

Andriy Kuchko

List of Publications by Year in descending order

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29
papers

667
citations

567281

15
h-index

552781

26
g-index

29
all docs

29
docs citations

29
times ranked

514
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin wave interferometer employing a local nonuniformity of the effective magnetic field. Journal of Applied Physics, 2007, 101, 113919.	2.5	80
2	Propagation and scattering of spin waves in curved magnonic waveguides. Applied Physics Letters, 2012, 101, .	3.3	57
3	Spin-wave spectrum of a magnonic crystal with an isolated defect. Journal of Applied Physics, 2006, 99, 08C906.	2.5	52
4	Spin waves in a periodically layered magnetic nanowire. Journal of Applied Physics, 2005, 98, 014304.	2.5	49
5	Spectrum of spin waves propagating in a periodic magnetic structure. Physica B: Condensed Matter, 2003, 339, 130-133.	2.7	43
6	Damping of spin waves in a real magnonic crystal. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 302-303.	2.3	39
7	Spin wave spectrum of a magnonic crystal with an internally structured defect. Physica B: Condensed Matter, 2005, 370, 73-77.	2.7	39
8	Spectrum and reflection of spin waves in magnonic crystals with different interface profiles. Physical Review B, 2010, 81, .	3.2	37
9	Theory of linear spin wave emission from a Bloch domain wall. Physical Review B, 2017, 96, .	3.2	37
10	Magnetization boundary conditions at a ferromagnetic interface of finite thickness. Journal of Physics Condensed Matter, 2014, 26, 406001.	1.8	32
11	Micromagnetic method of s-parameter characterization of magnonic devices. Journal of Applied Physics, 2011, 109, .	2.5	29
12	Spin-wave spectrum of an ideal multilayer magnet upon modulation of all parameters of the Landau-Lifshitz equation. Physics of the Solid State, 2004, 46, 867-871.	0.6	28
13	Phenomenological description of the nonlocal magnetization relaxation in magnonics, spintronics, and domain-wall dynamics. Physical Review B, 2015, 92, .	3.2	28
14	Spin waves in a magnonic crystal with sine-like interfaces. Journal of Magnetism and Magnetic Materials, 2006, 307, 48-52.	2.3	21
15	Formation of the band spectrum of spin waves in 1D magnonic crystals with different types of interfacial boundary conditions. Journal Physics D: Applied Physics, 2017, 50, 094003.	2.8	18
16	An effect of the curvature induced anisotropy on the spectrum of spin waves in a curved magnetic nanowire. Low Temperature Physics, 2013, 39, 163-166.	0.6	14
17	Anomalous Refraction of Spin Waves as a Way to Guide Signals in Curved Magnonic Multimode Waveguides. Physical Review Applied, 2020, 13, .	3.8	13
18	Magnetic interfaces as sources of coherent spin waves. Physical Review B, 2018, 98, .	3.2	12

#	ARTICLE	IF	CITATIONS
19	Spin wave modes in a cylindrical nanowire in crossover dipolar-exchange regime. Journal Physics D: Applied Physics, 2019, 52, 075003.	2.8	9
20	Spin wave reflection from semi-infinite magnonic crystals with diffuse interfaces. Metamaterials, 2009, 3, 28-32.	2.2	7
21	Scattering of exchange spin waves from a helimagnetic layer sandwiched between two semi-infinite ferromagnetic media. Physical Review B, 2020, 102, .	3.2	6
22	Spectrum of spin waves in a magnonic crystal with a structure defect. Physics of Metals and Metallography, 2006, 101, 513-518.	1.0	4
23	Magnonic band spectrum of spin waves in an elliptical helix. Royal Society Open Science, 2018, 5, 172285.	2.4	4
24	Graded Magnonic Index and Spin Wave Fano Resonances in Magnetic Structures: Excite, Direct, Capture. , 2017, , 11-46.		4
25	Emission of coherent spin waves from a magnetic layer excited by a uniform microwave magnetic field. Journal Physics D: Applied Physics, 2019, 52, 135001.	2.8	3
26	Correlation between surface structure and magnetic properties of HTSC-ceramics. Chaos, Solitons and Fractals, 1996, 7, 91-92.	5.1	1
27	Scattering of spin waves by a rectilinear edge dislocation. Physics of the Solid State, 1998, 40, 1861-1863.	0.6	1
28	Modification of surface structure in the magnetic film-magnetic tip system of a scanning tunneling microscope. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 303-304.	2.3	0
29	Investigation of after-action effects in magnetic film by means of STM. Chaos, Solitons and Fractals, 1997, 8, 941-942.	5.1	0