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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.

93 papers	911 citations	19 h-index	26 g-index
96 ext. papers	971 ext. citations	2.1 avg, IF	4.07 L-index

#	Paper	IF	Citations
93	Magnetic monopole and string excitations in two-dimensional spin ice. <i>Journal of Applied Physics</i> , 2009 , 106, 063913	2.5	85
92	Vortex behavior near a spin vacancy in two-dimensional XY magnets. <i>Physical Review B</i> , 2003 , 68,	3.3	39
91	Monte Carlo study of the critical temperature for the planar rotator model with nonmagnetic impurities. <i>Physical Review B</i> , 2003 , 67,	3.3	34
90	Static and dynamic simulation in the classical two-dimensional anisotropic Heisenberg model. <i>Physical Review B</i> , 1996 , 54, 994-1000	3.3	32
89	Phase diagrams of a two-dimensional Heisenberg antiferromagnet with single-ion anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 262, 316-324	2.8	29
88	Solitons in one-dimensional antiferromagnetic chains. <i>Physical Review B</i> , 1989 , 39, 7149-7156	3.3	28
87	Quantum phase transitions in the anisotropic three dimensional XY model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009 , 388, 3779-3784	3.3	27
86	On the Phase Shift and Bound States in a One-Dimensional Antiferromagnetic Chain. <i>Physica Status Solidi (B): Basic Research</i> , 1989 , 155, 663-667	1.3	25
85	Diagram for vortex formation in quasi-two-dimensional magnetic dots. <i>Journal of Applied Physics</i> , 2010 , 107, 053903	2.5	24
84	Monte Carlo and spin dynamics study of the anisotropic Heisenberg model in two dimensions. <i>Journal of Applied Physics</i> , 1997 , 81, 5746-5748	2.5	24
83	Spin transport in the two-dimensional quantum disordered anisotropic Heisenberg model. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 371, 89-93	2.8	23
82	Vortex motion induced by lattice defects in two-dimensional easy-plane magnets. <i>Physical Review B</i> , 2005 , 71,	3.3	23
81	Phase transition in ultrathin magnetic films with long-range interactions: Monte Carlo simulation of the anisotropic Heisenberg model. <i>Physical Review B</i> , 2007 , 75,	3.3	22
80	Vortex-magnon interaction in the 2d XY ferromagnetic model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992 , 165, 179-183	2.3	22
79	A pseudo-spin model for poly(vinylidene fluoride-trifluoroethylene) copolymers. <i>Polymer</i> , 1993 , 34, 3107-3108	3.1	22
78	Dynamical correlation from topological solitons in two-dimensional anisotropic models. <i>European Physical Journal B</i> , 1992 , 89, 109-114	1.2	21
77	Dynamics of the vortex core in magnetic nanodisks with a ring of magnetic impurities. <i>Applied Physics Letters</i> , 2012 , 101, 252402	3.4	20

76	Magnetic vortex formation and gyrotropic mode in nanodisks. <i>Journal of Applied Physics</i> , 2011 , 109, 014301	3.5	20
75	The fast simulated annealing algorithm applied to the search problem in LEED. <i>Surface Science</i> , 2001 , 487, 15-27	1.8	20
74	Vortices in Low-Dimensional Magnetic Systems. <i>Brazilian Journal of Physics</i> , 2011 , 41, 94-101	1.2	18
73	A model for vortex formation in magnetic nanodots. <i>Journal of Applied Physics</i> , 2007 , 102, 104311	2.5	17
72	Molecular dynamics study of the copper cluster deposition on a Cu(010) surface. <i>Surface Science</i> , 2001 , 481, 54-66	1.8	17
71	Monte Carlo calculation of the transition temperature of the anisotropic three-dimensional XY model. <i>Physical Review B</i> , 1996 , 54, 3019-3021	3.3	17
70	Dynamic behavior of vortices in the classical two-dimensional anisotropic Heisenberg model. <i>Physical Review B</i> , 1998 , 57, 11510-11516	3.3	16
69	The influence of magnetic impurities in the vortex core dynamics in magnetic nano-disks. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 3083-3086	2.8	14
68	Vortex core scattering and pinning by impurities in nanomagnets. <i>Journal of Applied Physics</i> , 2011 , 109, 076104	2.5	14
67	Monte Carlo study of the critical behavior of the two-dimensional biquadratic planar rotator model. <i>Physical Review B</i> , 2001 , 64,	3.3	14
66	Molecular-dynamics study of the diffusion coefficient on a crystal surface. <i>Physical Review B</i> , 2000 , 61, 12697-12700	3.3	14
65	Energy probability distribution zeros: A route to study phase transitions. <i>Computer Physics Communications</i> , 2017 , 216, 77-83	4.2	13
64	Anisotropic Heisenberg model with dipolar interactions: Monte Carlo simulations of the planar-to-paramagnetic phase transition in a bilayer system. <i>Physical Review B</i> , 2009 , 79,	3.3	13
63	Soliton behavior in an antiferromagnetic chain. <i>Physical Review B</i> , 1993 , 47, 5059-5062	3.3	13
62	Using zeros of the canonical partition function map to detect signatures of a Berezinskii-Kosterlitz-Thouless transition. <i>Computer Physics Communications</i> , 2016 , 209, 88-91	4.2	11
61	The Fully Frustrated XY Model Revisited: A New Universality Class. <i>Journal of Statistical Physics</i> , 2019 , 175, 960-971	1.5	10
60	Berezinskii-Kosterlitz-Thouless transition close to the percolation threshold. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 1239-1241	2.3	10
59	Velocity, temperature, and normal force dependence on friction: An analytical and molecular dynamics study. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 98-103	1.3	10

58	Using random number generators in Monte Carlo simulations. <i>Physical Review E</i> , 1998 , 58, 5183-5184	2.4	10
57	Critical behavior of the site diluted quantum anisotropic Heisenberg model in two dimensions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015 , 438, 579-585	3.3	9
56	Magnetization reversal of the transverse domain wall confined between two clusters of magnetic impurities in a ferromagnetic planar nanowire. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 419, 37-42	2.8	9
55	Phase diagram of the 3D quantum anisotropic XY model: A quantum Monte Carlo calculation. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 332, 103-108	2.8	8
54	Temperature dependent molecular dynamic simulation of friction. <i>Brazilian Journal of Physics</i> , 2006 , 36, 741-745	1.2	8
53	Molecular-dynamics simulation of directional growth of binary mixtures. <i>Physical Review B</i> , 1999 , 59, 3408-3413	3.3	8
52	Comparative study between a two-dimensional anisotropic Heisenberg antiferromagnet with easy-axis single-ion anisotropy and one with easy-axis exchange anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 305, 157-164	2.8	7
51	Position of the transverse domain wall controlled by magnetic impurities in rectangular magnetic nanowires. <i>Journal of Applied Physics</i> , 2014 , 115, 163906	2.5	6
50	Effects of solitons in the critical behavior of an anisotropic Heisenberg model in two dimensions. <i>Physical Review B</i> , 1994 , 50, 3828-3829	3.3	6
49	A numerical investigation of the non-linear equation of motion of the one dimensional anti-ferromagnet. <i>Solid State Communications</i> , 1985 , 56, 759-762	1.6	6
48	A New Algorithm to Study the Critical Behavior of Topological Phase Transitions. <i>Brazilian Journal of Physics</i> , 2019 , 49, 271-276	1.2	5
47	The phase transition in the anisotropic Heisenberg model with long range dipolar interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 353, 11-14	2.8	5
46	Dynamical behavior of vortices in thin film magnetic systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 1999-2005	2.8	5
45	Topological phase transition in the two-dimensional anisotropic Heisenberg model: A study using the Replica Exchange Wang-Landau sampling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 488, 121-131	3.3	5
44	Temperature dependent structure of low index copper surfaces studied by molecular dynamics simulation. <i>Brazilian Journal of Physics</i> , 2004 , 34, 414-418	1.2	5
43	Monte Carlo and spin dynamics simulation of the fully frustrated anisotropic two-dimensional Heisenberg model. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 263, 324-331	2.8	5
42	PvP150. Diffuse phase transition in ferroelectric polymers. <i>Ferroelectrics</i> , 1992 , 134, 247-252	0.6	5
41	Monte Carlo simulations of ultrathin magnetic dots. <i>Brazilian Journal of Physics</i> , 2006 , 36, 672-675	1.2	5

40	Molecular Dynamics Simulation of Zone Melting. <i>International Journal of Modern Physics C</i> , 1998 , 09, 857-860	4
39	Magnetic behavior of a nano-disk constrained in an antiferromagnetic substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2342-2348	2.8 3
38	Critical behavior of the fully frustrated two dimensional XY model. <i>Brazilian Journal of Physics</i> , 2004 , 34, 403	1.2 3
37	The zeros of the Energy Probability Distribution - A new way to study phase transitions -. <i>Journal of Physics: Conference Series</i> , 2017 , 921, 012004	0.3 2
36	Kosterlitz-Thouless Transition: The Diluted XY model. <i>Journal of Physics: Conference Series</i> , 2014 , 487, 012008	0.3 2
35	Phase diagram of the antiferromagnetic XY model in two dimensions in a magnetic field. <i>Physical Review B</i> , 2008 , 78,	3.3 2
34	The phase transition in the fully frustrated XY model as a percolation problem. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 300, 427-435	2.8 2
33	Dynamics of two sliding magnetic surfaces. <i>Brazilian Journal of Physics</i> , 2006 , 36, 1074-1077	1.2 2
32	Properties of Kinks in a Driven Damped Anisotropic Magnetic Chain. <i>Physica Status Solidi (B): Basic Research</i> , 1987 , 142, 117-123	1.3 2
31	MAGNETIC VORTEX BEHAVIOR IN NANO-STRUCTURES. <i>International Journal of Modern Physics C</i> , 2012 , 23, 1240003	1.1 1
30	Molecular dynamics simulation of Lorentz force microscopy in magnetic nano-disks. <i>Applied Physics Letters</i> , 2013 , 102, 172405	3.4 1
29	Phase transition in the two-dimensional dipolar planar rotator model. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 046005	1.8 1
28	MOLECULAR DYNAMICS SIMULATION OF A TWO-DIMENSIONAL HEISENBERG FLUID. <i>International Journal of Modern Physics C</i> , 2012 , 23, 1250026	1.1 1
27	Soliton-magnon interaction in the sine-Gordon-like magnetic chain. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 4839-4847	1.8 1
26	Solitons in an easy-plane classical antiferromagnetic chain with the magnetic field in an arbitrary direction. <i>Journal of Physics C: Solid State Physics</i> , 1987 , 20, 1315-1324	1
25	Monte Carlo Simulation of the Site Diluted Ising Model on the Rectangular Lattice. <i>Physica Status Solidi (B): Basic Research</i> , 1988 , 147, K79-K82	1.3 1
24	A new type of kink in the classical easy plane antiferromagnet. <i>Solid State Communications</i> , 1988 , 66, 1067-1069	1.6 1
23	Statistical mechanics of a quasiperiodic one-dimensional magnetic chain. <i>European Physical Journal B</i> , 1988 , 71, 491-493	1.2 1

22	Pushing the Limits of EPD Zeros Method. <i>Brazilian Journal of Physics</i> , 2022 , 52, 1	1.2	1
21	On the use of the energy probability distribution zeros in the study of phase transitions. <i>Journal of Physics: Conference Series</i> , 2018 , 1012, 012005	0.3	1
20	Effects of monomer size on polymer mass transport at a crystalline interface. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017 , 2017, 123301	1.9	0
19	Moment-generating function zeros in the study of phase transitions.. <i>Physical Review E</i> , 2021 , 104, 064103	1.4	0
18	Magnetic vortices in kekulene-like molecules. <i>Solid State Communications</i> , 2021 , 328, 114224	1.6	0
17	Real-space, mean-field algorithm to numerically calculate long-range interactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 444, 327-335	3.3	
16	Magnetic vortex behavior and its dynamics in nanomagnets in the presence of impurities. <i>Physics Procedia</i> , 2012 , 28, 99-104		
15	Phase diagram of the three-dimensional anisotropic Heisenberg anti-ferromagnetic model. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2379-2383	1.3	
14	Magnetic friction due to vortex fluctuation. <i>Journal of Applied Physics</i> , 2007 , 101, 063915	2.5	
13	Monte Carlo study of the Ni(C ₅ H ₅ N)2Ni(CN) ₄ -2d compound. <i>Solid State Communications</i> , 2002 , 123, 201-204	2.0	
12	Some Static Solutions of the Two-Dimensional Heisenberg Model with Competitive Interactions. <i>Physica Status Solidi (B): Basic Research</i> , 1995 , 187, K21-K25	1.3	
11	Topological Profiles Developed in Cooperative Systems. <i>Physica Status Solidi (B): Basic Research</i> , 1995 , 189, K75-K78	1.3	
10	Semiclassical Approach to the Antiferromagnetic Chain: Quantum Fluctuations and Out-of-Plane Corrections to Soliton Energies. <i>Physica Status Solidi (B): Basic Research</i> , 1991 , 164, K57-K61	1.3	
9	Dynamics of a Quasi-One-Dimensional Ferromagnet. <i>Physica Status Solidi (B): Basic Research</i> , 1992 , 171, K49-K53	1.3	
8	Monte carlo calculation in one-dimensional classical ferromagnetic and antiferromagnetic chains. <i>Solid State Communications</i> , 1992 , 83, 949-951	1.6	
7	A Self-consistent Theory to Treat Anharmonic Terms in the One-Dimensional Antiferromagnet. <i>Physica Status Solidi (B): Basic Research</i> , 1993 , 179, K103-K106	1.3	
6	Phenomenological Calculation of the Soliton Density in the One-Dimensional Antiferromagnet in an External Field. <i>Physica Status Solidi (B): Basic Research</i> , 1990 , 160, K165-K168	1.3	
5	Vortex Fluctuation and Magnetic Friction. <i>Springer Proceedings in Physics</i> , 2009 , 97-100	0.2	

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| 4 | Determination of the Phase Diagram for the 3d Spin Glass $\pm J$ Model Using the Zeros of the Energy Probability Distribution. <i>Journal of Physics: Conference Series</i> , 2020 , 1483, 012010 | 0.3 |
| 3 | Nanowire Growth Simulation. <i>Journal of Physics: Conference Series</i> , 2020 , 1483, 012003 | 0.3 |
| 2 | Correlation function behavior in the topological Kosterlitz-Thouless transition using the Replica-Exchange Wang-Landau technique. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1950361 | 1.1 |
| 1 | 20 years of the Brazilian Meeting on Simulational Physics. <i>Journal of Physics: Conference Series</i> , 2018 , 1012, 012001 | 0.3 |