

Johannes Bausch

List of Publications by Year in descending order

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128
citing authors

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