

Igor L Lyubchanskii

List of Publications by Year in descending order

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63
papers

1,059
citations

430874

18
h-index

414414

32
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63
all docs

63
docs citations

63
times ranked

743
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic photonic crystals. <i>Journal Physics D: Applied Physics</i> , 2003, 36, R277-R287.	2.8	334
2	A one-dimensional photonic crystal with a superconducting defect layer. <i>Journal of Optics</i> , 2009, 11, 114014.	1.5	74
3	Goos-Hänchen effect and bending of spin wave beams in thin magnetic films. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	50
4	Photonic-magnonic crystals: Multifunctional periodic structures for magnonic and photonic applications. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	45
5	One-dimensional photonic crystal with a complex defect containing an ultrathin superconducting sublayer. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	43
6	One-dimensional bigyrotropic magnetic photonic crystals. <i>Applied Physics Letters</i> , 2004, 85, 5932-5934.	3.3	40
7	Influence of magnetic surface anisotropy on spin wave reflection from the edge of ferromagnetic film. <i>Physical Review B</i> , 2015, 92, .	3.2	40
8	Second-harmonic generation from realistic film-substrate interfaces: The effects of strain. <i>Applied Physics Letters</i> , 2000, 76, 1848-1850.	3.3	34
9	Huge Goos-Hänchen effect for spin waves: A promising tool for study magnetic properties at interfaces. <i>Applied Physics Letters</i> , 2012, 101, 042404.	3.3	32
10	Response of two-defect magnetic photonic crystals to oblique incidence of light: Effect of defect layer variation. <i>Journal of Applied Physics</i> , 2006, 100, 096110.	2.5	26
11	Optical bistability in one-dimensional magnetic photonic crystal with two defect layers. <i>Journal of Applied Physics</i> , 2008, 103, 07B321.	2.5	24
12	Confined states in photonic-magnonic crystals with complex unit cell. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	24
13	Goos-Hänchen effect in light transmission through biperiodic photonic-magnonic crystals. <i>Physical Review A</i> , 2017, 96, .	2.5	24
14	Controlling the Goos-Hänchen shift with external electric and magnetic fields in an electro-optic/magneto-electric heterostructure. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	23
15	Four-layer nanocomposite structure as an effective optical waveguide switcher for near-IR regime. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 435103.	2.8	22
16	Nonlinear magneto-optical diffraction from periodic domain structures in magnetic films. <i>Applied Physics Letters</i> , 1999, 74, 1880-1882.	3.3	21
17	Influence of misfit strain on the Goos-Hänchen shift upon reflection from a magnetic film on a nonmagnetic substrate. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 393.	2.1	21
18	Faraday Effect in Bi-Periodic Photonic-Magnonic Crystals. <i>IEEE Transactions on Magnetism</i> , 2017, 53, 1-5.	2.1	19

#	ARTICLE	IF	CITATIONS
19	One-dimensional dielectric bi-periodic photonic structures based on ternary photonic crystals. Journal of Applied Physics, 2018, 123, 043101.	2.5	17
20	Goos-Hänchen shift at the reflection of light from the complex structures composed of superconducting and dielectric layers. Journal of Applied Physics, 2015, 118, 213101.	2.5	15
21	Spin Waves and Electromagnetic Waves in Photonic-Magnonic Crystals. IEEE Transactions on Magnetism, 2014, 50, 1-4.	2.1	13
22	One-dimensional multiperiodic photonic structures: A new route in photonics (four-component) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	2.5	10
23	Reshaping of Gaussian light pulses transmitted through one-dimensional photonic crystals with two defect layers. Applied Optics, 2016, 55, 3764.	2.1	9
24	Hartman effect for spin waves in exchange regime. Scientific Reports, 2018, 8, 17944.	3.3	9
25	Transverse magneto-optic Kerr effect and Imbert-Fedorov shift upon light reflection from a magnetic/non-magnetic bilayer: impact of misfit strain. Journal of Optics (United Kingdom), 2017, 19, 015610.	2.2	8
26	Local non-linear excitation of sub-100-nm bulk-type spin waves by edge-localized spin waves in magnetic films. Applied Physics Letters, 2021, 118, .	3.3	8
27	Direct observation of controlled strain-induced second harmonic generation in a Co _{0.25} Pd _{0.75} thin film on a Pb(ZrTi)O ₃ substrate. Applied Physics Letters, 2007, 90, 044108.	3.3	7
28	Tunnelling of frequency-modulated wavepackets in photonic crystals with amplification. Journal of Optics (United Kingdom), 2016, 18, 015102.	2.2	7
29	Analysis of transmission spectra in one-dimensional ternary photonic crystals with complex unit cell. Optik, 2022, 261, 169169.	2.9	7
30	Spectra of bigyrotropic magnetic photonic crystals. Physica Status Solidi A, 2004, 201, 3338-3344.	1.7	5
31	Influence of magnetic field on nonlinear magneto-optical diffraction on two-dimensional hexagonal magnetic bubble lattice. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 215.	2.1	5
32	Influence of the linear magneto-electric effect on the lateral shift of light reflected from a magneto-electric film. Journal of Physics: Conference Series, 2016, 741, 012201.	0.4	5
33	Inelastic Spin-Wave Scattering by Bloch Domain Wall Flexure Oscillations. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800589.	2.4	5
34	<title>Magnetic films with periodically striped domains as tunable photonic crystals</title>. , 2002, 4806, 302.		4
35	Electric Field Controlled Magneto-Optical Kerr Effect at Light Reflection From an Electro-Optic/Magneto-Optic Bilayer. IEEE Transactions on Magnetism, 2011, 47, 1623-1626.	2.1	4
36	Three-periodic 1D photonic crystals for designing the photonic optical devices operating in the infrared regime. Applied Optics, 2021, 60, 1943.	1.8	4

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37	Bigyrotropic photonic crystals. , 2004, , .		3
38	One-dimensional photonic crystal with strained interfaces. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2216.	2.1	3
39	Inelastic Spin-Wave Beam Scattering by Edge-Localized Spin Waves in a Ferromagnetic Thin Film. Physical Review Applied, 2022, 17, .	3.8	3
40	Optical properties of a four-layer waveguiding nanocomposite structure in near-IR regime. Optical and Quantum Electronics, 2016, 48, 1.	3.3	2
41	Goos-Hänchen effect for Brillouin light scattering by acoustic phonons. Optics Letters, 2018, 43, 3965.	3.3	2
42	One-Dimensional Photonic Crystal With Realistic Interfaces: Effects of Misfit Strain. , 2009, , .		1
43	Nonlinear Faraday rotation in a one-dimensional magnetic photonic crystal with two defects. AIP Conference Proceedings, 2010, , .	0.4	1
44	The temperature- and thickness-dependence of the photonic band gap spectra of the one-dimensional photonic crystal with a superconducting defect layer. , 2010, , .		1
45	Lateral shift of the light transmitted through a 1D superconducting photonic crystal. , 2012, , .		1
46	Dielectric photonic crystals with superconducting defects. , 2014, , .		1
47	Superconducting photonic crystals with defect structure. , 2016, , .		1
48	Multiperiodic one-dimensional photonic crystals. , 2020, , 103-124.		1
49	Energy flux optimization in 1D multiperiodic four-component photonic crystals. Optics Communications, 2021, 489, 126875.	2.1	1
50	Theory of polaritons in magnetoelectric superlattices. Ferroelectrics, 1994, 162, 369-373.	0.6	0
51	Strain-Induced Modified Form Birefringence In A One-Dimensional Photonic Crystal: An Exact Coupled-Mode Approach. , 2009, , .		0
52	The dispersion induced peculiarities in the transmission spectra of the one-dimensional dielectric photonic crystals. , 2010, , .		0
53	One-Dimensional photonic crystal with superconducting defect layer: Oblique incidence of the light. , 2010, , .		0
54	Photonic crystals based on functional materials. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
55	Nonlinear Optical Diffraction by Standing Acoustic Waves in a GaAs Film. , 2011, , .		0
56	Nonlinear acousto-optical diffraction by surface and bulk standing acoustic waves. , 2012, , .		0
57	Hybrid magnetic waveguide and dielectric photonic crystal structure. , 2015, , .		0
58	Magneto-optic waveguide and dielectric photonic crystal as a new complex structure for photonics. , 2016, , .		0
59	Complex photonic structure based on magneto-optic waveguide and photonic crystal. , 2016, , .		0
60	Electric and magnetic tuning of the Goos-Hänchen shift of a light beam upon reection from a magneto-electric heterostructure. , 2016, , .		0
61	Cascading processes in the nonlinear diffraction of light by standing acoustic waves. Physical Review A, 2016, 93, .	2.5	0
62	Transmission spectra of one-dimensional bi-periodic photonic crystals. , 2017, , .		0
63	Multi-periodic one-dimensional photonic crystals. , 2018, , .		0