## Lucas A S Ml

## List of Publications by Year in Descending Order

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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.

40 619 14 g-index

41 668 2.5 avg, IF L-index

#	Paper	IF	Citations
40	Emergent magnetic monopole and dipole screening by free electrons in aluminum/artificial spin ice heterostructures. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 062405	3.4	
39	Pushing the Limits of EPD Zeros Method. Brazilian Journal of Physics, 2022, 52, 1	1.2	1
38	Moment-generating function zeros in the study of phase transitions <i>Physical Review E</i> , <b>2021</b> , 104, 064	1 <b>0</b> 3 <sub>4</sub>	O
37	The impact of fluctuations on the zeros of the energy probability distribution. <i>Journal of Physics:</i> Conference Series, <b>2020</b> , 1483, 012007	0.3	1
36	A Simple Monte Carlo Simulation For the Two Dimensional Attractive Hubbard Model. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1483, 012002	0.3	
35	Effects of magnetic monopoles charge on the cracking reversal processes in artificial square ices. <i>Scientific Reports</i> , <b>2020</b> , 10, 9959	4.9	2
34	A New Algorithm to Study the Critical Behavior of Topological Phase Transitions. <i>Brazilian Journal of Physics</i> , <b>2019</b> , 49, 271-276	1.2	5
33	The Fully Frustrated XY Model Revisited: A New Universality Class. <i>Journal of Statistical Physics</i> , <b>2019</b> , 175, 960-971	1.5	10
32	Intermediate phase and pseudo phase transition in an artificial spin ice model. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	5
31	Towards magnetic monopole interaction measurement in artificial spin ice systems. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 458, 327-334	2.8	2
30	On the use of the energy probability distribution zeros in the study of phase transitions. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1012, 012005	0.3	1
29	Energy probability distribution zeros: A route to study phase transitions. <i>Computer Physics Communications</i> , <b>2017</b> , 216, 77-83	4.2	13
28	The zeros of the Energy Probability Distribution - A new way to study phase transitions <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 921, 012004	0.3	2
27	Using zeros of the canonical partition function map to detect signatures of a BerezinskiikosterlitzIhouless transition. <i>Computer Physics Communications</i> , <b>2016</b> , 209, 88-91	4.2	11
26	Spin-1 J1🛮 2🗓 3 ferromagnetic Heisenberg model with an easy-plane crystal field on the cubic lattice: A bosonic approach. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 407, 341-347	2.8	1
25	Emergence and mobility of monopoles in a unidirectional arrangement of magnetic nanoislands. <i>Nanotechnology</i> , <b>2015</b> , 26, 295303	3.4	14
24	Magnetic vortex crystal formation in the antidot complement of square artificial spin ice. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 092402	3.4	13

## (2004-2014)

23	The phase transition in the anisotropic Heisenberg model with long range dipolar interactions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 353, 11-14	2.8	5
22	Efficient demagnetization protocol for the artificial triangular spin ice. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 092403	3.4	10
21	Nambu monopoles interacting with lattice defects in a two-dimensional artificial square spin ice. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	30
20	Dynamics and hysteresis in square lattice artificial spin ice. <i>New Journal of Physics</i> , <b>2013</b> , 15, 045029	2.9	19
19	From confinement to deconfinement of magnetic monopoles in artificial rectangular spin ices. <i>New Journal of Physics</i> , <b>2012</b> , 14, 115019	2.9	32
18	Magnetic anisotropy of elongated thin ferromagnetic nano-islands for artificial spin ice arrays. Journal of Physics Condensed Matter, <b>2012</b> , 24, 296001	1.8	11
17	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[2681]. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3469	2.3	
16	Extending spin ice concepts to another geometry: The artificial triangular spin ice. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	33
15	Thermodynamics of elementary excitations in artificial magnetic square ice. <i>New Journal of Physics</i> , <b>2012</b> , 14, 015008	2.9	46
14	Comment on <b>G</b> 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> , <b>2011</b> , 375, 2680-2681	2.3	3
13	Conditions for free magnetic monopoles in nanoscale square arrays of dipolar spin ice. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	67
12	Phase transition in the two-dimensional dipolar planar rotator model. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 046005	1.8	1
11	Magnetic monopole and string excitations in two-dimensional spin ice. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 063913	2.5	85
10	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> , <b>2009</b> , 79,	3.3	13
9	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> , <b>2007</b> , 360, 472-480	2.3	16
8	Monte Carlo study of 2D generalized XY-models. <i>European Physical Journal B</i> , <b>2006</b> , 50, 541-548	1.2	19
7	Three-dimensional generalized xy models: A Monte Carlo study. Europhysics Letters, 2005, 72, 62-68	1.6	9
6	Diluted planar ferromagnets: nonlinear excitations on a non-simply connected manifold. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2004</b> , 329, 155-161	2.3	20

5	On phase transition and vortex stability in the generalized XY models. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2003</b> , 319, 114-121	2.3	11	
4	Oscillating solitons pinned to a nonmagnetic impurity in layered antiferromagnets. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	21	
3	Vortex behavior near a spin vacancy in two-dimensional XY magnets. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	39	
2	Monte Carlo study of the critical temperature for the planar rotator model with nonmagnetic impurities. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	34	
1	Planar vortex in two-dimensional XY ferromagnets with a nonmagnetic impurity potential. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	13	