

Alexander Stognij

List of Publications by Year in descending order

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80
docs citations

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times ranked

844
citing authors

#	ARTICLE	IF	CITATIONS
1	Route toward semiconductor magnonics: Light-induced spin-wave nonreciprocity in a YIG/GaAs structure. <i>Physical Review B</i> , 2019, 99, .	1.1	88
2	Frequency selective tunable spin wave channeling in the magnonic network. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	46
3	Giant magnetoresistance in semiconductor/granular film heterostructures with cobalt nanoparticles. <i>Physical Review B</i> , 2009, 80, .	1.1	44
4	Magnonic band gaps in YIG-based one-dimensional magnonic crystals: An array of grooves versus an array of metallic stripes. <i>Physical Review B</i> , 2015, 91, .	1.1	43
5	Spin wave steering in three-dimensional magnonic networks. <i>Applied Physics Letters</i> , 2018, 112, 122404.	1.5	40
6	Growth and spin-wave properties of thin Y ₃ Fe ₅ O ₁₂ films on Si substrates. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	38
7	Properties of Mg(Fe ^{1-x} Ga ^x) ₂ O ₄ + $\hat{\Gamma}$ solid solutions in stable and metastable states. <i>Inorganic Materials</i> , 2010, 46, 429-433.	0.2	35
8	Wide tunability of magnetoplasmonic crystals due to excitation of multiple waveguide and plasmon modes. <i>Optics Express</i> , 2014, 22, 17762.	1.7	34
9	Oxide ferromagnetic semiconductors: coatings and films. <i>Russian Chemical Reviews</i> , 2012, 81, 458-475.	2.5	32
10	Nanoscale ion beam polishing of optical materials. <i>Technical Physics Letters</i> , 2002, 28, 17-20.	0.2	31
11	Synthesis, magnetic properties and spin-wave propagation in thin Y ₃ Fe ₅ O ₁₂ films sputtered on GaN-based substrates. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 485002.	1.3	24
12	Second-Harmonic Generation from a Magnetic Buried Interface Enhanced by an Interplay of Surface Plasma Resonances. <i>ACS Photonics</i> , 2015, 2, 20-26.	3.2	23
13	Giant nonlinear magneto-optical response of magnetoplasmonic crystals. <i>Physical Review B</i> , 2015, 91, .	1.1	22
14	Spin waves in meander shaped YIG film: Toward 3D magnonics. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	21
15	Preparation of ultrathin gold films by oxygen-ion sputtering and their optical properties. <i>Technical Physics</i> , 2003, 48, 745-748.	0.2	18
16	Brillouin light scattering observation of the transition from the superparamagnetic to the superferromagnetic state in nanogranular (SiO ₂)Co films. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	18
17	High-quality Au/BIG/GGG magnetoplasmonic crystals fabricated by a combined ion-beam etching technique. <i>Optical Materials Express</i> , 2015, 5, 1647.	1.6	16
18	Surface plasmon-driven second-harmonic generation asymmetry in anisotropic plasmonic crystals. <i>Physical Review B</i> , 2016, 93, .	1.1	15

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19	Spin-wave filters based on thin Y ₃ Fe ₅ O ₁₂ films on Gd ₃ Ga ₅ O ₁₂ and Si substrates for microwave applications. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	13
20	Controlled growth of Co nanofilms on Si(100) by ion-beam deposition. <i>Inorganic Materials</i> , 2011, 47, 869-875.	0.2	12
21	Fabrication of a plane-parallel interface in Ni/PbZr _{0.2} Ti _{0.8} O ₃ heterostructures. <i>Inorganic Materials</i> , 2012, 48, 832-835.	0.2	12
22	Effect of cobalt layer thickness on the magnetoelectric properties of Co/PbZr _{0.45} Ti _{0.55} O ₃ /Co heterostructures. <i>Inorganic Materials</i> , 2013, 49, 1011-1014.	0.2	12
23	Growth of Y ₃ Fe ₅ O ₁₂ films on Si with AlO _x and SiO ₂ buffer layers by ion beam sputtering. <i>Inorganic Materials</i> , 2017, 53, 1069-1074.	0.2	12
24	Magnetoplasmonic crystal waveguide. <i>Optics Express</i> , 2018, 26, 21086.	1.7	12
25	Properties of Mg(Fe _{0.8} Ga _{0.2}) ₂ O ₄ + $\hat{\Gamma}$ ceramics and films. <i>Inorganic Materials</i> , 2011, 47, 204-207.	0.2	11
26	Growth and structure of Mg(Fe _{0.8} Ga _{0.2}) ₂ O ₄ + $\hat{\Gamma}$ films. <i>Inorganic Materials</i> , 2011, 47, 1025-1028.	0.2	11
27	Ion-beam sputtering deposition and magnetoelectric properties of layered heterostructures (FM/PZT/FM) _n , where FM $\hat{=}$ Co or Ni ₇₈ Fe ₂₂ . <i>EPJ Applied Physics</i> , 2013, 63, 21301.	0.3	10
28	Effect of interfaces on the magnetoelectric properties of Co/PZT/Co heterostructures. <i>Inorganic Materials</i> , 2014, 50, 280-284.	0.2	10
29	Magnetic properties, spin waves and interaction between spin excitations and 2D electrons in interface layer in Y ₃ Fe ₅ O ₁₂ /AlO _x /GaAs-heterostructures. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 355002.	1.3	10
30	Separate cobalt-copper interface smoothing under the action of low-energy argon ion bombardment. <i>Technical Physics Letters</i> , 2003, 29, 43-46.	0.2	9
31	Spin-wave modes in granular superferromagnetic $\frac{11}{10} \text{SiO}_2$ observed using Brillouin light scattering. <i>Physical Review B</i> , 2008, 78, .	1.1	9
32	Crystal structure and magnetic properties of nanosized Mg(Fe _{0.8} Ga _{0.2}) ₂ O ₄ - $\hat{\Gamma}$ films on Si substrates. <i>Crystallography Reports</i> , 2013, 58, 498-504.	0.1	9
33	The Synthesis of Metal Oxide Films from Compound Powder Targets. <i>Materials Research Society Symposia Proceedings</i> , 1991, 236, 331.	0.1	8
34	Ion-beam engineering of Co/TiO ₂ multilayer nanostructures. <i>Technical Physics Letters</i> , 2010, 36, 426-429.	0.2	8
35	Preparation of magnonic crystals with nanoislands by focused ion beam etching. <i>Inorganic Materials</i> , 2012, 48, 1190-1192.	0.2	8
36	Magnetic properties of cobalt films at the initial stage of ion-beam deposition. <i>Technical Physics Letters</i> , 2009, 35, 528-531.	0.2	6

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37	Influence of the state of interfaces on the magnitude of the magnetoelectric effect in Co (Ni) films on PbZr _{0.45} Ti _{0.55} O ₃ and GaAs substrates. <i>Inorganic Materials</i> , 2016, 52, 1070-1076.	0.2	6
38	Spin-wave excitations in YIG films grown on corrugated substrates. <i>Journal of Physics: Conference Series</i> , 2019, 1389, 012140.	0.3	6
39	Spin-waves generation at the thickness step of yttrium iron garnet film. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	6
40	Magnetism of a cobalt-gold planar nanostructure on the silicon surface. <i>Journal of Experimental and Theoretical Physics</i> , 2009, 109, 107-116.	0.2	5
41	DMS solutions Mg(Fe _{1-x} Ga _x) ₂ O ₄ . <i>Doklady Physical Chemistry</i> , 2010, 430, 39-42.	0.2	5
42	Materials science perspectives for oxide ferromagnetic semiconductors. <i>Inorganic Materials</i> , 2010, 46, 1437-1458.	0.2	5
43	Investigation of the SiO ₂ (Co)/GaAs heterostructures using the surface scattering of synchrotron radiation. <i>JETP Letters</i> , 2010, 92, 767-773.	0.4	5
44	Negative photoconductance in SiO ₂ (Co)/GaAs heterostructure in the avalanche regime. <i>Applied Physics Letters</i> , 2012, 101, 242104.	1.5	5
45	Effect of magnetic field enhancement of the photocurrent in ferromagnetic metal-dielectric heterostructures SiO ₂ (Co)/GaAs. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	5
46	An Ion-Beam Apparatus for the Surface Planarization of Oxide Materials. <i>Instruments and Experimental Techniques</i> , 2002, 45, 141-145.	0.1	4
47	A method for monitoring thicknesses of nanodimensional bilayer film structures. <i>Technical Physics Letters</i> , 2003, 29, 147-150.	0.2	4
48	Magnetic properties of the SiO ₂ (Co)/GaAs interface: Polarized neutron reflectometry and SQUID magnetometry. <i>Physical Review B</i> , 2012, 86, .	1.1	4
49	Growth and Properties of Y ₃ Fe ₅ O ₁₂ Films on LiNbO ₃ Substrates. <i>Inorganic Materials</i> , 2020, 56, 847-853.	0.2	4
50	Inhomogeneous character of the initial stage of ion beam deposition of ultrathin gold films. <i>Technical Physics Letters</i> , 2004, 30, 256-258.	0.2	3
51	The production and structure of submicrometer Eu _{0.75} Fe _{0.25} O films on InSb, Si, and GaAs substrates. <i>Inorganic Materials</i> , 2009, 45, 254-257.	0.2	3
52	On the Visualization of the Magnetoelectric Coupling Region for a Thin Ferromagnetic Layer on a Ferroelectric Substrate. <i>Inorganic Materials</i> , 2019, 55, 284-289.	0.2	3
53	Spin wave filtration by resonances in the sidewalls of corrugated yttrium-iron garnet films. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 545, 168786.	1.0	3
54	A Wide-Aperture Source of Oxygen Ions with a Hollow Cold Cathode and Magnetic Multicast. <i>Instruments and Experimental Techniques</i> , 2000, 43, 783-786.	0.1	2

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55	Cobalt redistribution over the surface of inhomogeneous cobalt-copper alloy films. Technical Physics, 2003, 48, 496-502.	0.2	2
56	Magneto- and electroinduced effects in optical second-harmonic generation from a planar Au/Co/Si nanostructure. Applied Physics Letters, 2013, 103, 151606.	1.5	2
57	Magnetoelastic Properties of Yttrium-iron Garnet Films Manufactured by Means of Ion-Beam Sputtering onto Si and GaAs Substrates. Technical Physics, 2020, 65, 1175-1180.	0.2	2
58	Reactive Ion-Beam Etching of Thick Polyimide Layers in an Oxygen + Argon Mixture. Russian Microelectronics, 2001, 30, 330-334.	0.1	1
59	The formation of volume elements for microelectromechanical systems in polyimide by method of reactive ion beam etching. Technical Physics Letters, 2001, 27, 90-92.	0.2	1
60	Low-temperature oxidation of CoCu films with long-term irradiation by oxygen ion beams. Technical Physics, 2001, 46, 729-735.	0.2	1
61	Beam-plasma mechanism for anode plasma generation in a low-pressure two-stage self-sustained discharge with a cold hollow cathode. Technical Physics, 2003, 48, 1145-1150.	0.2	1
62	Magnetoplasmonic crystals: Resonant linear and nonlinear magneto-optical effects. Physics of the Solid State, 2016, 58, 2251-2255.	0.2	1
63	Magnetolectric Effect in Co/PbZr _{0.45} Ti _{0.55} O ₃ Heterostructures with a Shaped Interface. Inorganic Materials, 2019, 55, 968-973.	0.2	1
64	Relaxation processes of the light-induced giant injection magnetoresistance in semiconductor/granular-film heterostructures with cobalt nanoparticles. Physical Review B, 2019, 99, .	1.1	1
65	Abnormal Magnetic Properties of Granular Co-SiO ₂ /GaAs Nanostructures at the Percolation Threshold Region. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz) Tj ETQq1 1 0.784214 rgBf /Overlock	0.1	1
66	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.	0.1	1
67	Hollow Cold Cathode Ion Source for Reactive Ion-Beam Etching. Materials Research Society Symposia Proceedings, 1989, 158, 413.	0.1	0
68	An Ion-Beam Apparatus for the Formation of Oxide Films by the Oxygen Ion Sputtering Technique. Instruments and Experimental Techniques, 2001, 44, 420-423.	0.1	0
69	Modification of the shape of large germanium nanoislands on silicon surface by low-energy ion bombardment. Technical Physics Letters, 2004, 30, 429-431.	0.2	0
70	An Ion Source with an Open-End Small-Sized Anode. Instruments and Experimental Techniques, 2005, 48, 411-413.	0.1	0
71	Modification of radiation hardness of silicon p-n junction photodiodes by hydrogen plasma treatment. Journal of Materials Science, 2005, 40, 1399-1403.	1.7	0
72	Ba _{0.8} Sr _{0.2} TiO ₃ ferroelectric nanofilms on silicon buffered with a TiO ₂ layer. Inorganic Materials, 2012, 48, 619-621.	0.2	0

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73	Exchange spin waves exciting in yttrium-iron garnet films with surface microstructure. , 2014, , .		0
74	Surface-plasmon enabled control over magnetization dynamics in hybrid magnetoplasmonic crystals. , 2017, , .		0
75	ELECTRICAL AND OPTICAL PROPERTIES OF AlGaIn/GaN HEMT STRUCTURES WITH 2-DIMENSIONAL ELECTRON GAS GROWN BY MOCVD ON SAPPHIRE AND Si (111) SUBSTRATES. , 2005, , .		0
76	GIANT INJECTION MAGNETORESISTANCE IN THE HETEROSTRUCTURE GaAs/GRANULAR FILM WITH COBALT NANOPARTICLES. , 2005, , .		0
77	ELECTRICAL AND OPTICAL PROPERTIES OF AlGaIn/GaN HETEROSTRUCTURES WITH 2D ELECTRON GAS GROWN BY MOCVD ON Si (111) SUBSTRATES. , 2007, , .		0
78	Application of titanium dioxide barrier layers for the ferromagnetic/ferroelectric multiferroics formation. Proceedings of the National Academy of Sciences of Belarus Physical-Technical Series, 2020, 65, 145-152.	0.1	0