

Marcello Silva Neto

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Skyrmions in a Doped Antiferromagnet. <i>Physical Review Letters</i> , 2011, 106, 227206.	2.9	48
2	Pressure-induced Anderson-Mott transition in elemental tellurium. <i>Communications Materials</i> , 2021, 2, .	2.9	37
3	Quantum skyrmions and the destruction of long-range antiferromagnetic order in the high-Tc superconductors $\text{La}^{2-x}\text{Sr}_x\text{CuO}_4$ and $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$. <i>Physical Review B</i> , 2001, 64, .	1.1	28
4	Lightly Doped $\text{La}^{2-x}\text{Sr}_x\text{CuO}_4$ as a Lifshitz Helimagnet. <i>Physical Review Letters</i> , 2006, 96, 077004.	2.9	20
5	Magnetic susceptibility anisotropies in a two-dimensional quantum Heisenberg antiferromagnet with Dzyaloshinskii-Moriya interactions. <i>Physical Review B</i> , 2006, 73, .	1.1	20
6	Field dependence of the magnetic spectrum in anisotropic and Dzyaloshinskii-Moriya antiferromagnets. I. Theory. <i>Physical Review B</i> , 2006, 74, .	1.1	19
7	One-magnon Raman scattering in La_2CuO_4 : The origin of the field-induced mode. <i>Physical Review B</i> , 2005, 72, .	1.1	17
8	Thermodynamics of the (2+1)-dimensional Gross-Neveu model with complex chemical potential. <i>Physical Review D</i> , 2000, 62, .	1.6	14
9	Field dependence of the magnetic spectrum in anisotropic and Dzyaloshinskii-Moriya antiferromagnets. II. Raman spectroscopy. <i>Physical Review B</i> , 2006, 74, .	1.1	12
10	Competing impurities and reentrant magnetism in $\text{La}^{2-x}\text{Sr}_x\text{Cu}_1\hat{z}\text{Zn}_x\text{O}_4$: Role of Dzyaloshinskii-Moriya and XY anisotropies. <i>Physical Review B</i> , 2007, 75, .	1.1	12
11	Interplay between Disorder and Quantum and Thermal Fluctuations in Ferromagnetic Alloys: The case of $\text{UCu}_2\text{Si}_2\hat{x}\text{Ge}_x$. <i>Physical Review Letters</i> , 2003, 91, 257206.	2.9	11
12	Negative hopping magnetoresistance and dimensional crossover in lightly doped cuprate superconductors. <i>Physical Review B</i> , 2007, 76, .	1.1	11
13	Magnetic-texture-driven charge pairing in the spin-fermion Hubbard model and superconductivity in the high-Tc cuprates. <i>Physical Review B</i> , 2002, 66, .	1.1	9
14	Magnetic and Quasiparticle Excitation Spectra of an Itinerant $\text{J}_1\hat{J}_2$ Model for Iron-Pnictide Superconductors. <i>Physical Review Letters</i> , 2011, 106, 117002.	2.9	8
15	Magnetic quantum phase transitions of the two-dimensional antiferromagnetic $\text{J}_1\text{-J}_2$ Heisenberg model. <i>Europhysics Letters</i> , 2015, 112, 47002.	0.7	8
16	$d\hat{e}$ hybridization and quantum criticality in weakly-itinerant ferromagnets. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 025601.	0.7	6
17	Characterizing critical phenomena via the Purcell effect. <i>Physical Review B</i> , 2017, 96, .	1.1	6
18	Magnetoelastic coupling between copper spin configurations and oxygen octahedra in $\text{La}^{2-x}\text{Sr}_x\text{CuO}_4$: Untwining, Raman (phonon) spectrum, and neutron response. <i>Physical Review B</i> , 2006, 74, .	1.1	5

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19	Unconventional superconductivity as a quantum Kuramoto synchronization problem in random elasto-nuclear oscillator networks. <i>Journal of Physics Communications</i> , 2021, 5, 015003.	0.5	5
20	Kuramoto synchronization of quantum tunneling polarons for describing the dynamic structure in cuprate superconductors. <i>Physical Review B</i> , 2022, 105, .	1.1	5
21	Effective sublattice magnetization and Néel temperature in quantum antiferromagnets. <i>Physical Review B</i> , 2000, 62, 142-145.	1.1	4
22	Metallic continuum quantum ferromagnets at finite temperature. <i>Europhysics Letters</i> , 2003, 62, 890-896.	0.7	4
23	Impurity susceptibility and the fate of spin-flop transitions in lightly doped La ₂ CuO ₄ . <i>Physical Review B</i> , 2007, 75, .	1.1	3
24	Charge stripe order from antiphase spin spirals in the spin-fermion model. <i>Physical Review B</i> , 2007, 76, .	1.1	3
25	Evolution of Charge-Lattice Dynamics across the Kuramoto Synchronization Phase Diagram of Quantum Tunneling Polarons in Cuprate Superconductors. <i>Condensed Matter</i> , 2021, 6, 52.	0.8	3
26	Incommensurate spin-density-wave and metal-insulator transition in the one-dimensional periodic Anderson model. <i>Physical Review B</i> , 2011, 84, .	1.1	2
27	Anisotropy of acceptor states in lightly doped cuprate superconductors. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 365601.	0.7	2
28	Sublattice magnetization and Néel transition in the 2D quantum Heisenberg antiferromagnet. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 201-202.	0.6	1
29	Manifestation of hopping conductivity and granularity within phase diagrams of LaO _F BiS ₂ , Sr _{La} FBiS ₂ and related BiS ₂ -based compounds. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 355702.	0.7	1
30	Correlation of T_c and coefficient of T^2 resistivity term of Fe-based pnictide & chalcogenide superconductors. <i>Journal of Physics: Conference Series</i> , 2018, 969, 012050.	0.3	1
31	Nonradiative decay and absorption rates of quantum emitters embedded in metallic systems: Microscopic description and their determination from electronic transport. <i>Physical Review B</i> , 2018, 98, .	1.1	1
32	Pairing of charge and topological excitations in high temperature superconductors. <i>Physica B: Condensed Matter</i> , 2002, 312-313, 28-30.	1.3	0
33	Topological excitations and the phase diagram of the superconducting cuprates. <i>Physica B: Condensed Matter</i> , 2002, 312-313, 22-24.	1.3	0
34	Magnetic texture driven charge pairing in high-T _c superconducting cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 234-235.	0.6	0
35	Anisotropies in the optical ac and dc conductivities in lightly doped La _{2-x} Sr _x CuO ₄ : the role of deep and shallow acceptor states. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 215602.	0.7	0
36	Magnetic spectrum of the J ₁ -J ₂ model for pnictides. <i>Journal of Physics: Conference Series</i> , 2012, 391, 012139.	0.3	0

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37	Controlling spontaneous emission via electronic correlations and temperature in transparent oxides. <i>Physical Review B</i> , 2019, 100, .	1.1	0
38	Spontaneous emission in inertial and dissipative nematic liquid crystals: the role of critical phenomena. <i>Journal of Physics Condensed Matter</i> , 2021, 34, .	0.7	0