Valentin Sakharov

List of Publications by Year
in descending order

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33	456	1163117 8	713466 21
papers	citations	h-index	g-index

33	33	33	491
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnonics: a new research area in spintronics and spin wave electronics. Physics-Uspekhi, 2015, 58, 1002-1028.	2.2	174
2	Route toward semiconductor magnonics: Light-induced spin-wave nonreciprocity in a YIG/GaAs structure. Physical Review B, 2019, 99, .	3.2	88
3	Standing spin waves in magnonic crystals. Journal of Applied Physics, 2013, 113, .	2.5	53
4	Spin waves in meander shaped YIG film: Toward 3D magnonics. Applied Physics Letters, 2020, 117, .	3.3	21
5	Magnetoelastic Waves in Submicron Yttriumâ€“Iron Garnet Films Manufactured by Means of Ion-Beam Sputtering onto Gadoliniumâ€“Gallium Garnet Substrates. Technical Physics, 2018, 63, 1029-1035.	0.7	20
6	Nonreciprocity of backward volume spin wave beams excited by the curved focusing transducer. Applied Physics Letters, 2018, 113, .	3.3	12
7	Enhanced Nonreciprocity of Magnetostatic Surface Waves in Yttrium-Iron-Garnet Films Deposited on Silicon Substrates by Ion-Beam Evaporation. IEEE Magnetics Letters, 2017, 8, 1-5.	1.1	11
8	Magnetostatic Surface Wave Dispersion and Losses in an Yttrium-Iron Garnet Film With a Subwavelength Periodic Structure. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	11
9	Collective and localized modes in 3D magnonic crystals. Journal of Magnetism and Magnetic Materials, 2019, 492, 165647.	2.3	8
10	High-frequency permeability of Ni and Co particle assemblies. Journal of Applied Physics, 2014, 115, .	2.5	6
11	Spin-wave excitations in YIG films grown on corrugated substrates. Journal of Physics: Conference Series, 2019, 1389, 012140.	0.4	6
12	Spin Waves in YIG-Based Networks: Logic and Signal Processing. Physics of Metals and Metallography, 2019, 120, 1318-1324.	1.0	6
13	Spin-waves generation at the thickness step of yttrium iron garnet film. Applied Physics Letters, 2020, 117, .	3.3	6
14	Propagation of Spin Waves in Microstructures Based on Yttriumâ€“Iron Garnet Films Decorated by a Ferromagnetic Metal. Physics of the Solid State, 2019, 61, 1614-1621.	0.6	5
15	Micromagnetic Modeling of Spin-Wave Excitations in Corrugated YIG Films. Physics of the Solid State, 2019, 61, 1602-1608.	0.6	5
16	Electrically Controlled Logical Switch Based on a Step Yttriumâ€“Iron Garnet Waveguide and a Piezoelectric Actuator. Technical Physics, 2019, 64, 984-986.	0.7	3
17	The Influence of Strains on the Ferromagnetic Resonance Spectrum of Submicron Yttrium Iron Garnet Films Obtained by Ion Beam Sputtering. Journal of Communications Technology and Electronics, 2019, 64, 1398-1406.	0.5	3
18	Interference of Spin Waves in Arrays of Microwaveguides Based on Yttrium-Iron Garnet Films. Technical Physics, 2019, 64, 1622-1628.	0.7	3

#	Article	IF	Citations
19	Surface Magnetostatic Waves in Yttriumâ€“Iron Garnet with the Surface Subwave Metastructure of a Permalloy Film. Physics of the Solid State, 2020, 62, 1659-1663.	0.6	3
20	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
21	Magnetoelastic Properties of Yttriumâ€“Iron Garnet Films Manufactured by Means of Ion-Beam Sputtering onto Si and GaAs Substrates. Technical Physics, 2020, 65, 1175-1180.	0.7	2
22	Propagation of Spin Waves in Ferrite Films with Metasurface. Acta Physica Polonica A, 2018, 133, 508-510.	0.5	2
23	Filtration of Surface Magnetostatic Waves in Yttrium Iron Garnet Films of Variable Width Excited by Focusing Transducers. Technical Physics Letters, 2018, 44, 705-708.	0.7	1
24	INFLUENCE OF INPUT SIGNAL POWER ON MAGNETOSTATIC SURFACE WAVES PROPAGATION IN YTTRIUM-IRON GARNET FILMS ON SILICON SUBSTRATES. Izvestiya Vysshikh Uchebnykh Zavedeniy Prikladnaya Nelineynaya Dinamika, 2017, 25, 35-51.	0.2	1
25	Micromagnetic modeling of nonlinear interaction of lateral magnetostatic modes in cross-shaped structures based on waveguides from iron yttrium garnet films. Izvestiya Vysshikh Uchebnykh Zavedeniy Prikladnaya Nelineynaya Dinamika, 2019, 27, 39-60.	0.2	1
26	EMF Generation by Propagating Magnetostatic Surface Waves in Integrated Thin-Film Pt/YIG Structure. Semiconductors, 2020, 54, 1721-1724.	0.5	1
27	Effect of Bias Voltage and Deposition Rate on the Structure and Coercivity of NiFe Films. Physics of the Solid State, 2020, 62, 2439-2444.	0.6	1
28	Fabrication of magnetic nanostructures using atomic force microscopy. , 2010, , .		0
29	Spectrum of the Ferromagnetic Resonance of a Lattice of Orthogonal Permalloy Microwaveguides. Journal of Communications Technology and Electronics, 2018, 63, 1047-1052.	0.5	0
30	Spin Waves Interference under Excitation by Focusing Transducers: Logic and Signal Processing. Semiconductors, 2020, 54, 1716-1720.	0.5	0
31	Effects of geometry of thin-film microwaveguides based on yttrium iron garnet and position of microantennas on characteristics of excitation and transmission of magnetostatic waves in them. Izvestiya of Saratov University, New Series: Physics, 2021, 21, 249-263.	0.1	0
32	Ð'Ð»Ð¸ÑÐ½Ð¸Ðµ Ð¿Ð°Ñ€Ð°Ð¼ÐµÑ‚Ñ€Ð¾Ð² Ð¿Ñ€Ð¾Ð²Ð¾Ð´ÑÑ‰Ð¸Ñ… Ð¿Ð¾Ð²ÐµÑ€Ñ…Ð½Ð¾ÑÑ‚ÐµÐ¹ Ð½Ð° Ñ€Ð°ÑÐ¿Ñ€Ð¾ÑÑ‚Ñ€Ð°Ð½ÐµÐ½Ð¸Ðµ Ð¿Ð¾		
33	Spin Waves Focused Beams in YIG Films. , 2020, , .		0