

# Cheng Peng

## List of Publications by Year in descending order

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15  
papers

310  
citations

1039880

9  
h-index

1199470

12  
g-index

16  
all docs

16  
docs citations

16  
times ranked

307  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensor Network Contractions. Lecture Notes in Physics, 2020, , .	0.3	76
2	Machine learning by unitary tensor network of hierarchical tree structure. New Journal of Physics, 2019, 21, 073059.	1.2	71
3	Thermodynamics of spin-1/2 KagomÃ© Heisenberg antiferromagnet: algebraic paramagnetic liquid and finite-temperature phase diagram. Science Bulletin, 2018, 63, 1545-1550.	4.3	42
4	Generative tensor network classification model for supervised machine learning. Physical Review B, 2020, 101, .	1.1	25
5	Few-body systems capture many-body physics: Tensor network approach. Physical Review B, 2017, 96, .	1.1	20
6	Octa-KagomÃ© Lattice Compounds Showing Quantum Critical Behaviors: Spin Gap Ground State versus Antiferromagnetic Ordering. Journal of the American Chemical Society, 2017, 139, 14057-14060.	6.6	18
7	Gapless spin liquid and pair density wave of the Hubbard model on three-leg triangular cylinders. New Journal of Physics, 2021, 23, 123004.	1.2	17
8	Fermionic algebraic quantum spin liquid in an octa-kagome frustrated antiferromagnet. Physical Review B, 2017, 95, .	1.1	14
9	Efficient quantum simulation for thermodynamics of infinite-size many-body systems in arbitrary dimensions. Physical Review B, 2019, 99, .	1.1	14
10	Criticality in two-dimensional quantum systems: Tensor network approach. Physical Review B, 2017, 95, .	1.1	9
11	Controlling the phase diagram of finite spin- 12 chains by tuning the boundary interactions. Physical Review B, 2018, 98, .	1.1	2
12	Tensor Network Approaches for Higher-Dimensional Quantum Lattice Models. Lecture Notes in Physics, 2020, , 87-97.	0.3	1
13	Two-Dimensional Tensor Networks and Contraction Algorithms. Lecture Notes in Physics, 2020, , 63-86.	0.3	1
14	Exotic entanglement scaling of Heisenberg antiferromagnet on honeycomb lattice. European Physical Journal B, 2018, 91, 1.	0.6	0
15	Quantum Entanglement Simulation Inspired by Tensor Network. Lecture Notes in Physics, 2020, , 131-146.	0.3	0