Xiangyu Cao

List of Publications by Year
in descending order

22 papers	559 citations
758635 12 h-index	713013 21 g-index
22 all docs	22 docs citations
22 times ranked	393 citing authors

#	Article	IF	Citations
1	A Universal Operator Growth Hypothesis. Physical Review X, 2019, 9, .	2.8	153
2	Does Scrambling Equal Chaos?. Physical Review Letters, 2020, 124, 140602.	2.9	106
3	Incomplete Thermalization from Trap-Induced Integrability Breaking: Lessons from Classical Hard Rods. Physical Review Letters, 2018, 120, 164101.	2.9	46
4	Krylov complexity in saddle-dominated scrambling. Journal of High Energy Physics, 2022, 2022, .	1.6	39
5	Integrable and Chaotic Dynamics of Spins Coupled to an Optical Cavity. Physical Review X, 2019, 9, .	2.8	32
6	Kinetic theory of quantum and classical Toda lattices. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 33LT01.	0.7	27
7	A statistical mechanism for operator growth. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 144001.	0.7	25
8	Low-rank Sachdev-Ye-Kitaev models. Physical Review B, 2020, 101, .	1.1	18
9	The GGE averaged currents of the classical Toda chain. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 495003.	0.7	17
10	Localization of soft modes at the depinning transition. Physical Review E, 2018, 97, 022118.	0.8	15
11	Local matrix product operators: Canonical form, compression, and control theory. Physical Review B, 2020, 102, .	1.1	14
12	Dirac fast scramblers. Physical Review B, 2021, 103, .	1.1	13
13	Liouville Field Theory and Log-Correlated Random Energy Models. Physical Review Letters, 2017, 118, 090601.	2.9	12
14	Soft modes and strain redistribution in continuous models of amorphous plasticity: the Eshelby paradigm, and beyond?. Soft Matter, 2018, 14, 3640-3651.	1.2	12
15	Scrambling versus relaxation in Fermi and non-Fermi liquids. Physical Review B, 2020, 102, .	1.1	7
16	Comment on "Chaotic-Integrable Transition in the Sachdev-Ye-Kitaev Model". Physical Review Letters, 2021, 126, 109101.	2.9	7
17	Quasiparticle kinetic theory for Calogero models. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 474001.	0.7	6
18	Operator product expansion in Liouville field theory and Seiberg-type transitions in log-correlated random energy models. Physical Review E, 2018, 97, 042111.	0.8	4

#	Article	IF	Citations
19	Log-correlated random-energy models with extensive free-energy fluctuations: Pathologies caused by rare events as signatures of phase transitions. Physical Review E, 2018, 97, 022117.	0.8	3
20	Origin and limit of the recovery of damaged information by time reversal. Physical Review A, 2021, 103, .	1.0	2
21	Pinning by rare defects and effective mobility for elastic interfaces in high dimensions. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 23LT01.	0.7	1
22	Level Set Percolation in the Two-Dimensional Gaussian Free Field. Physical Review Letters, 2021, 126, 120601.	2.9	0