

# Andrea Gambassi

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Nonequilibrium relaxation of a trapped particle in a near-critical Gaussian field. <i>Physical Review E</i> , 2022, 105, .   | 0.8 | 7         |
| 2  | Modeling Active Non-Markovian Oscillations. <i>Physical Review Letters</i> , 2022, 129, .  | 2.9 | 5         |
| 3  | Critical properties of the Floquet time crystal within the Gaussian approximation. <i>Physical Review B</i> , 2021, 103, .   | 1.1 | 12        |
| 4  | Optical trapping and critical Casimir forces. <i>European Physical Journal Plus</i> , 2021, 136, 1.  | 1.2 | 8         |
| 5  | Critical properties of the prethermal Floquet time crystal. <i>Physical Review B</i> , 2021, 103, .  | 1.1 | 13        |
| 6  | Fluctuations of the critical Casimir force. <i>Physical Review E</i> , 2021, 103, 062118.  | 0.8 | 2         |
| 7  | Nonequilibrium polarity-induced chemotaxis: Emergent Galilean symmetry and exact scaling exponents. <i>Physical Review Research</i> , 2021, 3, .   | 1.3 | 18        |
| 8  | 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         |
| 9  | Stochastic dynamics of chemotactic colonies with logistic growth. <i>Europhysics Letters</i> , 2021, 136, 50003.   | 0.7 | 11        |
| 10 | Dynamics of large deviations in the hydrodynamic limit: Noninteracting systems. <i>Physical Review E</i> , 2020, 102, 042128.  | 0.8 | 10        |
| 11 | Quasilocalized dynamics from confinement of quantum excitations. <i>Physical Review B</i> , 2020, 102, .   | 1.1 | 50        |
| 12 | Universal late-time dynamics in isolated one-dimensional statistical systems with topological excitations. <i>Physical Review B</i> , 2020, 101, .                                       | 1.1 | 2         |
| 13 | Lattice Gauge Theories and String Dynamics in Rydberg Atom Quantum Simulators. <i>Physical Review X</i> , 2020, 10, .  | 2.8 | 160       |
| 14 | Controlling particle currents with evaporation and resetting from an interval. <i>Physical Review Research</i> , 2020, 2, .  | 1.3 | 19        |
| 15 | Quench action and large deviations: Work statistics in the one-dimensional Bose gas. <i>Physical Review E</i> , 2019, 100, 032114.   | 0.8 | 22        |
| 16 | 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         |
| 17 | Prethermal quantum many-body Kapitza phases of periodically driven spin systems. <i>Physical Review B</i> , 2019, 100, .   | 1.1 | 35        |
| 18 | Controlling the dynamics of colloidal particles by critical Casimir forces. <i>Soft Matter</i> , 2019, 15, 2152-2162.  | 1.2 | 21        |

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|----|---|-----|-----------|
| 19 | Suppression of transport in nondisordered quantum spin chains due to confined excitations. Physical Review B, 2019, 99, .                             | 1.1 | 49        |
| 20 | Quasilocalized excitations induced by long-range interactions in translationally invariant quantum spin chains. Physical Review B, 2019, 99, .        | 1.1 | 48        |
| 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 | 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.                     | 2.9 | 54        |
| 24 | Surface-induced nonequilibrium dynamics and critical Casimir forces for model B in film geometry. Physical Review E, 2018, 98, .                      | 0.8 | 8         |
| 25 | The Role of Quantum Work Statistics in Many-Body Physics. Fundamental Theories of Physics, 2018, , 317-336.   | 0.1 | 7         |
| 26 | Viscosity of a sheared correlated (near-critical) model fluid in confinement. Journal of Physics Condensed Matter, 2017, 29, 335101.                  | 0.7 | 4         |
| 27 | Dynamical Crossovers in Prethermal Critical States. Physical Review Letters, 2017, 118, 135701.   | 2.9 | 58        |
| 28 | Ballistic front dynamics after joining two semi-infinite quantum Ising chains. Physical Review E, 2017, 96, 012138.                                   | 0.8 | 42        |
| 29 | Short-Time Behavior and Criticality of Driven Lattice Gases. Physical Review Letters, 2017, 118, 050602.  | 2.9 | 6         |
| 30 | Statistical field theory with constraints: Application to critical Casimir forces in the canonical ensemble. Physical Review E, 2017, 96, 022135.     | 0.8 | 15        |
| 31 | Universal Gaussian behavior of driven lattice gases at short times. Physical Review E, 2017, 96, 052136.  | 0.8 | 5         |
| 32 | Measuring effective temperatures in a generalized Gibbs ensemble. Physical Review E, 2017, 95, 052116.  | 0.8 | 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, .   | 1.5 | 19        |
| 35 | Nonadditivity of critical Casimir forces. , 2017, , .   |     | 0         |
| 36 | Lorentz violation naturalness revisited. Journal of High Energy Physics, 2016, 2016, 1.   | 1.6 | 8         |

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|----|--|-----|-----------|
| 37 | Nonadditivity of critical Casimir forces. Nature Communications, 2016, 7, 11403.   | 5.8 | 62        |
| 38 | Critical adsorption and critical Casimir forces in the canonical ensemble. Physical Review E, 2016, 94, 022103.  | 0.8 | 19        |
| 39 | Universal short-time dynamics: Boundary functional renormalization group for a temperature quench. Physical Review B, 2016, 94, .  | 1.1 | 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, .  | 1.1 | 43        |
| 41 | Prethermalization from a low-density Holstein-Primakoff expansion. Physical Review B, 2016, 94, . Aging and coarsening in isolated quantum systems after a quench: Exact results for the quantum                             | 1.1 | 21        |
| 42 | with $N$ sites. Physical Review B, 2016, 94, .   | 0.8 | 67        |
| 43 | Thermodynamic equilibrium as a symmetry of the Schwinger-Keldysh action. Physical Review B, 2015, 92, .  | 1.1 | 59        |
| 44 | Fixation properties of subdivided populations with balancing selection. Physical Review E, 2015, 91, 032130.   | 0.8 | 3         |
| 45 | Short-time universal scaling in an isolated quantum system after a quench. Physical Review B, 2015, 91, .  | 1.1 | 69        |
| 46 | Nonmonotonic Effects of Migration in Subdivided Populations. Physical Review Letters, 2014, 112, 148101.   | 2.9 | 16        |
| 47 | Response functions after a quantum quench. Physical Review B, 2014, 89, .  | 1.1 | 12        |
| 48 | Critical relaxation and the combined effects of spatial and temporal boundaries. Condensed Matter Physics, 2014, 17, 33603.  | 0.3 | 1         |
| 49 | Nonequilibrium Critical Casimir Effect in Binary Fluids. Physical Review Letters, 2013, 111, 055701.   | 2.9 | 52        |
| 50 | Prethermalization in a Nonintegrable Quantum Spin Chain after a Quench. Physical Review Letters, 2013, 111, 197203.  | 2.9 | 126       |
| 51 | Statistics of the work done by splitting a one-dimensional quasicondensate. Physical Review E, 2013, 87, 052129.   | 0.8 | 59        |
| 52 | Collective non-equilibrium dynamics at surfaces and the spatio-temporal edge. Europhysics Letters, 2012, 100, 46004.   | 0.7 | 5         |
| 53 | Large Deviations and Universality in Quantum Quenches. Physical Review Letters, 2012, 109, 250602.   | 2.9 | 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. | 0.9 | 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.                                | 0.9  | 12        |
| 56 | Local theory for ions in binary liquid mixtures. Journal of Chemical Physics, 2012, 137, 034504.  | 1.2  | 29        |
| 57 | Critical Casimir forces steered by patterned substrates. Soft Matter, 2011, 7, 1247-1253.   | 1.2  | 40        |
| 58 | Electrostatic interactions in critical solvents. Europhysics Letters, 2011, 95, 60001.  | 0.7  | 31        |
| 59 | Fluctuation-dissipation relations and critical quenches in the transverse field Ising chain. Physical Review B, 2011, 84, .   | 1.1  | 76        |
| 60 | Trapping colloids near chemical stripes via critical Casimir forces. Molecular Physics, 2011, 109, 1169-1185.   | 0.8  | 38        |
| 61 | Quantum quenches as classical critical films. Europhysics Letters, 2011, 95, 66007.   | 0.7  | 78        |
| 62 | Colloidal Aggregation and Critical Casimir Forces. Physical Review Letters, 2010, 105, 059601; author reply 059602.   | 2.9  | 36        |
| 63 | Dynamic crossover in the persistence probability of manifolds at criticality. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P12029.                                      | 0.9  | 2         |
| 64 | Critical Casimir effect for colloids close to chemically patterned substrates. Journal of Chemical Physics, 2010, 133, 074702.  | 1.2  | 48        |
| 65 | The critical casimir effect universal fluctuation-induced forces at work. Europhysics News, 2009, 40, 18-22.  | 0.1  | 23        |
| 66 | Critical Casimir effect in classical binary liquid mixtures. Physical Review E, 2009, 80, 061143.   | 0.8  | 168       |
| 67 | Universal scaling functions of critical Casimir forces obtained by Monte Carlo simulations. Physical Review E, 2009, 79, 041142.  | 0.8  | 106       |
| 68 | Normal and lateral critical Casimir forces between colloids and patterned substrates. Europhysics Letters, 2009, 88, 40004.   | 0.7  | 40        |
| 69 | The Casimir effect: From quantum to critical fluctuations. Journal of Physics: Conference Series, 2009, 161, 012037.  | 0.3  | 172       |
| 70 | Relaxation phenomena at criticality. European Physical Journal B, 2008, 64, 379-386.  | 0.6  | 34        |
| 71 | Direct measurement of critical Casimir forces. Nature, 2008, 451, 172-175.  | 13.7 | 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. | 0.9  | 7         |

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|----|---|-----|-----------|
| 73 | Monte Carlo simulation results for critical Casimir forces. <i>Europhysics Letters</i> , 2007, 80, 60009.   | 0.7 | 112       |
| 74 | 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        |
| 75 | Dynamic crossover in the global persistence at criticality. <i>Europhysics Letters</i> , 2007, 78, 10007.   | 0.7 | 14        |
| 76 | 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        |
| 77 | Spreading in narrow channels. <i>Physical Review E</i> , 2007, 76, 041127.  | 0.8 | 1         |
| 78 | Critical Casimir effect in superfluid wetting films. <i>Physical Review E</i> , 2007, 76, 031124.   | 0.8 | 52        |
| 79 | 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        |
| 80 | Slow dynamics at critical points: the field-theoretical perspective. <i>Journal of Physics: Conference Series</i> , 2006, 40, 13-26.  | 0.3 | 12        |
| 81 | Critical Dynamics in Thin Films. <i>Journal of Statistical Physics</i> , 2006, 123, 929-1005.   | 0.5 | 49        |
| 82 | 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        |
| 83 | Corrections to local scale invariance in the nonequilibrium dynamics of critical systems: Numerical evidences. <i>Physical Review B</i> , 2005, 71, .   | 1.1 | 31        |
| 84 | Critical behavior of the two-dimensional randomly driven lattice gas. <i>Physical Review E</i> , 2005, 72, 056111.  | 0.8 | 11        |
| 85 | Ageing properties of critical systems. <i>Journal of Physics A</i> , 2005, 38, R133-R193.   | 1.6 | 263       |
| 86 | Reply to the "Comment on "Transverse fluctuations in the driven lattice gas"". <i>Journal of Physics A</i> , 2004, 37, 8193-8195.   | 1.6 | 1         |
| 87 | 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        |
| 88 | Comment on "Dynamic Behavior of Anisotropic Nonequilibrium Driving Lattice Gases". <i>Physical Review Letters</i> , 2004, 92, 029601; author reply 029602.  | 2.9 | 15        |
| 89 | Finite-Size Scaling in the Driven Lattice Gas. <i>Journal of Statistical Physics</i> , 2004, 115, 281-322.  | 0.5 | 24        |
| 90 | 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        |

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|----|---|-----|-----------|
| 91 | Enrico Fermi in Pisa. <i>Physics in Perspective</i> , 2003, 5, 384-397.   | 0.2 | 0         |
| 92 | On dimensional regularization of sums. <i>Journal of Mathematical Physics</i> , 2003, 44, 570.  | 0.5 | 23        |
| 93 | Aging at criticality in model-C dynamics. <i>Physical Review E</i> , 2003, 67, 036111.  | 0.8 | 24        |
| 94 | Transverse fluctuations in the driven lattice gas. <i>Journal of Physics A</i> , 2003, 36, L315-L320.   | 1.6 | 14        |
| 95 | Aging and fluctuation-dissipation ratio for the dilute Ising model. <i>Physical Review B</i> , 2002, 66, .  | 1.1 | 44        |
| 96 | Aging in ferromagnetic systems at criticality near four dimensions. <i>Physical Review E</i> , 2002, 65, 066120.  | 0.8 | 59        |
| 97 | Two-loop critical fluctuation-dissipation ratio for the relaxational dynamics of the $O(N)$ Landau-Ginzburg Hamiltonian. <i>Physical Review E</i> , 2002, 66, 066101. | 0.8 | 63        |
| 98 | Universal amplitudes ratios for critical aging via functional renormalization group. <i>Journal of Physics A: Mathematical and Theoretical</i> , 0, , .               | 0.7 | 0         |