour and universal features. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P01002-P01002.	0.9	13
65	Critical properties of the prethermal Floquet time crystal. <i>Physical Review B</i> , 2021, 103, .	1.1	13
66	Shape dependence of the finite-size scaling limit in a strongly anisotropic $\mathcal{O}(\infty)$ model. <i>European Physical Journal B</i> , 2003, 34, 205-217.	0.6	12
67	Slow dynamics at critical points: the field-theoretical perspective. <i>Journal of Physics: Conference Series</i> , 2006, 40, 13-26.	0.3	12
68	Critical Langevin dynamics of the $O(N)$ Ginzburg-Landau model with correlated noise. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P01014.	0.9	12
69	Response functions after a quantum quench. <i>Physical Review B</i> , 2014, 89, .	1.1	12
70	Critical properties of the Floquet time crystal within the Gaussian approximation. <i>Physical Review B</i> , 2021, 103, .	1.1	12
71	Critical behavior of the two-dimensional randomly driven lattice gas. <i>Physical Review E</i> , 2005, 72, 056111.	0.8	11
72	Stochastic dynamics of chemotactic colonies with logistic growth. <i>Europhysics Letters</i> , 2021, 136, 50003.	0.7	11

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73	Dynamics of large deviations in the hydrodynamic limit: Noninteracting systems. <i>Physical Review E</i> , 2020, 102, 042128.	0.8	10
74	Lorentz violation naturalness revisited. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	8
75	Surface-induced nonequilibrium dynamics and critical Casimir forces for model B in film geometry. <i>Physical Review E</i> , 2018, 98, .	0.8	8
76	Optical trapping and critical Casimir forces. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	8
77	The non-equilibrium response of the critical Ising model: universal scaling properties and local scale invariance. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P02013.	0.9	7
78	The Role of Quantum Work Statistics in Many-Body Physics. <i>Fundamental Theories of Physics</i> , 2018, , 317-336.	0.1	7
79	Nonequilibrium relaxation of a trapped particle in a near-critical Gaussian field. <i>Physical Review E</i> , 2022, 105, .	0.8	7
80	Short-Time Behavior and Criticality of Driven Lattice Gases. <i>Physical Review Letters</i> , 2017, 118, 050602.	2.9	6
81	Collective non-equilibrium dynamics at surfaces and the spatio-temporal edge. <i>Europhysics Letters</i> , 2012, 100, 46004.	0.7	5
82	Universal Gaussian behavior of driven lattice gases at short times. <i>Physical Review E</i> , 2017, 96, 052136.	0.8	5
83	Modeling Active Non-Markovian Oscillations. <i>Physical Review Letters</i> , 2022, 129, .	2.9	5
84	Viscosity of a sheared correlated (near-critical) model fluid in confinement. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 335101.	0.7	4
85	Fixation properties of subdivided populations with balancing selection. <i>Physical Review E</i> , 2015, 91, 032130.	0.8	3
86	Dynamics of fluctuations in the Gaussian model with conserved dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 104001.	0.9	3
87	Non-equilibrium dynamics of the open quantum $O(n)$ -model with non-Markovian noise: exact results. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 103105.	0.9	3
88	Dynamic crossover in the persistence probability of manifolds at criticality. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P12029.	0.9	2
89	Universal late-time dynamics in isolated one-dimensional statistical systems with topological excitations. <i>Physical Review B</i> , 2020, 101, .	1.1	2
90	Fluctuations of the critical Casimir force. <i>Physical Review E</i> , 2021, 103, 062118.	0.8	2

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91	Reply to the \hat{A} Comment on \hat{A} Transverse fluctuations in the driven lattice gas \hat{A} . Journal of Physics A, 2004, 37, 8193-8195.	1.6	1
92	Spreading in narrow channels. Physical Review E, 2007, 76, 041127.	0.8	1
93	Critical relaxation and the combined effects of spatial and temporal boundaries. Condensed Matter Physics, 2014, 17, 33603.	0.3	1
94	Enrico Fermi in Pisa. Physics in Perspective, 2003, 5, 384-397.	0.2	0
95	Experimental investigation of critical Casimir forces in binary liquid mixtures by blinking optical tweezers. , 2017, , .		0
96	Nonadditivity of critical Casimir forces. , 2017, , .		0
97	Dynamics of optically trapped particles tuned by critical Casimir forces and torques. , 2019, , .		0
98	Universal amplitudes ratios for critical aging via functional renormalization group. Journal of Physics A: Mathematical and Theoretical, 0, , .	0.7	0