## Alexandr V Sadovnikov

List of Publications by Year in descending order

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127 papers 3,076 citations

147726 31 h-index 53 g-index

131 all docs

131 docs citations

131 times ranked

1847 citing authors

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Tunable Fano Resonances in Irregular Magnonic Structure. IEEE Transactions on Magnetics, 2022, 58, 1-5.   | 1.2 | 2         |
| 2  | Tunable Spin Wave Propagation in YIG/Fe-Rh Stripe. IEEE Transactions on Magnetics, 2022, 58, 1-4.   | 1.2 | O         |
| 3  | Surface Spin-Wave Propagation in the Orthogonal Transverse Junction of YIG-Based Magnonic Stripes. IEEE Transactions on Magnetics, 2022, 58, 1-4.   | 1.2 | 1         |
| 4  | Spin wave filtration by resonances in the sidewalls of corrugated yttrium-iron garnet films. Journal of Magnetism and Magnetic Materials, 2022, 545, 168786.  | 1.0 | 3         |
| 5  | Dzyaloshinskii–Moriya interaction determined from spin wave nonreciprocity and magnetic bubble asymmetry in Pt/Co/Ir/Co/Pt synthetic ferrimagnets. Journal of Physics Condensed Matter, 2022, 34, 085803. | 0.7 | 2         |
| 6  | Modulation of interfacial magnetic relaxation timeframes by partially uncoupled exchange bias. Journal Physics D: Applied Physics, 2022, 55, 105001.  | 1.3 | 5         |
| 7  | Zigzag domains caused by strain-induced anisotropy of the Dzyaloshinskii-Moriya interaction. Physical Review B, 2022, 105, .  | 1.1 | 4         |
| 8  | Nonlinear signal processing with magnonic superlattice with two periods. Applied Physics Letters, 2022, 120, 122407.  | 1.5 | 3         |
| 9  | Strain-Tuned Spin-Wave Interference in Micro- and Nanoscale Magnonic Interferometers.<br>Nanomaterials, 2022, 12, 1520.   | 1.9 | 5         |
| 10 | Highly-magnetic mineral protein–tannin vehicles with anti-breast cancer activity. Materials Chemistry Frontiers, 2021, 5, 2007-2018.  | 3.2 | 13        |
| 11 | Effect of Ion Irradiation on the Magnetic Properties of CoPt Films. Physics of the Solid State, 2021, 63, 386-394.  | 0.2 | 7         |
| 12 | Voltage-controlled spin-wave intermodal coupling in lateral ensembles of magnetic stripes with patterned piezoelectric layer. AIP Advances, 2021, 11, 035316.   | 0.6 | O         |
| 13 | Multimode unidirectional spin-wave coupling in an array of non-identical magnonic crystals near band gap frequencies. Journal Physics D: Applied Physics, 2021, 54, 245001.                               | 1.3 | 3         |
| 14 | Spin waves transport in 3D magnonic waveguides. AIP Advances, 2021, 11, 035024.   | 0.6 | 1         |
| 15 | Magnonic band structure in CoFeB/Ta/NiFe meander-shaped magnetic bilayers. Applied Physics Letters, 2021, 118, .  | 1.5 | 16        |
| 16 | Investigation of self-nucleated skyrmion states in the ferromagnetic/nonmagnetic multilayer dot. Applied Physics Letters, 2021, $118, \ldots$   | 1.5 | 11        |
| 17 | Application concepts for ultrafast laser-induced skyrmion creation and annihilation. Applied Physics<br>Letters, 2021, 118, .   | 1.5 | 23        |
| 18 | Ferromagnetic Resonance in Permalloy Metasurfaces. Applied Magnetic Resonance, 2021, 52, 749-758.   | 0.6 | 4         |

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| 19 | Using Mandelstam–Brillouin Spectroscopy to Study Energy-Efficient Devices for Processing Information Signals on the Basis of Magnon Straintronics. Bulletin of the Russian Academy of Sciences: Physics, 2021, 85, 595-598.   | 0.1 | 2         |
| 20 | Strain-mediated tunability of spin-wave spectra in the adjacent magnonic crystal stripes with piezoelectric layer. Applied Physics Letters, 2021, $118$ , .   | 1.5 | 11        |
| 21 | The 2021 Magnonics Roadmap. Journal of Physics Condensed Matter, 2021, 33, 413001.  Magnonic Band Structure in Vertical Meander-Shaped < mml:math   | 0.7 | 287       |
| 22 | xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"<br>overflow="scroll"> <mml:msub><mml:mi>Co</mml:mi><mml:mn>40</mml:mn></mml:msub><br><mml:math <br="" display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"&gt;<mml:msub><mml:mi>Fe</mml:mi><mml:mn>40</mml:mn></mml:msub></mml:math> | 1.5 | 17        |
| 23 | <mml:math display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><m< p=""> Skyrmion Formation in Nanodisks Using Magnetic Force Microscopy Tip. Nanomaterials, 2021, 11, 2627.</m<></mml:math>   | 1.9 | 3         |
| 24 | Space-Quasiperiodic and Time-Chaotic Parametric Patterns in a Magnonic Quasicrystal Active Ring Resonator. Physical Review Applied, 2021, 16, .   | 1.5 | 3         |
| 25 | Modification of the Interfacial Dzyaloshinskii–Moriya Interaction in Cobalt/Heavy Metal Films Irradiated with Helium Ions. Physics of the Solid State, 2021, 63, 1373-1377.   | 0.2 | О         |
| 26 | Electric-Field-Controlled Spin-Wave Coupling in Lateral Ensembles of Magnetic Microstructures. Physics of the Solid State, 2021, 63, 1356-1360.   | 0.2 | О         |
| 27 | Lateral Spin-Wave Transport in a System of Nonidentical Magnonic-Crystal Microwave Guides. Physics of the Solid State, 2021, 63, 1361-1365.   | 0.2 | О         |
| 28 | Magnon–Phonon Interaction in the Transition Layer of an Epitaxial YIG Film. Physics of the Solid State, 2021, 63, 1569-1573.  | 0.2 | 0         |
| 29 | Intensity and magnetization angle reconfigurable lateral spin-wave coupling and transport. Journal of Magnetism and Magnetic Materials, 2020, 500, 166344.  | 1.0 | 4         |
| 30 | Spin waves in meander shaped YIG film: Toward 3D magnonics. Applied Physics Letters, 2020, 117, .   | 1.5 | 21        |
| 31 | Enhancement of perpendicular magnetic anisotropy and Dzyaloshinskii–Moriya interaction in thin ferromagnetic films by atomic-scale modulation of interfaces. NPG Asia Materials, 2020, 12, .  | 3.8 | 28        |
| 32 | Spin-waves generation at the thickness step of yttrium iron garnet film. Applied Physics Letters, 2020, 117, .  | 1.5 | 6         |
| 33 | Excitation of Terahertz Magnons in Antiferromagnetic Nanostructures: Theory and Experiment. Journal of Experimental and Theoretical Physics, 2020, 131, 71-82.  | 0.2 | 6         |
| 34 | Magnetic Direct-Write Skyrmion Nanolithography. ACS Nano, 2020, 14, 14960-14970.  | 7.3 | 17        |
| 35 | Band structure formation in magnonic Bragg gratings superlattice. Journal Physics D: Applied Physics, 2020, 53, 395002.   | 1.3 | 3         |
| 36 | All-Dielectric Nanophotonics Enables Tunable Excitation of the Exchange Spin Waves. Nano Letters, 2020, 20, 5259-5266.  | 4.5 | 38        |

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| 37 | Voltage-induced strain to control the magnetization of bi FeRh/PZT and tri PZT/FeRh/PZT layered magnetoelectric composites. AIP Advances, 2020, 10, .   | 0.6           | 7                 |
| 38 | Diameter-independent skyrmion Hall angle observed in chiral magnetic multilayers. Nature Communications, 2020, 11, 428.   | 5.8           | 89                |
| 39 | Manipulation of the Dzyaloshinskii–Moriya Interaction in Co/Pt Multilayers with Strain. Physical Review Letters, 2020, 124, 157202.   | 2.9           | 74                |
| 40 | Dielectric magnonics: from gigahertz to terahertz. Physics-Uspekhi, 2020, 63, 945-974.  | 0.8           | 40                |
| 41 | Magnon straintronics for tunable spin-wave transport with YIG/GaAs and YIG/PZT structures. AIP Conference Proceedings, 2020, , .  | 0.3           | 2                 |
| 42 | Collective and localized modes in 3D magnonic crystals. Journal of Magnetism and Magnetic Materials, 2019, 492, 165647.   | 1.0           | 8                 |
| 43 | Surface spin waves propagation in tapered magnetic stripe. Journal of Applied Physics, 2019, 126, .   | 1,1           | 13                |
| 44 | Modification of Magnetic Properties of a CoPt Alloy by Ion Irradiation. Physics of the Solid State, 2019, 61, 1646-1651.  | 0.2           | 7                 |
| 45 | Magnon Straintronics to Control Spin-Wave Computation: Strain Reconfigurable Magnonic-Crystal Directional Coupler. IEEE Magnetics Letters, 2019, 10, 1-5.   | 0.6           | 17                |
| 46 | Dzyaloshinskii-Moriya interaction in symmetric epitaxial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mrow><mml:mo>[<td>nl:miai&gt; &lt; mr</td><td>า<b>l:፼</b>9&gt;Co</td></mml:mo></mml:mrow></mml:mrow></mml:msub></mml:math> | nl:miai> < mr | า <b>l:፼</b> 9>Co |
| 47 | Route toward semiconductor magnonics: Light-induced spin-wave nonreciprocity in a YIG/GaAs structure. Physical Review B, 2019, 99, .  | 1.1           | 88                |
| 48 | Spin-wave excitations in YIG films grown on corrugated substrates. Journal of Physics: Conference Series, 2019, 1389, 012140.   | 0.3           | 6                 |
| 49 | Controlling the Properties of Spin–Wave Transport in a Semiring Magnon Microwavevguide.<br>Technical Physics, 2019, 64, 1636-1641.  | 0.2           | 3                 |
| 50 | Nonlinear magneto-optical Kerr effect in Co/Pt and Co/Ta bilayer films. Journal of Physics: Conference Series, 2019, 1389, 012105.  | 0.3           | 0                 |
| 51 | Reconfigurable Lateral Spin-Wave Transport in a Ring Magnonic Microwaveguide. JETP Letters, 2019, 110, 430-435.   | 0.4           | 12                |
| 52 | Controlled Spin-Wave Transport in a Magnon-Crystal Structure with a One-Dimensional Array of Holes. JETP Letters, 2019, 110, 533-539.   | 0.4           | 4                 |
| 53 | Vertical Spin-Wave Transport in Magnonic Waveguides With Broken Translation Symmetry. IEEE Magnetics Letters, 2019, 10, 1-5.  | 0.6           | 6                 |
| 54 | Functional Magnon Network Blocks Based on Structures with Translational Symmetry Violation. Technical Physics, 2019, 64, 1615-1621.   | 0.2           | 0                 |

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| 55 | Dynamic testing equipment for evaluation of time consumption for the forms of reasoning of a human-operator. AIP Conference Proceedings, 2019, , .   | 0.3                       | 0           |
| 56 | Dynamic Imaging of the Delay- and Tilt-Free Motion of NÃ $\otimes$ el Domain Walls in Perpendicularly Magnetized Superlattices. Nano Letters, 2019, 19, 375-380.   | 4.5                       | 13          |
| 57 | Spin-wave intermodal coupling in the interconnection of magnonic units. Applied Physics Letters, 2018, 112, .  | 1.5                       | 47          |
| 58 | Spin wave steering in three-dimensional magnonic networks. Applied Physics Letters, 2018, 112, 122404.   | 1.5                       | 40          |
| 59 | Nonlinear Spin Wave Effects in the System of Lateral Magnonic Structures. JETP Letters, 2018, 107, 25-29.  | 0.4                       | 38          |
| 60 | Integrated magnonic networks based on the lateral magnonic stripes and magnonic crystals, 2018, , .  |                           | 0           |
| 61 | Interface roughness driven magnetic anisotropy and Dzyaloshinskii- Moriya interaction in thin films with broken structural inversion symmetry. , 2018, , .   |                           | 0           |
| 62 | Neuromorphic Calculations Using Lateral Arrays of Magnetic Microstructures with Broken Translational Symmetry. JETP Letters, 2018, 108, 312-317.   | 0.4                       | 24          |
| 63 | Abrasive wear of Hilong BoTN hardfacings. IOP Conference Series: Materials Science and Engineering, 2018, 307, 012038.   | 0.3                       | 8           |
| 64 | 3D magnonic crystals , 2018, , .   |                           | 0           |
| 65 | Spin wave coupling in strain-tuned magnonic waveguide and reconfigurable magnonic crystals , 2018,   |                           | 0           |
| 66 | Volume Magnetostatic Spin Waves in 3D Ferromagnetic Structures. Journal of Communications Technology and Electronics, 2018, 63, 1431-1438.   | 0.2                       | 5           |
| 67 | Nonlinear Lateral Spin-Wave Transport in Planar Magnonic Networks. IEEE Magnetics Letters, 2018, 9, 1-5.   | 0.6                       | 3           |
| 68 | Spin-Wave Drop Filter Based on Asymmetric Side-Coupled Magnonic Crystals. Physical Review Applied, 2018, 9, .  | 1.5                       | 55          |
| 69 | Functional Magnetic Metamaterials for Spintronics. Nanoscience and Technology, 2018, , 221-245.  | 1.5                       | 2           |
| 70 | Enhanced interfacial Dzyaloshinskii-Moriya interaction and isolated skyrmions in the inversion-symmetry-broken Ru/Co/W/Ru films. Applied Physics Letters, 2018, 112, .   | 1.5                       | 36          |
| 71 | Interfacial Dzyaloshinskii-Moriya Interaction in <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">W</mml:mi><mml:mi>/<mml:mi>Co</mml:mi><mml:mi> mathvariant="normal"&gt;B</mml:mi><mml:mi>/<mml:mi>MgO</mml:mi></mml:mi></mml:mi></mml:mrow></mml:math> | <1.5<br><mml:mi></mml:mi> | >Fe2/mml:mi |
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| 73 | Nonlinear spin-wave propagation in the nonidentical magnonic structures. Izvestiya Vysshikh<br>Uchebnykh Zavedeniy Prikladnaya Nelineynaya Dinamika, 2018, 26, 59-67.  | 0.1 | O         |
| 74 | Spontaneous nucleation and topological stabilization of skyrmions in magnetic nanodisks with the interfacial Dzyaloshinskii–Moriya interaction. Journal of Magnetism and Magnetic Materials, 2017, 429, 221-226. | 1.0 | 13        |
| 75 | Voltage-Controlled Spin-Wave Coupling in Adjacent Ferromagnetic-Ferroelectric Heterostructures.<br>Physical Review Applied, 2017, 7, .   | 1.5 | 86        |
| 76 | Spatial dynamics of hybrid electromagnetic spin waves in a lateral multiferroic microwaveguide. JETP Letters, 2017, 105, 364-369.  | 0.4 | 7         |
| 77 | Splitting of Spin Waves in Strain Reconfigurable Magnonic Stripe. IEEE Transactions on Magnetics, 2017, 53, 1-4.   | 1.2 | 3         |
| 78 | Spin-Wave Switching in the Side-Coupled Magnonic Stripes. IEEE Transactions on Magnetics, 2017, 53, 1-4.   | 1.2 | 5         |
| 79 | Toward nonlinear magnonics: Intensity-dependent spin-wave switching in insulating side-coupled magnetic stripes. Physical Review B, 2017, 96, .  | 1.1 | 95        |
| 80 | Spin wave propagation in a uniformly biased curved magnonic waveguide. Physical Review B, 2017, 96, .  | 1.1 | 70        |
| 81 | Coupled spin waves in magnetic waveguides induced by elastic deformations in YIG–piezoelectric structures. JETP Letters, 2017, 106, 465-469.   | 0.4 | 3         |
| 82 | Pinning and hysteresis in the field dependent diameter evolution of skyrmions in Pt/Co/Ir superlattice stacks. Scientific Reports, 2017, 7, 15125.   | 1.6 | 61        |
| 83 | Spin-Wave Transport Along In-Plane Magnetized Laterally Coupled Magnonic Stripes. IEEE Magnetics<br>Letters, 2017, 8, 1-4.   | 0.6 | 9         |
| 84 | Coupled Spin Waves in Magnonic Waveguides. , 2017, , 47-76.  |     | 1         |
| 85 | Influence of periodic ferroelectric layer on band gap's width in periodic ferrite — Periodic ferroelectric structure. , 2016, , .  |     | O         |
| 86 | Directional RF coupler with dual tunability based on laterally coupled multiferroic structure. , 2016, , .   |     | 0         |
| 87 | Tunable RF coupler based on laterally coupled magnetic microwaveguides. , 2016, , .  |     | O         |
| 88 | Band gap formation and control in coupled periodic ferromagnetic structures. Journal of Applied Physics, 2016, 120, .  | 1.1 | 28        |
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| 90 | Spatial–frequency selection of magnetostatic waves in a two-dimensional magnonic crystal lattice. JETP Letters, 2016, 104, 563-567.  | 0.4 | 32        |

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| 92  | Brillouin spectroscopy of nonlinear magnetoacoustic resonances in a layered YIG/GGG structure. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 1242-1247.   | 0.1 | 4         |
| 93  | The influence of a metal on transverse characteristics of hybrid waves in a layered ferrite–ferroelectric structure. Technical Physics Letters, 2016, 42, 486-490.  | 0.2 | 2         |
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| 95  | Directional multimode coupler for planar magnonics: Side-coupled magnetic stripes. Applied Physics Letters, 2015, 107, .  | 1.5 | 82        |
| 96  | Brillouin light scattering study of transverse mode coupling in confined yttrium iron garnet/barium strontium titanate multiferroic. Journal of Applied Physics, 2015, 118, .   | 1.1 | 39        |
| 97  | Generation of propagating spin waves from regions of increased dynamic demagnetising field near magnetic antidots. Applied Physics Letters, 2015, 107, 162401.  | 1.5 | 39        |
| 98  | Nonreciprocal propagation of hybrid electromagnetic waves in a layered ferrite–ferroelectric structure with a finite width. JETP Letters, 2015, 102, 142-147.   | 0.4 | 16        |
| 99  | Band gap control in a line-defect magnonic crystal waveguide. Applied Physics Letters, 2015, 107, .   | 1.5 | 16        |
| 100 | Magnonic beam splitter: The building block of parallel magnonic circuitry. Applied Physics Letters, 2015, 106, .  | 1.5 | 81        |
| 101 | Magnonics: a new research area in spintronics and spin wave electronics. Physics-Uspekhi, 2015, 58, 1002-1028.  | 0.8 | 174       |
| 102 | Dipolar field-induced spin-wave waveguides for spin-torque magnonics. Applied Physics Letters, 2015, 106, .   | 1.5 | 52        |
| 103 | Spin-current nano-oscillator based on nonlocal spin injection. Scientific Reports, 2015, 5, 8578.   | 1.6 | 82        |
| 104 | Towards graded-index magnonics: Steering spin waves in magnonic networks. Physical Review B, 2015, 92, .  | 1.1 | 110       |
| 105 | Field-Controlled Phase-Rectified Magnonic Multiplexer. IEEE Transactions on Magnetics, 2015, 51, 1-4.   | 1.2 | 43        |
| 106 | Magnetostatic surface waves in a ferrite–ferromagnetic metal layered medium based on yttrium iron garnet epitaxial films and TbCo2/FeCo nanostructures. Journal of Communications Technology and Electronics, 2015, 60, 999-1005. | 0.2 | 5         |
| 107 | Brillouin Light Scattering Spectroscopy of Magneto-Acoustic Resonances In a Thin-Film Garnet Resonator. IEEE Magnetics Letters, 2015, 6, 1-4.   | 0.6 | 14        |
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| 109 | Tunable Bandgaps in Layered Structure Magnonic Crystal–Ferroelectric. IEEE Transactions on Magnetics, 2015, 51, 1-4.  | 1.2 | 19        |
| 110 | Field-controlled phase-rectified magnonic multiplexor. , 2015, , .  |     | 1         |
| 111 | Conversion of magnetostatic spin waves propagating through a junction of magnonic waveguides. , 2015, , .   |     | 0         |
| 112 | Band gap control in periodic structure with magnonic crystal and ferroelectric. , 2015, , .   |     | 0         |
| 113 | Spatial and Temporal Dynamics of Dissipative Parametric Solitons in a Ferromagnetic Film Active Ring Resonator. IEEE Transactions on Magnetics, 2014, 50, 1-4.                                    | 1.2 | 4         |
| 114 | Nanoconstriction-based spin-Hall nano-oscillator. Applied Physics Letters, 2014, 105, .   | 1.5 | 165       |
| 115 | Multimode Propagation of Magnetostatic Waves in a Width-Modulated Yttrium-Iron-Garnet Waveguide. IEEE Magnetics Letters, $2014, 5, 1-4$ .   | 0.6 | 46        |
| 116 | Magnonic Bandgap Control in Coupled Magnonic Crystals. IEEE Transactions on Magnetics, 2014, 50, 1-4.   | 1.2 | 25        |
| 117 | Nonlinear Magnetostatic Wave Propagation through One Dimensional Finite Magnonic Crystals. Solid State Phenomena, 2014, 215, 394-399.   | 0.3 | 3         |
| 118 | The electrodynamic characteristics of a finite-width metal/dielectric/ferroelectric/dielectric/metal layer structure. Journal of Communications Technology and Electronics, 2014, 59, 914-919.    | 0.2 | 31        |
| 119 | Electrodynamical properties and modes of finite-width planar ferrite waveguide. Journal of Physics:<br>Conference Series, 2014, 572, 012064.  | 0.3 | 4         |
| 120 | Studying the spectra of thermal magnons in composite materials with embedded magnetite nanoparticles using Brillouin light-scattering spectroscopy. Technical Physics Letters, 2013, 39, 715-718. | 0.2 | 5         |
| 121 | Spatiotemporal dynamics of magnetostatic and spin waves in a transversely confined ferrite waveguide. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 1429-1431.                  | 0.1 | 11        |
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| 125 | The dynamics of the electromagnetic wave propagation in the nonlinear Bragg grating structure. Proceedings of SPIE, 2010, , .   | 0.8 | 0         |
| 126 | Dynamics of electromagnetic wave propagation near band gap in nonlinear Bragg grating structure. , 2010, , .  |     | 0         |

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| 127 | Multimode Surface Magnetostatic Wave Propagation in Irregular Planar YIG Waveguide. Solid State Phenomena, 0, 215, 389-393. | 0.3 | 17        |