

Gary Wysin

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1639969/gary-wysin-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

1,806
citations

26
h-index

40
g-index

83
ext. papers

1,895
ext. citations

2.9
avg, IF

4.44
L-index

#	Paper	IF	Citations
80	Effects of surface anisotropy on hysteresis in fine magnetic particles. <i>Physical Review B</i> , 1994 , 50, 3077-3084	3.3	109
79	Dynamical correlations from mobile vortices in two-dimensional easy-plane ferromagnets. <i>Physical Review B</i> , 1989 , 39, 591-602	3.3	101
78	Vortices in the classical two-dimensional anisotropic Heisenberg model. <i>Physical Review B</i> , 1989 , 39, 11840-11849	3.3	99
77	Magnon modes and magnon-vortex scattering in two-dimensional easy-plane ferromagnets. <i>Physical Review B</i> , 1998 , 58, 8464-8474	3.3	97
76	Vortex signatures in dynamic structure factors for two-dimensional easy-plane ferromagnets. <i>Physical Review Letters</i> , 1987 , 59, 117-120	7.4	77
75	Instability of in-plane vortices in two-dimensional easy-plane ferromagnets. <i>Physical Review B</i> , 1994 , 49, 8780-8789	3.3	70
74	Optical bistability with surface plasmons. <i>Optics Letters</i> , 1981 , 6, 30-2	3	69
73	Magnetic properties of spherical fcc clusters with radial surface anisotropy. <i>Physical Review B</i> , 1995 , 51, 11947-11950	3.3	68
72	Magnetic properties of superparamagnetic particles by a Monte Carlo method. <i>Physical Review B</i> , 1996 , 54, 9237-9241	3.3	68
71	Magnon modes for a circular two-dimensional easy-plane ferromagnet in the cone state. <i>Physical Review B</i> , 2002 , 65,	3.3	47
70	Normal modes and soliton resonance for vortices in 2D classical antiferromagnets. <i>Physical Review Letters</i> , 1996 , 76, 511-514	7.4	46
69	Motion of vortex pairs in the ferromagnetic and antiferromagnetic anisotropic Heisenberg model. <i>Physical Review B</i> , 1991 , 43, 5992-6005	3.3	43
68	Quantum Monte Carlo and transfer-matrix calculations for one-dimensional easy-plane ferromagnets. <i>Physical Review B</i> , 1986 , 34, 3377-3387	3.3	43
67	Extinction of the Berezinskii-Kosterlitz-Thouless phase transition by nonmagnetic disorder in planar symmetry spin models. <i>Physical Review B</i> , 2005 , 72,	3.3	42
66	Picosecond response of photoexcited GaAs in a uniform electric field by Monte Carlo dynamics. <i>Physical Review B</i> , 1988 , 38, 12514-12524	3.3	42
65	Soliton dynamics on a ferromagnetic chain. <i>Journal of Physics C: Solid State Physics</i> , 1982 , 15, L337-L343		41
64	Soliton dynamics on an easy-plane ferromagnetic chain. <i>Journal of Physics C: Solid State Physics</i> , 1984 , 17, 5975-5991		39

63	Magnetic vortex mass in two-dimensional easy-plane magnets. <i>Physical Review B</i> , 1996 , 54, 15156-15162	3.3	36
62	Amplitudes for magnon scattering by vortices in two-dimensional weakly easy-plane ferromagnets. <i>Physical Review B</i> , 2004 , 69,	3.3	32
61	Normal modes of vortices in easy-plane ferromagnets. <i>Physical Review B</i> , 1995 , 52, 7412-7427	3.3	32
60	Dynamic correlations in a classical two-dimensional Heisenberg antiferromagnet. <i>Physical Review B</i> , 1990 , 42, 810-819	3.3	32
59	Single-kink dynamics in an easy-plane classical antiferromagnetic chain. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 221-233		32
58	Nambu monopoles interacting with lattice defects in a two-dimensional artificial square spin ice. <i>Physical Review B</i> , 2013 , 87,	3.3	30
57	Overshoot in the response of a photoconductor excited by subpicosecond pulses. <i>Applied Physics Letters</i> , 1988 , 52, 2148-2150	3.4	30
56	Correlated molecular-field theory for ising models. <i>Physical Review E</i> , 2000 , 61, 6399-403	2.4	26
55	Collective-variable approach to the dynamics of nonlinear magnetic excitations with application to vortices. <i>Physical Review B</i> , 1994 , 50, 12711-12720	3.3	26
54	Dynamic correlations in the classical two-dimensional antiferromagnetic Heisenberg model with easy-plane symmetry. <i>Physical Review B</i> , 1991 , 44, 10066-10078	3.3	25
53	Quantum Monte Carlo study of a spin-1/2 chain. <i>Physical Review B</i> , 1985 , 31, 3205-3208	3.3	24
52	Faraday rotation enhancement of gold coated Fe ₂ O ₃ nanoparticles: comparison of experiment and theory. <i>Journal of Chemical Physics</i> , 2011 , 135, 224502	3.9	21
51	Dynamics and hysteresis in square lattice artificial spin ice. <i>New Journal of Physics</i> , 2013 , 15, 045029	2.9	19
50	Electromagnetic modes in dielectric equilateral triangle resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 1586	1.7	19
49	Vortex-vacancy interactions in two-dimensional easy-plane magnets. <i>Physical Review B</i> , 2003 , 68,	3.3	19
48	Vacancy effects in an easy-plane Heisenberg model: Reduction of T _c and doubly charged vortices. <i>Physical Review B</i> , 2005 , 71,	3.3	18
47	Low-temperature static and dynamic behavior of the two-dimensional easy-axis Heisenberg model. <i>Physical Review B</i> , 1999 , 59, 6229-6238	3.3	17
46	Spin dynamics for 2d Heisenberg antiferromagnets with combined easy-plane and Dzyaloshinsky interactions. <i>Annalen Der Physik</i> , 1993 , 505, 308-319	2.6	16

45	Critical anisotropies of two-dimensional magnetic vortices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998 , 240, 95-99	2.3	13
44	Contribution of impurity-pinned vortices to the response function in a randomly diluted easy-plane ferromagnet on a square lattice. <i>Physical Review B</i> , 2005 , 72,	3.3	13
43	Lifetime of vortices in two-dimensional easy-plane ferromagnets. <i>Physical Review B</i> , 1996 , 53, 8539-8542,	3.3	13
42	Chaos and coherence in classical one-dimensional magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 54-57, 1132-1134	2.8	13
41	Realization of Rectangular Artificial Spin Ice and Direct Observation of High Energy Topology. <i>Scientific Reports</i> , 2017 , 7, 13982	4.9	12
40	Effects of interband transitions on Faraday rotation in metallic nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 325302	1.8	12
39	Rb ₂ CrCl ₄ : studies of a two-dimensional classical easy-plane Heisenberg model with in-plane symmetry breaking. <i>Journal of Physics Condensed Matter</i> , 1989 , 1, 4387-4398	1.8	12
38	Magnetic anisotropy of elongated thin ferromagnetic nano-islands for artificial spin ice arrays. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 296001	1.8	11
37	Vortex-in-nanodot potentials in thin circular magnetic dots. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 376002	1.8	11
36	Onsager reaction-field theory for magnetic models on diamond and hcp lattices. <i>Physical Review B</i> , 2000 , 62, 3251-3258	3.3	11
35	The classical two-dimensional XY model with in-plane magnetic field. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 1853-1868	1.8	11
34	Relaxation schemes for normal modes of magnetic vortices: Application to the scattering matrix. <i>Physical Review B</i> , 2001 , 63,	3.3	9
33	Spin-wave damping in the two-dimensional ferromagnetic XY model. <i>Physical Review B</i> , 2000 , 62, 11585-11599	3.3	9
32	Thermal vortex dynamics in thin circular ferromagnetic nanodisks. <i>Physical Review B</i> , 2012 , 86,	3.3	8
31	Hole-vortex-magnon interactions in diluted layered antiferromagnets with planar symmetry. <i>Physical Review B</i> , 2006 , 73,	3.3	8
30	Thermomagnetic transport coefficients: Solitons in an easy-plane magnetic chain. <i>Physical Review B</i> , 1987 , 36, 7063-7070	3.3	8
29	Order and thermalized dynamics in Heisenberg-like square and Kagome spin ices. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 076004	1.8	7
28	Localized magnon mode of in-plane magnetic vortices in easy-plane magnets. <i>Physical Review B</i> , 1998 , 57, 8274-8284	3.3	7

27	Onsager reaction field theory for the three-dimensional anisotropic XY model. <i>Physical Review B</i> , 1998 , 58, 2399-2402	3.3	7
26	Comparison of vortex normal modes in easy-plane ferromagnets and antiferromagnets. <i>Physical Review B</i> , 1996 , 54, 12921-12931	3.3	6
25	Resonant mode lifetimes due to boundary wave emission in equilateral triangular dielectric cavities. <i>Journal of Optics</i> , 2005 , 7, 502-509		5
24	Dynamics of vortices in quasi-two-dimensional classical Heisenberg magnets with weak easy-plane anisotropy. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 9411-9422	1.8	5
23	Mass and Momentum for Vortices in Two-Dimensional Easy-Plane Magnets. <i>NATO ASI Series Series B: Physics</i> , 1994 , 177-186		5
22	Vortex dynamics in thin elliptic ferromagnetic nanodisks. <i>Low Temperature Physics</i> , 2015 , 41, 788-800	0.7	4
21	Comment on Static and dynamic simulation in the classical two-dimensional anisotropic Heisenberg model. <i>Physical Review B</i> , 1997 , 56, 14192-14194	3.3	4
20	Berezinskii-Kosterlitz-Thouless phase transition for the dilute planar rotator model on a triangular lattice. <i>Physical Review B</i> , 2008 , 78,	3.3	4
19	Vortex dynamics in the classical two-dimensional antiferromagnetic XY model. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 766-768	2.8	4
18	Numerical study of vortices in a two-dimensional XY model with in-plane magnetic field. <i>Physical Review B</i> , 1997 , 55, 14144-14147	3.3	3
17	Free vortex and vortex-pair lifetimes in classical two-dimensional easy-plane magnets. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 7453-7465	1.8	3
16	Kink-anti-kink scattering for an easy-plane one-dimensional antiferromagnet. <i>Journal of Physics C: Solid State Physics</i> , 1987 , 20, 2361-2373		3
15	Collective Variable Approach for a Magnetic N-Vortex System. <i>NATO ASI Series Series B: Physics</i> , 1994 , 199-206		3
14	DYNAMICS OF UNBOUND VORTICES IN THE 2-DIMENSIONAL XY AND ANISOTROPIC HEISENBERG MODELS. <i>Journal De Physique Colloque</i> , 1988 , 49, C8-1385-C8-1386		2
13	Equations of motion for vortices in 2-D easy-plane magnets 1991 , 1-14		2
12	Edge effects in vortex-based nanocontact oscillators. <i>Physical Review B</i> , 2014 , 90,	3.3	1
11	Easy-plane antiferromagnetic kinks. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 54-57, 831-832	2.8	1
10	Classical Spin Dynamics in the Two-Dimensional Anisotropic Heisenberg Model. <i>Springer Proceedings in Physics</i> , 1988 , 40-48	0.2	1

- 9 A one-dimensional statistical mechanics model with exact transfer integral solution. *American Journal of Physics*, **1993**, 61, 734-740 0.7
- 8 Reply to "Comment on 'Dynamic correlations in a classical two-dimensional Heisenberg antiferromagnet' ". *Physical Review B*, **1992**, 45, 10812-10813 3.3
- 7 Central peak signatures from vortices in 2D easy-plane antiferromagnets **1991**, 15-22
- 6 Magnetic Chiral Solitons Stabilized by Oersted Field at a Thin-Film Nanocontact with Electric Current. *Ukrainian Journal of Physics*, **2019**, 64, 933 0.4
- 5 One-Dimensional Easy-Plane Magnets: Classical Sine-Gordon Theory or a Quantum Model?. *Springer Series in Solid-state Sciences*, **1987**, 42-52 0.4
- 4 Dynamic Scaling in the Two-Dimensional Heisenberg Antiferromagnet. *NATO ASI Series Series B: Physics*, **1991**, 353-357
- 3 On the Motion of Vortex Pairs in the Anisotropic Heisenberg Model. *NATO ASI Series Series B: Physics*, **1991**, 189-192
- 2 Magnetic vortex dynamics in the non-circular potential of a thin ellipticferromagnetic nanodisk with applied fields. *AIMS Materials Science*, **2017**, 4, 421-438 1.9
- 1 Nonlinear Effects in Low-Dimensional Magnetism: Solitons and Vortices. *Springer Proceedings in Physics*, **1987**, 109-113 0.2