

Burkard Hillebrands

List of Publications by Year in descending order

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462
papers

25,403
citations

8181

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9345

143
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471
all docs

471
docs citations

471
times ranked

9346
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Magnon spintronics. Nature Physics, 2015, 11, 453-461. | 16.7 | 1,804 |
| 2 | YIG magnonics. Journal Physics D: Applied Physics, 2010, 43, 264002. | 2.8 | 1,024 |
| 3 | Bose-Einstein condensation of quasi-equilibrium magnons at room temperature under pumping. Nature, 2006, 443, 430-433. | 27.8 | 732 |
| 4 | Review on spintronics: Principles and device applications. Journal of Magnetism and Magnetic Materials, 2020, 509, 166711. | 2.3 | 711 |
| 5 | Magnon transistor for all-magnon data processing. Nature Communications, 2014, 5, 4700. | 12.8 | 632 |
| 6 | Realization of spin-wave logic gates. Applied Physics Letters, 2008, 92, . | 3.3 | 584 |
| 7 | Brillouin light scattering studies of confined spin waves: linear and nonlinear confinement. Physics Reports, 2001, 348, 441-489. | 25.6 | 493 |
| 8 | Spin-wave logical gates. Applied Physics Letters, 2005, 87, 153501. | 3.3 | 403 |
| 9 | Spin Wave Wells in Nonellipsoidal Micrometer Size Magnetic Elements. Physical Review Letters, 2002, 88, 047204. | 7.8 | 373 |
| 10 | The 2014 Magnetism Roadmap. Journal Physics D: Applied Physics, 2014, 47, 333001. | 2.8 | 329 |
| 11 | Realization of a spin-wave multiplexer. Nature Communications, 2014, 5, 3727. | 12.8 | 314 |
| 12 | Magnonic crystals for data processing. Journal Physics D: Applied Physics, 2017, 50, 244001. | 2.8 | 309 |
| 13 | Effective dipolar boundary conditions for dynamic magnetization in thin magnetic stripes. Physical Review B, 2002, 66, . | 3.2 | 297 |
| 14 | The 2021 Magnonics Roadmap. Journal of Physics Condensed Matter, 2021, 33, 413001. | 1.8 | 287 |
| 15 | The 2017 Magnetism Roadmap. Journal Physics D: Applied Physics, 2017, 50, 363001. | 2.8 | 279 |
| 16 | Spin Pumping by Parametrically Excited Exchange Magnons. Physical Review Letters, 2011, 106, 216601. | 7.8 | 256 |
| 17 | Spin-wave calculations for multilayered structures. Physical Review B, 1990, 41, 530-540. | 3.2 | 244 |
| 18 | Crystal-field excitations in CeB ₆ studied by Raman and neutron spectroscopy. Physical Review B, 1984, 30, 4052-4054. | 3.2 | 239 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Long-range spin Seebeck effect and acoustic spin pumping. <i>Nature Materials</i> , 2011, 10, 737-741. | 27.5 | 235 |
| 20 | Magnetic anisotropies of ultrathin Co(001) films on Cu(001). <i>Physical Review Letters</i> , 1992, 69, 3674-3677. | 7.8 | 225 |
| 21 | Magnetic anisotropy, exchange and damping in cobalt-based full-Heusler compounds: an experimental review. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 193001. | 2.8 | 215 |
| 22 | Micro-focused Brillouin light scattering: imaging spin waves at the nanoscale. <i>Frontiers in Physics</i> , 2015, 3, . | 2.1 | 215 |
| 23 | Lateral Quantization of Spin Waves in Micron Size Magnetic Wires. <i>Physical Review Letters</i> , 1998, 81, 3968-3971. | 7.8 | 202 |
| 24 | Pulsed laser deposition of epitaxial yttrium iron garnet films with low Gilbert damping and bulk-like magnetization. <i>APL Materials</i> , 2014, 2, . | 5.1 | 183 |
| 25 | Scattering of backward spin waves in a one-dimensional magnonic crystal. <i>Applied Physics Letters</i> , 2008, 93, . | 3.3 | 182 |
| 26 | Switching behavior of a Stoner particle beyond the relaxation time limit. <i>Physical Review B</i> , 2000, 61, 3410-3416. | 3.2 | 176 |
| 27 | Brillouin light scattering from quantized spin waves in micron-size magnetic wires. <i>Physical Review B</i> , 1999, 60, 15194-15200. | 3.2 | 175 |
| 28 | Advances in coherent magnonics. <i>Nature Reviews Materials</i> , 2021, 6, 1114-1135. | 48.7 | 170 |
| 29 | Spin-wave propagation in a microstructured magnonic crystal. <i>Applied Physics Letters</i> , 2009, 95, . | 3.3 | 168 |
| 30 | Length Scale of the Spin Seebeck Effect. <i>Physical Review Letters</i> , 2015, 115, 096602. | 7.8 | 163 |
| 31 | All-linear time reversal by a dynamic artificial crystal. <i>Nature Communications</i> , 2010, 1, 141. | 12.8 | 159 |
| 32 | A current-controlled, dynamic magnonic crystal. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 205005. | 2.8 | 158 |
| 33 | Experimental prototype of a spin-wave majority gate. <i>Applied Physics Letters</i> , 2017, 110, . | 3.3 | 158 |
| 34 | Phase Coherent Precessional Magnetization Reversal in Microscopic Spin Valve Elements. <i>Physical Review Letters</i> , 2003, 90, 017201. | 7.8 | 155 |
| 35 | Construction and performance of a Brillouin scattering set-up using a triple-pass tandem Fabry-Perot interferometer. <i>Journal of Physics E: Scientific Instruments</i> , 1987, 20, 656-659. | 0.7 | 153 |
| 36 | Reconfigurable nanoscale spin-wave directional coupler. <i>Science Advances</i> , 2018, 4, e1701517. | 10.3 | 150 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Optically reconfigurable magnetic materials. Nature Physics, 2015, 11, 487-491. | 16.7 | 149 |
| 38 | Spin-wave excitation and propagation in microstructured waveguides of yttrium iron garnet/Pt bilayers. Applied Physics Letters, 2014, 104, . | 3.3 | 147 |
| 39 | Phase reciprocity of spin-wave excitation by a microstrip antenna. Physical Review B, 2008, 77, . | 3.2 | 146 |
| 40 | Spin-wave excitations in finite rectangular elements of Ni ₈₀ Fe ₂₀ . Physical Review B, 2005, 72, . | 3.2 | 143 |
| 41 | Design of a spin-wave majority gate employing mode selection. Applied Physics Letters, 2014, 105, . | 3.3 | 143 |
| 42 | Local manipulation and reversal of the exchange bias field by ion irradiation in FeNi/FeMn double layers. Physical Review B, 2001, 63, . | 3.2 | 135 |
| 43 | Magnetic domain-wall motion by propagating spin waves. Applied Physics Letters, 2009, 94, . | 3.3 | 134 |
| 44 | Spin-Wave Eigenmodes of Permalloy Squares with a Closure Domain Structure. Physical Review Letters, 2005, 94, 057202. | 7.8 | 133 |
| 45 | Enhancement of the spin pumping efficiency by spin wave mode selection. Applied Physics Letters, 2010, 97, . | 3.3 | 131 |
| 46 | Spin waves turning a corner. Applied Physics Letters, 2012, 101, 042410. | 3.3 | 131 |
| 47 | Unidirectional spin-wave heat conveyer. Nature Materials, 2013, 12, 549-553. | 27.5 | 125 |
| 48 | Supercurrent in a room-temperature Bose-Einstein magnon condensate. Nature Physics, 2016, 12, 1057-1062. | 16.7 | 125 |
| 49 | Measurements of the exchange stiffness of YIG films using broadband ferromagnetic resonance techniques. Journal Physics D: Applied Physics, 2015, 48, 015001. | 2.8 | 123 |
| 50 | Direct detection of magnon spin transport by the inverse spin Hall effect. Applied Physics Letters, 2012, 100, . | 3.3 | 121 |
| 51 | Scattering of surface and volume spin waves in a magnonic crystal. Applied Physics Letters, 2009, 94, . | 3.3 | 117 |
| 52 | Anisotropic magnetic coupling of permalloy micron dots forming a square lattice. Applied Physics Letters, 1997, 70, 2912-2914. | 3.3 | 114 |
| 53 | Thickness and power dependence of the spin-pumping effect in Y ₃ Fe ₅ O ₁₂ /Pt heterostructures measured by the inverse spin Hall effect. Physical Review B, 2015, 91, . | 3.3 | 114 |
| 54 | Improvement of the yttrium iron garnet/platinum interface for spin pumping-based applications. Applied Physics Letters, 2013, 103, . | 3.3 | 109 |

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|----|---|------|-----------|
| 55 | Direct Measurement of Magnon Temperature: New Insight into Magnon-Phonon Coupling in Magnetic Insulators. <i>Physical Review Letters</i> , 2013, 111, 107204. | 7.8 | 109 |
| 56 | Roadmap on STIRAP applications. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 202001. | 1.5 | 108 |
| 57 | Tunneling of Dipolar Spin Waves through a Region of Inhomogeneous Magnetic Field. <i>Physical Review Letters</i> , 2004, 93, 047201. | 7.8 | 107 |
| 58 | Progress in multipass tandem Fabry-Perot interferometry: I. A fully automated, easy to use, self-aligning spectrometer with increased stability and flexibility. <i>Review of Scientific Instruments</i> , 1999, 70, 1589-1598. | 1.3 | 106 |
| 59 | A spin-wave logic gate based on a width-modulated dynamic magnonic crystal. <i>Applied Physics Letters</i> , 2015, 106, . | 3.3 | 104 |
| 60 | Nondiffractive Subwavelength Wave Beams in a Medium with Externally Controlled Anisotropy. <i>Physical Review Letters</i> , 2010, 104, 197203. | 7.8 | 102 |
| 61 | Bose-Einstein condensation in an ultra-hot gas of pumped magnons. <i>Nature Communications</i> , 2014, 5, 3452. | 12.8 | 101 |
| 62 | Magnetoelastic modes and lifetime of magnons in thin yttrium iron garnet films. <i>Physical Review B</i> , 2014, 89, . | 3.2 | 99 |
| 63 | Experimental observation of symmetry-breaking nonlinear modes in an active ring. <i>Nature</i> , 2003, 426, 159-162. | 27.8 | 98 |
| 64 | Suppression of exchange bias by ion irradiation. <i>Applied Physics Letters</i> , 2000, 76, 1057-1059. | 3.3 | 97 |
| 65 | Radiation of spin waves by a single micrometer-sized magnetic element. <i>Applied Physics Letters</i> , 2004, 85, 2866-2868. | 3.3 | 97 |
| 66 | Spin-wave logic devices based on isotropic forward volume magnetostatic waves. <i>Applied Physics Letters</i> , 2015, 106, . | 3.3 | 95 |
| 67 | Oscillatory Surface In-Plane Lattice Spacing during Growth of Co and of Cu on a Cu(001) Single Crystal. <i>Physical Review Letters</i> , 1995, 75, 4476-4479. | 7.8 | 93 |
| 68 | Observation of Spatiotemporal Self-Focusing of Spin Waves in Magnetic Films. <i>Physical Review Letters</i> , 1998, 81, 3769-3772. | 7.8 | 91 |
| 69 | Spin-wave wells with multiple states created in small magnetic elements. <i>Applied Physics Letters</i> , 2003, 82, 607-609. | 3.3 | 90 |
| 70 | Elastic and magnetoelastic effects in CeB6. <i>European Physical Journal B</i> , 1984, 58, 31-38. | 1.5 | 86 |
| 71 | Magnon-fluxon interaction in a ferromagnet/superconductor heterostructure. <i>Nature Physics</i> , 2019, 15, 477-482. | 16.7 | 83 |
| 72 | Suppression of magnetic-field pulse-induced magnetization precession by pulse tailoring. <i>Applied Physics Letters</i> , 2000, 76, 2758-2760. | 3.3 | 81 |

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|----|--|------|-----------|
| 73 | Linear and nonlinear diffraction of dipolar spin waves in yttrium iron garnet films observed by space- and time-resolved Brillouin light scattering. <i>Physical Review B</i> , 2000, 61, 11576-11587. | 3.2 | 80 |
| 74 | Low-damping spin-wave propagation in a micro-structured $\text{Co}_{2.0}\text{Mn}_{0.6}\text{Fe}_{0.4}\text{Si}$ Heusler waveguide. <i>Applied Physics Letters</i> , 2012, 100, 112402. | 3.3 | 80 |
| 75 | All-optical observation and reconstruction of spin wave dispersion. <i>Nature Communications</i> , 2017, 8, 15859. | 12.8 | 80 |
| 76 | Huge quadratic magneto-optical Kerr effect and magnetization reversal in the Co_2FeSi Heusler compound. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1563-1569. | 2.8 | 79 |
| 77 | Spin-wave quantization and dynamic coupling in micron-size circular magnetic dots. <i>Applied Physics Letters</i> , 1999, 75, 3859-3861. | 3.3 | 78 |
| 78 | Parallel pumping for magnon spintronics: Amplification and manipulation of magnon spin currents on the micron-scale. <i>Physics Reports</i> , 2017, 699, 1-34. | 25.6 | 78 |
| 79 | Low spin-wave damping in amorphous $\text{Co}_{40}\text{Fe}_{40}\text{B}_{20}$ thin films. <i>Journal of Applied Physics</i> , 2013, 113, . | 2.5 | 77 |
| 80 | Evidence for the existence of guided longitudinal acoustic phonons in ZnSe films on GaAs. <i>Physical Review Letters</i> , 1988, 60, 832-835. | 7.8 | 76 |
| 81 | A micro-structured ion-implanted magnonic crystal. <i>Applied Physics Letters</i> , 2013, 102, . | 3.3 | 75 |
| 82 | Structural relaxation and magnetic anisotropy in $\text{Co}/\text{Cu}(001)$ films. <i>Physical Review B</i> , 1996, 54, 4075-4079. | 3.2 | 74 |
| 83 | Storage-Recovery Phenomenon in Magnonic Crystal. <i>Physical Review Letters</i> , 2012, 108, 257207. | 7.8 | 74 |
| 84 | Magnetic anisotropies of ultrathin Co films on $\text{Cu}(111)$ substrates. <i>Physical Review B</i> , 1994, 49, 3633-3636. | 3.2 | 73 |
| 85 | In situ Brillouin scattering from surface-anisotropy-dominated Damon-Eshbach modes in ultrathin epitaxial $\text{Fe}(110)$ layers. <i>Physical Review B</i> , 1987, 36, 2450-2453. | 3.2 | 72 |
| 86 | Design and optimization of one-dimensional ferrite-film based magnonic crystals. <i>Journal of Applied Physics</i> , 2009, 105, . | 2.5 | 70 |
| 87 | Calculation of spin waves in multilayered structures including interface anisotropies and exchange contributions. <i>Physical Review B</i> , 1988, 37, 9885-9888. | 3.2 | 69 |
| 88 | Microwave assisted switching in a $\text{Ni}_{81}\text{Fe}_{19}$ ellipsoid. <i>Applied Physics Letters</i> , 2007, 90, 062503. | 3.3 | 69 |
| 89 | Annealing influence on the Gilbert damping parameter and the exchange constant of CoFeB thin films. <i>Applied Physics Letters</i> , 2014, 104, . | 3.3 | 69 |
| 90 | Resonant and nonresonant scattering of dipole-dominated spin waves from a region of inhomogeneous magnetic field in a ferromagnetic film. <i>Physical Review B</i> , 2007, 76, . | 3.2 | 68 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Nonlinear Emission of Spin-Wave Caustics from an Edge Mode of a Microstructured $\frac{d}{dx} \left(\frac{1}{\mu} \frac{d\psi}{dx} \right) + \left(\frac{1}{\mu} - k^2 \right) \psi = 0$ Physical Review Letters, 2013, 110, 067201. | 7.8 | 68 |
| 92 | Induced anisotropies in exchange-coupled systems on rippled substrates. Physical Review B, 2007, 75, . | 3.2 | 66 |
| 93 | Oscillatory exchange bias effect in FeNi/Cu/FeMn and FeNi/Cr/FeMn trilayer systems. Journal of Applied Physics, 2000, 87, 5064-5066. | 2.5 | 65 |
| 94 | The role of the non-magnetic material in spin pumping and magnetization dynamics in NiFe and CoFeB multilayer systems. Journal of Applied Physics, 2015, 117, 163901. | 2.5 | 65 |
| 95 | Influence of the L21 ordering degree on the magnetic properties of Co ₂ MnSi Heusler films. Journal of Applied Physics, 2008, 103, . | 2.5 | 63 |
| 96 | Brillouin light scattering spectroscopy of parametrically excited dipole-exchange magnons. Physical Review B, 2012, 86, . | 3.2 | 63 |
| 97 | Role of bulk-magnon transport in the temporal evolution of the longitudinal spin-Seebeck effect. Physical Review B, 2014, 89, . | 3.2 | 62 |
| 98 | Voltage-controlled nanoscale reconfigurable magnonic crystal. Physical Review B, 2017, 95, . | 3.2 | 62 |
| 99 | Lack of correlation between the spin-mixing conductance and the inverse spin Hall effect generated voltages in CoFeB/Pt and CoFeB/Ta bilayers. Physical Review B, 2017, 95, . | 3.2 | 62 |
| 100 | Brillouin scattering from collective spin waves in magnetic superlattices (invited). Journal of Applied Physics, 1988, 63, 3880-3884. | 2.5 | 61 |
| 101 | Critical properties of nanoporous low dielectric constant films revealed by Brillouin light scattering and surface acoustic wave spectroscopy. Applied Physics Letters, 2002, 80, 4594-4596. | 3.3 | 60 |
| 102 | Bottleneck Accumulation of Hybrid Magnetoelastic Bosons. Physical Review Letters, 2017, 118, 237201. | 7.8 | 60 |
| 103 | Magneto-optic ellipsometry in multilayers at arbitrary magnetization. Optics Express, 2001, 9, 121. | 3.4 | 59 |
| 104 | Phase shift of spin waves traveling through a 180° Bloch-domain wall. IEEE Transactions on Magnetics, 2005, 41, 3094-3096. | 2.1 | 59 |
| 105 | Mode conversion by symmetry breaking of propagating spin waves. Applied Physics Letters, 2011, 99, . | 3.3 | 59 |
| 106 | Magnetic micropatterning of FeNi/FeMn exchange bias bilayers by ion irradiation. Journal of Applied Physics, 2001, 89, 6606-6608. | 2.5 | 58 |
| 107 | Control of Interlayer Exchange Coupling in Fe/Cr/Fe Trilayers by Ion Beam Irradiation. Physical Review Letters, 2003, 90, 097201. | 7.8 | 58 |
| 108 | Surface-grating-induced zone folding and hybridization of surface acoustic modes. Physical Review Letters, 1992, 68, 2464-2467. | 7.8 | 57 |

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|-----|---|------|-----------|
| 109 | Phase-sensitive Brillouin light scattering spectroscopy from spin-wave packets. Applied Physics Letters, 2006, 89, 063506. | 3.3 | 57 |
| 110 | All-optical detection of phase fronts of propagating spin waves in a Ni81Fe19 microstripe. Applied Physics Letters, 2009, 95, 182508. | 3.3 | 57 |
| 111 | Determination of the whole set of elastic constants of a polymeric Langmuir-Blodgett film by Brillouin spectroscopy. Physical Review B, 1989, 40, 3323-3328. | 3.2 | 55 |
| 112 | Interference of coherent spin waves in micron-sized ferromagnetic waveguides. Physica Status Solidi (B): Basic Research, 2011, 248, 2404-2408. | 1.5 | 55 |
| 113 | Study of fully epitaxial Fe/Pt bilayers for spin pumping by ferromagnetic resonance spectroscopy. Physical Review B, 2016, 93, . | 3.2 | 55 |
| 114 | Brillouin light scattering on chemical-vapor-deposited polycrystalline diamond: Evaluation of the elastic moduli. Applied Physics Letters, 1991, 59, 1055-1057. | 3.3 | 54 |
| 115 | Dipolar interactions and the magnetic behavior of two-dimensional ferromagnetic systems. Physical Review B, 1991, 44, 12417-12423. | 3.2 | 54 |
| 116 | Observation of Coherence and Partial Decoherence of Quantized Spin Waves in Nanoscaled Magnetic Ring Structures. Physical Review Letters, 2008, 100, 047204. | 7.8 | 54 |
| 117 | Brillouin light scattering investigations of structured permalloy films. Journal of Applied Physics, 1997, 81, 4993-4995. | 2.5 | 52 |
| 118 | Wide-range wavevector selectivity of magnon gases in Brillouin light scattering spectroscopy. Review of Scientific Instruments, 2010, 81, 073902. | 1.3 | 52 |
| 119 | Sign of inverse spin Hall voltages generated by ferromagnetic resonance and temperature gradients in yttrium iron garnet platinum bilayers. Journal Physics D: Applied Physics, 2015, 48, 025001. | 2.8 | 52 |
| 120 | Bose-Einstein condensation of quasiparticles by rapid cooling. Nature Nanotechnology, 2020, 15, 457-461. | 31.5 | 52 |
| 121 | Control of Spin-Wave Propagation using Magnetisation Gradients. Scientific Reports, 2018, 8, 11099. | 3.3 | 51 |
| 122 | Reverse Doppler effect of magnons with negative group velocity scattered from a moving Bragg grating. Physical Review B, 2010, 81, . | 3.2 | 49 |
| 123 | Self-Generation of Two-Dimensional Spin-Wave Bullets. Physical Review Letters, 2004, 92, 117203. | 7.8 | 48 |
| 124 | Parametrically Stimulated Recovery of a Microwave Signal Stored in Standing Spin-Wave Modes of a Magnetic Film. Physical Review Letters, 2007, 99, 227202. | 7.8 | 48 |
| 125 | Oscillatory Energy Exchange between Waves Coupled by a Dynamic Artificial Crystal. Physical Review Letters, 2012, 108, 015505. | 7.8 | 48 |
| 126 | Dispersion of localized elastic modes in thin supported gold layers measured by Brillouin scattering. Journal of Applied Physics, 1985, 58, 3166-3168. | 2.5 | 47 |

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| 127 | Enhanced coercivity of exchange-bias Fe/MnPd bilayers. Applied Physics Letters, 1999, 75, 707-709. | 3.3 | 47 |
| 128 | Spin wave quantization in laterally confined magnetic structures (invited). Journal of Applied Physics, 2001, 89, 7091-7095. | 2.5 | 47 |
| 129 | Determination of exchange constants of Heusler compounds by Brillouin light scattering spectroscopy: application to Co_2MnSi . Journal Physics D: Applied Physics, 2009, 42, 084005. | 2.8 | 47 |
| 130 | Temporal evolution of inverse spin Hall effect voltage in a magnetic insulator-nonmagnetic metal structure. Applied Physics Letters, 2011, 99, . Effect of annealing on Co | 3.3 | 47 |
| 131 | $\frac{2}{\text{FeAl}}$ | 3.2 | 46 |
| 132 | Direct observation of nonlinear four-magnon scattering in spin-wave microconduits. Physical Review B, 2012, 86, . | 3.2 | 46 |
| 133 | Heat-induced damping modification in yttrium iron garnet/platinum hetero-structures. Applied Physics Letters, 2013, 102, . | 3.3 | 46 |
| 134 | Localized phonon modes in Fe-Pd multilayer structures. Physical Review B, 1986, 34, 9004-9007. | 3.2 | 45 |
| 135 | Brillouin light scattering investigations of exchange biased (110)-oriented NiFe/FeMn bilayers. Journal of Applied Physics, 1998, 83, 2863-2865. | 2.5 | 45 |
| 136 | Angular dependence and phase diagrams of exchange-coupled epitaxial $\text{Ni}_{81}\text{Fe}_{19}/\text{Fe}_{50}\text{Mn}_{50}(001)$ bilayers. Physical Review B, 2002, 65, . | 3.2 | 45 |
| 137 | Spinwaves in Laterally Confined Magnetic Structures. , 2002, , 65-92. | | 45 |
| 138 | Elastic properties of epitaxial ZnSe(001) films on GaAs measured by Brillouin spectroscopy. Journal of Applied Physics, 1988, 63, 1914-1916. | 2.5 | 44 |
| 139 | Collective spin waves in Fe-Pd and Fe-W multilayer structures. Physical Review B, 1986, 34, 9000-9003. | 3.2 | 43 |
| 140 | Direct observation of two-dimensional self-focusing of spin waves in magnetic films. Physical Review B, 1997, 56, R8483-R8486. | 3.2 | 43 |
| 141 | Backscattering Immunity of Dipole-Exchange Magnetostatic Surface Spin Waves. Physical Review Letters, 2019, 122, 197201. | 7.8 | 43 |
| 142 | Correlation between structure and magnetic anisotropies of Co on Cu(110). Physical Review B, 1998, 57, 5870-5878. | 3.2 | 42 |
| 143 | Structure, exchange stiffness, and magnetic anisotropy of $\text{Co}_2\text{MnAl}_x\text{Si}_{1-x}$ Heusler compounds. Journal of Applied Physics, 2009, 106, . | 2.5 | 42 |
| 144 | Bogoliubov waves and distant transport of magnon condensate at room temperature. Nature Communications, 2019, 10, 2460. | 12.8 | 42 |

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|-----|--|-----|-----------|
| 145 | Magnetic properties of Co/Pd multilayers determined by Brillouin light scattering and SQUID magnetometry. <i>Journal of Applied Physics</i> , 1991, 69, 2448-2454. | 2.5 | 41 |
| 146 | Direct Current Control of Three Magnon Scattering Processes in Spin-Valve Nanocontacts. <i>Physical Review Letters</i> , 2009, 103, 157202. | 7.8 | 41 |
| 147 | Generation of propagating backward volume spin waves by phase-sensitive mode conversion in two-dimensional microstructures. <i>Applied Physics Letters</i> , 2013, 102, . | 3.3 | 40 |
| 148 | Determination of the sound velocities and the complete set of elastic constants for Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ single crystals using Brillouin light scattering. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 179, 101-106. | 1.2 | 39 |
| 149 | Oscillatory interlayer exchange coupling of Co/Ru multilayers investigated by Brillouin light scattering. <i>Physical Review B</i> , 1992, 46, 5810-5813. | 3.2 | 39 |
| 150 | Tuning exchange bias and coercive fields in ferromagnet/antiferromagnet bilayers with ion irradiation. <i>Journal of Applied Physics</i> , 2002, 91, 6896. | 2.5 | 39 |
| 151 | Direct observation of domain wall structures in curved permalloy wires containing an antinotch. <i>Journal of Applied Physics</i> , 2008, 103, . | 2.5 | 39 |
| 152 | Magnonic band gap design by the edge modulation of micro-sized waveguides. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 255002. | 2.8 | 39 |
| 153 | Parametric Generation of Forward and Phase-Conjugated Spin-Wave Bullets in Magnetic Films. <i>Physical Review Letters</i> , 2005, 94, 167202. | 7.8 | 38 |
| 154 | Spin-wave propagation across periodically corrugated thin metallic ferromagnetic films. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 161, 199-202. | 2.3 | 37 |
| 155 | Suppression of the magnetocrystalline bulk anisotropy in thin epitaxial Co(110) films on Cu(110). <i>Physical Review B</i> , 1996, 53, R10548-R10551. | 3.2 | 37 |
| 156 | Spin-wave propagation and transformation in a thermal gradient. <i>Applied Physics Letters</i> , 2012, 101, 192406. | 3.3 | 37 |
| 157 | Elastic properties of thin h-BN films investigated by Brillouin light scattering. <i>Thin Solid Films</i> , 1999, 353, 137-143. | 1.8 | 36 |
| 158 | Magnonic crystal based forced dominant wavenumber selection in a spin-wave active ring. <i>Applied Physics Letters</i> , 2010, 96, . | 3.3 | 36 |
| 159 | Spin-transfer torque based damping control of parametrically excited spin waves in a magnetic insulator. <i>Applied Physics Letters</i> , 2016, 108, . | 3.3 | 36 |
| 160 | Sound velocities of YBa ₂ Cu ₃ O _{7-δ} single crystals measured by Brillouin spectroscopy. <i>Solid State Communications</i> , 1989, 69, 1135-1137. | 1.9 | 35 |
| 161 | Magnonic band gaps in waveguides with a periodic variation of the saturation magnetization. <i>Physical Review B</i> , 2013, 88, . | 3.2 | 35 |
| 162 | Brillouin light scattering from spin waves in magnetic layers and multilayers. <i>Applied Physics A: Solids and Surfaces</i> , 1989, 49, 589-598. | 1.4 | 34 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 163 | Origin of very large in-plane anisotropies in (110)-oriented Co/Pd and Co/Pt coherent superlattices. <i>Physical Review B</i> , 1993, 47, 6126-6129. | 3.2 | 34 |
| 164 | Collisions of Spin Wave Envelope Solitons and Self-Focused Spin Wave Packets in Yttrium Iron Garnet Films. <i>Physical Review Letters</i> , 1999, 82, 4320-4323. | 7.8 | 34 |
| 165 | New materials with high spin polarization: half-metallic Heusler compounds. <i>Journal Physics D: Applied Physics</i> , 2007, 40, . | 2.8 | 34 |
| 166 | Magnetization reversal of in-plane uniaxial Co films and its dependence on epitaxial alignment. <i>Journal of Applied Physics</i> , 2014, 115, . | 2.5 | 34 |
| 167 | Probing interface magnetism in the FeMn/NiFe exchange bias system using magnetic second-harmonic generation. <i>Europhysics Letters</i> , 2003, 63, 819-825. | 2.0 | 33 |
| 168 | Optimizing the spin-pumping induced inverse spin Hall voltage by crystal growth in Fe/Pt bilayers. <i>Applied Physics Letters</i> , 2013, 103, 162401. | 3.3 | 33 |
| 169 | Determination of the spin Hall angle in single-crystalline Pt films from spin pumping experiments. <i>New Journal of Physics</i> , 2018, 20, 053002. | 2.9 | 33 |
| 170 | Experimental Realization of a Passive Gigahertz Frequency Division Demultiplexer for Magnonic Logic Networks. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900695. | 2.4 | 33 |
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