

Xiao Chen

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,879
citations

304743

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h-index

302126

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all docs

41
docs citations

41
times ranked

832
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Zeno effect and the many-body entanglement transition. <i>Physical Review B</i> , 2018, 98, .	3.2	331
2	Measurement-driven entanglement transition in hybrid quantum circuits. <i>Physical Review B</i> , 2019, 100, .	3.2	269
3	Out-of-time-order correlations in many-body localized and thermal phases. <i>Annalen Der Physik</i> , 2017, 529, 1600332.	2.4	126
4	Multiple topological transitions in twisted bilayer graphene near the first magic angle. <i>Physical Review B</i> , 2019, 99, .	3.2	104
5	Emergent conformal symmetry in nonunitary random dynamics of free fermions. <i>Physical Review Research</i> , 2020, 2, .	3.6	87
6	Conformal invariance and quantum nonlocality in critical hybrid circuits. <i>Physical Review B</i> , 2021, 104, .	3.2	74
7	Measurement-Induced Phase Transition in the Monitored Sachdev-Ye-Kitaev Model. <i>Physical Review Letters</i> , 2021, 127, 140601.	7.8	68
8	Quantum entanglement of the Sachdev-Ye-Kitaev models. <i>Physical Review B</i> , 2018, 97, .	3.2	65
9	Entanglement Negativity at Measurement-Induced Criticality. <i>PRX Quantum</i> , 2021, 2, .	9.2	55
10	Measurement-induced phase transitions in quantum automaton circuits. <i>Physical Review B</i> , 2020, 102, .	3.2	51
11	Unconventional fusion and braiding of topological defects in a lattice model. <i>Physical Review B</i> , 2014, 90, .	3.2	39
12	Quantum chaos dynamics in long-range power law interaction systems. <i>Physical Review B</i> , 2019, 100, .	3.2	39
13	Operator dynamics in a Brownian quantum circuit. <i>Physical Review E</i> , 2019, 99, 052212.	2.1	39
14	Universal spectral correlations in the chaotic wave function and the development of quantum chaos. <i>Physical Review B</i> , 2018, 98, .	3.2	34
15	Operator Lévy Flight: Light Cones in Chaotic Long-Range Interacting Systems. <i>Physical Review Letters</i> , 2020, 124, 180601.	7.8	33
16	Subsystem Rényi entropy of thermal ensembles for SYK-like models. <i>SciPost Physics</i> , 2020, 8, .	4.9	32
17	Gapless quantum spin chains: multiple dynamics and conformal wavefunctions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 464002.	2.1	30
18	Entanglement signatures of emergent Dirac fermions: Kagome spin liquid and quantum criticality. <i>Science Advances</i> , 2018, 4, eaat5535.	10.3	30

#	ARTICLE	IF	CITATIONS
19	Emergent Replica Conformal Symmetry in Non-Hermitian SYK χ Chains. Quantum - the Open Journal for Quantum Science, 0, 5, 579.	0.0	30
20	Non-unitary dynamics of Sachdev-Ye-Kitaev chain. SciPost Physics, 2021, 10, .	4.9	28
21	Quantum criticality in the nonunitary dynamics of $2+1$ -dimensional free fermions. Physical Review B, 2021, 103, .	3.2	27
22	Braiding statistics and congruent invariance of twist defects in bosonic bilayer fractional quantum Hall states. Physical Review B, 2014, 90, .	3.2	23
23	Quantum spin chains with multiple dynamics. Physical Review B, 2017, 96, .	3.2	23
24	Rényi entropy and the multifractal spectra of systems near the localization transition. Physical Review B, 2012, 86, .	3.2	22
25	Many-body quantum dynamics slows down at low density. SciPost Physics, 2020, 9, .	4.9	22
26	Many-body localization transition in Rokhsar-Kivelson-type wave functions. Physical Review B, 2015, 92, .	3.2	20
27	Two-cylinder entanglement entropy under a twist. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 043104.	2.3	20
28	Scaling of entanglement in $2+1$ -dimensional scale-invariant field theories. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P02010.	2.3	19
29	Evolution of Entanglement Spectra under Generic Quantum Dynamics. Physical Review Letters, 2019, 123, 190602.	7.8	19
30	Yang-Lee edge singularity triggered entanglement transition. Physical Review B, 2021, 104, .	3.2	19
31	Entanglement phase transitions in random stabilizer tensor networks. Physical Review B, 2022, 105, .	3.2	19
32	Universal Entanglement Transitions of Free Fermions with Long-range Non-unitary Dynamics. Quantum - the Open Journal for Quantum Science, 0, 6, 723.	0.0	17
33	Measurement-induced criticality in $2+1$ -symmetric quantum automaton circuits. Physical Review B, 2022, 105, .	3.2	15
34	Multifractality in nonunitary random dynamics. Physical Review B, 2021, 104, .	3.2	10
35	From orbifolding conformal field theories to gauging topological phases. Physical Review B, 2017, 96, .	3.2	9
36	Magnetization oscillation in a nanomagnet driven by a self-controlled spin-polarized current: Nonlinear stability analysis. Physical Review B, 2007, 76, .	3.2	8

#	ARTICLE	IF	CITATIONS
37	Gauging (3+1)-dimensional topological phases: An approach from surface theories. Physical Review B, 2017, 96, .	3.2	7
38	Nonunitary entanglement dynamics in continuous-variable systems. Physical Review B, 2021, 104, .	3.2	7
39	Topological BF theory of the quantum hydrodynamics of incompressible polar fluids. Physical Review B, 2014, 90, .	3.2	6
40	Minimal switching voltage for magnetization reversals in asymmetric nanorings. Journal of Magnetism and Magnetic Materials, 2009, 321, 3698-3701.	2.3	2
41	Twofold twist defect chains at criticality. Physical Review B, 2017, 96, .	3.2	1