

Salvatore M Giampaolo

List of Publications by Year in descending order

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62
papers

1,304
citations

331259

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62
docs citations

62
times ranked

790
citing authors

#	ARTICLE	IF	CITATIONS
1	Fate of local order in topologically frustrated spin chains. <i>Physical Review B</i> , 2022, 105, .	1.1	8
2	Topological Frustration can modify the nature of a Quantum Phase Transition. <i>SciPost Physics</i> , 2022, 12, .	1.5	4
3	Odd thermodynamic limit for the Loschmidt echo. <i>Physical Review B</i> , 2022, 105, .	1.1	1
4	Resilience of the topological phases to frustration. <i>Scientific Reports</i> , 2021, 11, 6508.	1.6	4
5	Entanglement and violation of the discrete symmetries in oscillating systems. <i>Journal of Physics: Conference Series</i> , 2021, 1919, 012001.	0.3	1
6	Testing CPT violation, entanglement and gravitational interactions in particle mixing with trapped ions. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	3
7	Effects of defects in the XY chain with frustrated boundary conditions. <i>Physical Review B</i> , 2021, 103, .	1.1	9
8	Neutron interferometry, fifth force and axion like particles. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	10
9	Revealing neutrino nature and CPT violation with decoherence effects. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	14
10	Discerning the Nature of Neutrinos: Decoherence and Geometric Phases. <i>Universe</i> , 2020, 6, 207.	0.9	11
11	Quantum phase transition induced by topological frustration. <i>Communications Physics</i> , 2020, 3, .	2.0	16
12	Probing quantum field theory particle mixing and dark-matter-like effects with Rydberg atoms. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	6
13	Consequences of $f(?)$ Cosmology in Thermal Leptogenesis and Gravitino Late Abundance. <i>Symmetry</i> , 2020, 12, 300.	1.1	2
14	The frustration of being odd: how boundary conditions can destroy local order. <i>New Journal of Physics</i> , 2020, 22, 083024.	1.2	18
15	Entanglement, holonomic constraints, and the quantization of fundamental interactions. <i>Scientific Reports</i> , 2019, 9, 11362.	1.6	10
16	The frustration of being odd: universal area law violation in local systems. <i>Journal of Physics Communications</i> , 2019, 3, 081001.	0.5	19
17	Gravity, entanglement and CPT-symmetry violation in particle mixing. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	19
18	The interplay between frustration and entanglement in many-body systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 023101.	0.9	2

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19	Many-body atomic speed sensor in lattices. <i>Physical Review A</i> , 2018, 97, .	1.0	1
20	n -cluster models in a transverse magnetic field. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 063103.	0.9	9
21	Entanglement complexity in quantum many-body dynamics, thermalization, and localization. <i>Physical Review B</i> , 2017, 96, .	1.1	43
22	Quench of a symmetry-broken ground state. <i>Physical Review A</i> , 2017, 95, .	1.0	2
23	Mutual information and spontaneous symmetry breaking. <i>Physical Review A</i> , 2016, 93, .	1.0	15
24	Topological and nematic ordered phases in many-body cluster-Ising models. <i>Physical Review A</i> , 2015, 92, .	1.0	25
25	Global-to-local incompatibility, monogamy of entanglement, and ground-state dimerization: Theory and observability of quantum frustration in systems with competing interactions. <i>Physical Review B</i> , 2015, 92, .	1.1	10
26	Genuine multipartite entanglement in the cluster-Ising model. <i>New Journal of Physics</i> , 2014, 16, 093033.	1.2	29
27	Adiabatic quantum simulation with a segmented ion trap: Application to long-distance entanglement in quantum spin systems. <i>Physical Review A</i> , 2014, 89, .	1.0	20
28	Discord of response. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 365301.	0.7	21
29	Frustration, entanglement, and correlations in quantum many-body systems. <i>Physical Review A</i> , 2013, 88, .	1.0	36
30	Entanglement amplification in the nonperturbative dynamics of modular quantum systems. <i>Physical Review A</i> , 2013, 88, .	1.0	2
31	Theory of warm ionized gases: Equation of state and kinetic Schottky anomaly. <i>Physical Review E</i> , 2013, 88, 042132.	0.8	7
32	Quantifying nonclassicality: Global impact of local unitary evolutions. <i>Physical Review A</i> , 2013, 87, .	1.0	26
33	Surface entanglement in quantum spin networks. <i>Physical Review A</i> , 2013, 87, .	1.0	6
34	Universal aspects in the behavior of the entanglement spectrum in one dimension: Scaling transition at the factorization point and ordered entangled structures. <i>Physical Review B</i> , 2013, 88, .	1.1	36
35	Genuine multipartite entanglement in the XY model. <i>Physical Review A</i> , 2013, 88, .	1.0	39
36	Microscopic theory of warm ionized gases: equation of state and kinetic Schottky anomaly. <i>Journal of Physics: Conference Series</i> , 2013, 442, 012064.	0.3	0

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37	Localization of Bose-Einstein condensates in optical lattices. Open Physics, 2011, 9, .	0.8	1
38	Characterizing and Quantifying Frustration in Quantum Many-Body Systems. Physical Review Letters, 2011, 107, 260602.	2.9	46
39	Entanglement quantification by local unitary operations. Physical Review A, 2011, 84, .	1.0	26
40	Modular Entanglement. Physical Review Letters, 2011, 106, 050501.	2.9	30
41	Geometric measures of multipartite entanglement in finite-size spin chains. Physica Scripta, 2010, T140, 014016.	1.2	5
42	Quantum localization and bound-state formation in Bose-Einstein condensates. Physical Review A, 2010, 82, .	1.0	17
43	Probing Quantum Frustrated Systems via Factorization of the Ground State. Physical Review Letters, 2010, 104, 207202.	2.9	48
44	Long-distance entanglement in many-body atomic and optical systems. New Journal of Physics, 2010, 12, 025019.	1.2	50
45	Unconventional quantum phases in lattice bosonic mixtures. European Physical Journal B, 2009, 68, 427-433.	0.6	8
46	Separability and ground-state factorization in quantum spin systems. Physical Review B, 2009, 79, .	1.1	72
47	Long-distance entanglement and quantum teleportation in coupled-cavity arrays. Physical Review A, 2009, 80, .	1.0	39
48	Multipartite geometric entanglement in finite size XY model. Journal of Physics: Conference Series, 2009, 174, 012064.	0.3	3
49	Determination of ground-state properties in quantum spin systems by single-qubit unitary operations and entanglement excitation energies. Physical Review A, 2008, 77, .	1.0	15
50	Mixtures of Strongly Interacting Bosons in Optical Lattices. Physical Review Letters, 2008, 100, 240402.	2.9	48
51	Theory of Ground State Factorization in Quantum Cooperative Systems. Physical Review Letters, 2008, 100, 197201.	2.9	85
52	Geometric characterization of separability and entanglement in pure Gaussian states by single-mode unitary operations. Physical Review A, 2007, 76, .	1.0	7
53	Long-distance entanglement and quantum teleportation in $\langle \langle X \rangle \rangle$ spin	1.0	123
54	Characterization of separability and entanglement in $\langle \langle D \rangle \rangle$ systems by single-qubit and single-qutrit unitary. Physical Review A, 2007, 76, .	1.0	24

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55	Extended Bose Hubbard model of interacting bosonic atoms in optical lattices: From superfluidity to density waves. <i>Physical Review A</i> , 2006, 73, .	1.0	59
56	Engineering massive quantum memories by topologically time-modulated spin rings. <i>Laser Physics</i> , 2006, 16, 1411-1417.	0.6	9
57	MASSIVE QUANTUM MEMORIES BY PERIODICALLY INVERTED DYNAMIC EVOLUTIONS. <i>International Journal of Quantum Information</i> , 2006, 04, 507-517.	0.6	5
58	Storing quantum information in XXZ spin rings with periodically time-controlled interactions. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2005, 7, S337-S340.	1.4	6
59	Influence of trapping potentials on the phase diagram of bosonic atoms in optical lattices. <i>Physical Review A</i> , 2004, 70, .	1.0	6
60	Expansion Around the Mean Field in Quantum Magnetic Systems. <i>Journal of Statistical Physics</i> , 2004, 115, 125-142.	0.5	0
61	Study of Intermicellar Interactions and Micellar Sizes in Ionic Micelle Solutions by Comparing Collective Diffusion and Self-Diffusion Coefficients. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4799-4805.	1.2	37
62	Decoherence slowing down in a symmetry-broken environment. <i>Physical Review A</i> , 2002, 66, .	1.0	51