

Inverse spin Hall effect in nanometer-thick yttrium iron

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Spin-wave-based computing devices. , 2014, , .		5
2	Spin Hall controlled magnonic microwaveguides. Applied Physics Letters, 2014, 104, .	1.5	38
3	Spin current generation from sputtered Y3Fe5O12 films. Journal of Applied Physics, 2014, 116, .	1.1	52
4	Pulsed laser deposition of epitaxial yttrium iron garnet films with low Gilbert damping and bulk-like magnetization. APL Materials, 2014, 2, .	2.2	183
5	Nonlinear spin-current enhancement enabled by spin-damping tuning. Nature Communications, 2014, 5, 5730.	5.8	25
6	Conduction of spin currents through insulating antiferromagnetic oxides. Europhysics Letters, 2014, 108, 57005.	0.7	145
7	Spin valve effect of the interfacial spin accumulation in yttrium iron garnet/platinum bilayers. Applied Physics Letters, 2014, 105, 132411.	1.5	11
8	Paramagnetic Spin Pumping. Physical Review Letters, 2014, 113, 266602.	2.9	49
9	Spin-wave excitation and propagation in microstructured waveguides of yttrium iron garnet/Pt bilayers. Applied Physics Letters, 2014, 104, .	1.5	147
10	Measurement of the intrinsic damping constant in individual nanodisks of Y3Fe5O12 and Y3Fe5O12 Pt. Applied Physics Letters, 2014, 104, .	1.5	65
11	Review and prospects of magnonic crystals and devices with reprogrammable band structure. Journal of Physics Condensed Matter, 2014, 26, 123202.	0.7	449
12	Full Control of the Spin-Wave Damping in a Magnetic Insulator Using Spin-Orbit Torque. Physical Review Letters, 2014, 113, 197203.	2.9	143
13	Spin Pumping and Inverse Spin Hall Effect in Platinum: The Essential Role of Spin-Memory Loss at Metallic Interfaces. Physical Review Letters, 2014, 112, 106602.	2.9	519
14	An angular analysis to separate spin pumping-induced inverse spin Hall effect from spin rectification in a Py/Pt bilayer. Journal Physics D: Applied Physics, 2014, 47, 285001.	1.3	30
15	Proximity Induced High-Temperature Magnetic Order in Topological Insulator - Ferrimagnetic Insulator Heterostructure. Nano Letters, 2014, 14, 3459-3465.	4.5	192
16	Radiative damping in waveguide-based ferromagnetic resonance measured via analysis of perpendicular standing spin waves in sputtered permalloy films. Physical Review B, 2015, 92, .	1.1	91
17	Spin pumping in YIG/Pt bilayers as a function of layer thickness. Physical Review B, 2015, 92, .	1.1	73
18	Spin-current emission governed by nonlinear spin dynamics. Scientific Reports, 2015, 5, 15158.	1.6	12

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20	Magnon spintronics. <i>Nature Physics</i> , 2015, 11, 453-461.	6.5	1,804
21	Thickness and power dependence of the spin-pumping effect in $Y_3Fe_5O_{12}/Pt$ heterostructures measured by the inverse spin Hall effect. <i>Physical Review B</i> , 2015, 91, .	1.1	13
22	Magneto-optical investigation of spin-orbit torques in metallic and insulating magnetic heterostructures. <i>Nature Communications</i> , 2015, 6, 8958.	5.8	80
23	Magnetic thin-film insulator with ultra-low spin wave damping for coherent nanomagnonics. <i>Scientific Reports</i> , 2014, 4, 6848.	1.6	189
24	Broadband stripline ferromagnetic resonance spectroscopy of ferromagnetic films, multilayers and nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 69, 253-293.	1.3	133
25	Hybrid yttrium iron garnet-ferromagnet structures for spin-wave devices. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	13
26	Optical spectroscopy of sputtered nanometer-thick yttrium iron garnet films. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	13
27	Magnonic Waveguides Studied by Microfocus Brillouin Light Scattering. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-15.	1.2	102
28	Inverse spin Hall effect of antiferromagnetic MnI _r in exchange biased NiFe/MnI _r films. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 345002.	1.3	8
29	Magnon Spintronics. , 2015, , 1-38.		1
30	Spin waves in micro-structured yttrium iron garnet nanometer-thick films. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	50
31	Thickness- and temperature-dependent magnetodynamic properties of yttrium iron garnet thin films. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	46
32	Growth and spin-wave properties of thin Y ₃ Fe ₅ O ₁₂ films on Si substrates. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	38
33	Magnetic field induced spin-wave energy focusing. <i>Physical Review B</i> , 2015, 92, .	1.1	15
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35	Spin pumping from spinwaves in thin film YIG. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	17
36	Yig Films With Low Magnetic Damping Obtained By Solgel On Silicon (100). <i>Materials Letters</i> , 2015, 161, 384-386.	1.3	29

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38	Measurements of the exchange stiffness of YIG films using broadband ferromagnetic resonance techniques. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 015001.	1.3	123
39	Yttrium Iron Garnet Thin Films with Very Low Damping Obtained by Recrystallization of Amorphous Material. <i>Scientific Reports</i> , 2016, 6, 20827.	1.6	182
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41	Approaching soft X-ray wavelengths in nanomagnet-based microwave technology. <i>Nature Communications</i> , 2016, 7, 11255.	5.8	137
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43	Direct observation of dynamic modes excited in a magnetic insulator by pure spin current. <i>Scientific Reports</i> , 2016, 6, 32781.	1.6	30
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45	Absence of anomalous Nernst effect in spin Seebeck effect of Pt/YIG. <i>AIP Advances</i> , 2016, 6, .	0.6	37
46	Spin-transfer torque based damping control of parametrically excited spin waves in a magnetic insulator. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	36
47	Exceptionally high magnetization of stoichiometric Y3Fe5O12 epitaxial films grown on Gd3Ga5O12. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	37
48	Thin yttrium iron garnet films grown by pulsed laser deposition: Crystal structure, static, and dynamic magnetic properties. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	53
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56	Spin-torque generator engineered by natural oxidation of Cu. <i>Nature Communications</i> , 2016, 7, 13069.	5.8	128
57	Short-Wavelength Spin Waves in Yttrium Iron Garnet Micro-Channels on Silicon. <i>IEEE Magnetics Letters</i> , 2016, 7, 1-4.	0.6	13
58	Investigation of the unidirectional spin heat conveyer effect in a 200-nm thin Yttrium Iron Garnet film. <i>Scientific Reports</i> , 2016, 6, 28233.	1.6	52
59	Generation of coherent spin-wave modes in yttrium iron garnet microdiscs by spin-orbit torque. <i>Nature Communications</i> , 2016, 7, 10377.	5.8	206
60	Epitaxial patterning of nanometer-thick $\text{Y}_3\text{Fe}_5\text{O}_{12}$ films with low magnetic damping. <i>Nanoscale</i> , 2016, 8, 388-394.	2.8	41
61	Thermal spin transfer torque in Fe Ag YIG multilayers. <i>Frontiers of Physics</i> , 2017, 12, 1.	2.4	1
62	Spin Seebeck effect in nanometer-thick YIG micro-fabricated strips. <i>AIP Advances</i> , 2017, 7, 055924.	0.6	5
63	Spin-wave propagation in ultra-thin YIG based waveguides. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	91
64	Magnetic properties of spin waves in thin yttrium iron garnet films. <i>Physical Review B</i> , 2017, 95, .	1.1	26
65	Bolometric detection of ferromagnetic resonance in YIG slab. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 439, 53-56.	1.0	3
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71	Sub-micrometer yttrium iron garnet LPE films with low ferromagnetic resonance losses. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 204005.	1.3	105
72	Role of damping in spin Seebeck effect in yttrium iron garnet thin films. <i>Science Advances</i> , 2017, 3, e1601614.	4.7	42

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97	Reduced interfacial magnetic moment of Y3Fe5O12 by capping Pt. Applied Physics Letters, 2018, 113, 182402.	1.5	7
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111	Probe of spin dynamics in superconducting NbN thin films via spin pumping. Physical Review B, 2018, 97, .	1.1	49
112	Pure spin currents in magnetically ordered insulator/normal metal heterostructures. Journal Physics D: Applied Physics, 2018, 51, 313001.	1.3	41
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119	Nutation Spectroscopy of a Nanomagnet Driven into Deeply Nonlinear Ferromagnetic Resonance. Physical Review X, 2019, 9, .	2.8	24
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131	Determination of spin Hall angle, spin mixing conductance, and spin diffusion length in CoFeB/Ir for spin-orbitronic devices. <i>Physical Review B</i> , 2020, 102, .	1.1	35
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133	Quantum Spin-Wave Materials, Interface Effects and Functional Devices for Information Applications. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	4
134	Continuous ferrimagnetic Y3Fe5O12 layers on the ceramic PbZr0.45Ti0.55O3 substrates. <i>Ceramics International</i> , 2020, 46, 22049-22056.	2.3	4
135	Magnetization dynamics in artificial spin ice. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 013001.	0.7	50
136	Ultra Thin Films of Yttrium Iron Garnet with Very Low Damping: A Review. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900644.	0.7	61
137	Low Current Densities Toggle Optical Polarization Switching in Pt/Yttrium Iron Garnet Magnetic Heterostructures Using Energy Resolution. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000223.	1.2	0
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146	Nanoscale magnonic Fabry-Pérot resonator for low-loss spin-wave manipulation. <i>Nature Communications</i> , 2021, 12, 2293.	5.8	53
147	Room-Temperature Antiferromagnetic Resonance and Inverse Spin-Hall Voltage in Canted Antiferromagnets. <i>Physical Review Letters</i> , 2021, 126, 187201.	2.9	39
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151	Dispersionless Propagation of Ultrashort Spin-Wave Pulses in Ultrathin Yttrium Iron Garnet Waveguides. <i>Physical Review Applied</i> , 2021, 16, .	1.5	6
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153	Ferrimagnetic insulators for spintronics: Beyond garnets. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	30
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155	Magnon Spintronics. , 2016, , 1505-1549.		5
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157	Predicted strong coupling of solid-state spins via a single magnon mode. <i>Materials for Quantum Technology</i> , 2021, 1, 011001.	1.2	30
158	Role of gallium diffusion in the formation of a magnetically dead layer at the $Y_3Fe_5O_{12}/Pt$ interface. <i>Physical Review Materials</i> , 2018, 2, .	0.9	11
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161	Low damping and microstructural perfection of sub-40nm-thin yttrium iron garnet films grown by liquid phase epitaxy. <i>Physical Review Materials</i> , 2020, 4, .	0.9	49
162	Ferromagnetic resonances in single-crystal yttrium iron garnet nanofilms fabricated by metal-organic decomposition. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	3

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164	Reduced spin damping in inverse spinel Mn ₂ TiO ₄ by ordered occupancy of magnetic ions. Journal of Magnetism and Magnetic Materials, 2022, 546, 168864.	1.0	1
165	Interplay Between Nonlinear Spectral Shift and Nonlinear Damping of Spin Waves in Ultrathin Yttrium Iron Garnet Waveguides. Physical Review Applied, 2022, 17, .	1.5	6
166	Transparent spin thermoelectricity with enhanced energy conversion. Nano Energy, 2022, 98, 107224.	8.2	2
167	Anomalous Gilbert damping and Duffing features of the superconductor-ferromagnet-superconductor $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle \text{mml:msub}>\langle \text{mml:mi}>\text{I}\langle \text{mml:mi}>\langle \text{mml:mn}>0\langle \text{mml:mn}>\langle \text{mml:msub}>\langle \text{mml:tr} \rangle \text{Josephson junction. Physical Review B, 2021, 104, .$	1.1	7
168	Bismuth doping enhanced tunability of strain-controlled magnetic anisotropy in epitaxial Y ₃ Fe ₅ O ₁₂ (111) films. Chinese Physics B, 2023, 32, 027501.	0.7	6
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