

Vladislav Demidov

List of Publications by Citations

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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	Bose-Einstein condensation of quasi-equilibrium magnons at room temperature under pumping. <i>Nature</i> , 2006 , 443, 430-3	50.4	598
59	Generation of coherent spin-wave modes in yttrium iron garnet microdisks by spin-orbit torque. <i>Nature Communications</i> , 2016 , 7, 10377	17.4	173
58	Control of magnetic fluctuations by spin current. <i>Physical Review Letters</i> , 2011 , 107, 107204	7.4	124
57	Nanoconstriction-based spin-Hall nano-oscillator. <i>Applied Physics Letters</i> , 2014 , 105, 172410	3.4	117
56	Nanomagnonic devices based on the spin-transfer torque. <i>Nature Nanotechnology</i> , 2014 , 9, 509-13	28.7	112
55	Synchronization of spin Hall nano-oscillators to external microwave signals. <i>Nature Communications</i> , 2014 , 5, 3179	17.4	96
54	Observation of spontaneous coherence in Bose-Einstein condensate of magnons. <i>Physical Review Letters</i> , 2008 , 100, 047205	7.4	95
53	Excitation of short-wavelength spin waves in magnonic waveguides. <i>Applied Physics Letters</i> , 2011 , 99, 082507	3.4	82
52	Thermalization of a parametrically driven magnon gas leading to Bose-Einstein condensation. <i>Physical Review Letters</i> , 2007 , 99, 037205	7.4	76
51	Spin-current nano-oscillator based on nonlocal spin injection. <i>Scientific Reports</i> , 2015 , 5, 8578	4.9	73
50	The 2021 Magnonics Roadmap. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	69
49	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
48	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
47	Spin-wave propagation in ultra-thin YIG based waveguides. <i>Applied Physics Letters</i> , 2017 , 110, 092408	3.4	62
46	Nonlinear propagation of spin waves in microscopic magnetic stripes. <i>Physical Review Letters</i> , 2009 , 102, 177207	7.4	51
45	Magnon kinetics and Bose-Einstein condensation studied in phase space. <i>Physical Review Letters</i> , 2008 , 101, 257201	7.4	48
44	Wide-range control of ferromagnetic resonance by spin Hall effect. <i>Applied Physics Letters</i> , 2011 , 99, 172501	3.4	47

43	Mapping of localized spin-wave excitations by near-field Brillouin light scattering. <i>Applied Physics Letters</i> , 2010 , 97, 152502	3-4	46
42	Spin pumping by parametrically excited short-wavelength spin waves. <i>Applied Physics Letters</i> , 2011 , 99, 162502	3-4	44
41	Micromagnetic study of auto-oscillation modes in spin-Hall nano-oscillators. <i>Applied Physics Letters</i> , 2014 , 104, 042407	3-4	36
40	Spin Hall controlled magnonic microwaveguides. <i>Applied Physics Letters</i> , 2014 , 104, 152402	3-4	33
39	Optimization of Pt-based spin-Hall-effect spintronic devices. <i>Applied Physics Letters</i> , 2013 , 102, 132402	3-4	33
38	Bose-Einstein condensation of magnons under incoherent pumping. <i>Physical Review Letters</i> , 2009 , 102, 187205	7-4	32
37	Spin-torque nano-emitters for magnonic applications. <i>Applied Physics Letters</i> , 2012 , 100, 162406	3-4	31
36	Nonlinear hybridization of the fundamental eigenmodes of microscopic ferromagnetic ellipses. <i>Physical Review Letters</i> , 2010 , 104, 217203	7-4	29
35	Ginzburg-Landau model of Bose-Einstein condensation of magnons. <i>Physical Review B</i> , 2010 , 81,	3-3	29
34	Direct observation of dynamic modes excited in a magnetic insulator by pure spin current. <i>Scientific Reports</i> , 2016 , 6, 32781	4-9	26
33	Reconfigurable heat-induced spin wave lenses. <i>Applied Physics Letters</i> , 2016 , 109, 232407	3-4	26
32	Parametric excitation of magnetization oscillations controlled by pure spin current. <i>Physical Review B</i> , 2012 , 86,	3-3	25
31	Generation of the second harmonic by spin waves propagating in microscopic stripes. <i>Physical Review B</i> , 2011 , 83,	3-3	25
30	Spin Hall-induced auto-oscillations in ultrathin YIG grown on Pt. <i>Scientific Reports</i> , 2018 , 8, 1269	4-9	24
29	Chemical potential of quasi-equilibrium magnon gas driven by pure spin current. <i>Nature Communications</i> , 2017 , 8, 1579	17-4	24
28	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
27	Quantum coherence due to Bose-Einstein condensation of parametrically driven magnons. <i>New Journal of Physics</i> , 2008 , 10, 045029	2-9	21
26	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

25	Electrical properties of epitaxial yttrium iron garnet ultrathin films at high temperatures. <i>Physical Review B</i> , 2018 , 97,	3.3	20
24	Resonant frequency multiplication in microscopic magnetic dots. <i>Applied Physics Letters</i> , 2011 , 99, 012505	3.4	18
23	Monochromatic microwave radiation from the system of strongly excited magnons. <i>Applied Physics Letters</i> , 2008 , 92, 162510	3.4	15
22	Spin-orbit-torque magnonics. <i>Journal of Applied Physics</i> , 2020 , 127, 170901	2.5	14
21	Magnetic droplet solitons generated by pure spin currents. <i>Physical Review B</i> , 2017 , 96,	3.3	14
20	Route toward high-speed nano-magnonics provided by pure spin currents. <i>Applied Physics Letters</i> , 2016 , 109, 252401	3.4	13
19	Direct evidence of spatial stability of Bose-Einstein condensate of magnons. <i>Nature Communications</i> , 2020 , 11, 1691	17.4	12
18	Nanoconstriction spin-Hall oscillator with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , 2017 , 111, 032405	3.4	12
17	Excitation of two spatially separated Bose-Einstein condensates of magnons. <i>Physical Review B</i> , 2009 , 80,	3.3	12
16	Formation of longitudinal patterns and dimensionality crossover of nonlinear spin waves in ferromagnetic stripes. <i>Physical Review B</i> , 2006 , 74,	3.3	12
15	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
14	Excitation of coherent second sound waves in a dense magnon gas. <i>Scientific Reports</i> , 2019 , 9, 9063	4.9	10
13	Relation between unidirectional spin Hall magnetoresistance and spin current-driven magnon generation. <i>Applied Physics Letters</i> , 2018 , 113, 062403	3.4	9
12	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
11	Mutual synchronization of nano-oscillators driven by pure spin current. <i>Applied Physics Letters</i> , 2016 , 109, 162402	3.4	9
10	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
9	Sub-micrometer near-field focusing of spin waves in ultrathin YIG films. <i>Applied Physics Letters</i> , 2020 , 116, 062401	3.4	7
8	Spectral linewidth of spin-current nano-oscillators driven by nonlocal spin injection. <i>Applied Physics Letters</i> , 2015 , 107, 202402	3.4	5

7	Dynamic behavior of Ni ₈₀ Fe ₂₀ nanowires with controlled defects. <i>Applied Physics Letters</i> , 2014 , 104, 143105	3-4	5
6	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
5	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
4	Evidence for spin current driven Bose-Einstein condensation of magnons. <i>Nature Communications</i> , 2021 , 12, 6541	17-4	3
3	Efficient geometrical control of spin waves in microscopic YIG waveguides. <i>Applied Physics Letters</i> , 2021 , 119, 182401	3-4	1
2	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
1	Giant nonlinear self-phase modulation of large-amplitude spin waves in microscopic YIG waveguides.. <i>Scientific Reports</i> , 2022 , 12, 7246	4-9	0