

Tony John George Apollaro

List of Publications by Year in descending order

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44
papers

1,302
citations

394286

19
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345118

36
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44
all docs

44
docs citations

44
times ranked

838
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational quantum eigensolver for SU(N) fermions. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 265301.	0.7	2
2	The role of localizable concurrence in quantum teleportation protocols. International Journal of Quantum Information, 2021, 19, .	0.6	1
3	Two-Excitation Routing via Linear Quantum Channels. Entropy, 2021, 23, 51.	1.1	1
4	Dimensionality-enhanced quantum state transfer in long-range-interacting spin systems. Physical Review A, 2020, 101, .	1.0	11
5	Multipartite entanglement transfer in spin chains. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126306.	0.9	9
6	Perturbative many-body transfer. New Journal of Physics, 2020, 22, 033030.	1.2	19
7	Quantum Thermodynamics at Impurity Quantum Phase Transitions. Springer Proceedings in Physics, 2020, , 361-373.	0.1	0
8	Injected coherence in the tunneling of ultracold atoms through a two-photon mazer in the squeezed vacuum and coherent field distributions. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 894.	0.9	1
9	Coexistence of Different Scaling Laws for the Entanglement Entropy in a Periodically Driven System. Proceedings (mdpi), 2019, 12, .	0.2	0
10	Spin chains for two-qubit teleportation. Physical Review A, 2019, 100, .	1.0	19
11	Remnants of Anderson localization in prethermalization induced by white noise. Physical Review B, 2018, 98, .	1.1	13
12	Irreversible work versus fidelity susceptibility for infinitesimal quenches. International Journal of Modern Physics B, 2017, 31, 1750065.	1.0	7
13	Universal scaling for the quantum Ising chain with a classical impurity. Physical Review B, 2017, 96, .	1.1	7
14	Disorder-assisted distribution of entanglement in X and Y spin chains. Physical Review A, 2017, 96, .	1.1	27
15	2-qubit quantum state transfer in spin chains and cold atoms with weak links. International Journal of Quantum Information, 2017, 15, 1750037.	0.6	8
16	Quantum Critical Scaling under Periodic Driving. Scientific Reports, 2017, 7, 5672.	1.6	19
17	Local quench, Majorana zero modes, and disturbance propagation in the Ising chain. Physical Review B, 2016, 94, .	1.1	12
18	Entanglement entropy in a periodically driven quantum Ising ring. Physical Review B, 2016, 94, .	1.1	15

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19	Quantum-state transfer in staggered coupled-cavity arrays. <i>Physical Review A</i> , 2016, 93, .	1.0	58
20	Nonequilibrium critical scaling in quantum thermodynamics. <i>Physical Review B</i> , 2016, 93, .	1.1	25
21	Many-qubit quantum state transfer via spin chains. <i>Physica Scripta</i> , 2015, T165, 014036.	1.2	21
22	Work statistics, irreversible heat and correlations build-up in joining two spin chains. <i>Physica Scripta</i> , 2015, T165, 014023.	1.2	15
23	Transfer of arbitrary two-qubit states via a spin chain. <i>Physical Review A</i> , 2015, 91, .	1.0	48
24	Irreversible Work and Inner Friction in Quantum Thermodynamic Processes. <i>Physical Review Letters</i> , 2014, 113, 260601.	2.9	117
25	Assessing the Nonequilibrium Thermodynamics in a Quenched Quantum Many-Body System via Single Projective Measurements. <i>Physical Review X</i> , 2014, 4, .	2.8	68
26	Competition between memory-keeping and memory-erasing decoherence channels. <i>Physical Review A</i> , 2014, 90, .	1.0	24
27	Routing quantum information in spin chains. <i>Physical Review A</i> , 2013, 87, .	1.0	66
28	Global quantum correlations in finite-size spin chains. <i>New Journal of Physics</i> , 2013, 15, 043033.	1.2	59
29	TRANSPORT OF QUANTUM CORRELATIONS ACROSS A SPIN CHAIN. <i>International Journal of Modern Physics B</i> , 2013, 27, 1345035.	1.0	34
30	Effective cutting of a quantum spin chain by bond impurities. <i>Physical Review A</i> , 2013, 88, .	1.0	10
31	Quantum-state transfer via resonant tunneling through local-field-induced barriers. <i>Physical Review A</i> , 2013, 87, .	1.0	64
32	$99 \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mo} \rangle \% \langle \text{mml:mo} \rangle \langle \text{mml:math} \rangle$ -fidelity ballistic quantum-state transfer through long uniform channels. <i>Physical Review A</i> , 2012, 85, .	1.0	76
33	Memory-keeping effects and forgetfulness in the dynamics of a qubit coupled to a spin chain. <i>Physical Review A</i> , 2011, 83, .	1.0	88
34	Propagation of nonclassical correlations across a quantum spin chain. <i>Physical Review A</i> , 2011, 84, .	1.0	49
35	Efficient Quantum Information Transfer through a Uniform Channel. <i>Nanomaterials and Nanotechnology</i> , 2011, 1, 2.	1.2	10
36	Long quantum channels for high-quality entanglement transfer. <i>New Journal of Physics</i> , 2011, 13, 123006.	1.2	79

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37	Optimal dynamics for quantum-state and entanglement transfer through homogeneous quantum systems. <i>Physical Review A</i> , 2010, 82, .	1.0	96
38	Manipulating and protecting entanglement by means of spin environments. <i>New Journal of Physics</i> , 2010, 12, 083046.	1.2	20
39	Storage and transmission of entanglement in a spin chain. , 2009, , .		0
40	ENTANGLEMENT MODULATION IN A SPIN CHAIN BY A LOCAL IMPURITY. <i>International Journal of Quantum Information</i> , 2008, 06, 567-573.	0.6	3
41	Staggered magnetization and entanglement enhancement by magnetic impurities in a $S=1/2$ spin chain. <i>Physical Review A</i> , 2008, 77, .	1.0	14
42	Local Control of Entanglement in a Spin Chain. <i>Physical Review Letters</i> , 2007, 99, 177210.	2.9	48
43	Quantum Information Storage in the Localized State of a Spin Chain. <i>Open Systems and Information Dynamics</i> , 2007, 14, 41-51.	0.5	7
44	Entanglement localization by a single defect in a spin chain. <i>Physical Review A</i> , 2006, 74, .	1.0	32