

Boris A Belyaev

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134
papers

652
citations

12
h-index

18
g-index

158
ext. papers

798
ext. citations

1
avg, IF

4.17
L-index

#	Paper	IF	Citations
134	Magnetic imaging in thin magnetic films by local spectrometer of ferromagnetic resonance. <i>IEEE Sensors Journal</i> , 2005 , 5, 260-267	4	28
133	Study of the structural and magnetic characteristics of epitaxial Fe ₃ Si/Si(111) films. <i>JETP Letters</i> , 2014 , 99, 527-530	1.2	23
132	Ferromagnetic resonance study of the effect of elastic stresses on the anisotropy of magnetic films. <i>Physics of the Solid State</i> , 2007 , 49, 1731-1739	0.8	23
131	Solid-state synthesis and magnetic properties of epitaxial FePd ₃ (001) films. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 1571-1574	2.8	19
130	Singularity in high-frequency susceptibility of thin magnetic films with uniaxial anisotropy. <i>JETP Letters</i> , 2001 , 74, 226-230	1.2	19
129	Competing magnetic anisotropies in obliquely deposited thin permalloy film. <i>Physica B: Condensed Matter</i> , 2016 , 481, 86-90	2.8	18
128	Micromagnetic calculation of the equilibrium distribution of magnetic moments in thin films. <i>Physics of the Solid State</i> , 2010 , 52, 1664-1672	0.8	18
127	A magnetometer of weak quasi-stationary and high-frequency fields on resonator microstrip transducers with thin magnetic fields. <i>Instruments and Experimental Techniques</i> , 2016 , 59, 425-432	0.5	14
126	Impedance spectroscopy investigation of electrophysical characteristics of the electrode-liquid crystal interface. <i>Physics of the Solid State</i> , 2015 , 57, 181-187	0.8	13
125	Synthesis and study of the magnetic characteristics of nanocrystalline cobalt films. <i>Physics of the Solid State</i> , 2008 , 50, 676-683	0.8	13
124	Study of the Q factor of the impurity resonance mode in the microstrip model of a 1D photonic crystal. <i>Doklady Physics</i> , 2005 , 50, 337-342	0.8	13
123	Magnetically Tunable Resonant Phase Shifters for UHF Band. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-5	2	12
122	Dielectric properties of liquid crystals of the cyano derivative compounds with different fragments in the molecular core. <i>Physics of the Solid State</i> , 2004 , 46, 574-578	0.8	12
121	Electrodynamic Calculation of Effective Electromagnetic Parameters of a Dielectric Medium with Metallic Nanoparticles of a Given Size. <i>Journal of Experimental and Theoretical Physics</i> , 2018 , 127, 608-619		12
120	Impedance spectroscopy investigation of liquid crystals doped with ionic surfactants. <i>Physics of the Solid State</i> , 2014 , 56, 1455-1462	0.8	11
119	Design of optical bandpass filters based on a two-material multilayer structure. <i>Optics Letters</i> , 2014 , 39, 3512-5	3	11
118	Dielectric anisotropy of 5CB liquid crystal in a decimeter wavelength range. <i>Physics of the Solid State</i> , 2000 , 42, 577-579	0.8	11

117	Novel High-Quality Compact Microstrip Resonator and its Application to Bandpass Filter. <i>IEEE Microwave and Wireless Components Letters</i> , 2015 , 25, 579-581	2.6	9
116	Investigation of microstrip structures of wideband bandpass filters. <i>Doklady Physics</i> , 2015 , 60, 95-101	0.8	9
115	Experimental study of the magnetic characteristics of nanocrystalline thin films: the role of edge effects. <i>Materials Research Express</i> , 2019 , 6, 116105	1.7	9
114	Implementation of cross couplings in microwave bandpass filters. <i>Microwave and Optical Technology Letters</i> , 2014 , 56, 2021-2025	1.2	9
113	Miniature bandpass filter with a wide stopband up to 40F0. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 1117-1118	1.2	9
112	Kinetics of olefin metathesis on binary and ternary catalytic systems based on MoCl ₅ /SiO ₂ : Determination of the number of active centers and the mechanisms of their formation, deactivation, and reactivation. <i>Kinetics and Catalysis</i> , 2008 , 49, 11-17	1.5	9
111	Selective properties of microstrip filters designed on quarter-wave codirectional hairpin resonators. <i>Journal of Communications Technology and Electronics</i> , 2006 , 51, 20-30	0.5	9
110	Multilayer bandpass filter with extended lower and upper stop bands. <i>Optics Letters</i> , 2015 , 40, 4333-5	3	8
109	One-dimensional photonic crystal bandpass filters. <i>Doklady Physics</i> , 2014 , 59, 73-78	0.8	8
108	Micromagnetic calculation of magnetostatic oscillation modes of an orthogonally magnetized disk of yttrium iron garnet. <i>Physics of the Solid State</i> , 2013 , 55, 2491-2500	0.8	8
107	Investigation of frequency-selective devices based on a microstrip 2D photonic crystal. <i>Doklady Physics</i> , 2016 , 61, 155-159	0.8	7
106	Design of bandpass filters composed of dielectric layers separated by gratings of strip conductors. <i>Optics Letters</i> , 2016 , 41, 536-9	3	7
105	Analysis of the quality factor of the optical half-wavelength resonator. <i>Microwave and Optical Technology Letters</i> , 2013 , 55, 1613-1616	1.2	7
104	New active heterogeneous olefin metathesis catalyst based on molybdenum oxotetrachloride. <i>Kinetics and Catalysis</i> , 2010 , 51, 615-615	1.5	7
103	Study of microstrip models of bandpass filters based on 1D photonic crystals. <i>Doklady Physics</i> , 2005 , 50, 7-11	0.8	7
102	DIELECTRIC ANISOTROPY OF NEMATIC 4-PENTIL-4'-CYANOBIPHENYL. <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 366, 305-312		7
101	Nonlinear Behavior of Plasma Antenna Vibrator. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 1552-1558	3	6
100	An optical bandpass filter based on a three-component multilayer structure. <i>Doklady Physics</i> , 2014 , 59, 245-248	0.8	6

- 99 A Dual-Mode Split Microstrip Resonator and Its Applications in Frequency Selective Devices. *Microwave and Optical Technology Letters*, **2013**, 55, 2186-2190 1.2 6
- 98 PLANAR BANDPASS FILTER WITH 100-DB SUPPRESSION UP TO TENFOLD PASSBAND FREQUENCY. *Progress in Electromagnetics Research C*, **2014**, 48, 37-44 0.9 6
- 97 HIGHLY SELECTIVE SUSPENDED STRIPLINE DUAL-MODE FILTER. *Progress in Electromagnetics Research Letters*, **2011**, 25, 57-66 0.5 6
- 96 MINIATURE SUSPENDED-SUBSTRATE BANDPASS FILTER. *Progress in Electromagnetics Research C*, **2010**, 15, 219-231 0.9 6
- 95 Study of microstrip models of band-pass filters based on superlattices. *Doklady Physics*, **2004**, 49, 213-217.8 6
- 94 Strain-Gradient-Induced Unidirectional Magnetic Anisotropy in Nanocrystalline Thin Permalloy Films. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 1900467 2.5 6
- 93 Diffraction of Electromagnetic Waves on a One-Dimensional Strip Conductor Grating Located at the Interface Between Dielectric Media. *Russian Physics Journal*, **2015**, 58, 646-657 0.7 5
- 92 Miniature coaxial resonator and related bandpass filter with ultra-wide stopband. *Technical Physics Letters*, **2012**, 38, 47-50 0.7 5
- 91 A new design of a miniature microstrip resonator with interdigital structure. *Technical Physics Letters*, **2014**, 40, 1010-1013 0.7 5
- 90 A microstrip diplexer based on dual-mode resonators. *Technical Physics Letters*, **2012**, 38, 743-746 0.7 5
- 89 A method for computing the microwave absorption spectrum in a discrete model of a ferromagnetic. *Russian Physics Journal*, **2011**, 53, 900-905 0.7 5
- 88 Analysis of the coupling coefficients of stripline resonators in the designs of suspended-substrate filters. *Journal of Communications Technology and Electronics*, **2010**, 55, 1330-1339 0.5 5
- 87 The Method for Microstrip Filters Parametric Synthesis **2006**, 5
- 86 Analysis of microstrip analogues of bandpass filters on one-dimensional photonic crystals. *Journal of Communications Technology and Electronics*, **2006**, 51, 653-659 0.5 5
- 85 High-frequency dielectric spectra from liquid crystals of series nCB and nOCB. *Technical Physics*, **2002**, 47, 470-473 0.5 5
- 84 FMR study of the anisotropic properties of an epitaxial Fe₃Si film on a Si(111) vicinal surface. *JETP Letters*, **2016**, 103, 41-45 1.2 5
- 83 Study of Peculiarities of the Microwave Absorption Spectrum of Nanocrystalline Thin Magnetic Films. *Russian Physics Journal*, **2019**, 61, 1798-1805 0.7 5
- 82 Study of the Weak Field Sensor on the Resonant Microstrip Structure with a Thin Ferromagnetic Film. *Russian Physics Journal*, **2018**, 61, 1367-1375 0.7 5

81	A new design of a miniature filter on microstrip resonators with an interdigital structure of conductors. <i>Technical Physics Letters</i> , 2015 , 41, 504-507	0.7	4
80	Study of the fields scattered by a periodic strip structure of thin magnetic films. <i>Physics of the Solid State</i> , 2016 , 58, 55-61	0.8	4
79	A Microwave Bandpass Filter on Dielectric Layers with Metal Grids. <i>Technical Physics Letters</i> , 2018 , 44, 408-411	0.7	4
78	Kinetics of Olefin metathesis over the heterogeneous catalytic system (MoOCl ₄ /SiO ₂)-SnMe ₄ . <i>Kinetics and Catalysis</i> , 2012 , 53, 353-356	1.5	4
77	Stripline Bandpass Filter with Wide Stopband and Rejection Level Up to 100 dB. <i>Microwave and Optical Technology Letters</i> , 2013 , 55, 2866-2869	1.2	4
76	Miniature bandpass microwave filter with interference suppression by more than 100 dB in a wide rejection band. <i>Technical Physics Letters</i> , 2013 , 39, 690-693	0.7	4
75	A miniature dual-band filter based on microstrip dual-mode resonators. <i>Technical Physics Letters</i> , 2012 , 38, 839-842	0.7	4
74	Activity and stereoselectivity of heterogeneous molybdenum-and tungsten-containing catalytic systems in Olefin metathesis. <i>Petroleum Chemistry</i> , 2006 , 46, 110-112	1.1	4
73	Specific features of the approximation of the dielectric spectra of alkylcyanobiphenyl liquid crystals. <i>Physics of the Solid State</i> , 2003 , 45, 598-602	0.8	4
72	Temperature dependence of the dielectric characteristics of a 5CB liquid crystal within the relaxation region. <i>Physics of the Solid State</i> , 2005 , 47, 765	0.8	4
71	Micromagnetic Analysis of Edge Effects in a Thin Magnetic Film during Local Excitation of Magnetization Oscillations. <i>Russian Physics Journal</i> , 2020 , 63, 837-843	0.7	4
70	Olefin metathesis catalyst systems based on molybdenum halides and organosilicon compounds. <i>Petroleum Chemistry</i> , 2016 , 56, 121-124	1.1	4
69	Magnetic Properties of Permalloy Thin Film Edges. <i>Russian Physics Journal</i> , 2020 , 63, 16-22	0.7	3
68	Impedance Spectroscopy Study of the Electrical Properties of Cation-Substituted Barium Hexaaluminate Ceramics. <i>Physics of the Solid State</i> , 2018 , 60, 274-280	0.8	3
67	Growth Simulation and Structure Analysis of Obliquely Deposited Thin Films. <i>Russian Physics Journal</i> , 2016 , 59, 301-307	0.7	3
66	Bandpass filter with an ultra-wide stopband designed on miniaturized coaxial resonators. <i>Journal of Communications Technology and Electronics</i> , 2013 , 58, 110-117	0.5	3
65	Scattering of electromagnetic waves by a metal lattice placed at the interface of two media. <i>Journal of Communications Technology and Electronics</i> , 2017 , 62, 750-758	0.5	3
64	Multilayered multiconductor stripline resonator and its application to bandpass filter with wide stopband. <i>Microwave and Optical Technology Letters</i> , 2017 , 59, 2212-2216	1.2	3

63	A weak-field magnetometer based on a resonator microstrip transducer with thin magnetic films. <i>Technical Physics Letters</i> , 2015 , 41, 324-327	0.7	3
62	Frequency-selective properties of a microstrip filter with irregular dual-mode resonators. <i>Journal of Communications Technology and Electronics</i> , 2010 , 55, 621-626	0.5	3
61	Physical principles of the design of electrically controllable microstrip devices. <i>Russian Physics Journal</i> , 2008 , 51, 919-929	0.7	3
60	Controllable liquid-crystal microwave phase shifter. <i>Technical Physics Letters</i> , 2008 , 34, 463-466	0.7	3
59	The study of exchange coupling in NiFe/Cu/IrMn trilayer structures by MOKE and FMR measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 304, e62-e64	2.8	3
58	Coupling Coefficient of Irregular Microstrip Resonators. <i>Radiophysics and Quantum Electronics</i> , 2000 , 43, 649-653	0.7	3
57	Binary and Ternary Catalytic Systems for Olefin Metathesis Based on MoCl ₅ /SiO ₂ . <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010 , 115-125	0.1	3
56	Resonances of electromagnetic oscillations in a spherical metal nanoparticle. <i>Microwave and Optical Technology Letters</i> , 2016 , 58, 1883-1886	1.2	3
55	A miniature filter on a suspended substrate with a two-sided pattern of strip conductors. <i>Technical Physics Letters</i> , 2016 , 42, 622-625	0.7	2
54	Cyclododecene comethathesis with hexene-1 on the MoCl ₅ /SiO ₂ /Me ₄ Sn catalytic system. <i>Petroleum Chemistry</i> , 2016 , 56, 62-64	1.1	2
53	Reflective Power Limiter for X-Band With HTSC Switching Element. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-6	1.8	2
52	Investigation of microstrip band-pass filters based on 2D electromagnetic crystal 2018 ,		2
51	Scattering of Electromagnetic Waves on a Subwave Lattice of Square Strip Conductors. <i>Journal of Communications Technology and Electronics</i> , 2019 , 64, 664-674	0.5	2
50	A Lowpass Filter Based on a 2D Microstrip Electromagnetic Crystal. <i>Doklady Physics</i> , 2019 , 64, 85-89	0.8	2
49	Investigation of the Q-Factor of Optical Resonators in Photonic Crystals and Principles of Designing Highly Selective Filters on Their Basis. <i>Russian Physics Journal</i> , 2014 , 56, 1378-1386	0.7	2
48	Impedance spectra of thin permalloy films with a nanoisland structure. <i>Physics of the Solid State</i> , 2012 , 54, 360-367	0.8	2
47	Receiver protecting device based on microstrip structure with high-temperature superconductor film. <i>Technical Physics Letters</i> , 2012 , 38, 211-214	0.7	2
46	Investigation of one-dimensional photonic crystal structures with two sublattices in microwaves. <i>Russian Physics Journal</i> , 2013 , 55, 861-868	0.7	2

45	A three-mode microstrip resonator and a miniature ultra-wideband filter based on it. <i>Doklady Physics</i> , 2017 , 62, 289-293	0.8	2
44	HIGH-QUALITY COMPACT INTERDIGITAL MICROSTRIP RESONATOR AND ITS APPLICATION TO BANDPASS FILTER. <i>Progress in Electromagnetics Research C</i> , 2017 , 72, 91-103	0.9	2
43	Dielectric properties of liquid crystals in polycapillary matrices. <i>Physics of the Solid State</i> , 2010 , 52, 1315-1322	1.3	2
42	A study of the microwave dielectric permittivity of liquid crystals in electric and magnetic fields. <i>Technical Physics</i> , 1998 , 43, 105-109	0.5	2
41	Automated Coordinatograph for Manufacture of Microstrip Circuits 2006 ,		2
40	Resonance sensors for measuring dielectric spectra of liquid crystals in a wide frequency range. <i>Instruments and Experimental Techniques</i> , 2006 , 49, 696-702	0.5	2
39	Reconstruction of the distribution function of relaxation times for 7CB and 7OCB liquid crystals from dielectric spectra. <i>Physics of the Solid State</i> , 2006 , 48, 973-978	0.8	2
38	Distribution function of relaxation times for a 4-n-pentyl-4'-cyanobiphenyl liquid crystal. <i>Physics of the Solid State</i> , 2005 , 47, 1791	0.8	2
37	A Microstrip Thin-Film Low-Field Magnetic Transducer. <i>Russian Microelectronics</i> , 2001 , 30, 195-202	0.5	2
36	Inspection Probes of a Ferromagnetic Resonance Scanning Spectrometer. <i>Instruments and Experimental Techniques</i> , 2021 , 64, 277-284	0.5	2
35	Two-Magnon Relaxation Processes in Nanocrystalline Thin Magnetic Films. <i>Russian Physics Journal</i> , 2019 , 61, 2313-2320	0.7	1
34	A Highly Selective Stripline Lowpass Filter with More Than 100-dB Wide Stopband Attenuation. <i>Technical Physics Letters</i> , 2020 , 46, 364-367	0.7	1
33	The Effect of Oblique Deposition with Small Incidence on Magnetic Properties of Thin Magnetic Films. <i>Solid State Phenomena</i> , 2014 , 215, 223-226	0.4	1
32	Thin Magnetic Films with Artificial Texture on Substrate: Microwave Properties. <i>Solid State Phenomena</i> , 2014 , 215, 233-236	0.4	1
31	Specific features of the dielectric spectra of the liquid crystal 5CB in the decimeter wavelength range. <i>JETP Letters</i> , 1997 , 66, 271-274	1.2	1
30	Dielectric relaxation of trans-4-propyl-(4-cyanophenyl)-cyclohexane liquid crystals. <i>Physics of the Solid State</i> , 2004 , 46, 579-583	0.8	1
29	Ferromagnetic resonance features in anisotropic magnetic films with a metastable state of magnetic moment. <i>JETP Letters</i> , 2002 , 76, 175-179	1.2	1
28	Coupling coefficients of irregular microstrip resonators and selective properties of filters on their basis		1

27	Permittivity of liquid crystals of the alkylcyanobiphenyl group in a decimeter wavelength range. <i>Physics of the Solid State</i> , 2000 , 42, 987-989	0.8	1
26	Use of an irregular microstrip resonator to investigate microwave properties of dielectrics with broad conductivity ranges. <i>Measurement Techniques</i> , 1992 , 35, 992-994	0.4	1
25	A Bandpass Filter Polarizer Based on a Dielectric Multilayer with Strip Conductor Gratings. <i>Doklady Physics</i> , 2020 , 65, 225-229	0.8	1
24	An Ultra-Wideband Stripline Bandpass Filter with a Noise Suppression Level of More than 100 dB. <i>Technical Physics Letters</i> , 2020 , 46, 787-791	0.7	1
23	A New Preparation Method for the Alkylation Catalysts of Aromatic Compounds Based on Immobilized AlCl ₃ . <i>Kinetics and Catalysis</i> , 2021 , 62, 328-330	1.5	1
22	Theoretical Study of the Frequency Multiplier Based on Irregular Quarter-Wavelength Microstrip Resonator with Thin Magnetic Film. <i>Russian Physics Journal</i> , 2021 , 63, 1447-1460	0.7	1
21	New Heterogeneous Alkylation Catalysts Based on Niobium Pentachloride. <i>Kinetics and Catalysis</i> , 2018 , 59, 688-689	1.5	1
20	A Highly Selective Bandpass Filter Based on Suspended Substrate Resonators with a Two-Sided Stripline Pattern. <i>Technical Physics Letters</i> , 2019 , 45, 485-488	0.7	0
19	Investigation of the special features of the coupling coefficients for microstrip asymmetric hairpin resonators at frequencies of the second passband. <i>Russian Physics Journal</i> , 2013 , 55, 1215-1221	0.7	0
18	Microstrip resonator for nonlinearity investigation of thin magnetic films and magnetic frequency doubler. <i>Review of Scientific Instruments</i> , 2020 , 91, 114705	1.7	0
17	Structure Constant and Grain Size Determination by Ferromagnetic Resonance in Thin Magnetic Films. <i>Russian Physics Journal</i> , 2021 , 64, 1-8	0.7	0
16	Study of a Composite Consisting of Metal Nanoparticles in a Dielectric Matrix and Multilayer Bandpass Filters Based on It. <i>Doklady Physics</i> , 2021 , 66, 59-63	0.8	0
15	A Monolithic Miniature Multi-Conductor Strip-Resonator Bandpass Filter. <i>Technical Physics Letters</i> , 2021 , 47, 645-648	0.7	0
14	Broadband microstrip antenna with a hairpin bandpass filter. <i>Technical Physics Letters</i> , 2015 , 41, 238-241	0.7	0
13	Microstrip filters based on 2D electromagnetic crystal. <i>Journal of Physics: Conference Series</i> , 2017 , 929, 012026	0.3	0
12	8-order filter based on 2-D photonic crystal with dual-mode microstrip resonators. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 255, 012020	0.4	0
11	Stereochemical features of 1,7-octadiene metathesis on the MoCl ₅ /SiO ₂ /Me ₄ Sn catalytic system. <i>Petroleum Chemistry</i> , 2015 , 55, 549-551	1.1	0
10	Anisotropy characteristics in a Permalloy film induced by a nonuniform magnetic field. <i>Physics of the Solid State</i> , 1998 , 40, 1175-1177	0.8	0

- 9 Investigation of the coupling coefficients of stripline resonators in combine filters on a suspended substrate. *Journal of Communications Technology and Electronics*, **2008**, 53, 406-414 0.5
- 8 Chloro(1-methoxymethyl-allyl)(pyridine- η^1)palladium(II). *Acta Crystallographica Section E: Structure Reports Online*, **2004**, 60, m300-m301
- 7 Dielectric and optical properties of a 5-propyl-2-(p-cyanophenyl)-pyridine liquid crystal. *Physics of the Solid State*, **2003**, 45, 797-801 0.8
- 6 Domain Structure and Magnetization Reversal in Multilayer Structures Consisting of Thin Permalloy Films Separated with Nonmagnetic Interlayers. *Russian Physics Journal*, **2021**, 64, 1160 0.7
- 5 A Bandpass Filter Based on Dielectric Layers with a Strip Conductor Subwavelength Grating at Their Interfaces. *Doklady Physics*, **2020**, 65, 343-348 0.8
- 4 Study of an Electromagnetic Wave Transmission Line Based on Coupled Dielectric Resonators. *Doklady Physics*, **2019**, 64, 409-413 0.8
- 3 Investigation of microstrip ultra-wideband bandpass filters. *Journal of Physics: Conference Series*, **2020**, 1488, 012012 0.3
- 2 Investigation of 3D ultra-wideband bandpass filter model based on microstrip multimode resonators. *Journal of Physics: Conference Series*, **2021**, 1745, 012064 0.3
- 1 The SHF dielectric permeability of polyhydroxybutyrate, a degradable biological polymer. *Doklady Biophysics: Proceedings of the Academy of Sciences of the USSR, Biophysics Section*, **2000**, 370-372, 9-12