

# Slawomir Mamica

## List of Publications by Year in descending order

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45  
papers

648  
citations

516710

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610901

24  
g-index

45  
all docs

45  
docs citations

45  
times ranked

395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnonic band structures in two-dimensional bi-component magnonic crystals with in-plane magnetization. Journal Physics D: Applied Physics, 2013, 46, 495003. Tunable metamaterial response of a Ni	2.8	69
2	display="inline"><math>Fe</math> </math></math>antidot lattice for spin waves. Physical Review B, 2011, 84, .	3.2	45
3	Large magnonic band gaps and spectra evolution in three-dimensional magnonic crystals based on magnetoferritin nanoparticles. Physical Review B, 2012, 86, .	3.2	45
4	The impact of the lattice symmetry and the inclusion shape on the spectrum of 2D magnonic crystals. Journal of Applied Physics, 2012, 111, .	2.5	39
5	Magnonic crystalsâ€”Prospective structures for shaping spin waves in nanoscale. Low Temperature Physics, 2015, 41, 745-759.	0.6	31
6	Investigation of spin wave damping in three-dimensional magnonic crystals using the plane wave method. Physical Review B, 2012, 86, .	3.2	30
7	On the Formulation of the Exchange Field in the Landau-Lifshitz Equation for Spin-Wave Calculation in Magnonic Crystals. Advances in Condensed Matter Physics, 2012, 2012, 1-14.	1.1	26
8	Spin-Wave Band Structure in 2D Magnonic Crystals with Elliptically Shaped Scattering Centres. Advances in Condensed Matter Physics, 2012, 2012, 1-6.	1.1	25
9	Calculation of the spin-wave spectra in planar magnonic crystals with metallic overlayers. Journal of Applied Physics, 2012, 111, .	2.5	24
10	Effects of the competition between the exchange and dipolar interactions in the spin-wave spectrum of two-dimensional circularly magnetized nanodots. Journal Physics D: Applied Physics, 2014, 47, 015003.	2.8	24
11	Materials optimization of the magnonic gap in three-dimensional magnonic crystals with spheres in hexagonal structure. Journal of Applied Physics, 2010, 108, .	2.5	23
12	Spin-wave dynamics in artificial anti-spin-ice systems: Experimental and theoretical investigations. Physical Review B, 2018, 98, .	3.2	23
13	Tailoring dynamic magnetic characteristics of <math>F</math> <math>e</math> <math>A</math>	3.2	18
14	Nonuniform Spin-Wave Softening in Two-Dimensional Magnonic Crystals as a Tool for Opening Omnidirectional Magnonic Band Gaps. Physical Review Applied, 2019, 11, .	3.8	18
15	Does the generation of surface spin-waves hinge critically on the range of neighbour interaction?. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 246, 347-352.	2.1	17
16	The effect of the single-spin defect on the stability of the in-plane vortex state in 2D magnetic nanodots. Journal of Nanoparticle Research, 2011, 13, 6075-6083.	1.9	17
17	Theoretical study of spin wave resonance filling fraction effect in composite ferromagnetic [A B A] trilayer. Journal of Magnetism and Magnetic Materials, 2002, 246, 93-100.	2.3	16
18	Stabilization of the in-plane vortex state in two-dimensional circular nanorings. Journal of Applied Physics, 2013, 113, .	2.5	16

#	ARTICLE	IF	CITATIONS
19	The Role of Oblique-to-Surface Disposition of Neighbours in the Emergence of Surface Spin Waves in Magnetic Films. <i>Acta Physica Polonica A</i> , 1998, 94, 79-91.	0.5	16
20	The Role of Next-Nearest Neighbours for the Existence Conditions of Subsurface Spin Waves in Magnetic Films. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 218, 561-569.	1.5	13
21	Stability of the Landau state in square two-dimensional magnetic nanorings. <i>Journal of Applied Physics</i> , 2012, 112, 043901.	2.5	11
22	Calculation of spin wave spectra in magnetic nanograins and patterned multilayers with perpendicular anisotropy. <i>Journal of Applied Physics</i> , 2011, 109, 113903.	2.5	10
23	Time-resolved measurement of spin-wave spectra in CoO capped [Co(t)/Pt(7Å...)] <sub>n-1</sub> Co(t) multilayer systems. <i>Journal of Applied Physics</i> , 2012, 111, 07C507.	2.5	10
24	Influence of nonmagnetic dielectric spacers on the spin-wave response of one-dimensional planar magnonic crystals. <i>Physical Review B</i> , 2019, 100, .	3.2	10
25	Spin-wave spectra and stability of the in-plane vortex state in two-dimensional magnetic nanorings. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	9
26	Phase resolved observation of spin wave modes in antidot lattices. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	9
27	Tailoring of the partial magnonic gap in three-dimensional magnetoferritin-based magnonic crystals. <i>Journal of Applied Physics</i> , 2013, 114, 043912.	2.5	8
28	Reversible tuning of omnidirectional band gaps in two-dimensional magnonic crystals by magnetic field and in-plane squeezing. <i>Physical Review B</i> , 2019, 100, .	3.2	8
29	Magnonic Metamaterials. , 0, , .		7
30	Vortex polarization dynamics in a square magnetic nanodot. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 466001.	1.8	7
31	Influence of the demagnetizing field on the spin-wave softening in bicomponent magnonic crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 546, 168690.	2.3	5
32	Effects of spin-wave energy degeneracy induced by in-plane wave propagation in ferromagnetic thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2994-2999.	2.3	4
33	Vortices in two-dimensional nanorings studied by means of the dynamical matrix method. <i>Low Temperature Physics</i> , 2015, 41, 806-816.	0.6	4
34	Propagation Effects in the Spin-Wave Spectrum of the Ferromagnetic Thin Film. <i>Advances in Condensed Matter Physics</i> , 2015, 2015, 1-17.	1.1	3
35	The Emergence of Subsurface Spin-Waves in fcc (110) Magnetic Films. <i>Acta Physica Polonica A</i> , 2000, 97, 483-486.	0.5	3
36	Dynamic effects on the spin-wave spectrum of the bcc thin film. <i>European Physical Journal B</i> , 2014, 87, 1.	1.5	1

#	ARTICLE	IF	CITATIONS
37	Influence of the next-nearest neighbor exchange interaction on the thin-film spin-wave spectrum. Thin Solid Films, 2015, 595, 41-47.	1.8	1
38	Special Modes in Spin Wave Spectra of Two-Dimensional Nanodots. Acta Physica Polonica A, 2015, 127, 365-367.	0.5	1
39	Spin-Wave Dynamics in the Presence of Magnetic Vortices. , 0, , .		1
40	The Role of Next-Nearest Neighbours for the Existence Conditions of Subsurface Spin Waves in Magnetic Films. , 2000, 218, 561.		1
41	Spin Wave Excitations of the Interacting Two-Dimensional In-Plane Nano-Vortices. Acta Physica Polonica A, 2018, 133, 505-507.	0.5	0
42	Magnetic Properties of Nanostructures in Non-Integer Dimensions. , 2018, , 159-192.		0
43	Magnonic Crystals: From Simple Models toward Applications. , 2018, , 283-331.		0
44	Resonance modes of periodically structuralized microwave magnetic elements. Journal of Magnetism and Magnetic Materials, 2022, 553, 169261.	2.3	0
45	The Role of Next-Nearest Neighbours for the Existence Conditions of Subsurface Spin Waves in Magnetic Films. Physica Status Solidi (B): Basic Research, 2000, 218, 561-569.	1.5	0