

Vladislav Demidov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

2,705
citations

26
h-index

51
g-index

63
ext. papers

3,178
ext. citations

6.1
avg, IF

4.78
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 60 | Interplay Between Nonlinear Spectral Shift and Nonlinear Damping of Spin Waves in Ultrathin Yttrium Iron Garnet Waveguides. <i>Physical Review Applied</i> , 2022 , 17, | 4.3 | 1 |
| 59 | Giant nonlinear self-phase modulation of large-amplitude spin waves in microscopic YIG waveguides.. <i>Scientific Reports</i> , 2022 , 12, 7246 | 4.9 | 0 |
| 58 | Evidence for spin current driven Bose-Einstein condensation of magnons. <i>Nature Communications</i> , 2021 , 12, 6541 | 17.4 | 3 |
| 57 | Efficient geometrical control of spin waves in microscopic YIG waveguides. <i>Applied Physics Letters</i> , 2021 , 119, 182401 | 3.4 | 1 |
| 56 | The 2021 Magnonics Roadmap. <i>Journal of Physics Condensed Matter</i> , 2021 , 33, | 1.8 | 69 |
| 55 | Spin-orbit-torque magnonics. <i>Journal of Applied Physics</i> , 2020 , 127, 170901 | 2.5 | 14 |
| 54 | Sub-micrometer near-field focusing of spin waves in ultrathin YIG films. <i>Applied Physics Letters</i> , 2020 , 116, 062401 | 3.4 | 7 |
| 53 | Direct evidence of spatial stability of Bose-Einstein condensate of magnons. <i>Nature Communications</i> , 2020 , 11, 1691 | 17.4 | 12 |
| 52 | Spatial separation of degenerate components of magnon Bose-Einstein condensate by using a local acceleration potential. <i>Scientific Reports</i> , 2020 , 10, 14881 | 4.9 | 4 |
| 51 | Controllable excitation of quasi-linear and bullet modes in a spin-Hall nano-oscillator. <i>Applied Physics Letters</i> , 2019 , 114, 042403 | 3.4 | 4 |
| 50 | Excitation of coherent second sound waves in a dense magnon gas. <i>Scientific Reports</i> , 2019 , 9, 9063 | 4.9 | 10 |
| 49 | Nonlinear spin conductance of yttrium iron garnet thin films driven by large spin-orbit torque. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 23 |
| 48 | Electrical properties of epitaxial yttrium iron garnet ultrathin films at high temperatures. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 20 |
| 47 | Spin Hall-induced auto-oscillations in ultrathin YIG grown on Pt. <i>Scientific Reports</i> , 2018 , 8, 1269 | 4.9 | 24 |
| 46 | Relation between unidirectional spin Hall magnetoresistance and spin current-driven magnon generation. <i>Applied Physics Letters</i> , 2018 , 113, 062403 | 3.4 | 9 |
| 45 | Spin-wave propagation in ultra-thin YIG based waveguides. <i>Applied Physics Letters</i> , 2017 , 110, 092408 | 3.4 | 62 |
| 44 | Nanoconstriction spin-Hall oscillator with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , 2017 , 111, 032405 | 3.4 | 12 |

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| 43 | Magnetic droplet solitons generated by pure spin currents. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 14 |
| 42 | Chemical potential of quasi-equilibrium magnon gas driven by pure spin current. <i>Nature Communications</i> , 2017 , 8, 1579 | 17.4 | 24 |
| 41 | Generation of coherent spin-wave modes in yttrium iron garnet microdiscs by spin-orbit torque. <i>Nature Communications</i> , 2016 , 7, 10377 | 17.4 | 173 |
| 40 | Direct observation of dynamic modes excited in a magnetic insulator by pure spin current. <i>Scientific Reports</i> , 2016 , 6, 32781 | 4.9 | 26 |
| 39 | Reconfigurable heat-induced spin wave lenses. <i>Applied Physics Letters</i> , 2016 , 109, 232407 | 3.4 | 26 |
| 38 | Route toward high-speed nano-magnonics provided by pure spin currents. <i>Applied Physics Letters</i> , 2016 , 109, 252401 | 3.4 | 13 |
| 37 | High-efficiency control of spin-wave propagation in ultra-thin yttrium iron garnet by the spin-orbit torque. <i>Applied Physics Letters</i> , 2016 , 108, 172406 | 3.4 | 63 |
| 36 | Mutual synchronization of nano-oscillators driven by pure spin current. <i>Applied Physics Letters</i> , 2016 , 109, 162402 | 3.4 | 9 |
| 35 | Spin-current nano-oscillator based on nonlocal spin injection. <i>Scientific Reports</i> , 2015 , 5, 8578 | 4.9 | 73 |
| 34 | Spectral linewidth of spin-current nano-oscillators driven by nonlocal spin injection. <i>Applied Physics Letters</i> , 2015 , 107, 202402 | 3.4 | 5 |
| 33 | Micromagnetic study of auto-oscillation modes in spin-Hall nano-oscillators. <i>Applied Physics Letters</i> , 2014 , 104, 042407 | 3.4 | 36 |
| 32 | Nanomagnonic devices based on the spin-transfer torque. <i>Nature Nanotechnology</i> , 2014 , 9, 509-13 | 28.7 | 112 |
| 31 | Synchronization of spin Hall nano-oscillators to external microwave signals. <i>Nature Communications</i> , 2014 , 5, 3179 | 17.4 | 96 |
| 30 | Spin Hall controlled magnonic microwaveguides. <i>Applied Physics Letters</i> , 2014 , 104, 152402 | 3.4 | 33 |
| 29 | Nanoconstriction-based spin-Hall nano-oscillator. <i>Applied Physics Letters</i> , 2014 , 105, 172410 | 3.4 | 117 |
| 28 | Dynamic behavior of Ni ₈₀ Fe ₂₀ nanowires with controlled defects. <i>Applied Physics Letters</i> , 2014 , 104, 143105 | 3.4 | 5 |
| 27 | Optimization of Pt-based spin-Hall-effect spintronic devices. <i>Applied Physics Letters</i> , 2013 , 102, 132402 | 3.4 | 33 |
| 26 | Effect of the magnetic film thickness on the enhancement of the spin current by multi-magnon processes. <i>Applied Physics Letters</i> , 2013 , 102, 252409 | 3.4 | 9 |

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|----|---|-----|-----|
| 25 | Parametric excitation of magnetization oscillations controlled by pure spin current. <i>Physical Review B</i> , 2012 , 86, | 3-3 | 25 |
| 24 | Spatially non-uniform ground state and quantized vortices in a two-component Bose-Einstein condensate of magnons. <i>Scientific Reports</i> , 2012 , 2, 482 | 4-9 | 63 |
| 23 | Spin-torque nano-emitters for magnonic applications. <i>Applied Physics Letters</i> , 2012 , 100, 162406 | 3-4 | 31 |
| 22 | Resonant frequency multiplication in microscopic magnetic dots. <i>Applied Physics Letters</i> , 2011 , 99, 012505 | 3-4 | 18 |
| 21 | Spin pumping by parametrically excited short-wavelength spin waves. <i>Applied Physics Letters</i> , 2011 , 99, 162502 | 3-4 | 44 |
| 20 | Bose-Einstein condensation of spin wave quanta at room temperature. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 3575-87 | 3 | 8 |
| 19 | Wide-range control of ferromagnetic resonance by spin Hall effect. <i>Applied Physics Letters</i> , 2011 , 99, 172501 | 3-4 | 47 |
| 18 | Excitation of short-wavelength spin waves in magnonic waveguides. <i>Applied Physics Letters</i> , 2011 , 99, 082507 | 3-4 | 82 |
| 17 | Control of magnetic fluctuations by spin current. <i>Physical Review Letters</i> , 2011 , 107, 107204 | 7-4 | 124 |
| 16 | Generation of the second harmonic by spin waves propagating in microscopic stripes. <i>Physical Review B</i> , 2011 , 83, | 3-3 | 25 |
| 15 | Mapping of localized spin-wave excitations by near-field Brillouin light scattering. <i>Applied Physics Letters</i> , 2010 , 97, 152502 | 3-4 | 46 |
| 14 | Nonlinear hybridization of the fundamental eigenmodes of microscopic ferromagnetic ellipses. <i>Physical Review Letters</i> , 2010 , 104, 217203 | 7-4 | 29 |
| 13 | Ginzburg-Landau model of Bose-Einstein condensation of magnons. <i>Physical Review B</i> , 2010 , 81, | 3-3 | 29 |
| 12 | Bose-Einstein condensation of magnons under incoherent pumping. <i>Physical Review Letters</i> , 2009 , 102, 187205 | 7-4 | 32 |
| 11 | Excitation of two spatially separated Bose-Einstein condensates of magnons. <i>Physical Review B</i> , 2009 , 80, | 3-3 | 12 |
| 10 | Nonlinear propagation of spin waves in microscopic magnetic stripes. <i>Physical Review Letters</i> , 2009 , 102, 177207 | 7-4 | 51 |
| 9 | Magnon kinetics and Bose-Einstein condensation studied in phase space. <i>Physical Review Letters</i> , 2008 , 101, 257201 | 7-4 | 48 |
| 8 | Monochromatic microwave radiation from the system of strongly excited magnons. <i>Applied Physics Letters</i> , 2008 , 92, 162510 | 3-4 | 15 |

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| 7 | Quantum coherence due to Bose-Einstein condensation of parametrically driven magnons. <i>New Journal of Physics</i> , 2008 , 10, 045029 | 2.9 | 21 |
| 6 | Observation of spontaneous coherence in Bose-Einstein condensate of magnons. <i>Physical Review Letters</i> , 2008 , 100, 047205 | 7.4 | 95 |
| 5 | Direct observation of Bose-Einstein condensation in a parametrically driven gas of magnons. <i>New Journal of Physics</i> , 2007 , 9, 64-64 | 2.9 | 21 |
| 4 | Thermalization of a parametrically driven magnon gas leading to Bose-Einstein condensation. <i>Physical Review Letters</i> , 2007 , 99, 037205 | 7.4 | 76 |
| 3 | Formation of longitudinal patterns and dimensionality crossover of nonlinear spin waves in ferromagnetic stripes. <i>Physical Review B</i> , 2006 , 74, | 3.3 | 12 |
| 2 | Bose-Einstein condensation of quasi-equilibrium magnons at room temperature under pumping. <i>Nature</i> , 2006 , 443, 430-3 | 50.4 | 598 |
| 1 | Some special features of the transition to chaos in the self-modulation of surface spin waves. <i>JETP Letters</i> , 1997 , 66, 261-265 | 1.2 | 11 |