

# 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

516710

16  
h-index

713466

21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

893  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum many-body scars from magnon condensation. <i>Physical Review B</i> , 2019, 100, .	3.2	96
2	Experimental observation of Bethe strings. <i>Nature</i> , 2018, 554, 219-223.	27.8	84
3	Accessing scrambling using matrix product operators. <i>Nature Physics</i> , 2020, 16, 199-204.	16.7	78
4	Locality, Quantum Fluctuations, and Scrambling. <i>Physical Review X</i> , 2019, 9, .	8.9	69
5	Room-temperature magnetism on the zigzag edges of phosphorene nanoribbons. <i>Physical Review B</i> , 2016, 94, .	3.2	58
6	Ferromagnetism and Wigner crystallization in kagome graphene and related structures. <i>Physical Review B</i> , 2018, 98, .	3.2	44
7	Butterfly effect in interacting Aubry-Andre model: Thermalization, slow scrambling, and many-body localization. <i>Physical Review Research</i> , 2019, 1, .	3.6	42
8	Space-Time Crystal and Space-Time Group. <i>Physical Review Letters</i> , 2018, 120, 096401.	7.8	39
9	Detecting edge degeneracy in interacting topological insulators through entanglement entropy. <i>Physical Review B</i> , 2015, 91, .	3.2	35
10	From confined spinons to emergent fermions: Observation of elementary magnetic excitations in a transverse-field Ising chain. <i>Physical Review B</i> , 2016, 94, .	3.2	35
11	Operator Lévy Flight: Light Cones in Chaotic Long-Range Interacting Systems. <i>Physical Review Letters</i> , 2020, 124, 180601.	7.8	33
12	Hilbert space fragmentation and exact scars of generalized Fredkin spin chains. <i>Physical Review B</i> , 2021, 103, .	3.2	32
13	Rainbow scars: From area to volume law. <i>Physical Review B</i> , 2022, 105, .	3.2	32
14	Scrambling Dynamics across a Thermalization-Localization Quantum Phase Transition. <i>Physical Review Letters</i> , 2019, 123, 165902.	7.8	27
15	One-dimensional quantum spin dynamics of Bethe string states. <i>Physical Review B</i> , 2019, 100, .	3.2	21
16	Speed of quantum information spreading in chaotic systems. <i>Physical Review B</i> , 2020, 102, .	3.2	18
17	A molecular understanding of the gas-phase reduction and doping of graphene oxide. <i>Nano Research</i> , 2012, 5, 361-368.	10.4	16
18	Renormalization group circuits for gapless states. <i>Physical Review B</i> , 2016, 93, .	3.2	14

#	ARTICLE	IF	CITATIONS
19	Ion Effects with Varying $N$ in $SU(N)$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 727 Td (stretchy="false")	7.8	14
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, .	8.9	10
21	Emergent symmetry in Brownian SYK models and charge dependent scrambling. Journal of High Energy Physics, 2022, 2022, 1.	4.7	4