List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Magnetism in curved geometries. Journal Physics D: Applied Physics, 2016, 49, 363001.	1.3	263
2	Curvature Effects in Thin Magnetic Shells. Physical Review Letters, 2014, 112, 257203.	2.9	160
3	Curvature effects in statics and dynamics of low dimensional magnets. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 125202.	0.7	94
4	Topologically stable magnetization states on a spherical shell: Curvature-stabilized skyrmions. Physical Review B, 2016, 94, .	1.1	81
5	Coupling of Chiralities in Spin and Physical Spaces: The Möbius Ring as a Case Study. Physical Review Letters, 2015, 114, 197204.	2.9	73
6	Equilibrium magnetic states in individual hemispherical permalloy caps. Applied Physics Letters, 2012, 101, .	1.5	72
7	Spin eigenmodes of magnetic skyrmions and the problem of the effective skyrmion mass. Physical Review B, 2018, 97, .	1.1	67
8	Curvature-induced domain wall pinning. Physical Review B, 2015, 92, .	1.1	64
9	Multiplet of Skyrmion States on a Curvilinear Defect: Reconfigurable Skyrmion Lattices. Physical Review Letters, 2018, 120, 067201.	2.9	64
10	Controlled vortex core switching in a magnetic nanodisk by a rotating field. Journal of Applied Physics, 2007, 102, .	1.1	62
11	Magnetic vortex dynamics induced by an electrical current. International Journal of Quantum Chemistry, 2010, 110, 83-97.	1.0	62
12	Out-of-surface vortices in spherical shells. Physical Review B, 2012, 85, .	1.1	59
13	Magnetic vortices on closely packed spherically curved surfaces. Physical Review B, 2012, 85, .	1.1	52
14	Magnetically Capped Rolled-up Nanomembranes. Nano Letters, 2012, 12, 3961-3966.	4.5	50
15	Curvature and torsion effects in spin-current driven domain wall motion. Physical Review B, 2016, 93, .	1.1	49
16	Mesoscale Dzyaloshinskii-Moriya interaction: geometrical tailoring of the magnetochirality. Scientific Reports, 2018, 8, 866.	1.6	43
17	Geometry-induced motion of magnetic domain walls in curved nanostripes. Physical Review B, 2018, 98,	1.1	41
18	Equilibrium magnetisation structures in ferromagnetic nanorings. Journal of Magnetism and Magnetic Materials, 2007, 310, 116-125.	1.0	40

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19	Magnetization in narrow ribbons: curvature effects. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 385401.	0.7	40
20	Rashba Torque Driven Domain Wall Motion in Magnetic Helices. Scientific Reports, 2016, 6, 23316.	1.6	39
21	Torsion-induced effects in magnetic nanowires. Physical Review B, 2015, 92, .	1.1	37
22	Influence of Dzialoshinskii–Moriya interaction on static and dynamic properties of a transverse domain wall. Journal of Magnetism and Magnetic Materials, 2014, 367, 9-14.	1.0	31
23	Nucleation of a vortex-antivortex pair in the presence of an immobile magnetic vortex. Physical Review B, 2009, 80, .	1.1	29
24	Spin eigenexcitations of an antiferromagnetic skyrmion. Physical Review B, 2019, 99, .	1.1	28
25	Microwave resonances of magnetic skyrmions in thin film multilayers. Nature Communications, 2021, 12, 1909.	5.8	27
26	Geometry induced phase transitions in magnetic spherical shell. Journal of Magnetism and Magnetic Materials, 2017, 443, 404-412.	1.0	26
27	Chiral Skyrmion and Skyrmionium States Engineered by the Gradient of Curvature. Physical Review Applied, 2018, 10, .	1.5	26
28	Curvature induced chirality symmetry breaking in vortex core switching phenomena. Applied Physics Letters, 2014, 104, .	1.5	25
29	Effect of curvature on the eigenstates of magnetic skyrmions. Physical Review B, 2020, 102, .	1.1	22
30	Thin ferromagnetic nanodisk in transverse magnetic field. Physics of the Solid State, 2007, 49, 1923-1931.	0.2	19
31	Regular and chaotic vortex core reversal by a resonant perpendicular magnetic field. Physical Review B, 2013, 88, .	1.1	19
32	Fundamentals of Curvilinear Ferromagnetism: Statics and Dynamics of Geometrically Curved Wires and Narrow Ribbons. Small, 2022, 18, e2105219.	5.2	19
33	Multiple vortex-antivortex pair generation in magnetic nanodots. Physical Review B, 2010, 81, .	1.1	18
34	Resonantly excited precession motion of three-dimensional vortex core in magnetic nanospheres. Scientific Reports, 2015, 5, 11370.	1.6	18
35	Localization of magnon modes in a curved magnetic nanowire. Low Temperature Physics, 2018, 44, 634-643.	0.2	17
36	Curvature effects on phase transitions in chiral magnets. SciPost Physics, 2020, 9, .	1.5	17

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37	Effective anisotropy of thin nanomagnets: Beyond the surface-anisotropy approach. Physical Review B, 2007, 76, .	1.1	15
38	Switching phenomena in magnetic vortex dynamics. Low Temperature Physics, 2008, 34, 528-534.	0.2	15
39	EQUILIBRIUM STATES OF SOFT MAGNETIC HEMISPHERICAL SHELL. Spin, 2013, 03, 1340003.	0.6	14
40	Controllable vortex chirality switching on spherical shells. Journal of Applied Physics, 2015, 117, 083908.	1.1	14
41	Spontaneous deformation of flexible ferromagnetic ribbons induced by Dzyaloshinskii-Moriya interaction. Physical Review B, 2019, 100, .	1.1	14
42	Magnetization-induced shape transformations in flexible ferromagnetic rings. Physical Review B, 2019, 99, .	1.1	14
43	Magnetic vortex-antivortex crystals generated by spin-polarized current. Physical Review B, 2012, 86, .	1.1	13
44	Solitary wave excitations of skyrmion strings in chiral magnets. Physical Review B, 2020, 102, .	1.1	12
45	Curvature induced magnonic crystal in nanowires. SciPost Physics, 2019, 7, .	1.5	12
46	Spin-transfer torque and current-induced vortex superlattices in nanomagnets. Physical Review B, 2011, 84, .	1.1	11
47	Effects of surface anisotropy on magnetic vortex core. Journal of Magnetism and Magnetic Materials, 2014, 361, 201-205.	1.0	10
48	Curvature-induced drift and deformation of magnetic skyrmions: Comparison of the ferromagnetic and antiferromagnetic cases. Physical Review B, 2022, 105, .	1.1	10
49	Periodic magnetization structures generated by transverse spin current in magnetic nanowires. Physical Review B, 2013, 87, .	1.1	9
50	Periodic magnetic structures generated by spin–polarized currents in nanostripes. Applied Physics Letters, 2013, 103, 222401.	1.5	8
51	Fluctuation-induced Néel and Bloch skyrmions at topological insulator surfaces. Physical Review B, 2018, 98, .	1.1	8
52	Screw Dislocations in Chiral Magnets. Physical Review Letters, 2022, 128, 157204.	2.9	8
53	Off-centred immobile magnetic vortex under influence of spin-transfer torque. Journal Physics D: Applied Physics, 2011, 44, 285001.	1.3	6
54	Chaotic antiferromagnetic nano-oscillator driven by spin torque. Physical Review B, 2021, 104, .	1.1	6

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55	Unidirectional tilt of domain walls in equilibrium in biaxial stripes with Dzyaloshinskii–Moriya interaction. Journal Physics D: Applied Physics, 2020, 53, 395003.	1.3	5
56	Domain wall diode based on functionally graded Dzyaloshinskii–Moriya interaction. Applied Physics Letters, 2020, 116, 222406.	1.5	5
57	Stability of Magnetic Nanowires Against Spin-Polarized Current. Ukrainian Journal of Physics, 2014, 59, 1001-1006.	0.1	5
58	Vortex polarity switching in magnets with surface anisotropy. Low Temperature Physics, 2015, 41, 361-374.	0.2	3
59	Effects of a spin-polarized current assisted Ã~rsted field in magnetization patterning. Journal of Applied Physics, 2015, 117, 213910.	1.1	0
60	Domain wall dynamics at the local wire bend. , 2015, , .		0
61	Torsion effects in a helix nanowire with easy-tangential anisotropy. , 2015, , .		0
62	Saturation of Magnetic Films with Spin-Polarized Current in the Presence of a Magnetic Field. Ukrainian Journal of Physics, 2013, 58, 666-672.	0.1	0