

Paola Verrucchi

List of Publications by Year in Descending Order

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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.

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|-------------------|-------------------------|----------------|-----------------|
| 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 | 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 |
| 78 | Noise-resilient variational hybrid quantum-classical optimization. <i>Physical Review A</i> , 2020 , 102, | 2.6 | 12 |
| 77 | Two-Qubits in a Large-S Environment. <i>Proceedings (mdpi)</i> , 2019 , 12, 10 | 0.3 | 0 |
| 76 | Quantum Measurement Cooling. <i>Physical Review Letters</i> , 2019 , 122, 070603 | 7.4 | 47 |
| 75 | The rhythm of quantum algorithms. <i>Soft Computing</i> , 2017 , 21, 1515-1521 | 3.5 | 2 |
| 74 | Quantum correlations between distant qubits conveyed by large-S spin chains. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 1 |
| 73 | Effective description of the short-time dynamics in open quantum systems. <i>Physical Review A</i> , 2017 , 96, | 2.6 | 8 |
| 72 | Single-qubit remote manipulation by magnetic solitons. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 400, 149-153 | 2.8 | 0 |
| 71 | Quantum dynamics of a macroscopic magnet operating as an environment of a mechanical oscillator. <i>Physical Review A</i> , 2016 , 94, | 2.6 | 4 |
| 70 | Getting Information via a Quantum Measurement: The Role of Decoherence. <i>International Journal of Theoretical Physics</i> , 2015 , 54, 4356-4366 | 1.1 | 3 |
| 69 | Getting through to a qubit by magnetic solitons. <i>New Journal of Physics</i> , 2015 , 17, 083053 | 2.9 | 6 |
| 68 | Parametric description of the quantum measurement process. <i>Europhysics Letters</i> , 2015 , 111, 40008 | 1.6 | 8 |
| 67 | 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 |
| 66 | Using solitons for manipulating qubits. <i>International Journal of Quantum Information</i> , 2014 , 12, 1461013 | 0.8 | 5 |
| 65 | Quantum gates controlled by spin chain soliton excitations. <i>Journal of Applied Physics</i> , 2014 , 115, 17B302 | 2.5 | 6 |
| 64 | Spin Chains as Data Buses, Logic Buses and Entanglers 2014 , 1-37 | | 3 |
| 63 | Effective cutting of a quantum spin chain by bond impurities. <i>Physical Review A</i> , 2013 , 88, | 2.6 | 10 |

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|----|---|------|----|
| 62 | Dynamics of Open Quantum Systems Using Parametric Representation with Coherent States. <i>Open Systems and Information Dynamics</i> , 2013 , 20, 1340002 | 0.4 | 5 |
| 61 | 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 |
| 60 | 99%-fidelity ballistic quantum-state transfer through long uniform channels. <i>Physical Review A</i> , 2012 , 85, | 2.6 | 62 |
| 59 | Initializing an unmodulated spin chain to operate as a high-quality quantum data bus. <i>Physical Review A</i> , 2011 , 83, | 2.6 | 30 |
| 58 | Nonperturbative entangling gates between distant qubits using uniform cold atom chains. <i>Physical Review Letters</i> , 2011 , 106, 140501 | 7.4 | 89 |
| 57 | Long quantum channels for high-quality entanglement transfer. <i>New Journal of Physics</i> , 2011 , 13, 123006 | 6.9 | 67 |
| 56 | Manipulating and protecting entanglement by means of spin environments. <i>New Journal of Physics</i> , 2010 , 12, 083046 | 2.9 | 18 |
| 55 | Optimal dynamics for quantum-state and entanglement transfer through homogeneous quantum systems. <i>Physical Review A</i> , 2010 , 82, | 2.6 | 79 |
| 54 | 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 |
| 53 | ENTANGLEMENT MODULATION IN A SPIN CHAIN BY A LOCAL IMPURITY. <i>International Journal of Quantum Information</i> , 2008 , 06, 567-573 | 0.8 | 2 |
| 52 | 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 |
| 51 | Staggered magnetization and entanglement enhancement by magnetic impurities in a S=12 spin chain. <i>Physical Review A</i> , 2008 , 77, | 2.6 | 14 |
| 50 | Classical Ising chain in transverse field. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, e477-e478 | 0 | 0 |
| 49 | Two-spin entanglement distribution near factorized states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007 , 40, 9845-9857 | 2 | 39 |
| 48 | Extracting signatures of quantum criticality in the finite-temperature behavior of many-body systems. <i>Physical Review B</i> , 2007 , 76, | 3.3 | 11 |
| 47 | Phase diagram of the two-dimensional quantum antiferromagnet in a magnetic field. <i>Journal of Applied Physics</i> , 2006 , 99, 08H503 | 2.5 | 7 |
| 46 | Divergence of the entanglement range in low-dimensional quantum systems. <i>Physical Review A</i> , 2006 , 74, | 2.6 | 96 |
| 45 | Reading entanglement in terms of spin configurations in quantum magnets. <i>European Physical Journal D</i> , 2006 , 38, 563-570 | 1.3 | 35 |

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| 44 | Quantum Phase Transition in Spin Systems Studied through Entanglement Estimators. <i>Open Systems and Information Dynamics</i> , 2006 , 13, 445-453 | 0.4 | |
| 43 | Entanglement in quantum-critical spin systems 2006 , 313-321 | | 1 |
| 42 | Quantum Heisenberg antiferromagnets: a survey of the activity in Florence (Review). <i>Low Temperature Physics</i> , 2005 , 31, 668-685 | 0.7 | |
| 41 | Quantum Monte Carlo Study of Entanglement in Quantum Spin Systems. <i>Journal of Low Temperature Physics</i> , 2005 , 140, 293-302 | 1.3 | 5 |
| 40 | Entanglement and factorized ground states in two-dimensional quantum antiferromagnets. <i>Physical Review Letters</i> , 2005 , 94, 147208 | 7.4 | 112 |
| 39 | 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 | |
| 38 | 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 |
| 37 | Studying quantum spin systems through entanglement estimators. <i>Physical Review Letters</i> , 2004 , 93, 167203 | 7.4 | 140 |
| 36 | Phase transitions in anisotropic two-dimensional quantum antiferromagnets. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 236, 433-436 | 1.3 | 3 |
| 35 | Quantum Monte Carlo study of S=12 weakly anisotropic antiferromagnets on the square lattice. <i>Physical Review B</i> , 2003 , 67, | 3.3 | 96 |
| 34 | Detection of XY behavior in weakly anisotropic quantum antiferromagnets on the square lattice. <i>Physical Review Letters</i> , 2003 , 90, 167205 | 7.4 | 40 |
| 33 | 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 |
| 32 | Field-induced XY behavior in the S=12 antiferromagnet on the square lattice. <i>Physical Review B</i> , 2003 , 68, | 3.3 | 36 |
| 31 | Quantum two-dimensional Heisenberg antiferromagnet: Bridging the gap between field-theoretical and semiclassical approaches. <i>Physical Review B</i> , 2003 , 68, | 3.3 | 3 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | Finite-temperature ordering in two-dimensional magnets. <i>Physical Review B</i> , 2000 , 62, 3771-3777 | 3.3 | 10 |

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|----|---|-----|----|
| 26 | Semiclassical approach to the thermodynamics of spin chains. <i>Physical Review B</i> , 2000 , 62, 57-60 | 3.3 | 8 |
| 25 | Spin dynamics and magnetic correlation length in two-dimensional quantum heisenberg antiferromagnets. <i>Physical Review Letters</i> , 2000 , 84, 366-9 | 7.4 | 29 |
| 24 | 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 |
| 23 | Thermodynamics of the quantum easy-plane antiferromagnet on the triangular lattice. <i>Physical Review B</i> , 1999 , 60, 7299-7303 | 3.3 | 18 |
| 22 | The quantum Heisenberg antiferromagnet on the square lattice. <i>Journal of Applied Physics</i> , 1999 , 85, 6079-6081 | 2.5 | 2 |
| 21 | 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 |
| 20 | Heisenberg antiferromagnet on the square lattice for $S \gg 1$. <i>Physical Review B</i> , 1998 , 58, 14151-14154 | 3.3 | 8 |
| 19 | Two-dimensional quantum Heisenberg antiferromagnet: Effective-Hamiltonian approach to the thermodynamics. <i>Physical Review B</i> , 1997 , 56, 14456-14468 | 3.3 | 27 |
| 18 | Cuccoli, Tognetti, Vaia, and Verrucchi Reply:. <i>Physical Review Letters</i> , 1997 , 79, 1584-1584 | 7.4 | 13 |
| 17 | Thermodynamics of two-dimensional XXZ easy-plane quantum Heisenberg magnets. <i>Journal of Applied Physics</i> , 1997 , 81, 4137-4139 | 2.5 | 3 |
| 16 | Correlation length of the isotropic quantum Heisenberg antiferromagnet. <i>Journal of Applied Physics</i> , 1997 , 81, 4224-4226 | 2.5 | |
| 15 | 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 |
| 14 | Quantum correction to the BKT transition for 2D easy-plane antiferromagnets. <i>Journal of Applied Physics</i> , 1996 , 79, 4638 | 2.5 | 8 |
| 13 | The quantum 2-D XXZ ferromagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 1703-1704 | 7.4 | 5 |
| 12 | 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 |
| 11 | 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 |
| 10 | The effective potential and effective Hamiltonian in quantum statistical mechanics. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 7891-7938 | 1.8 | 70 |
| 9 | Critical behavior of the two-dimensional easy-plane ferromagnet. <i>Journal of Applied Physics</i> , 1994 , 76, 6362-6364 | 2.5 | 6 |

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|---|---|-----|----|
| 8 | Quantum renormalization of the XY model. <i>Journal of Applied Physics</i> , 1994 , 75, 5814-5816 | 2.5 | 14 |
| 7 | Thermodynamics and correlations of the easy-plane ferromagnet CsNiF ₃ . <i>Journal of Applied Physics</i> , 1993 , 73, 6998-7000 | 2.5 | 1 |
| 6 | Quantum thermodynamics of the easy-plane ferromagnetic chain. <i>Physical Review B</i> , 1992 , 46, 11601-11616 | 2.6 | 29 |
| 5 | Quantum thermodynamics in classical phase space. <i>Physical Review A</i> , 1992 , 45, 8418-8429 | 2.6 | 43 |
| 4 | Quantum thermodynamics of easy-plane ferromagnetic chains. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 785-787 | 2.8 | 1 |
| 3 | Quantum thermodynamics of easy-plane ferromagnetic chains. <i>Physical Review B</i> , 1991 , 44, 903-905 | 3.3 | 9 |
| 2 | Thermodynamics of quantum spin chains 1991 , 36-43 | | |
| 1 | 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 |