

# Christian Gogolin

## List of Publications by Year in descending order

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33  
papers

3,242  
citations

331670

21  
h-index

414414

32  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum many-body systems out of equilibrium. <i>Nature Physics</i> , 2015, 11, 124-130.	16.7	880
2	Equilibration, thermalisation, and the emergence of statistical mechanics in closed quantum systems. <i>Reports on Progress in Physics</i> , 2016, 79, 056001.	20.1	633
3	Evaluating analytic gradients on quantum hardware. <i>Physical Review A</i> , 2019, 99, .	2.5	447
4	Absence of Thermalization in Nonintegrable Systems. <i>Physical Review Letters</i> , 2011, 106, 040401.	7.8	188
5	Thermalization in Nature and on a Quantum Computer. <i>Physical Review Letters</i> , 2012, 108, 080402.	7.8	136
6	Pushing the Limits of the Eigenstate Thermalization Hypothesis towards Mesoscopic Quantum Systems. <i>Physical Review Letters</i> , 2014, 112, 130403.	7.8	123
7	Locality of Temperature. <i>Physical Review X</i> , 2014, 4, .	8.9	107
8	Dissipative Quantum Church-Turing Theorem. <i>Physical Review Letters</i> , 2011, 107, 120501.	7.8	90
9	Reliable quantum certification of photonic state preparations. <i>Nature Communications</i> , 2015, 6, 8498.	12.8	71
10	Total correlations of the diagonal ensemble herald the many-body localization transition. <i>Physical Review B</i> , 2015, 92, .	3.2	64
11	Random Bosonic States for Robust Quantum Metrology. <i>Physical Review X</i> , 2016, 6, .	8.9	62
12	Limits on nonlocal correlations from the structure of the local state space. <i>New Journal of Physics</i> , 2011, 13, 063024.	2.9	58
13	Equilibration via Gaussification in Fermionic Lattice Systems. <i>Physical Review Letters</i> , 2016, 117, 190602.	7.8	42
14	Quantum annealing for the number-partitioning problem using a tunable spin glass of ions. <i>Nature Communications</i> , 2016, 7, 11524.	12.8	30
15	Automated discovery of characteristic features of phase transitions in many-body localization. <i>Physical Review B</i> , 2019, 99, .	3.2	30
16	Quantum measurement occurrence is undecidable. <i>Physical Review Letters</i> , 2012, 108, 260501.	7.8	29
17	Optimal quantum error correcting codes from absolutely maximally entangled states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 075301.	2.1	27
18	Quantum Enhanced Inference in Markov Logic Networks. <i>Scientific Reports</i> , 2017, 7, 45672.	3.3	25

#	ARTICLE	IF	CITATIONS
19	Eigenstate Thermalization for Degenerate Observables. <i>Physical Review Letters</i> , 2018, 120, 150603.	7.8	25
20	Sample Complexity of Device-Independently Certified "Quantum Supremacy". <i>Physical Review Letters</i> , 2019, 122, 210502.	7.8	23
21	Simulating quantum chemistry in the seniority-zero space on qubit-based quantum computers. <i>Physical Review A</i> , 2021, 103, .	2.5	23
22	Lieb-Robinson Bounds and the Simulation of Time-Evolution of Local Observables in Lattice Systems. <i>Letters in Mathematical Physics</i> , 2014, , 301-318.	0.6	23
23	Environment-induced super selection without pointer states. <i>Physical Review E</i> , 2010, 81, 051127.	2.1	20
24	Inference-proof view update transactions with forwarded refreshments. <i>Journal of Computer Security</i> , 2011, 19, 487-529.	0.8	15
25	Correlation Decay in Fermionic Lattice Systems with Power-Law Interactions at Nonzero Temperature. <i>Physical Review Letters</i> , 2017, 119, 110601.	7.8	15
26	Constructions of $k$ -uniform and absolutely maximally entangled states beyond maximum distance codes. <i>Physical Review Research</i> , 2020, 2, .	3.6	14
27	Non-equilibrium Dynamics, Thermalization and Entropy Production. <i>Journal of Physics: Conference Series</i> , 2011, 297, 012011.	0.4	12
28	Total correlations of the diagonal ensemble as a generic indicator for ergodicity breaking in quantum systems. <i>Physical Review B</i> , 2017, 95, .	3.2	8
29	What it takes to avoid equilibration. <i>Physical Review A</i> , 2018, 98, .	2.5	8
30	Requirements and Protocols for Inference-Proof Interactions in Information Systems. <i>Lecture Notes in Computer Science</i> , 2009, , 285-302.	1.3	7
31	Dynamic wetting with two competing adsorbates. <i>Physical Review E</i> , 2009, 79, 041111.	2.1	4
32	Verifying the output of quantum optimizers with ground-state energy lower bounds. <i>Physical Review Research</i> , 2020, 2, .	3.6	3
33	Peer-review at Quantum - analyzing the data. , 0, 2, 5.		0