

# 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	Scattering of exchange spin waves from a helimagnetic layer sandwiched between two semi-infinite ferromagnetic media. <i>Physical Review B</i> , 2020, 102, .	3.2	6
2	Anomalous Refraction of Spin Waves as a Way to Guide Signals in Curved Magnonic Multimode Waveguides. <i>Physical Review Applied</i> , 2020, 13, .	3.8	13
3	Emission of coherent spin waves from a magnetic layer excited by a uniform microwave magnetic field. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 135001.	2.8	3
4	Spin wave modes in a cylindrical nanowire in crossover dipolar-exchange regime. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 075003.	2.8	9
5	Magnonic band spectrum of spin waves in an elliptical helix. <i>Royal Society Open Science</i> , 2018, 5, 172285.	2.4	4
6	Magnetic interfaces as sources of coherent spin waves. <i>Physical Review B</i> , 2018, 98, .	3.2	12
7	Formation of the band spectrum of spin waves in 1D magnonic crystals with different types of interfacial boundary conditions. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 094003.	2.8	18
8	Theory of linear spin wave emission from a Bloch domain wall. <i>Physical Review B</i> , 2017, 96, .	3.2	37
9	Graded Magnonic Index and Spin Wave Fano Resonances in Magnetic Structures: Excite, Direct, Capture. , 2017, , 11-46.		4
10	Phenomenological description of the nonlocal magnetization relaxation in magnonics, spintronics, and domain-wall dynamics. <i>Physical Review B</i> , 2015, 92, .	3.2	28
11	Magnetization boundary conditions at a ferromagnetic interface of finite thickness. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 406001.	1.8	32
12	An effect of the curvature induced anisotropy on the spectrum of spin waves in a curved magnetic nanowire. <i>Low Temperature Physics</i> , 2013, 39, 163-166.	0.6	14
13	Propagation and scattering of spin waves in curved magnonic waveguides. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	57
14	Micromagnetic method of s-parameter characterization of magnonic devices. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	29
15	Spectrum and reflection of spin waves in magnonic crystals with different interface profiles. <i>Physical Review B</i> , 2010, 81, .	3.2	37
16	Spin wave reflection from semi-infinite magnonic crystals with diffuse interfaces. <i>Metamaterials</i> , 2009, 3, 28-32.	2.2	7
17	Spin wave interferometer employing a local nonuniformity of the effective magnetic field. <i>Journal of Applied Physics</i> , 2007, 101, 113919.	2.5	80
18	Spin-wave spectrum of a magnonic crystal with an isolated defect. <i>Journal of Applied Physics</i> , 2006, 99, 08C906.	2.5	52

#	ARTICLE	IF	CITATIONS
19	Spectrum of spin waves in a magnonic crystal with a structure defect. <i>Physics of Metals and Metallography</i> , 2006, 101, 513-518.	1.0	4
20	Spin waves in a magnonic crystal with sine-like interfaces. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 307, 48-52.	2.3	21
21	Spin wave spectrum of a magnonic crystal with an internally structured defect. <i>Physica B: Condensed Matter</i> , 2005, 370, 73-77.	2.7	39
22	Spin waves in a periodically layered magnetic nanowire. <i>Journal of Applied Physics</i> , 2005, 98, 014304.	2.5	49
23	Spin-wave spectrum of an ideal multilayer magnet upon modulation of all parameters of the Landau-Lifshitz equation. <i>Physics of the Solid State</i> , 2004, 46, 867-871.	0.6	28
24	Damping of spin waves in a real magnonic crystal. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 302-303.	2.3	39
25	Spectrum of spin waves propagating in a periodic magnetic structure. <i>Physica B: Condensed Matter</i> , 2003, 339, 130-133.	2.7	43
26	Scattering of spin waves by a rectilinear edge dislocation. <i>Physics of the Solid State</i> , 1998, 40, 1861-1863.	0.6	1
27	Investigation of after-action effects in magnetic film by means of STM. <i>Chaos, Solitons and Fractals</i> , 1997, 8, 941-942.	5.1	0
28	Modification of surface structure in the magnetic film-magnetic tip system of a scanning tunneling microscope. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 157-158, 303-304.	2.3	0
29	Correlation between surface structure and magnetic properties of HTSC-ceramics. <i>Chaos, Solitons and Fractals</i> , 1996, 7, 91-92.	5.1	1