

# E N Beginin

## List of Publications by Year in descending order

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55  
papers

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361413

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56  
all docs

56  
docs citations

56  
times ranked

751  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Magnetics Roadmap on Spin-Wave Computing. IEEE Transactions on Magnetics, 2022, 58, 1-72.	2.1	179
2	Magnonics: a new research area in spintronics and spin wave electronics. Physics-Uspexhi, 2015, 58, 1002-1028.	2.2	174
3	Toward nonlinear magnonics: Intensity-dependent spin-wave switching in insulating side-coupled magnetic stripes. Physical Review B, 2017, 96, .	3.2	95
4	Route toward semiconductor magnonics: Light-induced spin-wave nonreciprocity in a YIG/GaAs structure. Physical Review B, 2019, 99, .	3.2	88
5	Directional multimode coupler for planar magnonics: Side-coupled magnetic stripes. Applied Physics Letters, 2015, 107, .	3.3	82
6	Spin wave propagation in a uniformly biased curved magnonic waveguide. Physical Review B, 2017, 96, .	3.2	70
7	Nonlinear spin wave coupling in adjacent magnonic crystals. Applied Physics Letters, 2016, 109, .	3.3	56
8	Frequency selective tunable spin wave channeling in the magnonic network. Applied Physics Letters, 2016, 108, .	3.3	46
9	Spin wave steering in three-dimensional magnonic networks. Applied Physics Letters, 2018, 112, 122404.	3.3	40
10	Dielectric magnonics: from gigahertz to terahertz. Physics-Uspexhi, 2020, 63, 945-974.	2.2	40
11	Bragg resonances of magnetostatic surface spin waves in a layered structure: Magnonic crystal-dielectric-metal. Applied Physics Letters, 2012, 100, .	3.3	39
12	Brillouin light scattering study of transverse mode coupling in confined yttrium iron garnet/barium strontium titanate multiferroic. Journal of Applied Physics, 2015, 118, .	2.5	39
13	Nonlinear Spin Wave Effects in the System of Lateral Magnonic Structures. JETP Letters, 2018, 107, 25-29.	1.4	38
14	Spatial frequency selection of magnetostatic waves in a two-dimensional magnonic crystal lattice. JETP Letters, 2016, 104, 563-567.	1.4	32
15	Self-generation of dissipative solitons in magnonic quasicrystal active ring resonator. Journal of Applied Physics, 2014, 115, 053908.	2.5	31
16	The electrodynamic characteristics of a finite-width metal/dielectric/ferroelectric/dielectric/metal layer structure. Journal of Communications Technology and Electronics, 2014, 59, 914-919.	0.5	31
17	Dissipative soliton generation in an active ring resonator based on magnonic quasicrystal with Fibonacci type structure. Applied Physics Letters, 2013, 103, 022408.	3.3	30
18	Band gap formation and control in coupled periodic ferromagnetic structures. Journal of Applied Physics, 2016, 120, .	2.5	28

#	ARTICLE	IF	CITATIONS
19	Generation of a stationary train of chaotic soliton-like microwave pulses in self-oscillating ring systems with a ferromagnetic thin film. JETP Letters, 2008, 88, 647-650.	1.4	22
20	Spin waves in meander shaped YIG film: Toward 3D magnonics. Applied Physics Letters, 2020, 117, .	3.3	21
21	Formation of gap solitons in a finite magnonic crystal. Physics of Wave Phenomena, 2013, 21, 304-309.	1.1	19
22	Magnonic Band Structure in Vertical Meander-Shaped $\text{Co}_{40}\text{Fe}_{60}$ Magnonic Crystal. Applied Physics Letters, 2013, 103, 103111.	3.8	17
23	Effect of ferrite magnonic crystal metallization on Bragg resonances of magnetostatic surface waves. Technical Physics Letters, 2011, 37, 1024-1026.	0.7	16
24	Nonreciprocal propagation of hybrid electromagnetic waves in a layered ferrite-ferroelectric structure with a finite width. JETP Letters, 2015, 102, 142-147.	1.4	16
25	Magnonic band structure in CoFeB/Ta/NiFe meander-shaped magnetic bilayers. Applied Physics Letters, 2021, 118, .	3.3	16
26	Surface spin waves propagation in tapered magnetic stripe. Journal of Applied Physics, 2019, 126, .	2.5	13
27	Reconfigurable Lateral Spin-Wave Transport in a Ring Magnonic Microwaveguide. JETP Letters, 2019, 110, 430-435.	1.4	12
28	Spatiotemporal dynamics of magnetostatic and spin waves in a transversely confined ferrite waveguide. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 1429-1431.	0.6	11
29	Strain-mediated tunability of spin-wave spectra in the adjacent magnonic crystal stripes with piezoelectric layer. Applied Physics Letters, 2021, 118, .	3.3	11
30	Numerical modeling of wave processes in coupled magnonic crystals with periods shifted relative to each other. Physics of Wave Phenomena, 2016, 24, 1-6.	1.1	9
31	Nonlinear effects of self-action of waves in 2D coupled ferromagnetic structures. Physics of the Solid State, 2010, 52, 79-86.	0.6	7
32	Passage of two-frequency signals in the Bragg resonance band of a one-dimensional magnon crystal. Technical Physics Letters, 2012, 38, 638-641.	0.7	7
33	Spatial dynamics of hybrid electromagnetic spin waves in a lateral multiferroic microwaveguide. JETP Letters, 2017, 105, 364-369.	1.4	7
34	Spin-wave excitations in YIG films grown on corrugated substrates. Journal of Physics: Conference Series, 2019, 1389, 012140.	0.4	6
35	Studying the spectra of thermal magnons in composite materials with embedded magnetite nanoparticles using Brillouin light-scattering spectroscopy. Technical Physics Letters, 2013, 39, 715-718.	0.7	5
36	Magnetostatic surface waves in a ferrite-ferromagnetic metal layered medium based on yttrium iron garnet epitaxial films and TbCo <sub>2</sub> /FeCo nanostructures. Journal of Communications Technology and Electronics, 2015, 60, 999-1005.	0.5	5

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37	Volume Magnetostatic Spin Waves in 3D Ferromagnetic Structures. Journal of Communications Technology and Electronics, 2018, 63, 1431-1438.	0.5	5
38	Controlled Spin-Wave Transport in a Magnon-Crystal Structure with a One-Dimensional Array of Holes. JETP Letters, 2019, 110, 533-539.	1.4	4
39	Influence of the amplitude and phase nonlinearity of a spin-wave delay line on the wideband chaotic microwave generation. Technical Physics Letters, 2010, 36, 325-328.	0.7	3
40	Generation of chaotic microwave pulses with the help of passive synchronization of spin wave self-modulation frequencies in self-oscillatory ring systems. Technical Physics Letters, 2010, 36, 1042-1045.	0.7	3
41	Coupled spin waves in magnetic waveguides induced by elastic deformations in YIG piezoelectric structures. JETP Letters, 2017, 106, 465-469.	1.4	3
42	Spin wave filtration by resonances in the sidewalls of corrugated yttrium-iron garnet films. Journal of Magnetism and Magnetic Materials, 2022, 545, 168786.	2.3	3
43	Generation of chaotic dissipative solitons in active ring resonator with one-dimensional periodic ferromagnetic microstructure. Technical Physics Letters, 2011, 37, 1065-1069.	0.7	2
44	The influence of a metal on transverse characteristics of hybrid waves in a layered ferrite ferroelectric structure. Technical Physics Letters, 2016, 42, 486-490.	0.7	2
45	Functional Magnetic Metamaterials for Spintronics. Nanoscience and Technology, 2018, , 221-245.	1.5	2
46	Wideband chaotic microwave signal generation in a ring system with a nonlinear delay line on coupled ferromagnetic films. Technical Physics Letters, 2009, 35, 853-856.	0.7	1
47	Features of Dispersion Characteristics of Surface Spin Waves in Coupled Antiferromagnetic Films with Easy-Axis Anisotropy. Journal of Communications Technology and Electronics, 2018, 63, 1439-1443.	0.5	1
48	Spin waves transport in 3D magnonic waveguides. AIP Advances, 2021, 11, 035024.	1.3	1
49	Propagation of Two-Dimensional Soliton-Like Pulses in Coupled Ferromagnetic Structures. , 2007, , .		0
50	Chaotic MW signal responses in a self-oscillatory system with the nonlinear magnetostatic wave transmission line. , 2008, , .		0
51	Formation of two-dimensional channels of magnetostatic waves in coupled structures on ferromagnetic films. , 2008, , .		0
52	Discrete diffraction in network of magnonic crystals. Journal of Physics: Conference Series, 2018, 1124, 071006.	0.4	0
53	Functional Magnon Network Blocks Based on Structures with Translational Symmetry Violation. Technical Physics, 2019, 64, 1615-1621.	0.7	0
54	Voltage-controlled spin-wave intermodal coupling in lateral ensembles of magnetic stripes with patterned piezoelectric layer. AIP Advances, 2021, 11, 035316.	1.3	0

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55	Electric-Field-Controlled Spin-Wave Coupling in Lateral Ensembles of Magnetic Microstructures. <i>Physics of the Solid State</i> , 2021, 63, 1356-1360.	0.6	0