David J Luitz

List of Publications by Year
in descending order

39 papers	2,642 citations	279487 23 h-index	315357 38 g-index
39 all docs	39 docs citations	39 times ranked	1189 citing authors

#	ARTICLE	IF	CITATIONS
1	Many-body localization edge in the random-field Heisenberg chain. Physical Review B, 2015, 91, .	1.1	722
2	Extended slow dynamical regime close to the many-body localization transition. Physical Review B, 2016, 93, .	1.1	254
3	The ergodic side of the many‐body localization transition. Annalen Der Physik, 2017, 529, 1600350.	0.9	216
4	Anomalous Thermalization in Ergodic Systems. Physical Review Letters, 2016, 117, 170404.	2.9	133
5	Information propagation in isolated quantum systems. Physical Review B, 2017, 96, .	1.1	120
6	Avalanches and many-body resonances in many-body localized systems. Physical Review B, 2022, 105, .	1.1	100
7	Shift-invert diagonalization of large many-body localizing spin chains. , 2018, 5, .		85
8	Long tail distributions near the many-body localization transition. Physical Review B, 2016, 93, .	1.1	81
9	Universal Behavior beyond Multifractality in Quantum Many-Body Systems. Physical Review Letters, 2014, 112, 057203.	2.9	76
10	Operator entanglement entropy of the time evolution operator in chaotic systems. Physical Review B, 2017, 95, .	1.1	69
11	Bimodal entanglement entropy distribution in the many-body localization transition. Physical Review B, 2016, 94, .	1.1	65
12	Multifractality and its role in anomalous transport in the disordered XXZ spin-chain. SciPost Physics Core, 2020, 2, .	0.9	51
13	Absence of slow particle transport in the many-body localized phase. Physical Review B, 2020, 102, .	1.1	50
14	Participation spectroscopy and entanglement Hamiltonian of quantum spin models. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P08007.	0.9	46
15	Hierarchy of Relaxation Timescales in Local Random Liouvillians. Physical Review Letters, 2020, 124, 100604.	2.9	43
16	Prethermalization without Temperature. Physical Review X, 2020, 10, .	2.8	42
17	Improving entanglement and thermodynamic RÃ©nyi entropy measurements in quantum Monte Carlo. Physical Review B, 2014, 90, .	1.1	39
18	Emergent locality in systems with power-law interactions. Physical Review A, 2019, 99, .	1.0	39

#	Article	IF	Citations
19	Absence of dynamical localization in interacting driven systems. SciPost Physics, 2017, 3, .	1.5	38
20	Exceptional points and the topology of quantum many-body spectra. Physical Review Research, 2019, 1, .	1.3	37
21	Shannon-Rényi entropies and participation spectra across three-dimensional $O(3)$ Physical Review B, 2014, 89, .	1.1	34
22	Pyrochlore $S = \frac{1}{2}$ Heisenberg antiferromagnet at finite temperature. Physical Review B, 2020, 102, .	1.1	32
23	Periodic and quasiperiodic revivals in periodically driven interacting quantum systems. Physical Review B, 2018, 97, .	1.1	24
24	Possible Inversion Symmetry Breaking in the $S = 1/2$ Pyrochlore Heisenberg Magnet. Physical Review Letters, 2021, 126, 117204.	2.9	24
25	Statistics of correlation functions in the random Heisenberg chain. SciPost Physics, 2019, 7, .	1.5	22
26	Spin-wave approach for entanglement entropies of the $J_1 k 2$ antiferromagnet on the square lattice. Physical Review B, 2015, 92, .	1.1	21
27	Exploring one-particle orbitals in large many-body localized systems. Physical Review B, 2018, 97, .	1.1	20
28	Anomalous thermalization and transport in disordered interacting Floquet systems. Physical Review B, 2018, 98, .	1.1	19
29	Information dynamics in a model with Hilbert space fragmentation. SciPost Physics, 2021, 11, .	1.5	19
30	Universal logarithmic corrections to entanglement entropies in two dimensions with spontaneously broken continuous symmetries. Physical Review B, 2015, 91, .	1.1	18
31	Lieb-Robinson bounds and out-of-time order correlators in a long-range spin chain. Physical Review Research, 2020, 2, .	1.3	18
32	Many-body hierarchy of dissipative timescales in a quantum computer. Physical Review Research, 2021, 3, .	1.3	17
33	Matrix product states approaches to operator spreading in ergodic quantum systems. Physical Review B, 2019, 100, .	1.1	16
34	Subdiffusive Thouless time scaling in the Anderson model on random regular graphs. Physical Review B, 2022, 105, .	1.1	15
35	Three-dimensional isometric tensor networks. Physical Review Research, 2021, 3, .	1.3	12
36	Power-law entanglement growth from typical product states. Physical Review Research, 2019, 1, .	1.3	10

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37	Random matrix theory for quantum and classical metastability in local Liouvillians. Physical Review B, 2022, 105, .	1.1	7
38	Polynomial filter diagonalization of large Floquet unitary operators. SciPost Physics, 2021, 11, .	1.5	4
39	Quantum Monte Carlo detection of SU(2) symmetry breaking in the participation entropies of line subsystems. SciPost Physics, 2017, 2, .	1.5	4