

# Shenglong Xu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6506914/publications.pdf>

Version: 2024-02-01

21  
papers

801  
citations

516561

16  
h-index

713332

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g-index

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21  
docs citations

21  
times ranked

893  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rainbow scars: From area to volume law. <i>Physical Review B</i> , 2022, 105, .	1.1	32
2	Emergent symmetry in Brownian SYK models and charge dependent scrambling. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	1.6	4
3	Hilbert space fragmentation and exact scars of generalized Fredkin spin chains. <i>Physical Review B</i> , 2021, 103, .	1.1	32
4	Accessing scrambling using matrix product operators. <i>Nature Physics</i> , 2020, 16, 199-204.	6.5	78
5	Operator L <sup>∞</sup> vy Flight: Light Cones in Chaotic Long-Range Interacting Systems. <i>Physical Review Letters</i> , 2020, 124, 180601.	2.9	33
6	Speed of quantum information spreading in chaotic systems. <i>Physical Review B</i> , 2020, 102, .	1.1	18
7	One-dimensional quantum spin dynamics of Bethe string states. <i>Physical Review B</i> , 2019, 100, .	1.1	21
8	Scrambling Dynamics across a Thermalization-Localization Quantum Phase Transition. <i>Physical Review Letters</i> , 2019, 123, 165902.	2.9	27
9	Locality, Quantum Fluctuations, and Scrambling. <i>Physical Review X</i> , 2019, 9, .	2.8	69
10	Quantum many-body scars from magnon condensation. <i>Physical Review B</i> , 2019, 100, .	1.1	96
11	Butterfly effect in interacting Aubry-Andre model: Thermalization, slow scrambling, and many-body localization. <i>Physical Review Research</i> , 2019, 1, .	1.3	42
12	Space-Time Crystal and Space-Time Group. <i>Physical Review Letters</i> , 2018, 120, 096401.	2.9	39
13	Experimental observation of Bethe strings. <i>Nature</i> , 2018, 554, 219-223.	13.7	84
14	Interaction Effects with Varying $N$ in $SU(N)$ Matrix Product States. <i>Physical Review Letters</i> , 2018, 120, 096401.	2.9	14
15	Per Ferromagnetism and Wigner crystallization in kagome graphene and related structures. <i>Physical Review B</i> , 2018, 98, .	1.1	44
16	Room-temperature magnetism on the zigzag edges of phosphorene nanoribbons. <i>Physical Review B</i> , 2016, 94, .	1.1	58
17	From confined spinons to emergent fermions: Observation of elementary magnetic excitations in a transverse-field Ising chain. <i>Physical Review B</i> , 2016, 94, .	1.1	35
18	Renormalization group circuits for gapless states. <i>Physical Review B</i> , 2016, 93, .	1.1	14

#	ARTICLE	IF	CITATIONS
19	Detecting edge degeneracy in interacting topological insulators through entanglement entropy. Physical Review B, 2015, 91, .	1.1	35
20	Sign-Problem-Free Quantum Monte Carlo Study on Thermodynamic Properties and Magnetic Phase Transitions in Orbital-Active Itinerant Ferromagnets. Physical Review X, 2015, 5, .	2.8	10
21	A molecular understanding of the gas-phase reduction and doping of graphene oxide. Nano Research, 2012, 5, 361-368.	5.8	16