

# Maria Teresa Mercaldo

## List of Publications by Year in descending order

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55  
papers

534  
citations

687363

13  
h-index

752698

20  
g-index

56  
all docs

56  
docs citations

56  
times ranked

270  
citing authors

#	ARTICLE	IF	CITATIONS
1	Local field theory for disordered itinerant quantum ferromagnets. Physical Review B, 2001, 63, .	3.2	46
2	Quantum critical behavior in disordered itinerant ferromagnets: Logarithmic corrections to scaling. Physical Review B, 2001, 63, .	3.2	37
3	Electrically Tunable Superconductivity Through Surface Orbital Polarization. Physical Review Applied, 2020, 14, .	3.8	25
4	Unveiling mechanisms of electric field effects on superconductors by a magnetic field response. Physical Review Research, 2020, 2, .	3.6	25
5	Disorder-induced rounding of the phase transition in the large-q-state Potts model. Physical Review E, 2004, 69, 056112.	2.1	23
6	Synthetic Weyl Points and Chiral Anomaly in Majorana Devices with Nonstandard Andreev-Bound-State Spectra. Physical Review Letters, 2019, 123, 126802.	7.8	22
7	Magnetic-field-induced topological reorganization of a $p$ -wave superconductor. Physical Review B, 2016, 94, .	3.2	21
8	Critical and tricritical singularities of the three-dimensional random-bond Potts model for large $q$ . Physical Review E, 2006, 73, 026126.	2.1	20
9	Field-induced quantum critical point in planar Heisenberg ferromagnets with long-range interactions: Two-time Green's function framework. Physical Review B, 2010, 82, .	3.2	19
10	Unified static renormalization-group treatment of finite-temperature crossovers close to a quantum critical point. Physical Review B, 2007, 75, .	3.2	18
11	Disorder-driven phase transitions of the large $q$ -state Potts model in three dimensions. Europhysics Letters, 2005, 70, 733-739.	2.0	17
12	A minimal tight-binding model for the quasi-one-dimensional superconductor $K_2Cr_3As_3$ . New Journal of Physics, 2019, 21, 063027.	2.9	17
13	Low-temperature critical properties and crossovers of a spin-1/2 planar ferromagnet in 4 dimensions. Physical Review B, 2008, 77, .	3.2	14
14	Gate Control of the Current-Flux Relation of a Josephson Quantum Interferometer Based on Proximitized Metallic Nanojunctions. ACS Applied Electronic Materials, 2021, 3, 3927-3935.	4.3	14
15	Field-induced quantum criticality of systems with ferromagnetically coupled structural spin units. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 174-177.	2.1	13
16	Nodal Andreev spectra in multi-Majorana three-terminal Josephson junctions. Physical Review B, 2020, 101, .	3.2	12
17	Magnetoelectrically tunable Andreev bound state spectra and spin polarization in $p$ -wave Josephson junctions. Physical Review B, 2019, 100, .	3.2	11
18	Unveiling unconventional magnetism at the surface of Sr <sub>2</sub> RuO <sub>4</sub> . Nature Communications, 2021, 12, 5792.	12.8	11

#	ARTICLE	IF	CITATIONS
19	Magnetic manipulation of topological states in p-wave superconductors. <i>Physica B: Condensed Matter</i> , 2018, 536, 730-733.	2.7	10
20	Colossal Orbital Edelstein Effect in Noncentrosymmetric Superconductors. <i>Physical Review Letters</i> , 2022, 128, .	7.8	10
21	Two-time Green's function treatment of field-induced quantum criticality of a d-dimensional easy-plane ferromagnet with longitudinal uniform interactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 1446-1462.	2.6	9
22	Magnetic-field-induced quantum criticality in a spin-S planar ferromagnet with single-ion anisotropy. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	9
23	Optimizing the tight-binding parametrization of the quasi-one-dimensional superconductor K <sub>2</sub> Cr <sub>3</sub> As <sub>3</sub> . <i>AIP Advances</i> , 2018, 8, 101312.	1.3	9
24	Spectroscopic signatures of gate-controlled superconducting phases. <i>Physical Review Research</i> , 2021, 3, .	3.6	9
25	Replicon modes and fixed-point marginal stability for systems with extended impurities. <i>Physical Review B</i> , 1999, 60, 2976-2978.	3.2	8
26	Spin-glass effects on critical behavior in systems with extended quenched disorder. <i>Physical Review B</i> , 1999, 59, 855-860.	3.2	8
27	Quantum criticality of a planar Heisenberg ferromagnet in a transverse magnetic field. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 351, 294-314.	2.6	8
28	Quantum criticality of a spin-1 XY model with easy-plane single-ion anisotropy via a two-time Green function approach avoiding the Anderson-Callen decoupling. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 403, 68-76.	2.3	8
29	Scaling functions for classical to quantum crossover in the transverse Ising model via an effective Wilsonian renormalization group approach in 4 $\hat{=}$ $\hat{\mu}$ dimensions. <i>European Physical Journal B</i> , 2010, 73, 327-339.	1.5	7
30	Reentrant phenomena in a three-dimensional spin-1 planar ferromagnet with easy-axis single-ion anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 364, 85-94.	2.3	7
31	Topological signatures of the coexistence of antiferromagnetism and odd-parity spin-triplet superconductivity. <i>AIP Advances</i> , 2018, 8, .	1.3	7
32	Exotic quantum phase transition in systems with quenched disorder. <i>Physical Review B</i> , 2001, 65, .	3.2	6
33	Quantum critical scenario in a three-dimensional XY model with an easy-plane single-ion anisotropy via a renormalization group analysis. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 382, 237-246.	2.3	6
34	Frustration-driven Josephson phase dynamics. <i>Physical Review B</i> , 2022, 105, .	3.2	6
35	Reentrant behaviors in the phase diagram of spin-1 planar ferromagnets with easy-axis single-ion anisotropy via the Devlin two-time Green function framework. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 439, 333-342.	2.3	5
36	Effect of biquadratic exchange on the phase diagram of a spin-1 transverse XY model with single-ion anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 472, 40-48.	2.3	5

#	ARTICLE	IF	CITATIONS
37	Quantum tricriticality in transverse Ising-like systems. European Physical Journal B, 2011, 84, 371-379.	1.5	4
38	Quantum critical properties of a spin- Heisenberg ferromagnet with easy-plane anisotropy in a transverse field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 318, 156-160.	2.1	3
39	Quantum-like criticality for a classical transverse Ising model in $4\epsilon^{\mu}$ dimensions. European Physical Journal B, 2010, 77, 419-427.	1.5	3
40	Quantum criticality of $\langle \text{mml:math altimg="si17.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.else. Physica A: Reentrant behaviors in the phase diagram of spin-1 planar ferromagnet with single-ion anisotropy. Physica B: Condensed Matter, 2018, 536, 422-426.$	2.6	3
41	Reentrant behaviors in the phase diagram of spin-1 planar ferromagnet with single-ion anisotropy. Physica B: Condensed Matter, 2018, 536, 422-426.	2.7	3
42	Orbital vortices in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -wave spin-singlet superconductors in zero magnetic field. Physical Review B, 2022, 105, .	3.2	3
43	Devlin-like approach to a spin-1 transverse XY model with biquadratic exchange and single-ion anisotropy. European Physical Journal B, 2019, 92, 1.	1.5	2
44	Critical phenomena in systems with anisotropic quenched disorder. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 264, 214-217.	2.1	1
45	TRANSPORT ANOMALIES AND MARGINAL FERMI-LIQUID EFFECTS AT A QUANTUM CRITICAL POINT. International Journal of Modern Physics B, 2003, 17, 5041-5045.	2.0	1
46	Quantum critical scenario from an effective classical renormalization group treatment close to and below four dimensions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 344, 395-400.	2.1	1
47	A non-conventional approach to study the quenched impurity effects on quantum criticality. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 178-182.	2.1	1
48	Disorder-induced quantum-Griffiths-like features from a non-conventional renormalization group analysis near four dimensions. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4523-4534.	2.6	1
49	Magnetic-field-induced quantum criticality in a planar ferromagnet with single-ion anisotropy. Journal of Physics: Conference Series, 2014, 529, 012019.	0.4	1
50	Odd-frequency pairing in a nonunitary $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -wave superconductor with multiple Majorana fermions. Physical Review B, 2022, 105, .	3.2	1
51	Weak Localization Effects at the Quantum Ferromagnetic Transition. Journal of the Physical Society of Japan, 2003, 72, 171-172.	1.6	0
52	Field-induced quantum criticality of a spin-1/2 planar ferromagnet. Journal of Physics: Conference Series, 2009, 150, 042123.	0.4	0
53	Self-consistent approach to quenched impurity effects on quantum phase transitions. Journal of Physics: Conference Series, 2009, 150, 042022.	0.4	0
54	The dawn of quantum mechanics. , 0, , .		0

#	ARTICLE	IF	CITATIONS
55	Dome-shaped phase diagram in the spin-1 XY ferromagnet with biquadratic exchange and longitudinal easy-axis crystal field. European Physical Journal B, 2022, 95, 1.	1.5	0