

Armin Rahmani

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Emergent Supersymmetry from Strongly Interacting Majorana Zero Modes. Physical Review Letters, 2015, 115, 166401.	7.8	106
2	Optimizing Variational Quantum Algorithms Using Pontryagin's Minimum Principle. Physical Review X, 2017, 7, .	8.9	99
3	Phase diagram of the interacting Majorana chain model. Physical Review B, 2015, 92, .	3.2	80
4	Anti-Kibble-Zurek Behavior in Crossing the Quantum Critical Point of a Thermally Isolated System Driven by a Noisy Control Field. Physical Review Letters, 2016, 117, 080402.	7.8	51
5	Optimal control of Majorana zero modes. Physical Review B, 2015, 91, .	3.2	41
6	Optimal Control for Unitary Preparation of Many-Body States: Application to Luttinger Liquids. Physical Review Letters, 2011, 107, 016402.	7.8	33
7	Interacting Majorana fermions. Reports on Progress in Physics, 2019, 82, 084501.	20.1	33
8	Junctions of multiple quantum wires with different Luttinger parameters. Physical Review B, 2012, 86, .	3.2	32
9	General method for calculating the universal conductance of strongly correlated junctions of multiple quantum wires. Physical Review B, 2012, 85, .	3.2	30
10	Cooling through optimal control of quantum evolution. Physical Review A, 2013, 87, .	2.5	30
11	Optimal control of superconducting qubits using Pontryagin's minimum principle: Preparing a maximally entangled state with singular bang-bang protocols. Physical Review A, 2018, 97, .	2.5	29
12	Majorana-Hubbard model on the square lattice. Physical Review B, 2017, 96, .	3.2	27
13	How to Find Conductance Tensors of Quantum Multiwire Junctions through Static Calculations: Application to an Interacting Junction. Physical Review Letters, 2010, 105, 226803.	7.8	22
14	Optimal diabatic dynamics of Majorana-based quantum gates. Physical Review B, 2017, 96, .	3.2	18
15	Exact results on the quench dynamics of the entanglement entropy in the toric code. Physical Review B, 2010, 82, .	3.2	17
16	Optimal noise-canceling shortcuts to adiabaticity: application to noisy Majorana-based gates. New Journal of Physics, 2018, 20, 065005.	2.9	15
17	Creating and Manipulating a Laughlin-Type Fractional Quantum Hall State on a Quantum Computer with Linear Depth Circuits. PRX Quantum, 2020, 1, .	0.1	31
18	Phase diagrams of Majorana-Hubbard ladders. Physical Review B, 2019, 99, .	3.2	12

#	ARTICLE	IF	CITATIONS
19	QUANTUM DYNAMICS WITH AN ENSEMBLE OF HAMILTONIANS. Modern Physics Letters B, 2013, 27, 1330019.	1.9	9
20	Thermally isolated Luttinger liquids with noisy Hamiltonians. Physical Review B, 2013, 87, .	3.2	8
21	Anyonic Liquids in Nearly Saturated Spin Chains. Physical Review Letters, 2014, 113, 267201.	7.8	6
22	Interplay of Anderson localization and quench dynamics. Physical Review B, 2018, 97, .	3.2	4
23	Dynamics of single polymers under extreme confinement. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P09022-P09022.	2.3	3
24	Spanning trees for the geometry and dynamics of compact polymers. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, L03004.	2.3	0
25	Topological and geometric patterns in optimal bang-bang protocols for variational quantum algorithms: Application to the XZ model on the square lattice. Physical Review Research, 2021, 3, .	3.6	0