

# 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  
g-index

63  
all docs

63  
docs citations

63  
times ranked

743  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Inelastic Spin-Wave Beam Scattering by Edge-Localized Spin Waves in a Ferromagnetic Thin Film. <i>Physical Review Applied</i> , 2022, 17, .  | 3.8 | 3         |
| 2  | Analysis of transmission spectra in one-dimensional ternary photonic crystals with complex unit cell. <i>Optik</i> , 2022, 261, 169169.  | 2.9 | 7         |
| 3  | Local non-linear excitation of sub-100nm bulk-type spin waves by edge-localized spin waves in magnetic films. <i>Applied Physics Letters</i> , 2021, 118, .  | 3.3 | 8         |
| 4  | Three-periodic 1D photonic crystals for designing the photonic optical devices operating in the infrared regime. <i>Applied Optics</i> , 2021, 60, 1943.   | 1.8 | 4         |
| 5  | Energy flux optimization in 1D multiperiodic four-component photonic crystals. <i>Optics Communications</i> , 2021, 489, 126875.   | 2.1 | 1         |
| 6  | Multiperiodic one-dimensional photonic crystals. , 2020, , 103-124.  |     | 1         |
| 7  | One-dimensional multiperiodic photonic structures: A new route in photonics (four-component) Tj ETQq1 1 0.784314 rgBT /Overlock 10   | 2.5 | 10        |
| 8  | Inelastic Spin-Wave Scattering by Bloch Domain Wall Flexure Oscillations. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800589.   | 2.4 | 5         |
| 9  | One-dimensional dielectric bi-periodic photonic structures based on ternary photonic crystals. <i>Journal of Applied Physics</i> , 2018, 123, 043101.  | 2.5 | 17        |
| 10 | Multi-periodic one-dimensional photonic crystals. , 2018, , .  |     | 0         |
| 11 | Hartman effect for spin waves in exchange regime. <i>Scientific Reports</i> , 2018, 8, 17944.  | 3.3 | 9         |
| 12 | Goos-Hänchen effect for Brillouin light scattering by acoustic phonons. <i>Optics Letters</i> , 2018, 43, 3965.  | 3.3 | 2         |
| 13 | Faraday Effect in Bi-Periodic Photonic-Magnonic Crystals. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.   | 2.1 | 19        |
| 14 | Transverse magneto-optic Kerr effect and Imbert-Fedorov shift upon light reflection from a magnetic/non-magnetic bilayer: impact of misfit strain. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 015610. | 2.2 | 8         |
| 15 | Goos-Hänchen effect in light transmission through biperiodic photonic-magnonic crystals. <i>Physical Review A</i> , 2017, 96, .  | 2.5 | 24        |
| 16 | Transmission spectra of one-dimensional bi-periodic photonic crystals. , 2017, , .   |     | 0         |
| 17 | Magneto-optic waveguide and dielectric photonic crystal as a new complex structure for photonics. , 2016, , .  |     | 0         |
| 18 | Optical properties of a four-layer waveguiding nanocomposite structure in near-IR regime. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.  | 3.3 | 2         |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | Complex photonic structure based on magneto-optic waveguide and photonic crystal. , 2016, , .  |     | 0         |
| 21 | Electric and magnetic tuning of the Goos-Hänchen shift of a light beam upon reection from a magneto-electric heterostructure. , 2016, , .  |     | 0         |
| 22 | Confined states in photonic-magnonic crystals with complex unit cell. <i>Journal of Applied Physics</i> , 2016, 120, .   | 2.5 | 24        |
| 23 | 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        |
| 24 | Reshaping of Gaussian light pulses transmitted through one-dimensional photonic crystals with two defect layers. <i>Applied Optics</i> , 2016, 55, 3764.   | 2.1 | 9         |
| 25 | 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        |
| 26 | Superconducting photonic crystals with defect structure. , 2016, , .   |     | 1         |
| 27 | Cascading processes in the nonlinear diffraction of light by standing acoustic waves. <i>Physical Review A</i> , 2016, 93, .   | 2.5 | 0         |
| 28 | Influence of the linear magneto-electric effect on the lateral shift of light reflected from a magneto-electric film. <i>Journal of Physics: Conference Series</i> , 2016, 741, 012201.                    | 0.4 | 5         |
| 29 | Tunnelling of frequency-modulated wavepackets in photonic crystals with amplification. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 015102.   | 2.2 | 7         |
| 30 | 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        |
| 31 | Goos-Hänchen shift at the reflection of light from the complex structures composed of superconducting and dielectric layers. <i>Journal of Applied Physics</i> , 2015, 118, 213101.                        | 2.5 | 15        |
| 32 | Hybrid magnetic waveguide and dielectric photonic crystal structure. , 2015, , .   |     | 0         |
| 33 | Goos-Hänchen effect and bending of spin wave beams in thin magnetic films. <i>Applied Physics Letters</i> , 2014, 105, .   | 3.3 | 50        |
| 34 | Dielectric photonic crystals with superconducting defects. , 2014, , .   |     | 1         |
| 35 | Spin Waves and Electromagnetic Waves in Photonic-Magnonic Crystals. <i>IEEE Transactions on Magnetism</i> , 2014, 50, 1-4.   | 2.1 | 13        |
| 36 | Photonic-magnonic crystals: Multifunctional periodic structures for magnonic and photonic applications. <i>Journal of Applied Physics</i> , 2014, 115, .   | 2.5 | 45        |

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|----|---|-----|-----------|
| 37 | Nonlinear acousto-optical diffraction by surface and bulk standing acoustic waves. , 2012, , .  |     | 0         |
| 38 | Lateral shift of the light transmitted through a 1D superconducting photonic crystal. , 2012, , .   |     | 1         |
| 39 | Huge Goos-Hänchen effect for spin waves: A promising tool for study magnetic properties at interfaces. Applied Physics Letters, 2012, 101, 042404.  | 3.3 | 32        |
| 40 | Electric Field Controlled Magneto-Optical Kerr Effect at Light Reflection From an Electro-Optic/Magneto-Optic Bilayer. IEEE Transactions on Magnetics, 2011, 47, 1623-1626.                                       | 2.1 | 4         |
| 41 | Photonic crystals based on functional materials. , 2011, , .  |     | 0         |
| 42 | One-dimensional photonic crystal with strained interfaces. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2216.  | 2.1 | 3         |
| 43 | Nonlinear Optical Diffraction by Standing Acoustic Waves in a GaAs Film. , 2011, , .  |     | 0         |
| 44 | The dispersion induced peculiarities in the transmission spectra of the one-dimensional dielectric photonic crystals. , 2010, , .   |     | 0         |
| 45 | Nonlinear Faraday rotation in a one-dimensional magnetic photonic crystal with two defects. AIP Conference Proceedings, 2010, , .   | 0.4 | 1         |
| 46 | One-dimensional photonic crystal with a complex defect containing an ultrathin superconducting sublayer. Journal of Applied Physics, 2010, 108, .   | 2.5 | 43        |
| 47 | One-Dimensional photonic crystal with superconducting defect layer: Oblique incidence of the light. , 2010, , .   |     | 0         |
| 48 | The temperature- and thickness-dependence of the photonic band gap spectra of the one-dimensional photonic crystal with a superconducting defect layer. , 2010, , .   |     | 1         |
| 49 | A one-dimensional photonic crystal with a superconducting defect layer. Journal of Optics, 2009, 11, 114014.  | 1.5 | 74        |
| 50 | Strain-Induced Modified Form Birefringence In A One-Dimensional Photonic Crystal: An Exact Coupled-Mode Approach. , 2009, , .   |     | 0         |
| 51 | One-Dimensional Photonic Crystal With Realistic Interfaces: Effects of Misfit Strain. , 2009, , .   |     | 1         |
| 52 | Optical bistability in one-dimensional magnetic photonic crystal with two defect layers. Journal of Applied Physics, 2008, 103, 07B321.   | 2.5 | 24        |
| 53 | Direct observation of controlled strain-induced second harmonic generation in a Co <sub>0.25</sub> Pd <sub>0.75</sub> thin film on a Pb(ZrTi)O <sub>3</sub> substrate. Applied Physics Letters, 2007, 90, 044108. | 3.3 | 7         |
| 54 | Response of two-defect magnetic photonic crystals to oblique incidence of light: Effect of defect layer variation. Journal of Applied Physics, 2006, 100, 096110.   | 2.5 | 26        |

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|----|---|-----|-----------|
| 55 | 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         |
| 56 | Bigyrotropic photonic crystals. , 2004, , .   |     | 3         |
| 57 | One-dimensional bigyrotropic magnetic photonic crystals. Applied Physics Letters, 2004, 85, 5932-5934.  | 3.3 | 40        |
| 58 | Spectra of bigyrotropic magnetic photonic crystals. Physica Status Solidi A, 2004, 201, 3338-3344.  | 1.7 | 5         |
| 59 | Magnetic photonic crystals. Journal Physics D: Applied Physics, 2003, 36, R277-R287.  | 2.8 | 334       |
| 60 | <title>Magnetic films with periodically striped domains as tunable photonic crystals</title>. , 2002, 4806, 302.  |     | 4         |
| 61 | Second-harmonic generation from realistic filmâ€“substrate interfaces: The effects of strain. Applied Physics Letters, 2000, 76, 1848-1850.   | 3.3 | 34        |
| 62 | Nonlinear magneto-optical diffraction from periodic domain structures in magnetic films. Applied Physics Letters, 1999, 74, 1880-1882.  | 3.3 | 21        |
| 63 | Theory of polaritons in magnetoelectric superlattices. Ferroelectrics, 1994, 162, 369-373.  | 0.6 | 0         |