Lucas A S Ml

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40 619 14 g-index

41 668 2.5 3.78 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
40	Magnetic monopole and string excitations in two-dimensional spin ice. <i>Journal of Applied Physics</i> , 2009 , 106, 063913	2.5	85
39	Conditions for free magnetic monopoles in nanoscale square arrays of dipolar spin ice. <i>Physical Review B</i> , 2010 , 82,	3.3	67
38	Thermodynamics of elementary excitations in artificial magnetic square ice. <i>New Journal of Physics</i> , 2012 , 14, 015008	2.9	46
37	Vortex behavior near a spin vacancy in two-dimensional XY magnets. <i>Physical Review B</i> , 2003 , 68,	3.3	39
36	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
35	Extending spin ice concepts to another geometry: The artificial triangular spin ice. <i>Physical Review B</i> , 2012 , 85,	3.3	33
34	From confinement to deconfinement of magnetic monopoles in artificial rectangular spin ices. <i>New Journal of Physics</i> , 2012 , 14, 115019	2.9	32
33	Nambu monopoles interacting with lattice defects in a two-dimensional artificial square spin ice. <i>Physical Review B</i> , 2013 , 87,	3.3	30
32	Oscillating solitons pinned to a nonmagnetic impurity in layered antiferromagnets. <i>Physical Review B</i> , 2003 , 67,	3.3	21
31	Diluted planar ferromagnets: nonlinear excitations on a non-simply connected manifold. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 329, 155-161	2.3	20
30	Dynamics and hysteresis in square lattice artificial spin ice. New Journal of Physics, 2013, 15, 045029	2.9	19
29	Monte Carlo study of 2D generalized XY-models. European Physical Journal B, 2006, 50, 541-548	1.2	19
28	Geometrical pinning of magnetic vortices induced by a deficit angle on a surface: Anisotropic spins on a conic space background. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 360, 472-480	2.3	16
27	Emergence and mobility of monopoles in a unidirectional arrangement of magnetic nanoislands. <i>Nanotechnology</i> , 2015 , 26, 295303	3.4	14
26	Energy probability distribution zeros: A route to study phase transitions. <i>Computer Physics Communications</i> , 2017 , 216, 77-83	4.2	13
25	Magnetic vortex crystal formation in the antidot complement of square artificial spin ice. <i>Applied Physics Letters</i> , 2014 , 104, 092402	3.4	13
24	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

(2016-2002)

23	Planar vortex in two-dimensional XY ferromagnets with a nonmagnetic impurity potential. <i>Physical Review B</i> , 2002 , 66,	3.3	13
22	Using zeros of the canonical partition function map to detect signatures of a BerezinskiikosterlitzIIhouless transition. <i>Computer Physics Communications</i> , 2016 , 209, 88-91	4.2	11
21	Magnetic anisotropy of elongated thin ferromagnetic nano-islands for artificial spin ice arrays. Journal of Physics Condensed Matter, 2012 , 24, 296001	1.8	11
20	On phase transition and vortex stability in the generalized XY models. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 319, 114-121	2.3	11
19	The Fully Frustrated XY Model Revisited: A New Universality Class. <i>Journal of Statistical Physics</i> , 2019 , 175, 960-971	1.5	10
18	Efficient demagnetization protocol for the artificial triangular spin ice. <i>Applied Physics Letters</i> , 2013 , 103, 092403	3.4	10
17	Three-dimensional generalized xy models: A Monte Carlo study. Europhysics Letters, 2005 , 72, 62-68	1.6	9
16	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
15	Intermediate phase and pseudo phase transition in an artificial spin ice model. <i>Physical Review B</i> , 2019 , 100,	3.3	5
14	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
13	Comment on L eometry effect on the magnetic ordering of geometrically frustrated rectangular and triangular magnets[Phys. Lett. A 375 (13) (2011) 1548]. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 2680-2681	2.3	3
12	Effects of magnetic monopoles charge on the cracking reversal processes in artificial square ices. <i>Scientific Reports</i> , 2020 , 10, 9959	4.9	2
11	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
10	Towards magnetic monopole interaction measurement in artificial spin ice systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 458, 327-334	2.8	2
9	The impact of fluctuations on the zeros of the energy probability distribution. <i>Journal of Physics:</i> Conference Series, 2020 , 1483, 012007	0.3	1
8	Phase transition in the two-dimensional dipolar planar rotator model. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 046005	1.8	1
7	Pushing the Limits of EPD Zeros Method. Brazilian Journal of Physics, 2022, 52, 1	1.2	1
6	Spin-1 J10203 ferromagnetic Heisenberg model with an easy-plane crystal field on the cubic lattice: A bosonic approach. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 407, 341-347	2.8	1

5	Physics: Conference Series, 2018 , 1012, 012005	0.3	1
4	Moment-generating function zeros in the study of phase transitions <i>Physical Review E</i> , 2021 , 104, 064	1 <u>03</u> 4	O
3	A Simple Monte Carlo Simulation For the Two Dimensional Attractive Hubbard Model. <i>Journal of Physics: Conference Series</i> , 2020 , 1483, 012002	0.3	
2	Erratum to Comment on Ceometry effect on the magnetic ordering of geometrically frustrated rectangular and triangular magnets[Phys. Lett. A 375 (13) (2011) 1548][Phys. Lett. A 375 (27) (2011) 2680\(\textit{D}\)681]. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3469	2.3	
1	Emergent magnetic monopole and dipole screening by free electrons in aluminum/artificial spin ice heterostructures. <i>Applied Physics Letters</i> , 2022 , 120, 062405	3.4	