Andrea Gambassi

List of Publications by Year
in descending order

98 papers	3,960 citations	101543 36 h-index	123424 61 g-index
100 all docs	100 docs citations	100 times ranked	1679 citing authors

#	Article	IF	Citations
1	Nonequilibrium relaxation of a trapped particle in a near-critical Gaussian field. Physical Review E, 2022, 105, .	2.1	7
2	Modeling Active Non-Markovian Oscillations. Physical Review Letters, 2022, 129, .	7.8	5
3	Critical properties of the Floquet time crystal within the Gaussian approximation. Physical Review B, 2021, 103, .	3.2	12
4	Optical trapping and critical Casimir forces. European Physical Journal Plus, 2021, 136, 1.	2.6	8
5	Critical properties of the prethermal Floquet time crystal. Physical Review B, 2021, 103, .	3.2	13
6	Fluctuations of the critical Casimir force. Physical Review E, 2021, 103, 062118.	2.1	2
7	Nonequilibrium polarity-induced chemotaxis: Emergent Galilean symmetry and exact scaling exponents. Physical Review Research, 2021, 3, .	3.6	18
8	Non-equilibrium dynamics of the open quantum $O(n)$-model with non-Markovian noise: exact results. Journal of Statistical Mechanics: Theory and Experiment, 2021, 2021, 103105.	2.3	3
9	Stochastic dynamics of chemotactic colonies with logistic growth. Europhysics Letters, 2021, 136, 50003.	2.0	11
10	Dynamics of large deviations in the hydrodynamic limit: Noninteracting systems. Physical Review E, 2020, 102, 042128.	2.1	10
11	Quasilocalized dynamics from confinement of quantum excitations. Physical Review B, 2020, 102, .	3.2	50
12	Universal late-time dynamics in isolated one-dimensional statistical systems with topological excitations. Physical Review B, 2020, 101, .	3.2	2
13	Lattice Gauge Theories and String Dynamics in Rydberg Atom Quantum Simulators. Physical Review X, 2020, 10, .	8.9	160
14	Controlling particle currents with evaporation and resetting from an interval. Physical Review Research, 2020, 2, .	3.6	19
15	Quench action and large deviations: Work statistics in the one-dimensional Bose gas. Physical Review E, 2019, 100, 032114.	2.1	22
16	Dynamics of fluctuations in the Gaussian model with conserved dynamics. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 104001.	2.3	3
17	Prethermal quantum many-body Kapitza phases of periodically driven spin systems. Physical Review B, 2019, 100, .	3.2	35
18	Controlling the dynamics of colloidal particles by critical Casimir forces. Soft Matter, 2019, 15, 2152-2162.	2.7	21

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19	Suppression of transport in nondisordered quantum spin chains due to confined excitations. Physical Review B, 2019, 99, .	3.2	49
20	Quasilocalized excitations induced by long-range interactions in translationally invariant quantum spin chains. Physical Review B, 2019, 99, .	3.2	48
21	Impact of nonequilibrium fluctuations on prethermal dynamical phase transitions in long-range interacting spin chains. Physical Review B, 2019, 99, .	3.2	54
22	Dynamics of optically trapped particles tuned by critical Casimir forces and torques. , 2019, , .		0
23	Chaotic Dynamical Ferromagnetic Phase Induced by Nonequilibrium Quantum Fluctuations. Physical Review Letters, 2018, 120, 130603.	7.8	54
24	Surface-induced nonequilibrium dynamics and critical Casimir forces for model B in film geometry. Physical Review E, 2018, 98, .	2.1	8
25	The Role of Quantum Work Statistics in Many-Body Physics. Fundamental Theories of Physics, 2018, , 317-336.	0.3	7
26	Viscosity of a sheared correlated (near-critical) model fluid in confinement. Journal of Physics Condensed Matter, 2017, 29, 335101.	1.8	4
27	Dynamical Crossovers in Prethermal Critical States. Physical Review Letters, 2017, 118, 135701.	7.8	58
28	Ballistic front dynamics after joining two semi-infinite quantum Ising chains. Physical Review E, 2017, 96, 012138.	2.1	42
29	Short-Time Behavior and Criticality of Driven Lattice Gases. Physical Review Letters, 2017, 118, 050602.	7.8	6
30	Statistical field theory with constraints: Application to critical Casimir forces in the canonical ensemble. Physical Review E, 2017, 96, 022135.	2.1	15
31	Universal Gaussian behavior of driven lattice gases at short times. Physical Review E, 2017, 96, 052136.	2.1	5
32	Measuring effective temperatures in a generalized Gibbs ensemble. Physical Review E, 2017, 95, 052116.	2.1	21
33	Experimental investigation of critical Casimir forces in binary liquid mixtures by blinking optical tweezers. , 2017, , .		0
34	Probing non-thermal density fluctuations in the one-dimensional Bose gas. SciPost Physics, 2017, 3, .	4.9	19
35	Nonadditivity of critical Casimir forces. , 2017, , .		0
36	Lorentz violation naturalness revisited. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8

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37	Nonadditivity of critical Casimir forces. Nature Communications, 2016, 7, 11403.	12.8	62
38	Critical adsorption and critical Casimir forces in the canonical ensemble. Physical Review E, 2016, 94, 022103.	2.1	19
39	Universal short-time dynamics: Boundary functional renormalization group for a temperature quench. Physical Review B, 2016, 94, .	3.2	20
40	Short-time universal scaling and light-cone dynamics after a quench in an isolated quantum system in d spatial dimensions. Physical Review B, 2016, 94, .	3.2	43
41	Prethermalization from a low-density Holstein-Primakoff expansion. Physical Review B, 2016, 94, .	3.2	21
42	Aging and coarsening in isolated quantum systems after a quench: Exact results for the quantum $O(N)$ with $N \to \infty$ ...	2.1	67
43	Thermodynamic equilibrium as a symmetry of the Schwinger-Keldysh action. Physical Review B, 2015, 92, .	3.2	59
44	Fixation properties of subdivided populations with balancing selection. Physical Review E, 2015, 91, 032130.	2.1	3
45	Short-time universal scaling in an isolated quantum system after a quench. Physical Review B, 2015, 91, .	3.2	69
46	Nonmonotonic Effects of Migration in Subdivided Populations. Physical Review Letters, 2014, 112, 148101.	7.8	16
47	Response functions after a quantum quench. Physical Review B, 2014, 89, .	3.2	12
48	Critical relaxation and the combined effects of spatial and temporal boundaries. Condensed Matter Physics, 2014, 17, 33603.	0.7	1
49	Nonequilibrium Critical Casimir Effect in Binary Fluids. Physical Review Letters, 2013, 111, 055701.	7.8	52
50	Prethermalization in a Nonintegrable Quantum Spin Chain after a Quench. Physical Review Letters, 2013, 111, 197203.	7.8	126
51	Statistics of the work done by splitting a one-dimensional quasicondensate. Physical Review E, 2013, 87, 052129.	2.1	59
52	Collective non-equilibrium dynamics at surfaces and the spatio-temporal edge. Europhysics Letters, 2012, 100, 46004.	2.0	5
53	Large Deviations and Universality in Quantum Quenches. Physical Review Letters, 2012, 109, 250602.	7.8	109
54	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.	2.3	49

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55	Critical Langevin dynamics of the O(N) Ginzburg–Landau model with correlated noise. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P01014.	2.3	12
56	Local theory for ions in binary liquid mixtures. Journal of Chemical Physics, 2012, 137, 034504.	3.0	29
57	Critical Casimir forces steered by patterned substrates. Soft Matter, 2011, 7, 1247-1253.	2.7	40
58	Electrostatic interactions in critical solvents. Europhysics Letters, 2011, 95, 60001.	2.0	31
59	Fluctuation-dissipation relations and critical quenches in the transverse field Ising chain. Physical Review B, 2011, 84, .	3.2	76
60	Trapping colloids near chemical stripes via critical Casimir forces. Molecular Physics, 2011, 109, 1169-1185.	1.7	38
61	Quantum quenches as classical critical films. Europhysics Letters, 2011, 95, 66007.	2.0	78
62	Colloidal Aggregation and Critical Casimir Forces. Physical Review Letters, 2010, 105, 059601; author reply 059602.	7.8	36
63	Dynamic crossover in the persistence probability of manifolds at criticality. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P12029.	2.3	2
64	Critical Casimir effect for colloids close to chemically patterned substrates. Journal of Chemical Physics, 2010, 133, 074702.	3.0	48
65	The critical casimir effect universal fluctuation-induced forces at work. Europhysics News, 2009, 40, 18-22.	0.3	23
66	Critical Casimir effect in classical binary liquid mixtures. Physical Review E, 2009, 80, 061143.	2.1	168
67	Universal scaling functions of critical Casimir forces obtained by Monte Carlo simulations. Physical Review E, 2009, 79, 041142.	2.1	106
68	Normal and lateral critical Casimir forces between colloids and patterned substrates. Europhysics Letters, 2009, 88, 40004.	2.0	40
69	The Casimir effect: From quantum to critical fluctuations. Journal of Physics: Conference Series, 2009, 161, 012037.	0.4	172
70	Relaxation phenomena at criticality. European Physical Journal B, 2008, 64, 379-386.	1.5	34
71	Direct measurement of critical Casimir forces. Nature, 2008, 451, 172-175.	27.8	487
72	The non-equilibrium response of the critical Ising model: universal scaling properties and local scale invariance. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P02013.	2.3	7

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73	Monte Carlo simulation results for critical Casimir forces. Europhysics Letters, 2007, 80, 60009.	2.0	112
74	Slow dynamics in critical ferromagnetic vector models relaxing from a magnetized initial state. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P01001-P01001.	2.3	14
75	Dynamic crossover in the global persistence at criticality. Europhysics Letters, 2007, 78, 10007.	2.0	14
76	Ageing in the contact process: scaling behaviour and universal features. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P01002-P01002.	2.3	13
77	Spreading in narrow channels. Physical Review E, 2007, 76, 041127.	2.1	1
78	Critical Casimir effect in superfluid wetting films. Physical Review E, 2007, 76, 031124.	2.1	52
79	Critical ageing of Ising ferromagnets relaxing from an ordered state. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P06016-P06016.	2.3	30
80	Slow dynamics at critical points: the field-theoretical perspective. Journal of Physics: Conference Series, 2006, 40, 13-26.	0.4	12
81	Critical Dynamics in Thin Films. Journal of Statistical Physics, 2006, 123, 929-1005.	1.2	49
82	Comment on â€œThe Casimir effect for the Bose-gas in slabsâ€•by P. A. Martin and V. A. Zagrebnov. Relation between the thermodynamic Casimir effect in Bose-gas slabs and critical Casimir forces. Europhysics Letters, 2006, 74, 754-755.	2.0	24
83	Corrections to local scale invariance in the nonequilibrium dynamics of critical systems: Numerical evidences. Physical Review B, 2005, 71, .	3.2	31
84	Critical behavior of the two-dimensional randomly driven lattice gas. Physical Review E, 2005, 72, 056111.	2.1	11
85	Ageing properties of critical systems. Journal of Physics A, 2005, 38, R133-R193.	1.6	263
86	Reply to the ÂComment on ÂTransverse fluctuations in the driven lattice gasÂÂ. Journal of Physics A, 2004, 37, 8193-8195.	1.6	1
87	On the definition of a unique effective temperature for non-equilibrium critical systems. Journal of Statistical Mechanics: Theory and Experiment, 2004, 2004, P07013.	2.3	18
88	Comment on â€œDynamic Behavior of Anisotropic Nonequilibrium Driving Lattice Gasesâ€• Physical Review Letters, 2004, 92, 029601; author reply 029602.	7.8	15
89	Finite-Size Scaling in the Driven Lattice Gas. Journal of Statistical Physics, 2004, 115, 281-322.	1.2	24
90	Shape dependence of the finite-size scaling limit in a strongly anisotropic $\mathsf{O(infty)}$ model. European Physical Journal B, 2003, 34, 205-217.	1.5	12

#	ARTICLE	IF	CITATIONS
91	Enrico Fermi in Pisa. Physics in Perspective, 2003, 5, 384-397.	0.7	0
92	On dimensional regularization of sums. Journal of Mathematical Physics, 2003, 44, 570.	1.1	23
93	Aging at criticality in model-Cdynamics. Physical Review E, 2003, 67, 036111.	2.1	24
94	Transverse fluctuations in the driven lattice gas. Journal of Physics A, 2003, 36, L315-L320.	1.6	14
95	Aging and fluctuation-dissipation ratio for the dilute Ising model. Physical Review B, 2002, 66, .	3.2	44
96	Aging in ferromagnetic systems at criticality near four dimensions. Physical Review E, 2002, 65, 066120.	2.1	59
97	Two-loop critical fluctuation-dissipation ratio for the relaxational dynamics of theO(N)Landau-Ginzburg Hamiltonian. Physical Review E, 2002, 66, 066101.	2.1	63
98	Universal amplitudes ratios for critical aging via functional renormalization group. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	0