

Paola Verrucchi

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79 papers	1,555 citations	20 h-index	38 g-index
83 ext. papers	1,717 ext. citations	3.2 avg, IF	4.24 L-index

#	Paper	IF	Citations
79	Studying quantum spin systems through entanglement estimators. <i>Physical Review Letters</i> , 2004 , 93, 167203	7.4	140
78	Entanglement and factorized ground states in two-dimensional quantum antiferromagnets. <i>Physical Review Letters</i> , 2005 , 94, 147208	7.4	112
77	Divergence of the entanglement range in low-dimensional quantum systems. <i>Physical Review A</i> , 2006 , 74,	2.6	96
76	Quantum Monte Carlo study of S=12 weakly anisotropic antiferromagnets on the square lattice. <i>Physical Review B</i> , 2003 , 67,	3.3	96
75	Nonperturbative entangling gates between distant qubits using uniform cold atom chains. <i>Physical Review Letters</i> , 2011 , 106, 140501	7.4	89
74	Optimal dynamics for quantum-state and entanglement transfer through homogeneous quantum systems. <i>Physical Review A</i> , 2010 , 82,	2.6	79
73	The effective potential and effective Hamiltonian in quantum statistical mechanics. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 7891-7938	1.8	70
72	Long quantum channels for high-quality entanglement transfer. <i>New Journal of Physics</i> , 2011 , 13, 123006.9	6.9	67
71	99%-fidelity ballistic quantum-state transfer through long uniform channels. <i>Physical Review A</i> , 2012 , 85,	2.6	62
70	Quantum Measurement Cooling. <i>Physical Review Letters</i> , 2019 , 122, 070603	7.4	47
69	Temperature and Spin Dependent Correlation Length of the Quantum Heisenberg Antiferromagnet on the Square Lattice. <i>Physical Review Letters</i> , 1996 , 77, 3439-3442	7.4	46
68	Quantum thermodynamics in classical phase space. <i>Physical Review A</i> , 1992 , 45, 8418-8429	2.6	43
67	Detection of XY behavior in weakly anisotropic quantum antiferromagnets on the square lattice. <i>Physical Review Letters</i> , 2003 , 90, 167205	7.4	40
66	Two-spin entanglement distribution near factorized states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007 , 40, 9845-9857	2	39
65	Field-induced XY behavior in the S=12 antiferromagnet on the square lattice. <i>Physical Review B</i> , 2003 , 68,	3.3	36
64	Reading entanglement in terms of spin configurations in quantum magnets. <i>European Physical Journal D</i> , 2006 , 38, 563-570	1.3	35
63	Initializing an unmodulated spin chain to operate as a high-quality quantum data bus. <i>Physical Review A</i> , 2011 , 83,	2.6	30

62	Spin dynamics and magnetic correlation length in two-dimensional quantum heisenberg antiferromagnets. <i>Physical Review Letters</i> , 2000 , 84, 366-9	7.4	29
61	Quantum thermodynamics of the easy-plane ferromagnetic chain. <i>Physical Review B</i> , 1992 , 46, 11601-11616	3.6	29
60	Two-dimensional quantum Heisenberg antiferromagnet: Effective-Hamiltonian approach to the thermodynamics. <i>Physical Review B</i> , 1997 , 56, 14456-14468	3.3	27
59	Parametric representation of open quantum systems and cross-over from quantum to classical environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6748-53	11.5	20
58	Manipulating and protecting entanglement by means of spin environments. <i>New Journal of Physics</i> , 2010 , 12, 083046	2.9	18
57	Thermodynamics of the quantum easy-plane antiferromagnet on the triangular lattice. <i>Physical Review B</i> , 1999 , 60, 7299-7303	3.3	18
56	Quantum effects on the Berezinskii-Kosterlitz-Thouless transition in the ferromagnetic two-dimensional XXZ model. <i>Physical Review B</i> , 1995 , 51, 12840-12843	3.3	16
55	When finite-size corrections vanish: The S=12 XXZ model and the Razumov-Stroganov state. <i>Physical Review A</i> , 2009 , 80,	2.6	15
54	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,	2.6	14
53	Staggered magnetization and entanglement enhancement by magnetic impurities in a S=12 spin chain. <i>Physical Review A</i> , 2008 , 77,	2.6	14
52	Quantum renormalization of the XY model. <i>Journal of Applied Physics</i> , 1994 , 75, 5814-5816	2.5	14
51	Cuccoli, Tognetti, Vaia, and Verrucchi Reply:. <i>Physical Review Letters</i> , 1997 , 79, 1584-1584	7.4	13
50	Noise-resilient variational hybrid quantum-classical optimization. <i>Physical Review A</i> , 2020 , 102,	2.6	12
49	Extracting signatures of quantum criticality in the finite-temperature behavior of many-body systems. <i>Physical Review B</i> , 2007 , 76,	3.3	11
48	Effective cutting of a quantum spin chain by bond impurities. <i>Physical Review A</i> , 2013 , 88,	2.6	10
47	Finite-temperature ordering in two-dimensional magnets. <i>Physical Review B</i> , 2000 , 62, 3771-3777	3.3	10
46	Quantum thermodynamics of easy-plane ferromagnetic chains. <i>Physical Review B</i> , 1991 , 44, 903-905	3.3	9
45	Effective description of the short-time dynamics in open quantum systems. <i>Physical Review A</i> , 2017 , 96,	2.6	8

44	Parametric description of the quantum measurement process. <i>Europhysics Letters</i> , 2015 , 111, 40008	1.6	8
43	Semiclassical approach to the thermodynamics of spin chains. <i>Physical Review B</i> , 2000 , 62, 57-60	3.3	8
42	Heisenberg antiferromagnet on the square lattice for $S \gg 1$. <i>Physical Review B</i> , 1998 , 58, 14151-14154	3.3	8
41	Quantum correction to the BKT transition for 2D easy-plane antiferromagnets. <i>Journal of Applied Physics</i> , 1996 , 79, 4638	2.5	8
40	Quantum Berezinskii-Kosterlitz-Thouless transition in square-lattice magnets with easy-plane anisotropy. <i>Physica D: Nonlinear Phenomena</i> , 1998 , 119, 68-72	3.3	7
39	Phase diagram of the two-dimensional quantum antiferromagnet in a magnetic field. <i>Journal of Applied Physics</i> , 2006 , 99, 08H503	2.5	7
38	Whenever a quantum environment emerges as a classical system, it behaves like a measuring apparatus. <i>Quantum - the Open Journal for Quantum Science</i> , 3, 179		7
37	Getting through to a qubit by magnetic solitons. <i>New Journal of Physics</i> , 2015 , 17, 083053	2.9	6
36	Quantum gates controlled by spin chain soliton excitations. <i>Journal of Applied Physics</i> , 2014 , 115, 17B302.5		6
35	Critical behavior of the two-dimensional easy-plane ferromagnet. <i>Journal of Applied Physics</i> , 1994 , 76, 6362-6364	2.5	6
34	Using solitons for manipulating qubits. <i>International Journal of Quantum Information</i> , 2014 , 12, 1461013 o.8		5
33	Dynamics of Open Quantum Systems Using Parametric Representation with Coherent States. <i>Open Systems and Information Dynamics</i> , 2013 , 20, 1340002	0.4	5
32	Quantum Monte Carlo Study of Entanglement in Quantum Spin Systems. <i>Journal of Low Temperature Physics</i> , 2005 , 140, 293-302	1.3	5
31	The quantum 2-D XXZ ferromagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 1703-1704		5
30	Formation of the Haldane phase by soliton-pair dissociation: Results from a cluster approximation. <i>Physical Review B</i> , 1995 , 52, 3571-3576	3.3	4
29	Quantum dynamics of a macroscopic magnet operating as an environment of a mechanical oscillator. <i>Physical Review A</i> , 2016 , 94,	2.6	4
28	Getting Information via a Quantum Measurement: The Role of Decoherence. <i>International Journal of Theoretical Physics</i> , 2015 , 54, 4356-4366	1.1	3
27	Thermodynamics of two-dimensional XXZ easy-plane quantum Heisenberg magnets. <i>Journal of Applied Physics</i> , 1997 , 81, 4137-4139	2.5	3

26	Phase transitions in anisotropic two-dimensional quantum antiferromagnets. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 236, 433-436	1.3	3
25	Quantum two-dimensional Heisenberg antiferromagnet: Bridging the gap between field-theoretical and semiclassical approaches. <i>Physical Review B</i> , 2003 , 68,	3.3	3
24	Quantum Monte Carlo simulation of two-dimensional S=1/2 antiferromagnets with very weak easy-plane anisotropy. <i>Journal of Applied Physics</i> , 2003 , 93, 7640-7642	2.5	3
23	Spin Chains as Data Buses, Logic Buses and Entanglers 2014 , 1-37		3
22	Time and classical equations of motion from quantum entanglement via the Page and Wootters mechanism with generalized coherent states. <i>Nature Communications</i> , 2021 , 12, 1787	17.4	3
21	The rhythm of quantum algorithms. <i>Soft Computing</i> , 2017 , 21, 1515-1521	3.5	2
20	Open Quantum Systems and the Parametric Representation: From Entanglement to Berry's Phase. <i>International Journal of Theoretical Physics</i> , 2014 , 53, 3434-3446	1.1	2
19	ENTANGLEMENT MODULATION IN A SPIN CHAIN BY A LOCAL IMPURITY. <i>International Journal of Quantum Information</i> , 2008 , 06, 567-573	0.8	2
18	Anisotropy and Ising-type transition of the S=5/2 two-dimensional Heisenberg antiferromagnet Mn-formate di-Urea. <i>Journal of Applied Physics</i> , 2003 , 93, 7637-7639	2.5	2
17	Correlated spin dynamics in 2-D quantum Heisenberg antiferromagnets from NMR relaxation in copper formate tetradeuterate. <i>Applied Magnetic Resonance</i> , 2000 , 19, 391-398	0.8	2
16	The quantum Heisenberg antiferromagnet on the square lattice. <i>Journal of Applied Physics</i> , 1999 , 85, 6079-6081	2.5	2
15	Quantum correlations between distant qubits conveyed by large-S spin chains. <i>Physical Review B</i> , 2017 , 96,	3.3	1
14	Signatures of XY behavior in 2D weakly anisotropic antiferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E651-E652	2.8	1
13	Thermodynamics of the two-dimensional easy-axis quantum antiferromagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 562-563	2.8	1
12	Phase transitions in the quantum easy-plane antiferromagnet on the triangular lattice. <i>Journal of Applied Physics</i> , 2000 , 87, 7037-7039	2.5	1
11	Thermodynamics and correlations of the easy-plane ferromagnet CsNiF ₃ . <i>Journal of Applied Physics</i> , 1993 , 73, 6998-7000	2.5	1
10	Quantum thermodynamics of easy-plane ferromagnetic chains. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 785-787	2.8	1
9	Entanglement in quantum-critical spin systems 2006 , 313-321		1

8	Single-qubit remote manipulation by magnetic solitons. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 400, 149-153	2.8	o
7	Two-Qubits in a Large-S Environment. <i>Proceedings (mdpi)</i> , 2019 , 12, 10	0.3	o
6	Classical Ising chain in transverse field. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, e477-e478	2.8	o
5	Correlation length of the isotropic quantum Heisenberg antiferromagnet. <i>Journal of Applied Physics</i> , 1997 , 81, 4224-4226	2.5	
4	Quantum Heisenberg antiferromagnets: a survey of the activity in Florence (Review). <i>Low Temperature Physics</i> , 2005 , 31, 668-685	0.7	
3	Quantum Phase Transition in Spin Systems Studied through Entanglement Estimators. <i>Open Systems and Information Dynamics</i> , 2006 , 13, 445-453	0.4	
2	Reconciling field-theoretical and semiclassical approaches to quantum 2D antiferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 892-893	2.8	
1	Thermodynamics of quantum spin chains 1991 , 36-43		