

Gary Wysin

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.

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	Magnetic Chiral Solitons Stabilized by Oersted Field at a Thin-Film Nanocontact with Electric Current. <i>Ukrainian Journal of Physics</i> , 2019 , 64, 933	0.4	
79	Realization of Rectangular Artificial Spin Ice and Direct Observation of High Energy Topology. <i>Scientific Reports</i> , 2017 , 7, 13982	4.9	12
78	Magnetic vortex dynamics in the non-circular potential of a thin elliptic ferromagnetic nanodisk with applied fields. <i>AIMS Materials Science</i> , 2017 , 4, 421-438	1.9	
77	Order and thermalized dynamics in Heisenberg-like square and Kagomé spin ices. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 076004	1.8	7
76	Vortex dynamics in thin elliptic ferromagnetic nanodisks. <i>Low Temperature Physics</i> , 2015 , 41, 788-800	0.7	4
75	Edge effects in vortex-based nanocontact oscillators. <i>Physical Review B</i> , 2014 , 90,	3.3	1
74	Nambu monopoles interacting with lattice defects in a two-dimensional artificial square spin ice. <i>Physical Review B</i> , 2013 , 87,	3.3	30
73	Effects of interband transitions on Faraday rotation in metallic nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 325302	1.8	12
72	Dynamics and hysteresis in square lattice artificial spin ice. <i>New Journal of Physics</i> , 2013 , 15, 045029	2.9	19
71	Thermal vortex dynamics in thin circular ferromagnetic nanodisks. <i>Physical Review B</i> , 2012 , 86,	3.3	8
70	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
69	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
68	Vortex-in-nanodot potentials in thin circular magnetic dots. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 376002	1.8	11
67	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
66	Hole-vortex-magnon interactions in diluted layered antiferromagnets with planar symmetry. <i>Physical Review B</i> , 2006 , 73,	3.3	8
65	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
64	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

63	Resonant mode lifetimes due to boundary wave emission in equilateral triangular dielectric cavities. <i>Journal of Optics</i> , 2005 , 7, 502-509		5
62	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
61	Vacancy effects in an easy-plane Heisenberg model: Reduction of Tc and doubly charged vortices. <i>Physical Review B</i> , 2005 , 71,	3.3	18
60	Amplitudes for magnon scattering by vortices in two-dimensional weakly easy-plane ferromagnets. <i>Physical Review B</i> , 2004 , 69,	3.3	32
59	Vortex-vacancy interactions in two-dimensional easy-plane magnets. <i>Physical Review B</i> , 2003 , 68,	3.3	19
58	Magnon modes for a circular two-dimensional easy-plane ferromagnet in the cone state. <i>Physical Review B</i> , 2002 , 65,	3.3	47
57	Relaxation schemes for normal modes of magnetic vortices: Application to the scattering matrix. <i>Physical Review B</i> , 2001 , 63,	3.3	9
56	Correlated molecular-field theory for ising models. <i>Physical Review E</i> , 2000 , 61, 6399-403	2.4	26
55	Spin-wave damping in the two-dimensional ferromagnetic XY model. <i>Physical Review B</i> , 2000 , 62, 11585-11599	3.3	9
54	Onsager reaction-field theory for magnetic models on diamond and hcp lattices. <i>Physical Review B</i> , 2000 , 62, 3251-3258	3.3	11
53	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
52	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
51	Magnon modes and magnon-vortex scattering in two-dimensional easy-plane ferromagnets. <i>Physical Review B</i> , 1998 , 58, 8464-8474	3.3	97
50	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
49	Localized magnon mode of in-plane magnetic vortices in easy-plane magnets. <i>Physical Review B</i> , 1998 , 57, 8274-8284	3.3	7
48	Onsager reaction field theory for the three-dimensional anisotropic XY model. <i>Physical Review B</i> , 1998 , 58, 2399-2402	3.3	7
47	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
46	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

45	Lifetime of vortices in two-dimensional easy-plane ferromagnets. <i>Physical Review B</i> , 1996 , 53, 8539-8542	3.3	13
44	Normal modes and soliton resonance for vortices in 2D classical antiferromagnets. <i>Physical Review Letters</i> , 1996 , 76, 511-514	7.4	46
43	Comparison of vortex normal modes in easy-plane ferromagnets and antiferromagnets. <i>Physical Review B</i> , 1996 , 54, 12921-12931	3.3	6
42	Magnetic vortex mass in two-dimensional easy-plane magnets. <i>Physical Review B</i> , 1996 , 54, 15156-15162	3.3	36
41	Magnetic properties of superparamagnetic particles by a Monte Carlo method. <i>Physical Review B</i> , 1996 , 54, 9237-9241	3.3	68
40	Magnetic properties of spherical fcc clusters with radial surface anisotropy. <i>Physical Review B</i> , 1995 , 51, 11947-11950	3.3	68
39	Normal modes of vortices in easy-plane ferromagnets. <i>Physical Review B</i> , 1995 , 52, 7412-7427	3.3	32
38	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
37	Instability of in-plane vortices in two-dimensional easy-plane ferromagnets. <i>Physical Review B</i> , 1994 , 49, 8780-8789	3.3	70
36	Effects of surface anisotropy on hysteresis in fine magnetic particles. <i>Physical Review B</i> , 1994 , 50, 3077-3084	3.3	109
35	Mass and Momentum for Vortices in Two-Dimensional Easy-Plane Magnets. <i>NATO ASI Series Series B: Physics</i> , 1994 , 177-186		5
34	Collective Variable Approach for a Magnetic N-Vortex System. <i>NATO ASI Series Series B: Physics</i> , 1994 , 199-206		3
33	A one-dimensional statistical mechanics model with exact transfer integral solution. <i>American Journal of Physics</i> , 1993 , 61, 734-740	0.7	
32	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
31	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
30	Reply to "Comment on 'Dynamic correlations in a classical two-dimensional Heisenberg antiferromagnet' ". <i>Physical Review B</i> , 1992 , 45, 10812-10813	3.3	
29	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
28	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

27	Motion of vortex pairs in the ferromagnetic and antiferromagnetic anisotropic Heisenberg model. <i>Physical Review B</i> , 1991 , 43, 5992-6005	3-3	43
26	Central peak signatures from vortices in 2D easy-plane antiferromagnets 1991 , 15-22		
25	Dynamic Scaling in the Two-Dimensional Heisenberg Antiferromagnet. <i>NATO ASI Series Series B: Physics</i> , 1991 , 353-357		
24	On the Motion of Vortex Pairs in the Anisotropic Heisenberg Model. <i>NATO ASI Series Series B: Physics</i> , 1991 , 189-192		
23	Equations of motion for vortices in 2-D easy-plane magnets 1991 , 1-14		2
22	Dynamic correlations in a classical two-dimensional Heisenberg antiferromagnet. <i>Physical Review B</i> , 1990 , 42, 810-819	3-3	32
21	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
20	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
19	Dynamical correlations from mobile vortices in two-dimensional easy-plane ferromagnets. <i>Physical Review B</i> , 1989 , 39, 591-602	3-3	101
18	Vortices in the classical two-dimensional anisotropic Heisenberg model. <i>Physical Review B</i> , 1989 , 39, 11840-11849	3-3	11849
17	Overshoot in the response of a photoconductor excited by subpicosecond pulses. <i>Applied Physics Letters</i> , 1988 , 52, 2148-2150	3-4	30
16	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
15	Classical Spin Dynamics in the Two-Dimensional Anisotropic Heisenberg Model. <i>Springer Proceedings in Physics</i> , 1988 , 40-48	0.2	1
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	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
12	Thermomagnetic transport coefficients: Solitons in an easy-plane magnetic chain. <i>Physical Review B</i> , 1987 , 36, 7063-7070	3-3	8
11	Vortex signatures in dynamic structure factors for two-dimensional easy-plane ferromagnets. <i>Physical Review Letters</i> , 1987 , 59, 117-120	7-4	77
10	One-Dimensional Easy-Plane Magnets: Classical Sine-Gordon Theory or a Quantum Model?. <i>Springer Series in Solid-state Sciences</i> , 1987 , 42-52	0-4	

9	Nonlinear Effects in Low-Dimensional Magnetism: Solitons and Vortices. <i>Springer Proceedings in Physics</i> , 1987 , 109-113	0.2	
8	Easy-plane antiferromagnetic kinks. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 54-57, 831-832	2.8	1
7	Chaos and coherence in classical one-dimensional magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 54-57, 1132-1134	2.8	13
6	Single-kink dynamics in an easy-plane classical antiferromagnetic chain. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 221-233		32
5	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
4	Quantum Monte Carlo study of a spin-1/2 chain. <i>Physical Review B</i> , 1985 , 31, 3205-3208	3.3	24
3	Soliton dynamics on an easy-plane ferromagnetic chain. <i>Journal of Physics C: Solid State Physics</i> , 1984 , 17, 5975-5991		39
2	Soliton dynamics on a ferromagnetic chain. <i>Journal of Physics C: Solid State Physics</i> , 1982 , 15, L337-L343		41
1	Optical bistability with surface plasmons. <i>Optics Letters</i> , 1981 , 6, 30-2	3	69