

Johannes Bausch

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8707980/publications.pdf>

Version: 2024-02-01

16
papers

198
citations

1163117

8
h-index

1125743

13
g-index

16
all docs

16
docs citations

16
times ranked

128
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum codes from neural networks. <i>New Journal of Physics</i> , 2020, 22, 023005.	2.9	33
2	Compact fermion to qubit mappings. <i>Physical Review B</i> , 2021, 104, .	3.2	32
3	Hamiltonian simulation algorithms for near-term quantum hardware. <i>Nature Communications</i> , 2021, 12, 4989.	12.8	22
4	Undecidability of the Spectral Gap in One Dimension. <i>Physical Review X</i> , 2020, 10, .	8.9	20
5	Analysis and limitations of modified circuit-to-Hamiltonian constructions. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 2, 94.	0.0	15
6	The Complexity of Translationally Invariant Spin Chains with Low Local Dimension. <i>Annales Henri Poincare</i> , 2017, 18, 3449-3513.	1.7	14
7	Size-driven quantum phase transitions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 19-23.	7.1	13
8	The complexity of divisibility. <i>Linear Algebra and Its Applications</i> , 2016, 504, 64-107.	0.9	11
9	Error Thresholds for Arbitrary Pauli Noise. <i>SIAM Journal on Computing</i> , 2021, 50, 1410-1460.	1.0	10
10	Uncomputability of phase diagrams. <i>Nature Communications</i> , 2021, 12, 452.	12.8	7
11	Translationally Invariant Universal Quantum Hamiltonians in 1D. <i>Annales Henri Poincare</i> , 2022, 23, 223-254.	1.7	7
12	The complexity of translationally invariant low-dimensional spin lattices in 3D. <i>Journal of Mathematical Physics</i> , 2017, 58, 111901.	1.1	6
13	Classifying data using near-term quantum devices. <i>International Journal of Quantum Information</i> , 2018, 16, 1840001.	1.1	3
14	A quantum search decoder for natural language processing. <i>Quantum Machine Intelligence</i> , 2021, 3, 1.	4.8	2
15	General Conditions for Universality of Quantum Hamiltonians. <i>PRX Quantum</i> , 2022, 3, .	9.2	2
16	Perturbation Gadgets: Arbitrary Energy Scales from a Single Strong Interaction. <i>Annales Henri Poincare</i> , 2020, 21, 81-114.	1.7	1