

Bernhard Rauer

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

2,209
citations

567281

15
h-index

713466

21
g-index

28
all docs

28
docs citations

28
times ranked

1511
citing authors

#	ARTICLE	IF	CITATIONS
1	Relaxation and Prethermalization in an Isolated Quantum System. <i>Science</i> , 2012, 337, 1318-1322.	12.6	783
2	Experimental observation of a generalized Gibbs ensemble. <i>Science</i> , 2015, 348, 207-211.	12.6	439
3	Local emergence of thermal correlations in an isolated quantum many-body system. <i>Nature Physics</i> , 2013, 9, 640-643.	16.7	335
4	Experimental characterization of a quantum many-body system via higher-order correlations. <i>Nature</i> , 2017, 545, 323-326.	27.8	161
5	Recurrences in an isolated quantum many-body system. <i>Science</i> , 2018, 360, 307-310.	12.6	76
6	Prethermalization revealed by the relaxation dynamics of full distribution functions. <i>New Journal of Physics</i> , 2013, 15, 075011.	2.9	69
7	Multimode Dynamics and Emergence of a Characteristic Length Scale in a One-Dimensional Quantum System. <i>Physical Review Letters</i> , 2013, 110, 090405.	7.8	51
8	Cooling of a One-Dimensional Bose Gas. <i>Physical Review Letters</i> , 2016, 116, 030402.	7.8	48
9	Designing arbitrary one-dimensional potentials on an atom chip. <i>Optics Express</i> , 2019, 27, 33474.	3.4	43
10	Nonlinear Polariton Fluids in a Flatband Reveal Discrete Gap Solitons. <i>Physical Review Letters</i> , 2019, 123, 113901.	7.8	39
11	Prethermalization in one-dimensional Bose gases: Description by a stochastic Ornstein-Uhlenbeck process. <i>European Physical Journal: Special Topics</i> , 2013, 217, 43-53.	2.6	37
12	Decay and recurrence of non-Gaussian correlations in a quantum many-body system. <i>Nature Physics</i> , 2021, 17, 559-563.	16.7	26
13	Degenerate Bose gases with uniform loss. <i>Physical Review A</i> , 2016, 93, .	2.5	22
14	Towards experimental quantum-field tomography with ultracold atoms. <i>Nature Communications</i> , 2015, 6, 7663.	12.8	20
15	Chiral Prethermalization in Supersonically Split Condensates. <i>Physical Review Letters</i> , 2014, 113, 190401.	7.8	17
16	Speckle Engineering through Singular Value Decomposition of the Transmission Matrix. <i>Physical Review Letters</i> , 2021, 127, 093903.	7.8	12
17	Quantum read-out for cold atomic quantum simulators. <i>Communications Physics</i> , 2020, 3, .	5.3	11
18	Temporal light control in complex media through the singular-value decomposition of the time-gated transmission matrix. <i>Physical Review A</i> , 2022, 105, .	2.5	8

#	ARTICLE	IF	CITATIONS
19	Studying non-equilibrium many-body dynamics using one-dimensional Bose gases. , 2014, , .		5
20	Mechanisms for the emergence of Gaussian correlations. SciPost Physics, 2022, 12, .	4.9	3
21	Non-invasive chemically selective energy delivery and focusing inside a scattering medium guided by Raman scattering. Optics Letters, 2022, 47, 2145-2148.	3.3	2
22	Experimental Setup and Probing. Springer Theses, 2019, , 29-65.	0.1	0
23	Introduction and Theoretical Basics. Springer Theses, 2019, , 5-27.	0.1	0
24	Cooling Through Uniform Loss. Springer Theses, 2019, , 67-86.	0.1	0
25	Recurrences. Springer Theses, 2019, , 87-113.	0.1	0