

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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360668

35
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62
all docs

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docs citations

62
times ranked

790
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-distance entanglement and quantum teleportation in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ spin chains. Physical Review A, 2007, 76, .	1.0	123
2	Theory of Ground State Factorization in Quantum Cooperative Systems. Physical Review Letters, 2008, 100, 197201.	2.9	85
3	Separability and ground-state factorization in quantum spin systems. Physical Review B, 2009, 79, .	1.1	72
4	Extended Bose Hubbard model of interacting bosonic atoms in optical lattices: From superfluidity to density waves. Physical Review A, 2006, 73, .	1.0	59
5	Decoherence slowing down in a symmetry-broken environment. Physical Review A, 2002, 66, .	1.0	51
6	Long-distance entanglement in many-body atomic and optical systems. New Journal of Physics, 2010, 12, 025019.	1.2	50
7	Mixtures of Strongly Interacting Bosons in Optical Lattices. Physical Review Letters, 2008, 100, 240402.	2.9	48
8	Probing Quantum Frustrated Systems via Factorization of the Ground State. Physical Review Letters, 2010, 104, 207202.	2.9	48
9	Characterizing and Quantifying Frustration in Quantum Many-Body Systems. Physical Review Letters, 2011, 107, 260602.	2.9	46
10	Entanglement complexity in quantum many-body dynamics, thermalization, and localization. Physical Review B, 2017, 96, .	1.1	43
11	Long-distance entanglement and quantum teleportation in coupled-cavity arrays. Physical Review A, 2009, 80, .	1.0	39
12	Genuine multipartite entanglement in the XY model. Physical Review A, 2013, 88, .	1.0	39
13	Study of Intermicellar Interactions and Micellar Sizes in Ionic Micelle Solutions by Comparing Collective Diffusion and Self-Diffusion Coefficients. Journal of Physical Chemistry B, 2004, 108, 4799-4805.	1.2	37
14	Frustration, entanglement, and correlations in quantum many-body systems. Physical Review A, 2013, 88, .	1.0	36
15	Universal aspects in the behavior of the entanglement spectrum in one dimension: Scaling transition at the factorization point and ordered entangled structures. Physical Review B, 2013, 88, .	1.1	36
16	Modular Entanglement. Physical Review Letters, 2011, 106, 050501.	2.9	30
17	Genuine multipartite entanglement in the cluster-Ising model. New Journal of Physics, 2014, 16, 093033.	1.2	29
18	Entanglement quantification by local unitary operations. Physical Review A, 2011, 84, .	1.0	26

#	ARTICLE	IF	CITATIONS
19	Quantifying nonclassicality: Global impact of local unitary evolutions. <i>Physical Review A</i> , 2013, 87, .	1.0	26
20	Topological and nematic ordered phases in many-body cluster-Ising models. <i>Physical Review A</i> , 2015, 92, .	1.0	25
21	Characterization of separability and entanglement in n -qubit systems by single-qubit and single-qutrit unitary. <i>Physical Review A</i> , 2007, 76, .	1.0	24
22	Discord of response. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 365301.	0.7	21
23	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
24	The frustration of being odd: universal area law violation in local systems. <i>Journal of Physics Communications</i> , 2019, 3, 081001.	0.5	19
25	Gravity, entanglement and CPT-symmetry violation in particle mixing. <i>European Physical Journal C</i> , 2019, 79, 1.	1.4	19
26	The frustration of being odd: how boundary conditions can destroy local order. <i>New Journal of Physics</i> , 2020, 22, 083024.	1.2	18
27	Quantum localization and bound-state formation in Bose-Einstein condensates. <i>Physical Review A</i> , 2010, 82, .	1.0	17
28	Quantum phase transition induced by topological frustration. <i>Communications Physics</i> , 2020, 3, .	2.0	16
29	Determination of ground-state properties in quantum spin systems by single-qubit unitary operations and entanglement excitation energies. <i>Physical Review A</i> , 2008, 77, .	1.0	15
30	Mutual information and spontaneous symmetry breaking. <i>Physical Review A</i> , 2016, 93, .	1.0	15
31	Revealing neutrino nature and CPT violation with decoherence effects. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	14
32	Discerning the Nature of Neutrinos: Decoherence and Geometric Phases. <i>Universe</i> , 2020, 6, 207.	0.9	11
33	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
34	Entanglement, holonomic constraints, and the quantization of fundamental interactions. <i>Scientific Reports</i> , 2019, 9, 11362.	1.6	10
35	Neutron interferometry, fifth force and axion like particles. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	10
36	Engineering massive quantum memories by topologically time-modulated spin rings. <i>Laser Physics</i> , 2006, 16, 1411-1417.	0.6	9

#	ARTICLE	IF	CITATIONS
37	$\langle i \rangle_n \langle /i \rangle$ -cluster models in a transverse magnetic field. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 063103.	0.9	9
38	Effects of defects in the XY chain with frustrated boundary conditions. Physical Review B, 2021, 103, .	1.1	9
39	Unconventional quantum phases in lattice bosonic mixtures. European Physical Journal B, 2009, 68, 427-433.	0.6	8
40	Fate of local order in topologically frustrated spin chains. Physical Review B, 2022, 105, .	1.1	8
41	Geometric characterization of separability and entanglement in pure Gaussian states by single-mode unitary operations. Physical Review A, 2007, 76, .	1.0	7
42	Theory of warm ionized gases: Equation of state and kinetic Schottky anomaly. Physical Review E, 2013, 88, 042132.	0.8	7
43	Influence of trapping potentials on the phase diagram of bosonic atoms in optical lattices. Physical Review A, 2004, 70, .	1.0	6
44	Storing quantum information in XXZ spin rings with periodically time-controlled interactions. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S337-S340.	1.4	6
45	Surface entanglement in quantum spin networks. Physical Review A, 2013, 87, .	1.0	6
46	Probing quantum field theory particle mixing and dark-matter-like effects with Rydberg atoms. European Physical Journal C, 2020, 80, 1.	1.4	6
47	MASSIVE QUANTUM MEMORIES BY PERIODICALLY INVERTED DYNAMIC EVOLUTIONS. International Journal of Quantum Information, 2006, 04, 507-517.	0.6	5
48	Geometric measures of multipartite entanglement in finite-size spin chains. Physica Scripta, 2010, T140, 014016.	1.2	5
49	Resilience of the topological phases to frustration. Scientific Reports, 2021, 11, 6508.	1.6	4
50	Topological Frustration can modify the nature of a Quantum Phase Transition. SciPost Physics, 2022, 12, .	1.5	4
51	Multipartite geometric entanglement in finite size XY model. Journal of Physics: Conference Series, 2009, 174, 012064.	0.3	3
52	Testing CPT violation, entanglement and gravitational interactions in particle mixing with trapped ions. European Physical Journal C, 2021, 81, 1.	1.4	3
53	Entanglement amplification in the nonperturbative dynamics of modular quantum systems. Physical Review A, 2013, 88, .	1.0	2
54	Quench of a symmetry-broken ground state. Physical Review A, 2017, 95, .	1.0	2

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55	The interplay between frustration and entanglement in many-body systems. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 023101.	0.9	2
56	Consequences of f(?) Cosmology in Thermal Leptogenesis and Gravitino Late Abundance. Symmetry, 2020, 12, 300.	1.1	2
57	Localization of Bose-Einstein condensates in optical lattices. Open Physics, 2011, 9, .	0.8	1
58	Many-body atomic speed sensor in lattices. Physical Review A, 2018, 97, .	1.0	1
59	Entanglement and violation of the discrete symmetries in oscillating systems. Journal of Physics: Conference Series, 2021, 1919, 012001.	0.3	1
60	Odd thermodynamic limit for the Loschmidt echo. Physical Review B, 2022, 105, .	1.1	1
61	Expansion Around the Mean Field in Quantum Magnetic Systems. Journal of Statistical Physics, 2004, 115, 125-142.	0.5	0
62	Microscopic theory of warm ionized gases: equation of state and kinetic Schottky anomaly. Journal of Physics: Conference Series, 2013, 442, 012064.	0.3	0