Leonardo S Lima

List of Publications by Year
in descending order

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70	610	687220 13	752573 20
papers	citations	h-index	g-index

70	70	70	100
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of magnon bands on quantum entanglement in two-dimensional ferromagnets in the checkerboard lattice. European Physical Journal Plus, 2022, 137, .	1.2	2
2	Fractional Stochastic Differential Equation Approach for Spreading of Diseases. Entropy, 2022, 24, 719.	1.1	6
3	Effect of spinâ€“phonon coupling on quantum correlation in the spin-1 XY model. Solid State Communications, 2021, 332, 114323.	0.9	2
4	Self-organizing three-dimensional Ising model of financial markets. Physical Review E, 2021, 103, 062130.	0.8	0
5	Quantum correlation in the bilinearâ€“biquadratic model for iron-based superconductors. European Physical Journal Plus, 2021, 136, 1.	1.2	3
6	Entanglement in (4Âï¼‹Â1)-D-Dirac-type lattice model time-reversal-invariant. Physica A: Statistical Mechanics and Its Applications, 2021, 578, 126111.	1.2	0
7	Quantum Phase Transition and Quantum Correlation in the Two-dimensional Honeycomb-bilayer Lattice Antiferromagnet. Journal of Low Temperature Physics, 2021, 205, 112-125.	0.6	8
8	Dynamics of stocks prices based in the Black & Scholes equation and nonlinear stochastic differentials equations. Physica A: Statistical Mechanics and Its Applications, 2021, 581, 126220.	1.2	2
9	Transport in (4+1)-D-dimensional topological insulators models. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126514.	0.9	1
10	Influence of Topological Phase Transition on Entanglement in the Spin-1 Antiferromagnetic XX Model in Two Dimensions. Journal of Low Temperature Physics, 2020, 201, 515-525.	0.6	8
11	Thermal Entanglement in the Quantum XXZ Model in Triangular and Bilayer Honeycomb Lattices. Journal of Low Temperature Physics, 2020, 198, 241-251.	0.6	10
12	Two-dimensional stochastic dynamics as model for time evolution of the financial market. Chaos, Solitons and Fractals, 2020, 136, 109792.	2.5	7
13	Mapping of Critical Anisotropy on Spin Dynamics in a Frustrated Antiferromagnet. Brazilian Journal of Physics, 2019, 49, 623-627.	0.7	0
14	Effect of Dzyaloshinskiiâ€“Moriya interaction on quantum entanglement in superconductors models of high Tc. European Physical Journal D, 2019, 73, 1.	0.6	21
15	Failure of the Schwinger boson approach in the description of the ground state in the spatially anisotropic Heisenberg model. European Physical Journal B, 2019, 92, 1.	0.6	4
16	Nonlinear Stochastic Equation within an ItÃ´ Prescription for Modelling of Financial Market. Entropy, 2019, 21, 530.	1.1	6
17	Magnon Hall conductivity and thermal transport in frustrated antiferromagnets. Physica C: Superconductivity and Its Applications, 2019, 559, 50-54.	0.6	6
18	Influence of Dzyaloshinskii-Moriya interaction and external fields on quantum entanglement in half-integer spin one-dimensional antiferromagnets. European Physical Journal D, 2019, 73, 1.	0.6	13

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19	Interplay between the Dzyaloshinskii-Moriya term and external fields on spin transport in the spin-1/2 one-dimensional antiferromagnet. Journal of Magnetism and Magnetic Materials, 2018, 454, 150-154.	1.0	6
20	Superconductivity in the graphene monolayer calculated using the Kubo formulalism. Physica C: Superconductivity and Its Applications, 2018, 546, 71-75.	0.6	5
21	Spin wave mediated interaction as a mechanism of pairs formation in iron-based superconductors. Physica C: Superconductivity and Its Applications, 2018, 546, 68-70.	0.6	2
22	Spin supercurrent and effect of quantum phase transition in the two-dimensional XY model. Physica C: Superconductivity and Its Applications, 2018, 547, 22-26.	0.6	3
23	Entanglement in site diluted quantum two-dimensional antiferromagnet. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 1853-1858.	1.2	13
24	Influence of Dzyaloshinskiiâ€“Moriya interaction and ballistic spin transport in the two and three-dimensional Heisenberg model. Physica C: Superconductivity and Its Applications, 2018, 549, 147-149.	0.6	6
25	Price dynamics of the financial markets using the stochastic differential equation for a potential double well. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 828-833.	1.2	16
26	Influence of the site dilution on quantum phase transition of the biquadratic Heisenberg model at low dimension. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 956-961.	1.2	0
27	Meissner mechanism for the spin supercurrent and interplay between quantum phase transition and spin transport in the frustrated Heisenberg model. Journal of Magnetism and Magnetic Materials, 2018, 451, 214-217.	1.0	6
28	Order and excitations in site diluted quantum antiferromagnet in the triangular lattice. Results in Physics, 2018, 10, 809-812.	2.0	0
29	Stochastic process with multiplicative structure for the dynamic behavior of the financial market. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 222-229.	1.2	11
30	Transition to disordered phase and spin dynamics in the two-dimensional ferrimagnetic model. Journal of Magnetism and Magnetic Materials, 2018, 468, 269-272.	1.0	3
31	Spin transport in the three-dimensional XY model with single-ion anisotropy. Solid State Communications, 2018, 278, 20-23.	0.9	2
32	Effect of quantum phase transition on spin transport in the spatially frustrated Heisenberg model. Solid State Communications, 2017, 254, 10-14.	0.9	5
33	Modeling of the financial market using the two-dimensional anisotropic Ising model. Physica A: Statistical Mechanics and Its Applications, 2017, 482, 544-551.	1.2	14
34	Entanglement in the quantum one-dimensional integer spin S Heisenberg antiferromagnet. Physica A: Statistical Mechanics and Its Applications, 2017, 483, 239-242.	1.2	15
35	Ladder approximation for the AC conductivity in the generalized two-dimensional Hubbard model. Solid State Communications, 2017, 258, 21-24.	0.9	3
36	Influence of quantum phase transition on spin transport in the quantum antiferromagnet in the honeycomb lattice. Journal of Magnetism and Magnetic Materials, 2017, 432, 169-174.	1.0	6

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37	Similarity between the superconductivity in the graphene with the spin transport in the two-dimensional antiferromagnet in the honeycomb lattice. Physica B: Condensed Matter, 2017, 507, 164-169.	1.3	2
38	Effect of the phase transition to the ferroquadrupolar phase on spin transport in the biquadratic antiferromagnet of the triangular lattice. Journal of Magnetism and Magnetic Materials, 2017, 428, 448-451.	1.0	10
39	Influence of quantum phase transition on spin conductivity in the anisotropic three-dimensional ferromagnetic model. Solid State Communications, 2017, 250, 49-52.	0.9	10
40	A new representation for the nonlinear classical oscillator. European Physical Journal B, 2017, 90, 1.	0.6	4
41	SU(2) Schwinger boson theory of the frustrated two-dimensional antiferromagnet. Physica B: Condensed Matter, 2017, 524, 149-153.	1.3	1
42	Spin transport of the frustrated quasi-two-dimensional XY-like antiferromagnet. Journal of Magnetism and Magnetic Materials, 2017, 422, 412-418.	1.0	7
43	Spin superconductivity in the frustrated two-dimensional antiferromagnet in the square lattice. Journal of Magnetism and Magnetic Materials, 2017, 423, 51-56.	1.0	5
44	Superconductivity in the two-dimensional generalized Hubbard model. Physica C: Superconductivity and Its Applications, 2016, 527, 33-35.	0.6	4
45	Spin superfluidity in the anisotropic XY model in the triangular lattice. Solid State Communications, 2016, 239, 5-8.	0.9	13
46	Spin transport in the frustrated anisotropic two-dimensional ferromagnet in the square lattice. Solid State Communications, 2016, 240, 28-32.	0.9	1
47	Spin transport in the frustrated anisotropic three-dimensional XY model. Solid State Communications, 2016, 248, 115-119.	0.9	6
48	Influence of dilution in the spin transport in the quantum anisotropic two-dimensional Heisenberg antiferromagnet. Journal of Magnetism and Magnetic Materials, 2016, 411, 108-112.	1.0	9
49	Spin conductivity of the two-dimensional anisotropic frustrated Heisenberg model in the honeycomb lattice. Solid State Communications, 2016, 237-238, 19-23.	0.9	12
50	Spin conductivity of the two-dimensional ferroquadrupolar Heisenberg model. Solid State Communications, 2016, 228, 6-9.	0.9	14
51	Effect of the site dilution on spin transport in the two-dimensional biquadratic Heisenberg model. Journal of Magnetism and Magnetic Materials, 2016, 405, 332-336.	1.0	11
52	Controlling the range of interactions in the classical inertial ferromagnetic Heisenberg model: analysis of metastable states. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P04012.	0.9	23
53	Critical behavior of the site diluted quantum anisotropic Heisenberg model in two dimensions. Physica A: Statistical Mechanics and Its Applications, 2015, 438, 579-585.	1.2	10
54	Spin transport in the two-dimensional quantum disordered anisotropic Heisenberg model. Journal of Magnetism and Magnetic Materials, 2014, 371, 89-93.	1.0	25

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55	Spin transport of the frustrated integer spin S antiferromagnetic Heisenberg chain. Physica B: Condensed Matter, 2014, 437, 28-31.	1.3	6
56	Kosterlitz-Thouless Transition: The Diluted XY model. Journal of Physics: Conference Series, 2014, 487, 012008.	0.3	2
57	Spin transport of the quantum integer spin S one-dimensional Heisenberg antiferromagnet coupled to phonons. European Physical Journal B, 2013, 86, 1.	0.6	16
58	Lowâ€temperature spin transport in the Sâ€‰=â€‰1 oneâ€•and twoâ€dimensional antiferromagnets with Dzyaloshinskiiâ€“Moriya interaction. Physica Status Solidi (B): Basic Research, 2012, 249, 1613-1623.	0.7	31
59	Dynamics of the two-dimensional Heisenberg antiferromagnet in an external magnetic field. European Physical Journal B, 2011, 83, 191-195.	0.6	0
60	Thermal transport in the one-dimensional spin-1/2 anisotropic antiferromagnet in a staggered magnetic field. Journal of Magnetism and Magnetic Materials, 2011, 323, 1064-1067.	1.0	3
61	Spin transport in the anisotropic easy-plane two-dimensional Heisenberg antiferromagnet. Journal of Magnetism and Magnetic Materials, 2010, 322, 668-670.	1.0	16
62	Heat transport in low-dimensional Heisenberg antiferromagnets. Journal of Magnetism and Magnetic Materials, 2010, 322, 2157-2159.	1.0	3
63	Low-temperature spin transport in aS= 1 one-dimensional antiferromagnet. Journal of Physics Condensed Matter, 2009, 21, 245502.	0.7	17
64	Spin transport in the two-dimensional anisotropic XY model coupled to phonons. Solid State Communications, 2009, 149, 269-272.	0.9	10
65	Dynamics of the anisotropic two-dimensional XY model. European Physical Journal B, 2009, 70, 335-342.	0.6	24
66	Spin transport in antiferromagnets in one and two dimensions calculated using the Kubo formula. Physical Review B, 2009, 79, .	1.1	56
67	Spin dynamics in the one-dimensional antiferromagnet with Dzyaloshinskiiâ€“Moriya interaction. Journal of Magnetism and Magnetic Materials, 2008, 320, 2316-2318.	1.0	10
68	Three-magnon process in the one-dimensional integer spin antiferromagnetic Heisenberg chain. Solid State Communications, 2008, 148, 541-544.	0.9	8
69	The phase diagram and critical properties of the two-dimensional anisotropicXYmodel. Journal of Physics Condensed Matter, 2008, 20, 015208.	0.7	24
70	Dynamics of the quantum integer spinSone-dimensional Heisenberg antiferromagnet coupled to phonons. Journal of Physics Condensed Matter, 2007, 19, 436218.	0.7	2