

Thomas Gasenzer

List of Publications by Year in descending order

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36
papers

2,159
citations

279487

23
h-index

360668

35
g-index

36
all docs

36
docs citations

36
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental observation of a generalized Gibbs ensemble. <i>Science</i> , 2015, 348, 207-211.	6.0	439
2	Spatially distributed multipartite entanglement enables EPR steering of atomic clouds. <i>Science</i> , 2018, 360, 413-416.	6.0	172
3	Observation of universal dynamics in a spinor Bose gas far from equilibrium. <i>Nature</i> , 2018, 563, 217-220.	13.7	164
4	Experimental characterization of a quantum many-body system via higher-order correlations. <i>Nature</i> , 2017, 545, 323-326.	13.7	161
5	Universal dynamics in an isolated one-dimensional Bose gas far from equilibrium. <i>Nature</i> , 2018, 563, 225-229.	13.7	149
6	Nonthermal fixed points, vortex statistics, and superfluid turbulence in an ultracold Bose gas. <i>Physical Review A</i> , 2012, 85, .	1.0	110
7	Superfluid turbulence: Nonthermal fixed point in an ultracold Bose gas. <i>Physical Review B</i> , 2011, 84, .	1.1	94
8	Critical dynamics of a two-dimensional superfluid near a nonthermal fixed point. <i>Physical Review A</i> , 2012, 86, .	1.0	78
9	Quantum versus classical statistical dynamics of an ultracold Bose gas. <i>Physical Review A</i> , 2007, 76, .	1.0	77
10	Towards far-from-equilibrium quantum field dynamics: A functional renormalisation-group approach. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 670, 135-140.	1.5	63
11	Matter-wave turbulence: Beyond kinetic scaling. <i>Physical Review A</i> , 2010, 81, .	1.0	59
12	Strongly anomalous non-thermal fixed point in a quenched two-dimensional Bose gas. <i>New Journal of Physics</i> , 2017, 19, 093014.	1.2	59
13	Quenches near Ising quantum criticality as a challenge for artificial neural networks. <i>Physical Review B</i> , 2018, 98, .	1.1	53
14	Collisions of Three-Component Vector Solitons in Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2020, 125, 170401.	2.9	48
15	Kinetic theory of nonthermal fixed points in a Bose gas. <i>Physical Review A</i> , 2019, 99, .	1.0	41
16	Far-from-equilibrium quantum many-body dynamics. <i>European Physical Journal C</i> , 2010, 70, 423-443.	1.4	39
17	Non-thermal fixed points and solitons in a one-dimensional Bose gas. <i>New Journal of Physics</i> , 2012, 14, 075005.	1.2	37
18	Universal dynamics on the way to thermalization. <i>New Journal of Physics</i> , 2014, 16, 093052.	1.2	33

#	ARTICLE	IF	CITATIONS
19	Non-thermal fixed points: Universal dynamics far from equilibrium. <i>International Journal of Modern Physics A</i> , 2019, 34, 1941006.	0.5	31
20	Charge separation in reheating after cosmological inflation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 710, 500-503.	1.5	27
21	Universal equilibrium scaling functions at short times after a quench. <i>Physical Review E</i> , 2017, 96, 022110.	0.8	25
22	Non-thermal fixed point in a holographic superfluid. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	24
23	Anomalous scaling at nonthermal fixed points of Burgers' and Gross-Pitaevskii turbulence. <i>Physical Review A</i> , 2015, 92, .	1.0	23
24	Low-energy effective theory of nonthermal fixed points in a multicomponent Bose gas. <i>Physical Review A</i> , 2019, 99, .	1.0	23
25	A coordinate Bethe ansatz approach to the calculation of equilibrium and nonequilibrium correlations of the one-dimensional Bose gas. <i>New Journal of Physics</i> , 2016, 18, 045010.	1.2	21
26	Prescaling in a Far-from-Equilibrium Bose Gas. <i>Physical Review Letters</i> , 2019, 122, 170404.	2.9	16
27	Bidirectional universal dynamics in a spinor Bose gas close to a nonthermal fixed point. <i>Physical Review A</i> , 2019, 99, .	1.0	16
28	2PI nonequilibrium versus transport equations for an ultracold Bose gas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 135302.	0.6	15
29	Gauge turbulence, topological defect dynamics, and condensation in Higgs models. <i>Nuclear Physics A</i> , 2014, 930, 163-186.	0.6	15
30	Quenches near criticality of the quantum Ising chain – power and limitations of the discrete truncated Wigner approximation. <i>Quantum Science and Technology</i> , 2019, 4, 014006.	2.6	13
31	Quantum quench dynamics of the attractive one-dimensional Bose gas via the coordinate Bethe ansatz. <i>SciPost Physics</i> , 2018, 4, .	1.5	13
32	Vortex Motion Quantifies Strong Dissipation in a Holographic Superfluid. <i>Physical Review Letters</i> , 2021, 127, 101601.	2.9	12
33	Longitudinal atomic beam spin echo experiments: a possible way to study parity violation in hydrogen. <i>Hyperfine Interactions</i> , 2011, 200, 35-40.	0.2	5
34	Ultracold atomic quantum gases far from equilibrium. <i>Nuclear Physics A</i> , 2007, 785, 214-217.	0.6	3
35	Monte Carlo sampling of complex actions in extended state spaces. <i>Physical Review E</i> , 2022, 105, 045315.	0.8	1
36	Dynamics of correlations in atomic Bose-Einstein condensates. <i>Journal of Modern Optics</i> , 2004, 51, 1731-1737.	0.6	0